Angas Bremer Irrigation Management Zone 2024 – 2025 Annual Report

Project Coordinator: Leah Hunter
Angas Bremer Water Management Committee Inc

Supported by

Government of South Australia
Department for Environment and Water

LANDSCAPE SOUTH AUSTRALIA HILLS AND FLEURIEU

LANDSCAPE SOUTH AUSTRALIA MURRAYLANDS AND RIVERLAND

2024-25 Annual Irrigation Report

Contents

Angas Bremer Water Management Committee Members 2024-2025

Presiding Member – Barry Potts
Treasurer – Justin Cleggett

Committee Members
George Borrett, Michael Clements,
Tim Follett, Trevor McLean, Samuel Borrett, Andrew Smith
and Robyn Grey-Gardner
Non-elected members of the Committee
Secretary – Keren Stagg
Project Coordinator – Leah Hunter

Report of the Activities of the Committee 2024-2025

The Angas Bremer Water Management Committee has focussed on its core duties this year holding five committee meetings and an Annual Public Meeting during September.

Throughout the year the committee have continued to raise their concerns and advocate on behalf of irrigators and residents of the Langhorne Creek area about the flow of the Bremer River and possible impacts the developments in Mount Barker and surrounding areas is having on the quality and quantity of the water in the watercourse.

The committee is still focused on this issue and will continue to pursue the region's concerns and the steps that can be taken to improve knowledge of possible causes, and to help push solutions.

Throughout the 2024 / 2025 season, the committee has kept in contact with the EPA and Mount Barker District Council who have provided updates to the group on volumes of water released and the monitoring of water in the catchment. The committee will continue to work with these agencies to follow the progress of works to the wastewater treatment plant and the new EPA monitoring program.

The committee continued to seek a simplified explanation of the Take Rules and the posting of alerts on the Water Connect / Data SA website to assist irrigators

in determining when they can take water. This will continue to be a focus in 2025 / 2026 with alerts and factsheet expected early in 2026.

Several irrigators in our region has raised concerns about permanent structures within the Angas and Bremer Rivers potentially being a barrier to native fish movement. The committee has raised this concern with the Alexandrina Council and Landscapes Hills and Fleurieu. The committee is hopeful an investigation can be undertaken to look at what structures exists and if they are a barrier to fish movement. We will continue to follow this up with relevant parties in the 2025/2026 season.

The committee continue to work closely with the staff and Board from both Hills and Fleurieu and Murraylands and Riverland Landscape Boards and are very thankful for the support received so far. The Hills and Fleurieu and Murraylands and Riverland Landscape Boards have committed funding until June 2026.

The other focus for the committee this year was the annual irrigation reporting for the Angas Bremer Irrigation Management Zone. Please read the following report that summarises the data for the 2023 / 2024 irrigation season.

Irrigation Annual Report Forms: Data Summary

Irrigation Annual Report forms (IARs) were mailed to 132 irrigators within the Angas Bremer Irrigation Management Zone. The 122 irrigators who returned their completed forms to the Angas Bremer Water Management Committee on time have achieved "Accredited Irrigator" status. Online submissions were down this year with 105 irrigators reporting online, 10 irrigators did not respond/ provide data and did not achieve accreditation. The data from 122 irrigators (92%) have been collated and are presented in the following graphs and tables.

Flooding: Flooding by diversion or pumping was reported by 1 irrigator. Flooding was recorded in July 2024 (1 event). 8 hectares of irrigated land was recorded as being flooded and 1 hectare of non-irrigated land this year.

Revegetation: The total area of revegetation reported in the Irrigation Annual Reports is 1,224 ha. This includes 40 hectares revegetated during the Biodiversity Landcare Projects.

Red Gum Health: 79 Irrigators reported on the health of the Red Gums on their properties. Health, or otherwise, was rated from 0 to 5, with 0 being dead and 5 being healthy. This year there has been a decrease in the number of irrigators reporting that their red gums were healthy with only 14 irrigators reporting that their red gums were all 100% healthy compared to 29 last year. While some of the remainder listed the majority of their trees to be in relatively good health with no changes in health direction more people listed suboptimal, unhealthy and stressed for the majority of their trees, with19 irrigators listing their red gums as getting worse and only two irrigators listing their red gums as getting better.

Water Leasing: Table 1 below shows the amount of water leased in 2024-25 compared with water leased in the previous two years. Overall, less water was leased out by irrigators this year than last. The amount of River Murray water leased out to Outside decreased by 469.5ML and the amount leased in from irrigators outside of the Angas Bremer Irrigation Management Zone (ABIMZ) increased by 3910.37ML. The volume of River Murray water leased to other irrigators within the Angas Bremer Irrigation Management Zone is higher than last year with 10 leases reported. There was also one Ground Water lease from inside the Angas Bremer Irrigation Management Zone to another irrigator within the zone of 50ML.

Table 1: Water Leasing

Type of Lease	Megalitres 2022-2023	Megalitres 2023-2024	Megalitres 2024-2025
RM water leased from ABIMZ to outside ABIMZ	682.00	2342.00	1872.50
RM water leased from outside ABIMZ to inside ABIMZ	5382	2311.23	6221.60
RM water leased from inside ABIMZ to inside ABIMZ	283.28	293.00	311.54

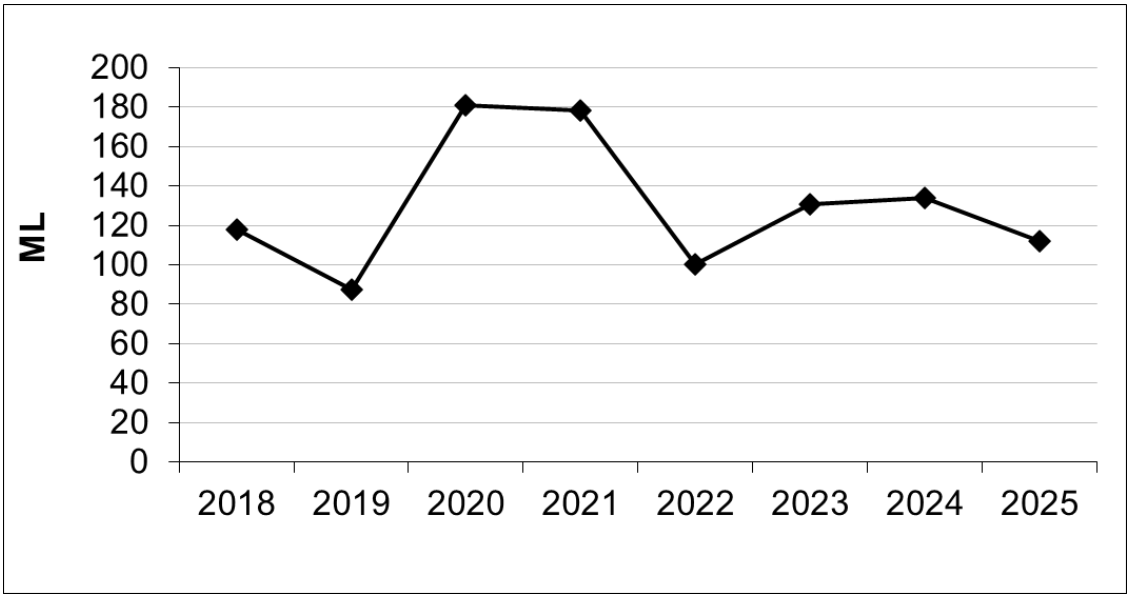


Figure 1: Angas and Bremer Rivers Water Extractions 2018-2025: Not all of the water taken from these rivers, such as the water diverted through weirs and sluices, is accounted for in this chart. The volumes on this graph are metered volumes from irrigators with meters installed, as well as the amount recharged into the aquifer from these rivers, as reported in the Irrigation Annual Reports. The amount of water that was recorded as having been extracted from these rivers is lower than last year with a slight decrease of 22.06ML (112ML used this year).

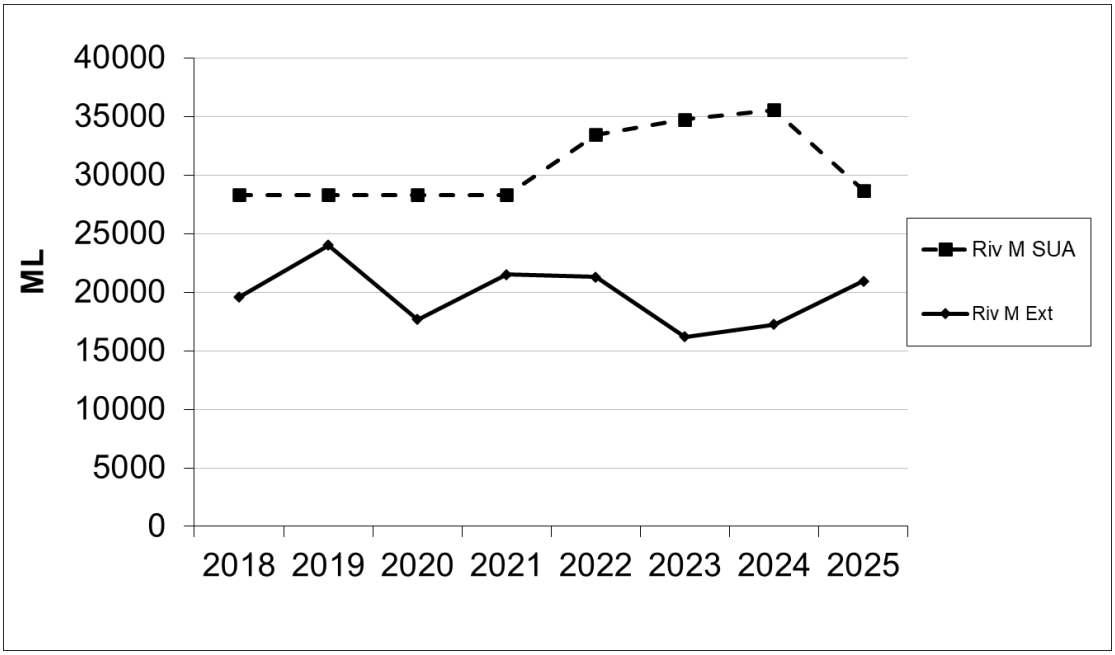


Figure 2: River Murray Water Site Use Approval and Extraction 2018-2025: The River Murray Site Use Approval (RivM SUA) is the maximum quantity of River Murray water that can be used for irrigation on land identified as being in the Angas Bremer Irrigation Management Zone. Extraction (RivM Ext) is the volume of water that was used during the irrigation year. The total Site Use Approval volume for 2024-25 volume has decreased to 28702.49ML (due to DEW no longer being able to provide the ABWMC with SUA volumes for the year and we are using the recorded volume in the database which does not include any roll over etc), and the recorded use was 20938.94ML, 3700.16ML more than last year.

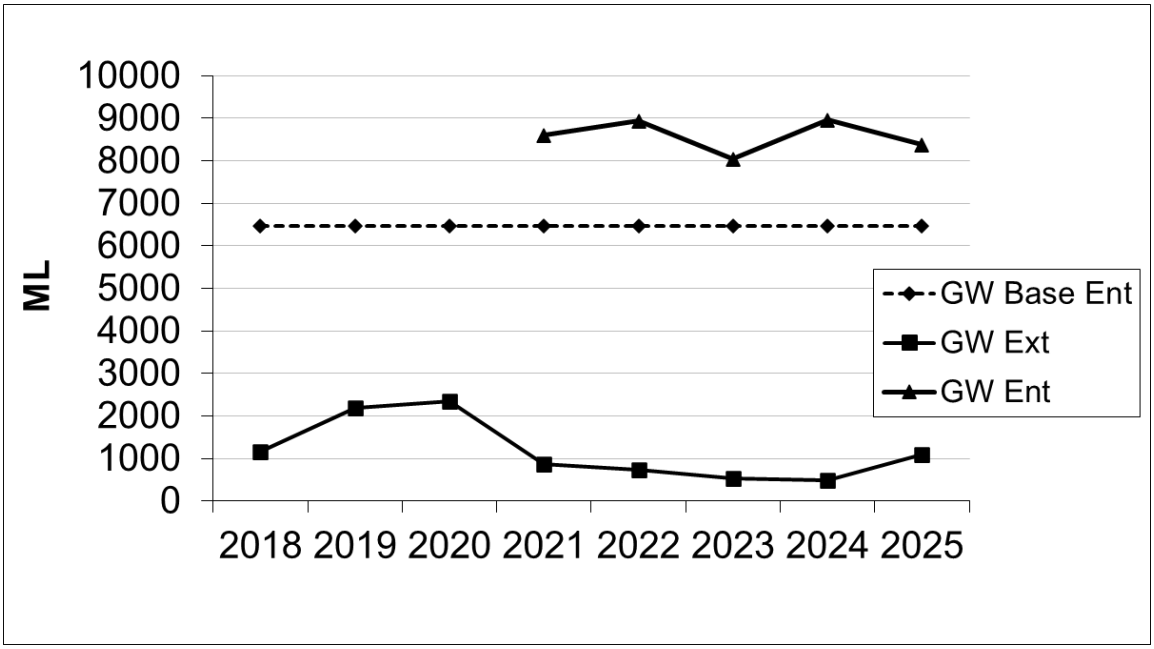


Figure 3: Groundwater Entitlement and Extraction 2018-2025: The maximum entitlement for 2024-25 was 8376ML (Including rollover, drain and discharge volumes on top of the base allocations) and the recorded use was 1099.16ML. An increase of 607.45ML with 491.71ML used in the previous year. This is much lower than the 7,700 ML used during the "Millennium Drought".

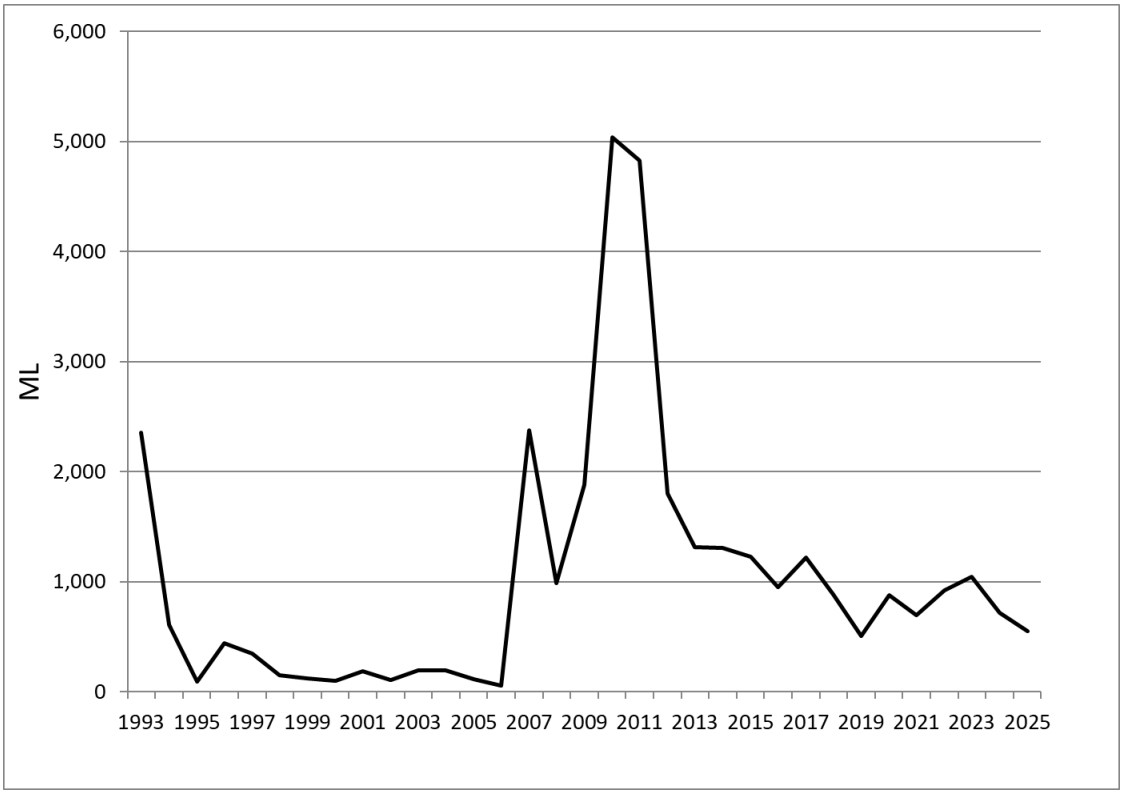


Figure 4: Managed Aquifer Recharge (MAR) (formerly termed Aquifer Storage and Recovery (ASR): This chart shows the total volume of water artificially recharged to the aquifer from 1993 to 2025. The **550 ML** recharged from the Angas, Bremer and Murray Rivers in 2024-2025 was lower than last year's volume and substantially lower than the record levels achieved in 2010.

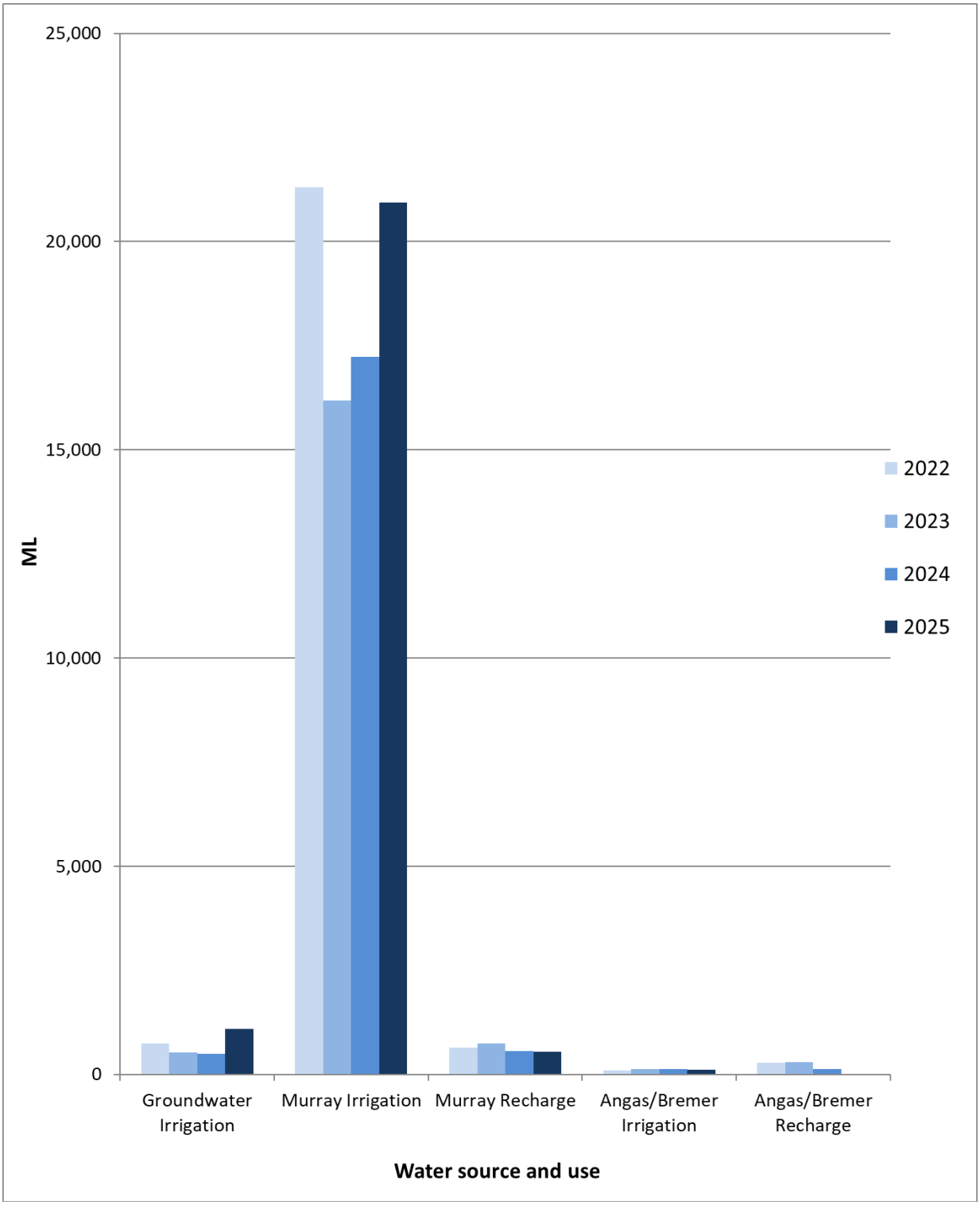


Figure 5: Total volume of water used 2024-2025: The total volume of water extracted from all sources within the region over the 2024-25 year was **22,700ML**, higher than the previous year, 2023-2024 = 18,551ML.

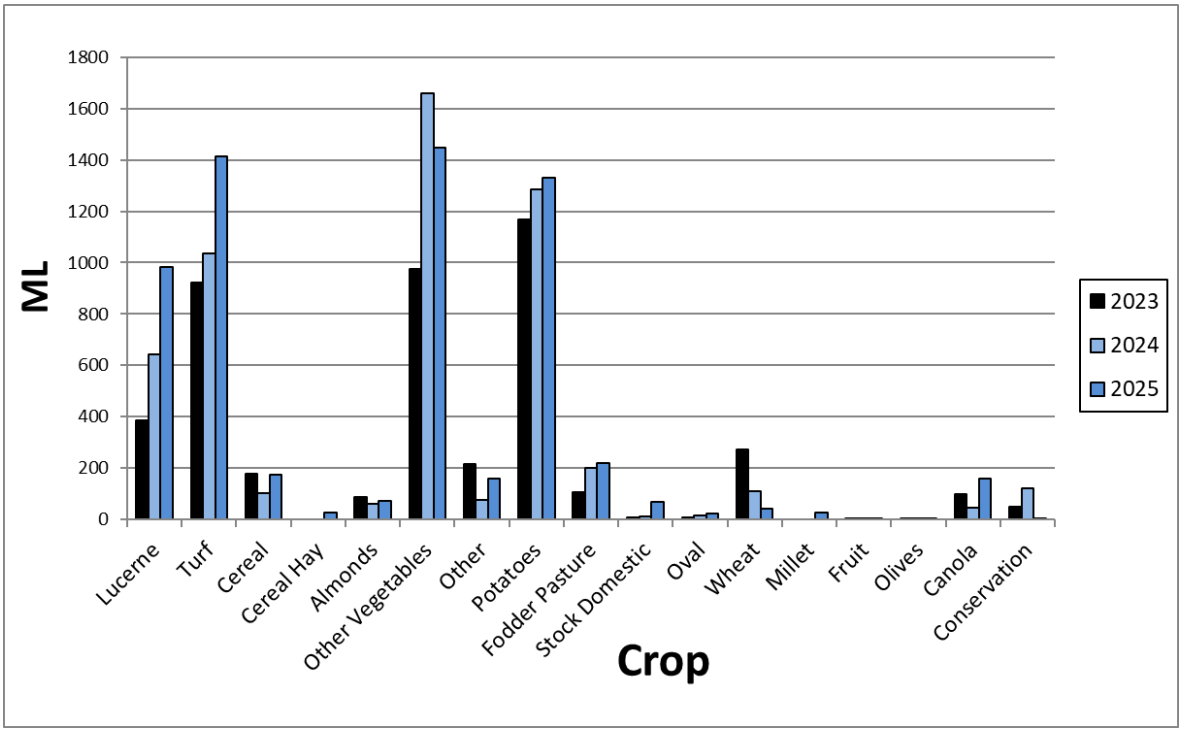


Figure 6: Total volume of water used for each crop type: This volume is the total used from all sources; groundwater, Angas/Bremer water and River Murray water that was applied to each crop type (grapes excluded). **The total volume of water applied to grapes was 16,062ML in 2024-2025, an increase from last year's 11,903ML.**

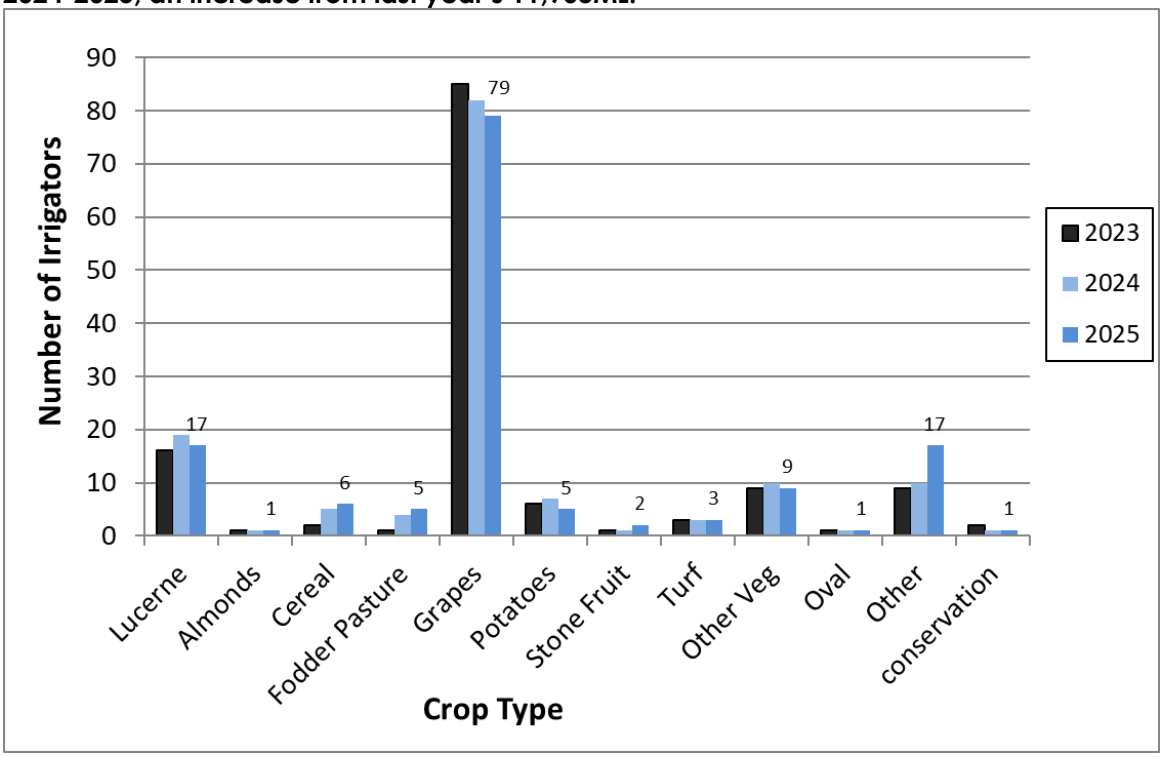


Figure 7: Number of Irrigators for Each Crop Type: The number of irrigators growing each crop type in the region has fluctuated for most crop types with a decrease in grapes from 82 down to 79. There is a clear increase in 'other' which includes Canola increasing from 10 last year to 17.

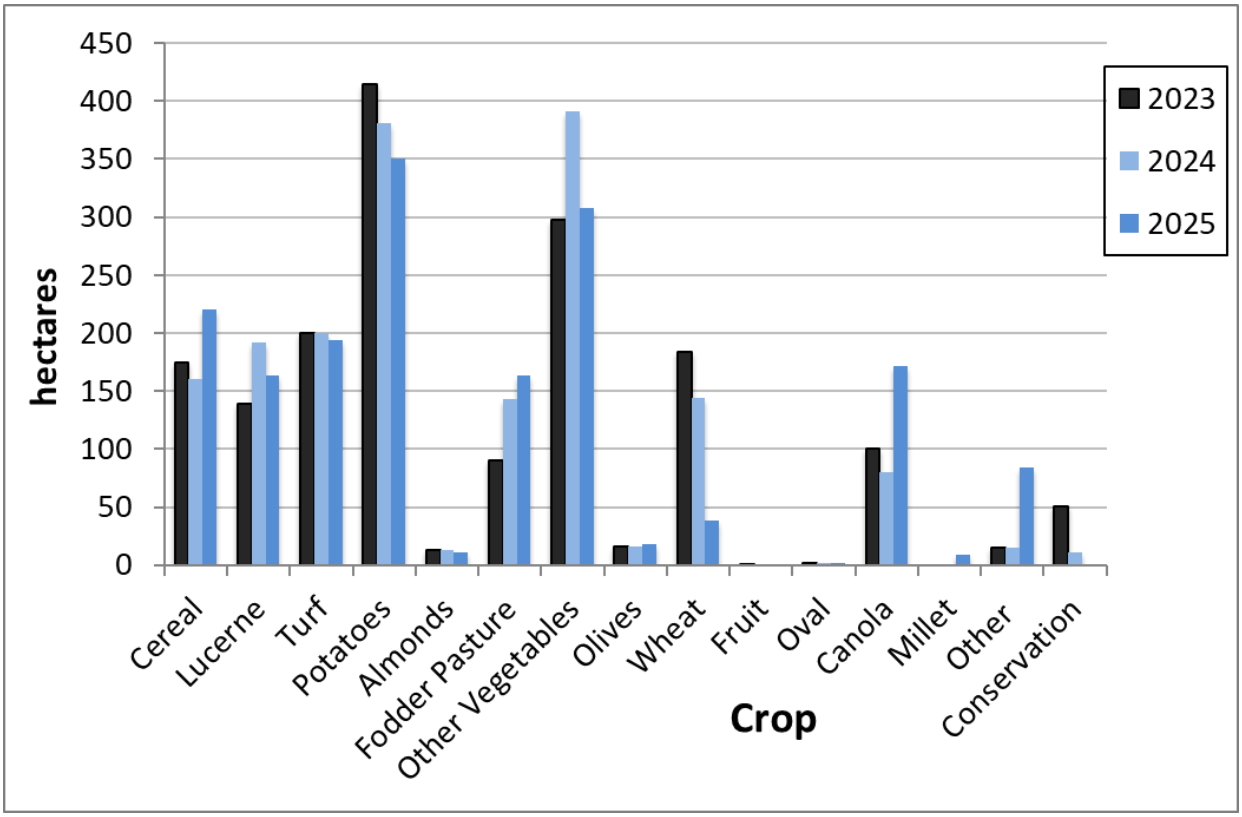


Figure 8: Area Irrigated by Crop Type: The area of each crop irrigated is shown in hectares. The total area represented in the graph is 1737 ha. **The area of grapes irrigated in 2024-25 was 5,221 ha, less than the 5,443 ha recorded last year (not shown in graph).** The total area under irrigation in 2024-25 was 6,957 ha, which is greater than the 7,192 ha recorded last year. There is a significant decrease in other Wheat, Other vegetables, Potatoes and conservation with a significant increase in Canola.

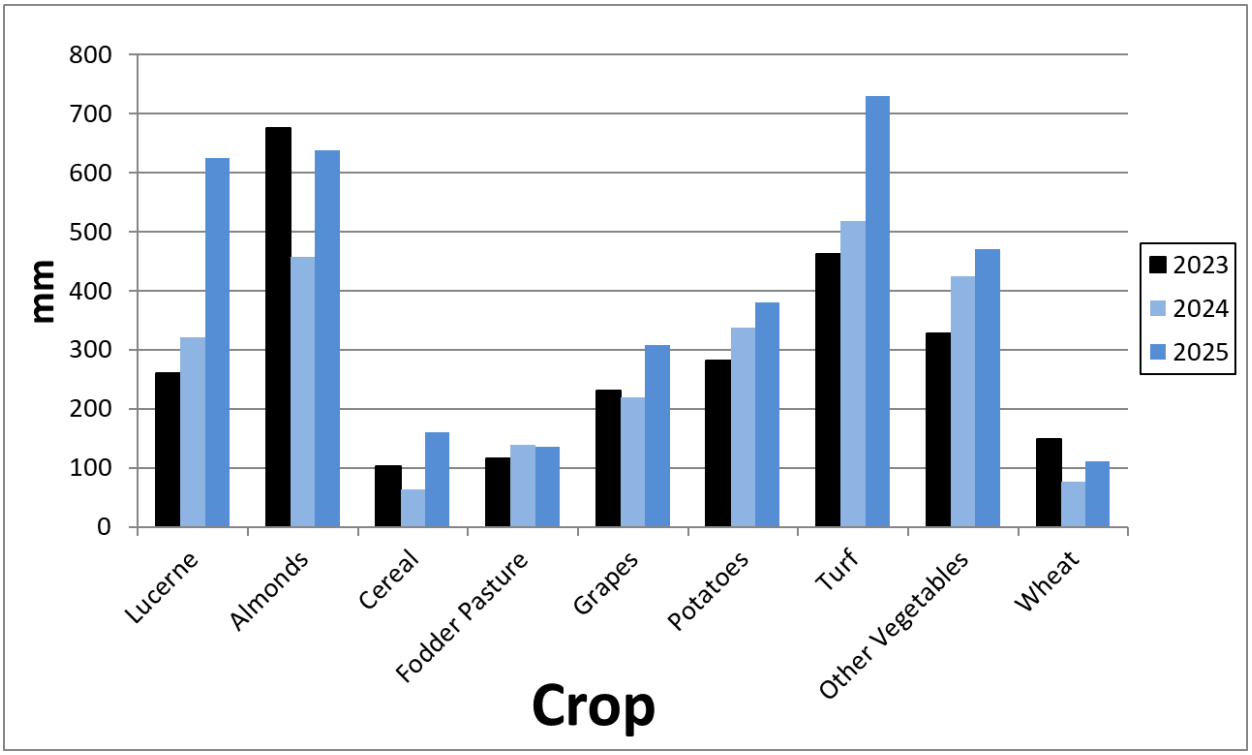


Figure 9: Average total irrigation rate for the year by crop type: Irrigation is shown in mm for 2022-23, 2023-24 and 2024-25.

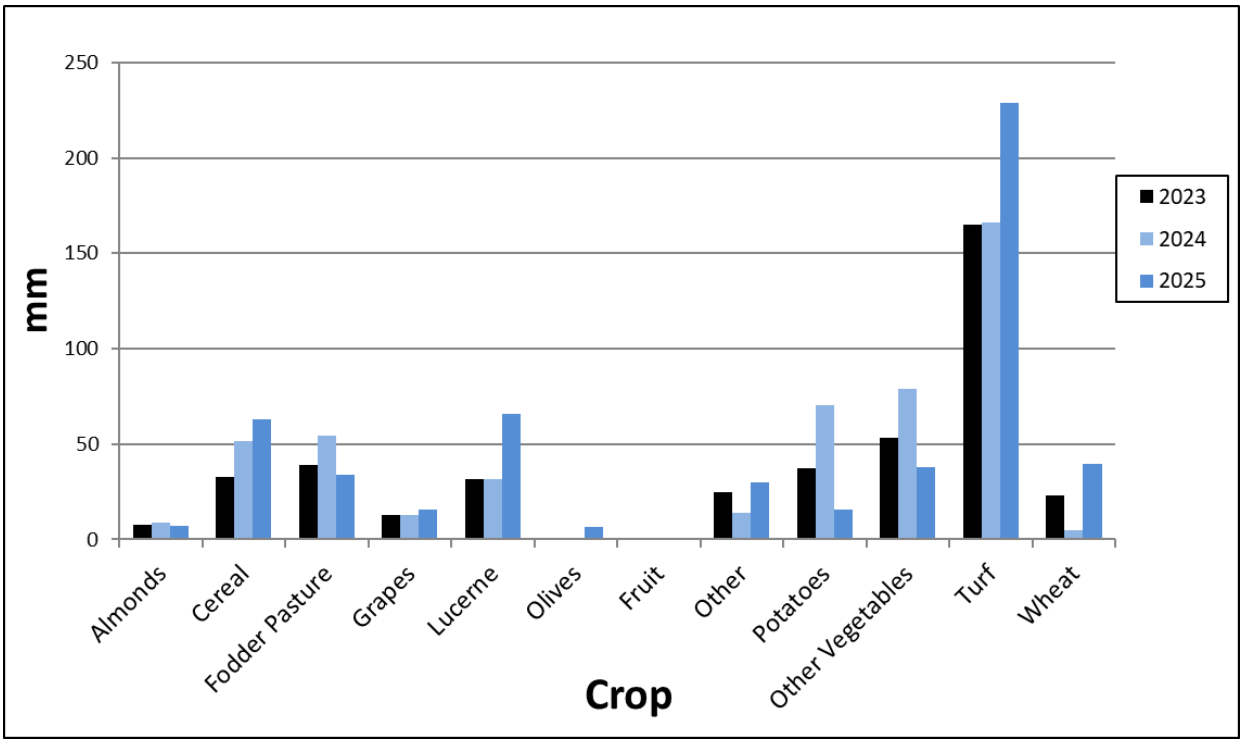
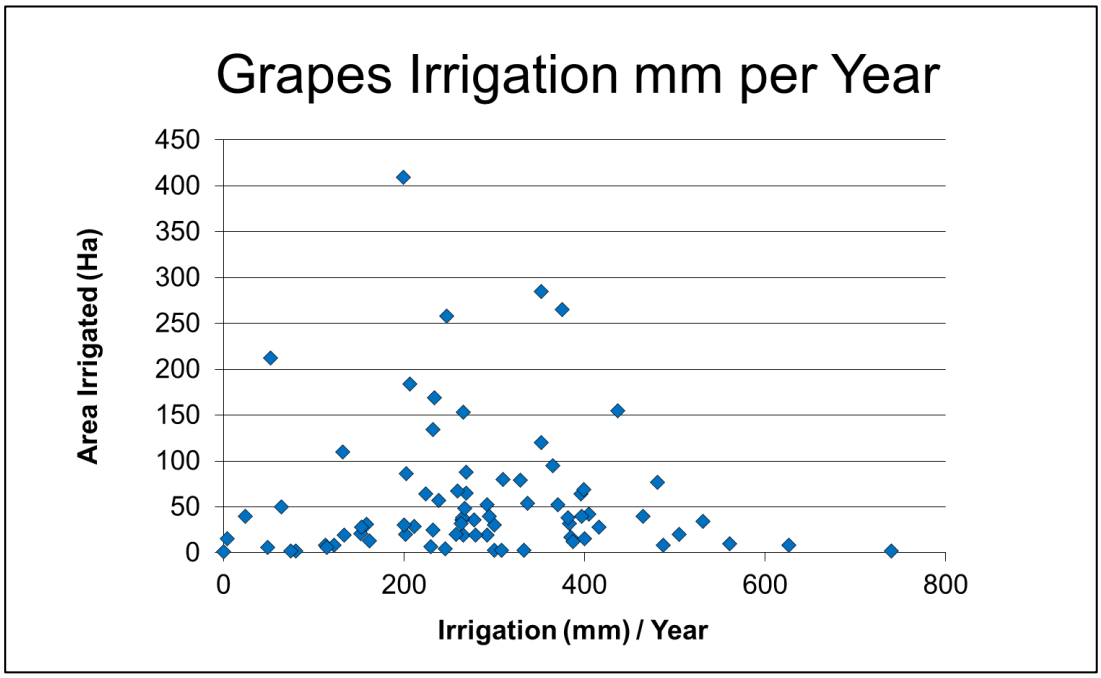


Figure 10: Average mm of water applied per irrigation for each crop type for the last three years.

Figures 11-15: These charts show the irrigation rate per property for the more common crops. **For each crop one chart shows (a) the mm per year and (b) the mm per irrigation**.



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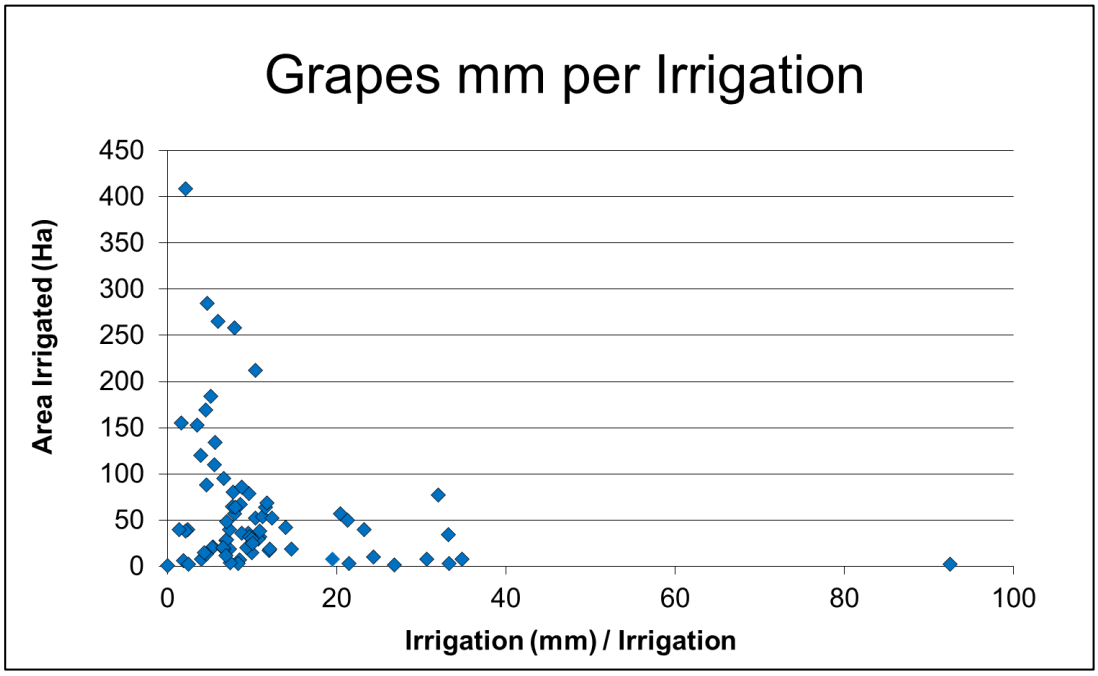

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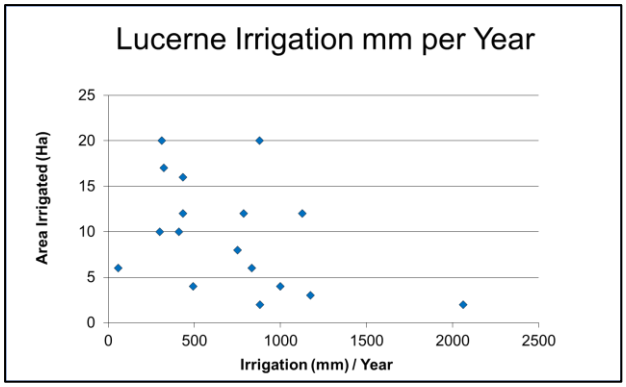

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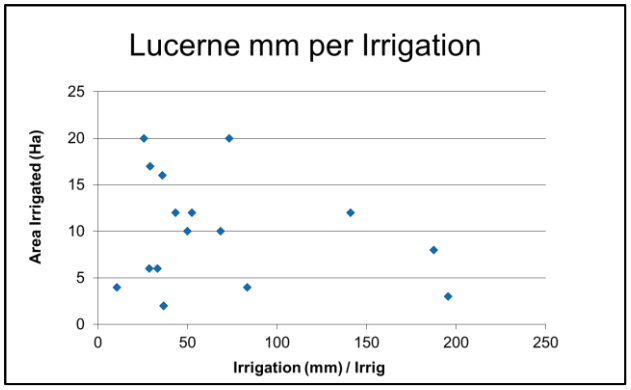

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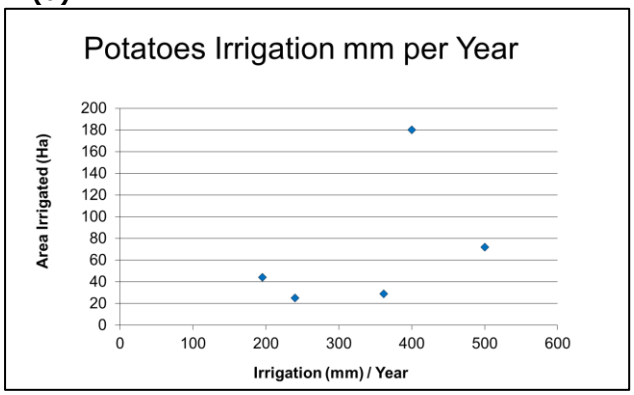

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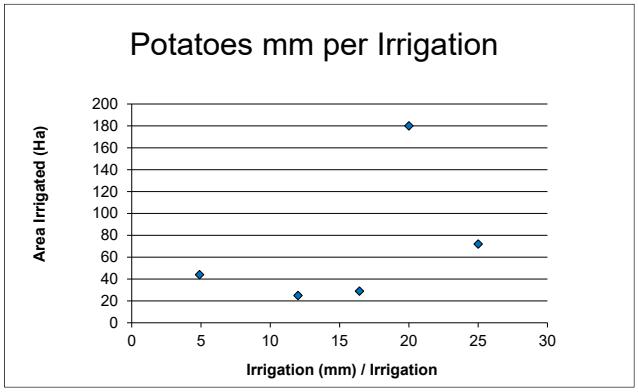

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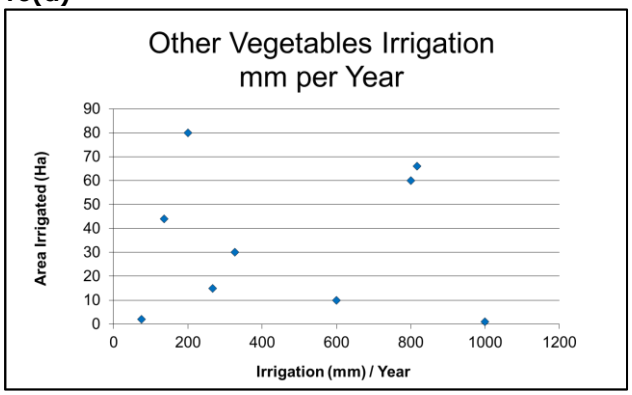

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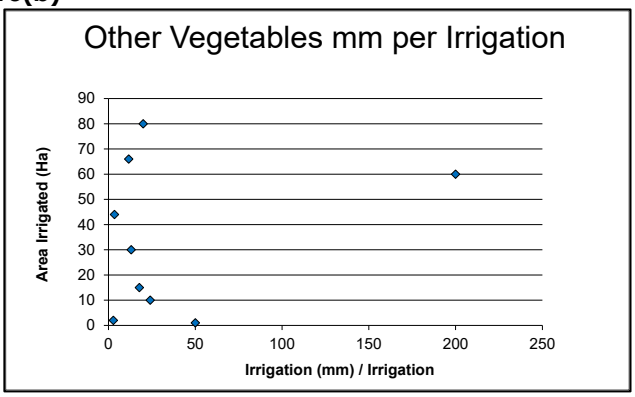

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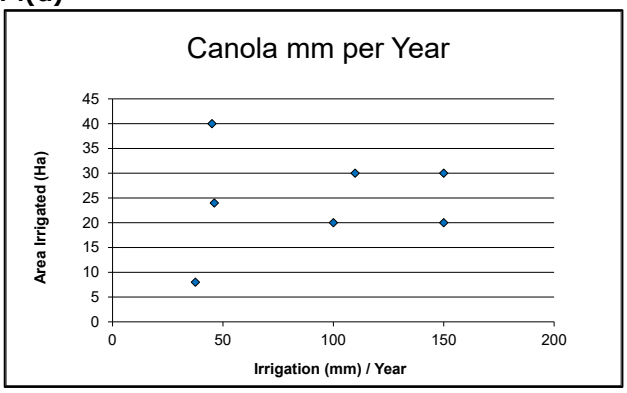

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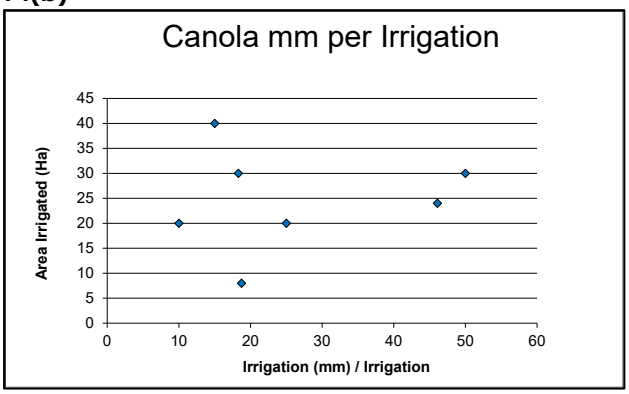

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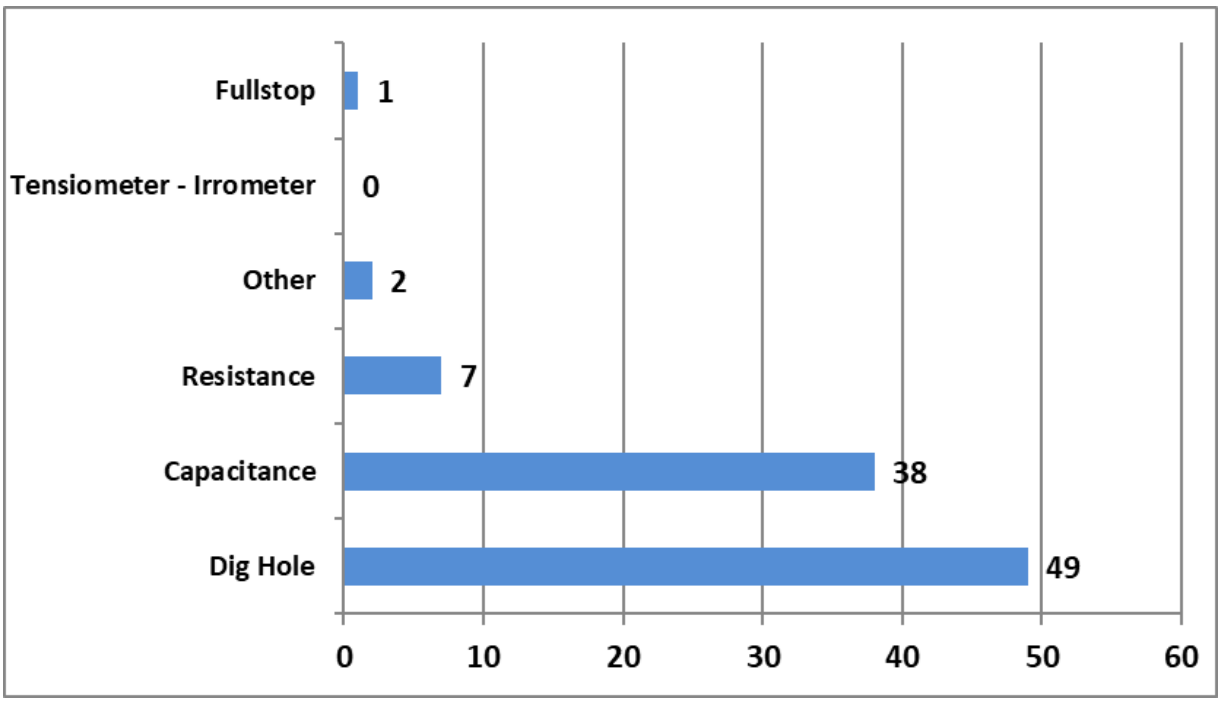


Figure 16: Number of growers using Soil Moisture Monitoring devices in 2024-25: "Resistance" includes Gypsum Blocks. "Capacitance" includes Agwise soil moisture probes, Agrilink C probe, Dataflow Gopher, Sentek Diviner and Sentek EnviroSCAN. "Dig hole" includes Dig stick, spade, auger and post hole digger.

Table 2: Average ML/ha per crop per year: This table shows the average ML/ha of irrigation water applied to different crop types and compares 2025 with previous years. This information is also displayed in the following Figure 17. Note: 1ML/ha is equivalent to 100mm of irrigation.

Year	Grape	Lucerne	Vegetable	Potato	Fodder	Almond	All Crops
2024-2025	3.07	5.99	4.70	3.80	1.35	6.38	3.19
2023-2024	2.19	6.42	4.25	3.37	1.39	4.58	2.40
2022-2023	2.30	2.75	3.27	2.81	1.16	6.76	2.38
2021-2022	2.78	3.62	5.68	2.65	1.4	5.81	2.98
2020-2021	2.88	1.96	4.25	4.35	1.6	3.88	3
2019-2020	2.82	2.43	2.84	3.51	1.8	5.56	2.8
2018-2019	2.79	2.9	6.46	3.4	1.3	5.33	2.95
2017-2018	2.74	3.14	4.78	4.33	0.9	3.61	2.99
2016-2017	1.85	2.92	4.71	4.86	1.3	3.18	2.23
2015-2016	2.82	3.38	4.96	4.66	1.02	5.79	2.99
2014-2015	2.68	3.8	5.39	5.41	3.03	4.15	3.13
2013-2014	2.26	4.24	4.02	4.92	1.98	4.56	2.51
2012-2013	2.62	4.53	6.35	4.01	1.58	3.91	2.62
2011-2012	2.25	4.52	7.76	4.13	1.22	4.37	2.55
2010-2011	1.9	2.2	2.4	3.1	0.5	3.4	2
2009-2010	2.3	4.32	3.6	3.72	1.2	5.11	2.47
2008-2009	1.73	2.99	4.38	1.74	1.24	1.04	1.78
2007-2008	1.97	4.36	7.8	2.51	2.36	5.24	2.07
2006-2007	2.04	5.13	6.43	4.12	1.7	5.23	3.67
2005-2006	1.8	4.23	5.04	2.99	1	4.06	2.95
2004-2005	1.99	5.22	5.18	3.67	2.74	4.79	2.25
2003-2004	1.97	4.5	8.8	3.5	2.7	4.2	2.28
2002-2003	2.2	6.8	6	3.8	4.3	4	2.61

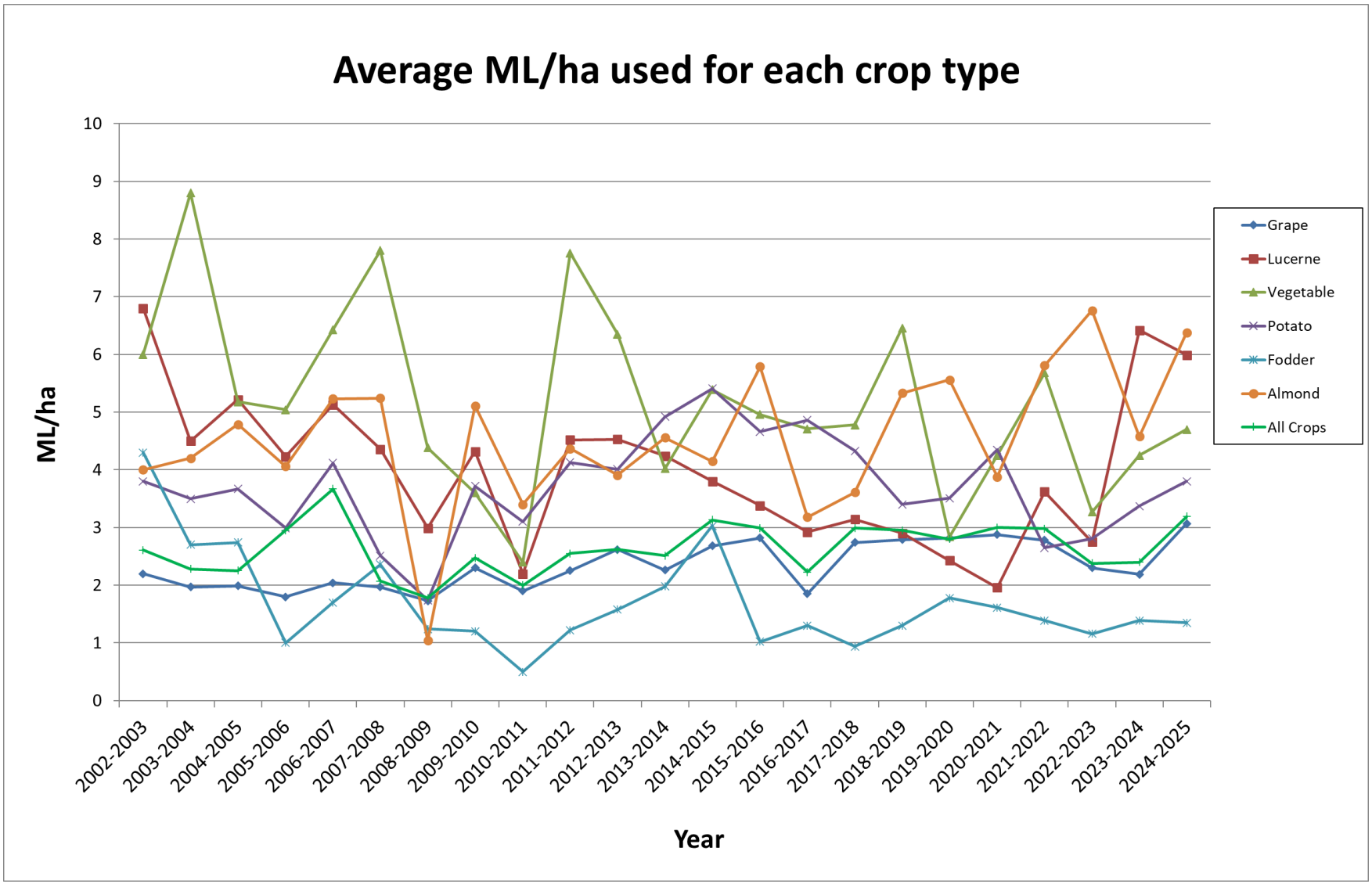


Figure 17: Average ML / ha used for each crop type

Table 3: ML used and ha irrigated comparison chart:

	2024-2025	2023-2024	2022-2023	2021-2022	2020-2021	2019-2020	2018-2019	2017-2018	2016-2017	2015-2016	2014-2015	2013-2014	2012-2013	2011-2012	2010-2011	2009-2010	2008-2009	2007-2008	2006-2007	2005-2006	2004-2005	2003-2004
Total ML	**22,217**	**17,267**	**16,419**	**21,652**	**22,456**	**19,839**	**22,125**	**20,279**	**14,772**	**20,932**	**20,408**	**18,605**	**18,617**	**17,056**	**13,346**	**16,241**	**12,001**	**14,743**	**20,911**	**15,811**	**17,719**	**17,154**
Total ha	**6,969**	**7,191**	**6,894**	**7,212**	**7,479**	**7,085**	**7,489**	**6,792**	**6,637**	**7,011**	**7,380**	**7,406**	**7,107**	**6,687**	**6,687**	**6,578**	**6,748**	**7,049**	**8,370**	**7,739**	**7,869**	**7,509**
Grape ML	16,062	11,903	11,943	16,118	16,767	16,702	16,418	14,819	9,998	15,961	15,972	13,230	13,129	11,990	11,275	13,718	10,738	12,330	12,827	11,293	11,688	11,927
Grape ha	5,221	5,443	5,195	5,799	5,821	5,920	5,892	5,407	5,391	5,658	5,954	5,850	5,641	5,323	5,965	5,971	6,199	6,245	6,271	6,170	5,876	6,059
Lucerne ML	982	641	384	719	751	608	1,352	1,236	1,013	1,300	1,668	1,446	1,820	1,477	376	657	326	675	1,437	1,378	1,791	1,608
Lucerne ha	82	192	140	200	383	251	466	393	348	384	439	341	402	327	170	152	109	155	280	325	343	354
Veg ML	1,449	1,661	975	1,679	1,161	468	1,194	559	856	963	964	580	610	877	193	36	57	179	373	363	638	605
Veg ha	308	391	298	296	273	165	185	117	182	194	179	144	96	113	81	10	13	23	58	72	123	69
Potato ML	1,331	1,285	1,167	617	1,079	485	717	758	1,156	947	1,238	1,073	1,232	1,283	555	320	131	136	1,200	1,171	1,278	1,280
Potato ha	350	381	415	233	248	138	211	175	238	203	229	218	307	311	179	86	75	54	291	392	348	360
Fodder ML	221	199	105	173	165	120	141	79	21	76	109	107	90	78	22	47	32	53	222	144	505	399
Fodder ha	164	143	90	124	103	67	108	84	16	74	36	54	57	64	43	39	26	23	130	144	184	146
Almond ML	70	60	88	75	136	195	202	65	57	104	166	187	180	188	148	225	193	231	251	195	230	203
Almond ha	11	13	13	13	35	35	38	18	18	18	40	41	46	43	43	44	44	44	48	48	48	48
Other crops ML	2,102	1,518	1,757	2,271	2,397	1,261	2,100	2,763	1,671	1,581	2,069	1,935	1,556	1,094	777	1,238	524	795	2,004	900	1,589	1,132
Other crops ha	833	628	743	547	616	509	589	598	444	480	503	573	558.5	501	206	276	282	505	906	588	936	443

Angas Bremer Groundwater Resources 2025
Current status and historical trends

November 2025

Murray Group Limestone aquifer water levels (2021–2025)

The main aquifer used in the Angas Bremer PWA is the confined Murray Group Limestone (MGL) aquifer which is up to 100 m thick. For the period 2021–25, 18 out of 32 monitoring wells show five-year trends of rising groundwater pressure levels, at rates between 0.03–0.39 m/year (median rise of 0.07 m/year).

DEW uses a ranking system as a way of evaluating current groundwater levels in comparison to historic data. In 2025, seasonally recovered pressure levels are classified 'Above average' or higher in 91% of wells.

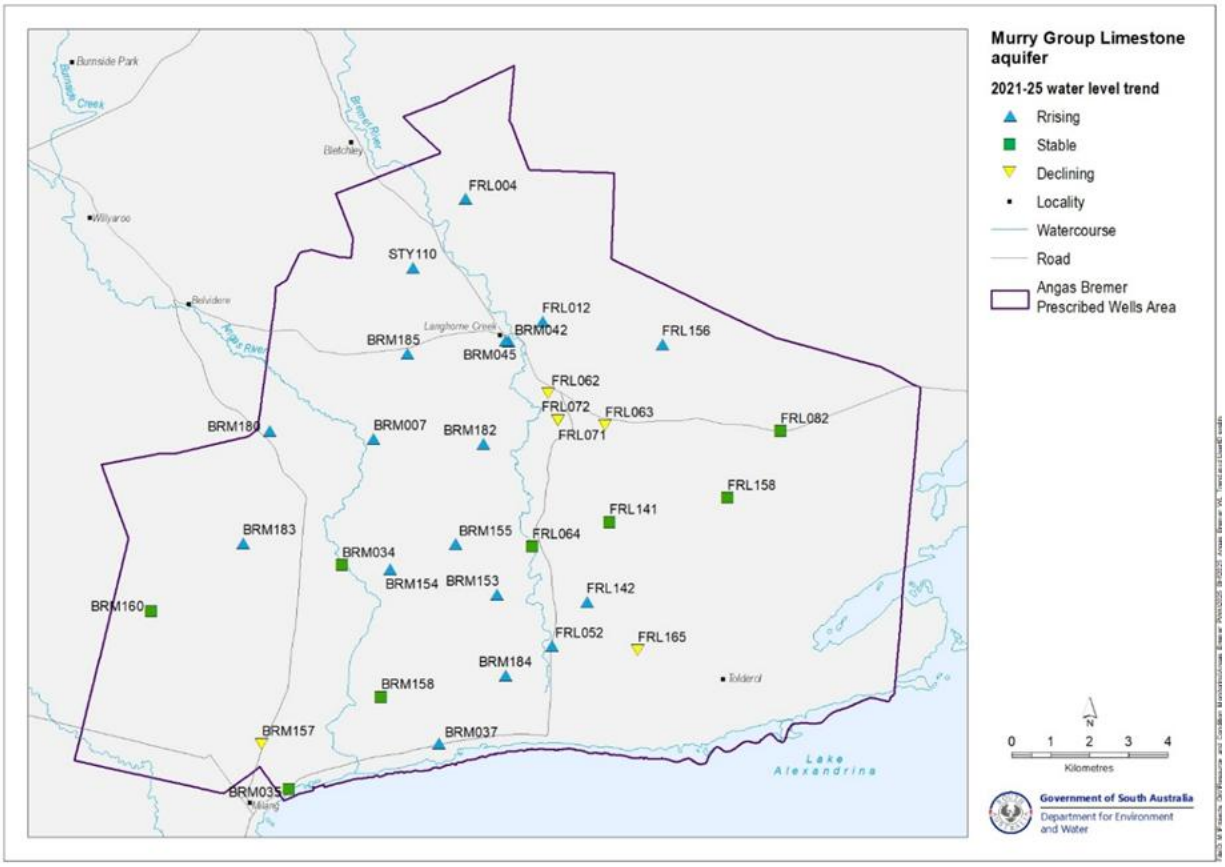


Figure 18: Murray Group Limestone aquifer water level trend 2021 to 2025

The hydrographs presented below were selected to illustrate important and/or representative trends. Hydrographs show a long-term rising trend across the region – groundwater pressure levels are currently close to the highest levels recorded since monitoring began in the 1970s. The increases in pressure levels that occurred during the 1990s are mainly attributed to a reduction in groundwater extraction resulting from increased availability of River Murray water for irrigation. In more recent years, managed aquifer recharge schemes that inject River Murray and ephemeral surface water flows into the MGL aquifer have also contributed to rising pressure levels.

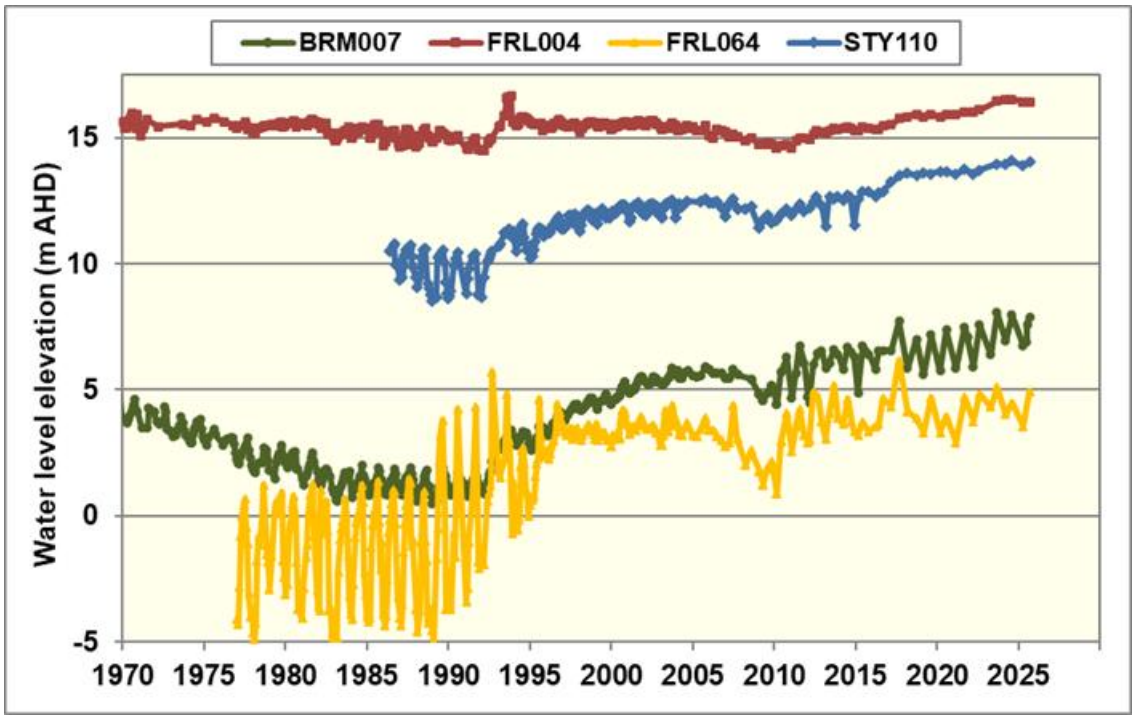


Figure 19: Selected hydrographs for the Murray Group Limestone aquifer

Quaternary aquifer water levels (current)

The shallow Quaternary aquifer consists of a sequence of clays, silts and sands of around 10–20 m thickness. This aquifer is generally highly saline with low yields and, consequently has limited use. Groundwater level monitoring in April and September 2025 shows that the water table is deeper than 3 metres across most of the area, with the exception of adjacent Lake Alexandrina, where the water table is naturally shallower than 3 metres.

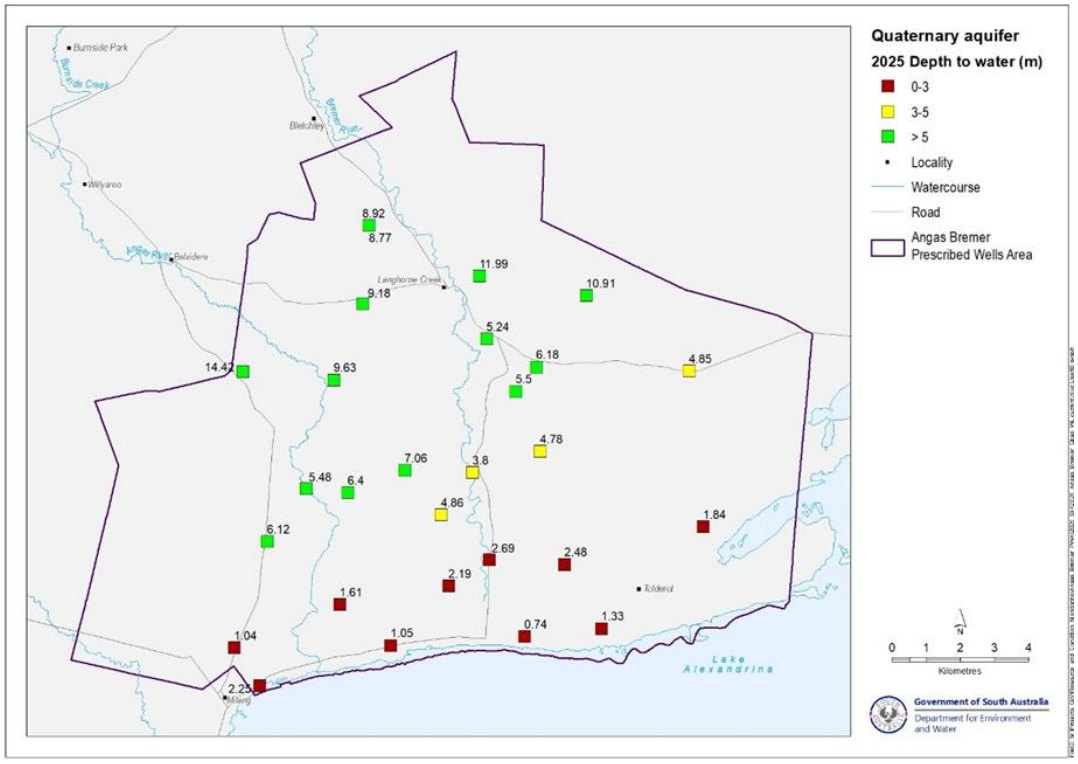


Figure 20: Quaternary aquifer water levels 2025

MGL aquifer salinity (current)

In 2025, irrigators provided groundwater samples from 38 wells. Of these, 55% of wells have salinity in the range 1,500–3,000 mg/L while 29% of wells have salinity less than 1,500 mg/L. The salinity distribution in the MGL aquifer shows low-salinity groundwater is available in limited areas, traditionally within narrow zones parallel the Angas and Bremer Rivers. Groundwater salinity greater than 1,500 mg/L is typical of the MGL aquifer, which is generally greater than the salinity tolerance threshold for wine grapes.

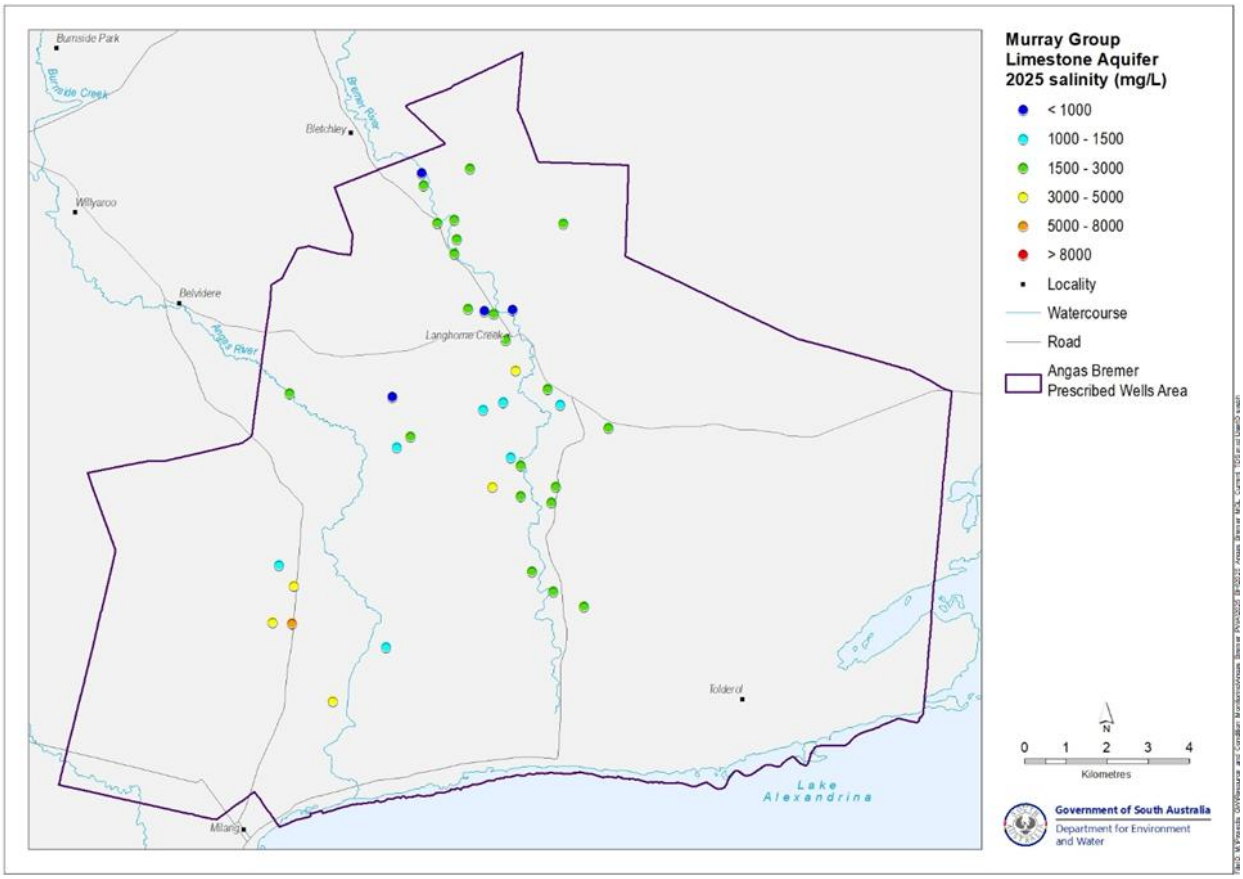


Figure 21: Murray Group Limestone aquifer salinity 2025

MGL aquifer salinity (2021–2025)

Salinity monitoring for the period 2021–25 shows variable 5-year trends – 7 wells have an increasing trend; 7 wells have a stable trend and 2 wells have a decreasing trend. Wells with a salinity record of at least five years' length are generally located adjacent to the Bremer River where most of the groundwater extraction occurs. Short-term fluctuations in groundwater salinity are mainly due to managed aquifer recharge operations.

Irrigators from across the area are actively encouraged to participate in the Department for Environment and Water's (DEW's) annual groundwater sampling program. Groundwater data submitted by irrigators helps to augment data from DEW's groundwater monitoring network, enabling a more informative presentation of salinity trends to support planning and management of the region's water resources.

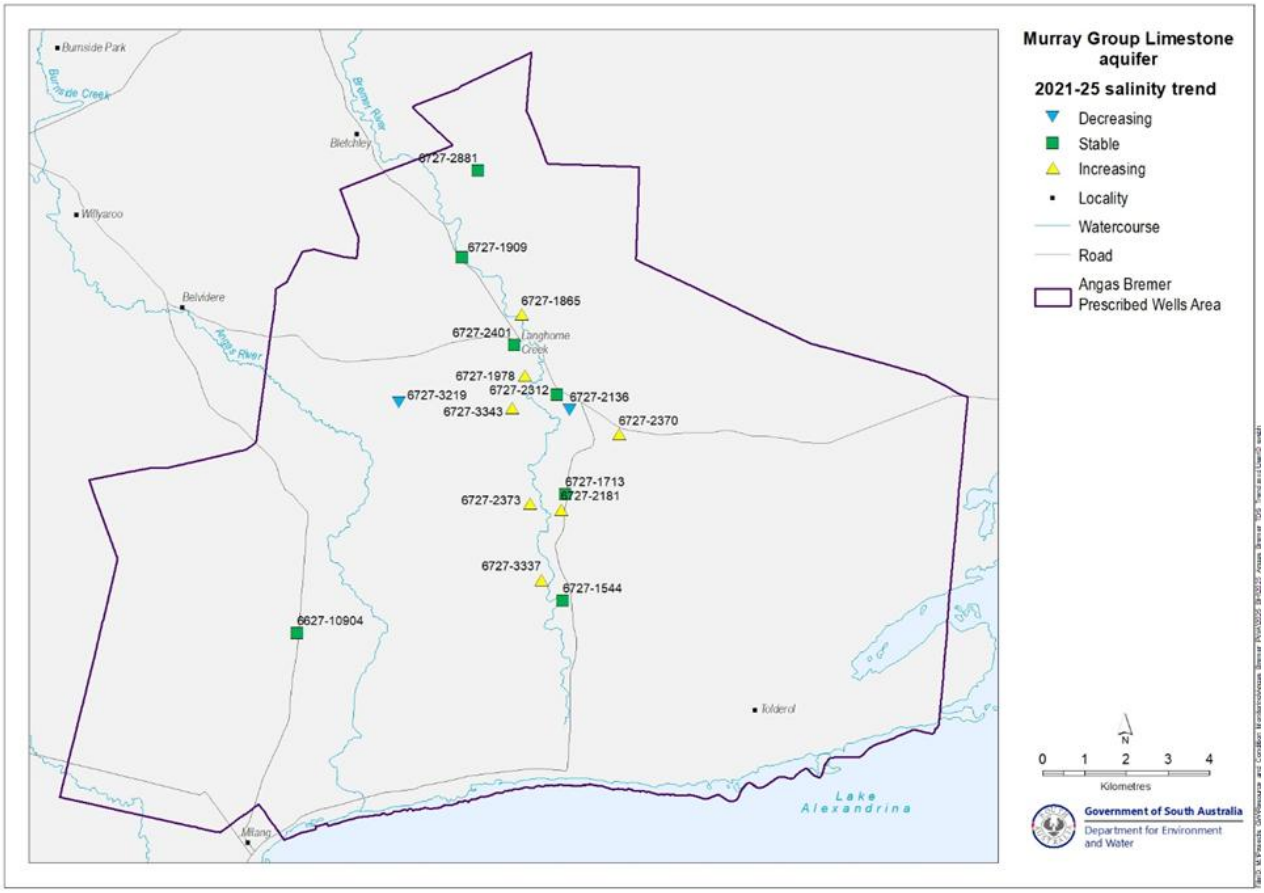


Figure 22: Murray Group Limestone aquifer salinity trend 2021 to 2025

The Twenty Seventh Annual Public Meeting of the Angas Bremer Water Management Committee Incorporated

Wednesday 24th September, 2025 at 7:00pm.

The Langhorne Creek Bowling Club, Langhorne Creek.

Attendees: Barry Potts, Justin Cleggett, Tim Follett, Trevor McClean, George Borrett, David Hender, Brett Cleggett, Sam Borrett, Geoff Warren, Paul Wainwright, Brett Ibbotson, Lisa Abrahams, Oliver Core, Keren Stagg

Apologies: Grant Tillbrook, Scott Collett, Jenny Venus, Nicole Clarke, Loene Furler, Leah Hunter

1. Opening Address

The meeting opened at 7:04pm, with Presiding Member Barry Potts welcoming attendees, guest speakers Paul Wainwright and Brett Ibbotson, and new Landscape Hills & Fleurieu team members Lisa Abrahams and Oliver Core.

Barry thanked Leah, Keren and the committee for their contributions over the past year.

2. Minutes of the last Annual Public Meeting

A motion was raised that the minutes from the 2024 APM be accepted.
Moved: George Borrett Seconded: Tim Follett
All were in favour.

3. Presiding Member Annual Report – Barry Potts

Barry thanked Landscape Hills & Fleurieu and the Murraylands & Riverland Landscape Board for their continued funding of the ABWMC and the IAR for the 2025–26 financial year.

During 2024–25, the ABWMC:

- Continued liaising with the EPA and Mt Barker Council on wastewater release quality and timing. Monitoring is ongoing, and the EPA plans to install bi-valves.
- Worked with the Landscape Hills & Fleurieu Board during the WAP review amendment phase.
- Continued to pursue a simpler system to notify irrigators when flow events begin and the Take Rules are triggered.

4. Summary of 2024/2025 Irrigation Annual Report - Leah Hunter, Project Coordinator

Leah Hunter sent her apologies and provided a video summarising the 2025 IAR results received to date:

- 119 reports (91% of the total due) had been received, with 105 (80%) submitted online, the same as last year. Leah thanked everyone who submitted their reports online and on time.
- Use of all water sources increased: River Murray +4,234 ML, Ground Water +599 ML, Surface Water +99 ML, while recharge fell 116 ML. The overall increase reflects the dry conditions last season, with total volumes similar to 2022.
- There was one recorded flood in July 2024, affecting 8 Ha.
- Data shows a general decrease in irrigators across most crop categories, except cereals and stone fruit, which each had one additional irrigator.

The final IAR is expected in December 2025 and will be posted on the ABWMC website. A link will be sent to all irrigators.

Leah thanked the committee members and both Landscape Boards for their ongoing support.

Barry thanked Leah for her presentation.

5. Financial Report – Justin Cleggett, Treasurer

The Annual Financial Report of the ABWMC Committee 2024-25 was presented by Justin Cleggett.
Moved: Justin Cleggett Seconded: Barry Potts
All were in favour.

Justin thanked Keren and Leah for their efforts and Barry thanked Justin for delivering the Treasurer's report.

6. Amendment of the EMLR & WMLR WAP, Paul Wainwright, Team Leader Water Resources, Landscapes Hills & Fleurieu

Barry introduced Paul Wainwright, who presented on the amendment of the EMLR & WMLR WAP review. Key points included:

- WAPs are reviewed every 10 years, with the current review due by 2028–29.
- The review will assess surface and groundwater use, environmental impacts, redgum swamp health, water flow, and potentially forestry and stock-and-domestic rules.
- DEW is developing a new model for the Angas and Bremer Catchments, including surface water capacity, farm dams, and hydroecology.
- Community consultation, including First Nations participation, will be integral. Paul will continue working closely with the ABWMC.

Barry thanked Paul for his presentation.

7. Overview of Dam Education and Compliance Program, Brett Ibbotson, Program Manager, Dam Education and Compliance, Landscapes Hills & Fleurieu

Barry introduced Brett Ibbotson who provided an overview of the Dam Education and Compliance Program. Key points included:

- In 2013, a government moratorium on new dam construction was introduced to reduce water stress. In 2023 comparison of GIS data identified several hundred illegal dams.
- $4.4 M from the Landscape Priority Fund established a Dam Education and Compliance program covering communication, education and compliance.
- Communication highlights illegal dams, environmental impacts, compliance, and land manager responsibilities.
- The compliance team is prioritising larger illegal dams and those on watercourses or near wetlands, especially in Landscape Hills & Fleurieu and Kangaroo Island.
- Methods for change detection are being explored for statewide use, including automated processes that incorporate AI.

Barry thanked Paul and Brett and presented them with a gift.

8. Election of ABWMC members

The Angas Bremer Water Management Committee constitution requires 5–10 elected members. Six positions carried over from the previous committee, and nominations were called for up to four positions.

Continuing members mid-term are Michael Clements, Trevor McLean, Justin Cleggett, Sam Borrett, and Andrew Smith. Robyn Grey-Gardiner resigned and was replaced by Paul Wainwright as the Landscape Hills & Fleurieu representative.

Members renominating are Barry Potts, George Borrett, and Tim Follett.

A motion was raised to accept the renominating members.
Moved: Justin Cleggett Seconded: Trevor McLean
All were in favour.

No new written or floor nominations were received.

9. General Business

Incorrect information appearing on the ABWMC website was again raised. Trevor offered to review the information and list a few anomalies that will need to be corrected.

10. Meeting Close

Barry thanked all for attending the meeting which closed at 8:52pm.

All who were present were invited to stay for a light supper.

Financial Accounts 2024-25

ANGAS BREMER WATER MANAGEMENT COMMITTEE INC.

FINANCIAL STATEMENTS

FOR THE YEAR ENDED JUNE 30, 2025

"STATEMENT OF PROFIT OR LOSS"

STATEMENT OF FINANCIAL POSITION

NOTES TO THE FINANCIAL STATEMENTS

STATEMENT BY THE MANAGEMENT COMMITTEE

REPORT BY THE MANAGEMENT COMMITTEE

SUMMARY OF PROJECT FINANCIAL PERFORMANCE

ANGAS BREMER WATER MANAGEMENT COMMITTEE INC.

STATEMENT OF PROFIT OR LOSS

FOR THE YEAR ENDED JUNE 30, 2025

	2025		2024	
INCOME	**$**	**$**	**$**	**$**
Grants				
Grants (State) Op-Non Rec	30,194.40		29,324.01	
Total Grants		30,194.40		29,324.01
Interest-Unrestricted		227.65		225.08
Total Income		**30,422.05**		**29,549.09**
EXPENSES				
Advertising & Promotion		234.82		232.91
Bank Fees		7.00		0.00
Client Support Services				
CSS Project Co-ord/Manag	27,870.96		26,993.66	
Total Client Support Services		27,870.96		26,993.66
Computer Expenses		376.25		546.49
Insurance		750.66		699.37
Meetings Expense		398.13		390.72
Postage, Freight & Courier		282.09		233.82
Telephone, Fax & Internet Exp		281.49		227.04
Total Expenses		**30,201.40**		**29,324.01**
Net Surplus / (Deficit)		**220.65**		**225.08**

ANGAS BREMER WATER MANAGEMENT COMMITTEE INC.

STATEMENT OF FINANCIAL POSITION

FOR THE YEAR ENDED JUNE 30, 2025

	2025	2024
CURRENT ASSETS	**$**	**$**
Cash at Bank (Unrestricted)	11,323.18	12,810.08
Accounts Receivable	3,321.38	3,225.64
Prepayments		421.86
TOTAL CURRENT ASSETS	14,644.56	16,457.58
TOTAL ASSETS	**14,644.56**	**16,457.58**
CURRENT LIABILITIES		
Accounts Payable	6,653.28	8,857.19
Accrued Expenses	76.36	30.00
GST Payable	301.94	293.24
Less GST Receivable	(606.69)	(805.87)
GST Clearing	(877.00)	(793.00)
TOTAL CURRENT LIABILITES	**5,547.89**	**7,581.56**
NET ASSETS	**9,096.67**	**8,876.02**
EQUITY		
Unexpended Funds as at July 1, 2024	8,876.02	8,650.94
Current Year Surplus (Deficit)	220.65	225.08
Unexpended Funds as at June 30, 2025	**9,096.67**	**8,876.02**

ANGAS BREMER WATER MANAGEMENT COMMITTEE INC.

NOTES TO THE FINANCIAL STATEMENTS

FOR THE YEAR ENDED JUNE 30, 2025

NOTE 1: STATEMENT OF SIGNIFICANT ACCOUNTING POLICIES

This financial report is a special purpose financial report prepared in order to satisfy the financial reporting requirements of the Associations Incorporation Act 1985 (SA). The Committee have determined that the Association is not a reporting entity.

This financial report has been prepared in accordance with the requirements of the Associations Incorporation Act 1985 (SA) and the following Australian Accounting Standards:

AASB 101 - Presentation of Financial Statements

AASB 107 - Statement of Cash Flows

AASB 108 - Accounting Policies, changes in accounting estimates and errors

AASB 1048 - Interpretation and application of Standards

AASB 1058 - Income of Not for profit entities

No other applicable Accounting Standards, Urgent Issues Group Consensus Views or other authoritative pronouncements of the Australian Accounting Standards Board have been applied.

The following material accounting policies, which are consistent with the previous period unless otherwise stated, have been adopted in the preparation of this financial report.

a) Accounting Method - Accrual Accounting

b) Currency - All values are presented in Australian Dollars

c) Measurement Basis - The financial report is based on historical costs. It does not take into account changing money values, or, except where specifically stated, current valuations of non-current assets

d) Goods & Services Tax - Revenue and expenses are recognised exclusive of the amount of GST

e) Plant & Equipment - Plant and equipment is recorded as an expense for the reporting period.

STATEMENT OF THE MANAGEMENT COMMITTEE OF

ANGAS BREMER WATER MANAGEMENT COMMITTEE

In accordance with Section 35(2)(c) of the Associations Incorporations Act 1985, it is the opinion of the Members of the Committee that,

(a) The accompanying Statement of Financial Performance is drawn up so as to give a true and fair view of the operations of the Association for the year ended 30/6/25;

The accompanying Statement of Financial Position is drawn up so as to give a true and fair view of the state of affairs of the Association as at 30/6/25;

(c) At the date of this Statement there are reasonable grounds to believe that the Association will be able to pay its debts as and when they fall due.

Signed in accordance with a resolution of the Committee

Signed: ..... Signed: .....

Barry Potts, Chairperson Justin Cleggett, Treasurer

Date: 21/7/25 Date: 21/7/25

REPORT OF THE MANAGEMENT COMMITTEE OF

ANGAS BREMER WATER MANAGEMENT COMMITTEE

In accordance with section 35 (5) of the Associations Incorporations Act, 1985 the Committee hereby states that during the financial year ended June 30, 2025:

(a) (1) no officer of the association;

(2) no firm of which an officer is a member; and

(3) no body corporate in which an officer has a substantial interest,

has received or become entitled to receive a benefit as a result of a contract between the officer, firm or body corporate and the association.

(b) no officer of the association has received directly or indirectly from the association any payment or other benefit of a pecuniary nature.

Signed in accordance with a resolution of the Committee.

Signed: ..... Signed: .....

Barry Potts, Chairperson Justin Cleggett, Treasurer

Date: 21/7/25 Date: 21/7/25

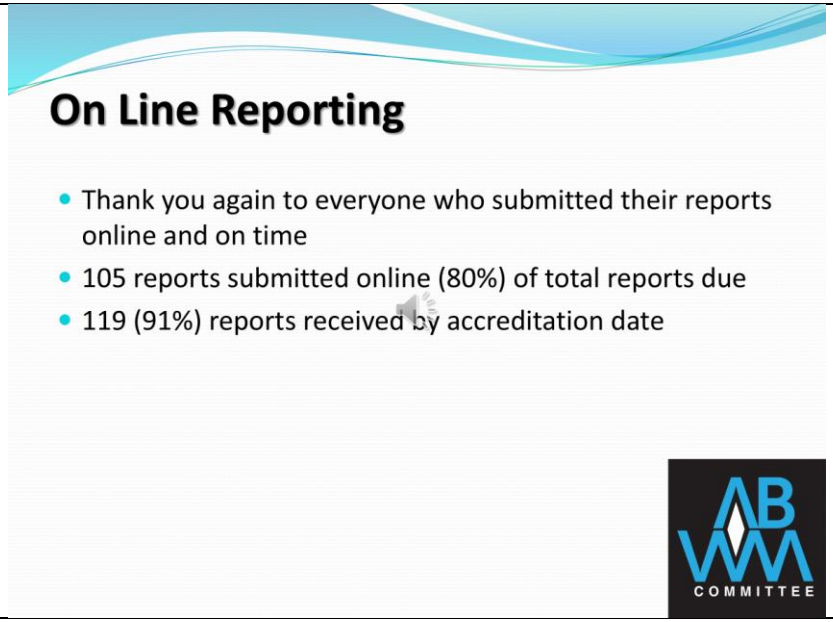
ANGAS BREMER WATER MANAGEMENT COMMITTEE INC.

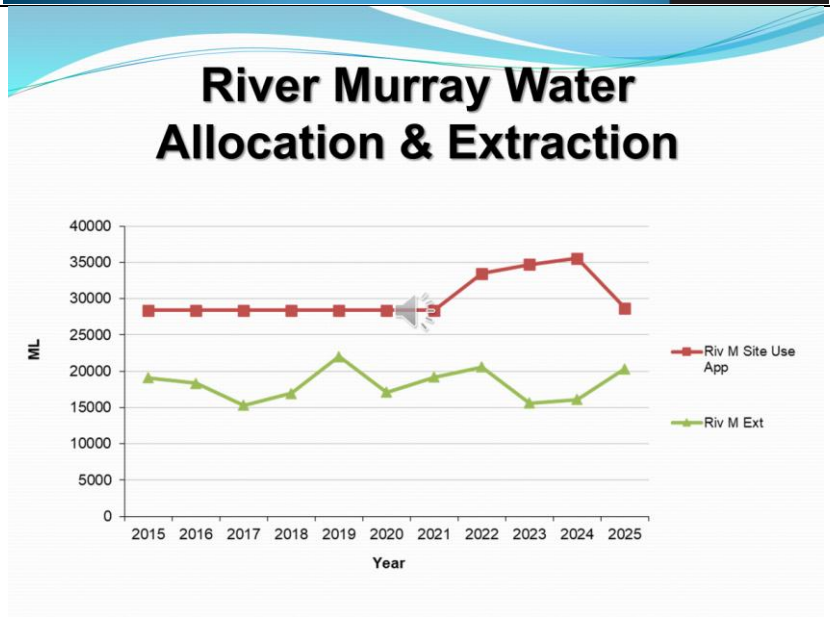
PROJECT INCOME, EXPENDITURE AND BALANCES

FOR THE YEAR ENDED JUNE 30, 2025

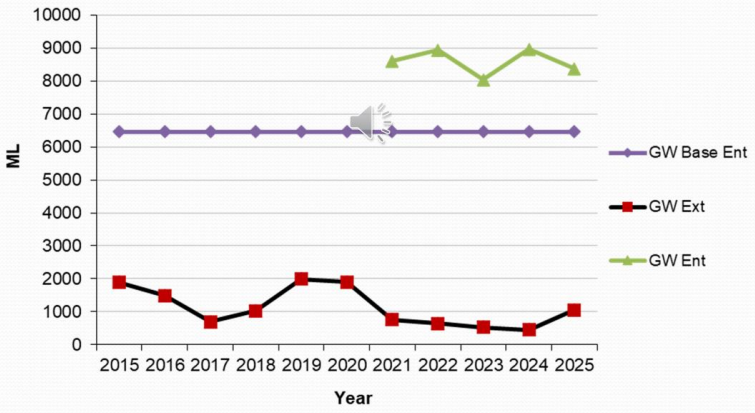
Project Name	Balance at June 30, 2024	Total Income	Total Expenses	Balance at June 30, 2025
ABIRA funds	7,570.30	0.00	0.00	7,570.30
Angas Bremer Water Management Committee Funds	1,305.72	227.65	7.00	1,526.37
Irrigation Annual Reporting Project - 2024-25 funding	0.00	30,194.40	30,194.40	0.00
Totals	**8,876.02**	**30,422.05**	**30,201.40**	**9,096.67**

Appendix A – **Angas Bremer Irrigation Management Zone 2024-2025 Interim Annual Report,** Leah Hunter.

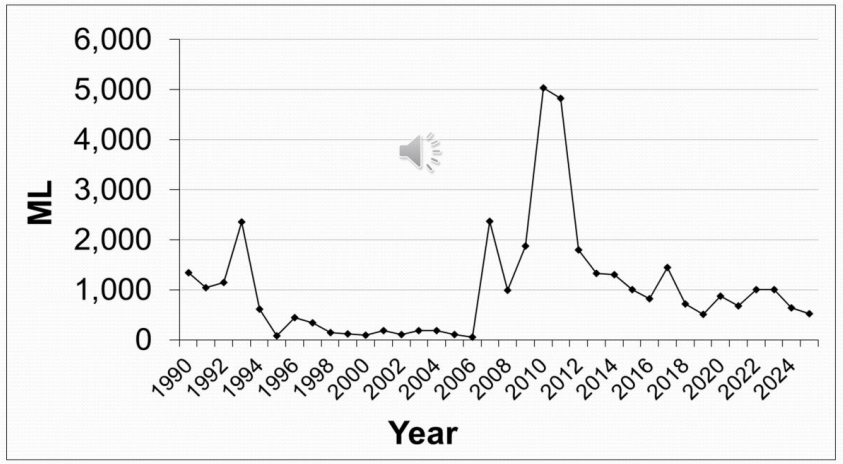




Groundwater Allocation & Extraction

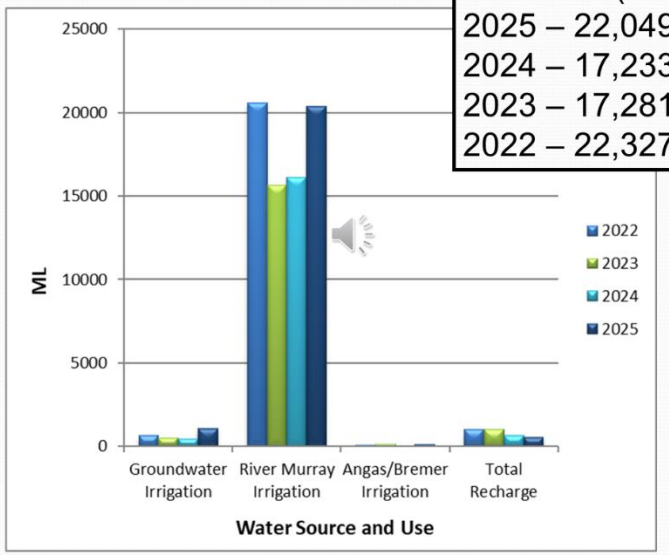


Volume Recharged to Aquifer 1989-2024

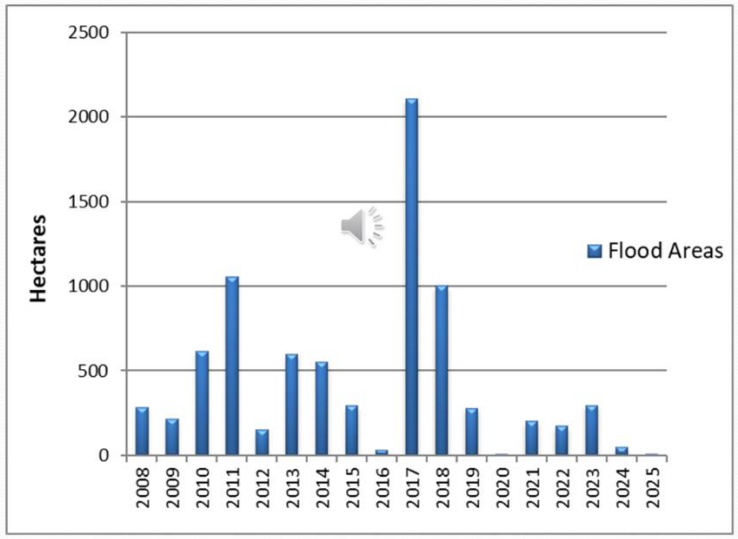


Total Water Use

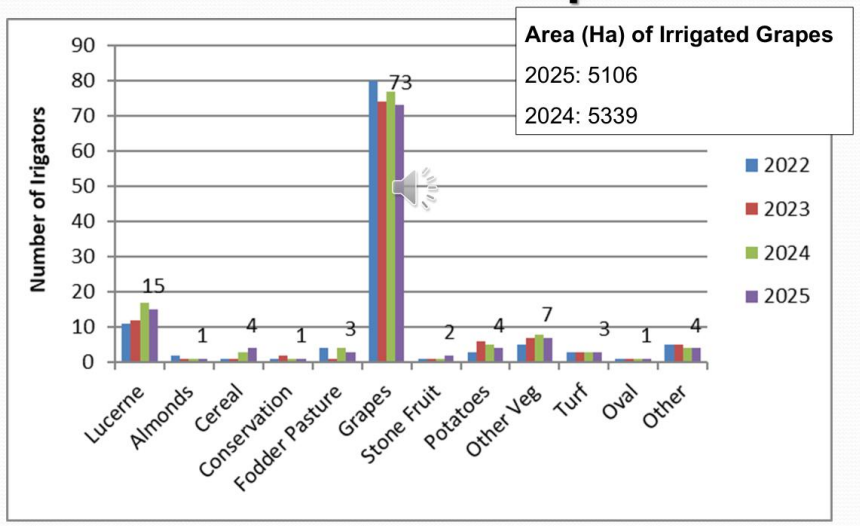
Total use: (ML)
2025 – 22,049
2024 – 17,233
2023 – 17,281
2022 – 22,327



Area Flooded



Number of Irrigators for Different Crops



Full Annual Report

- All final graphs and further explanation in Annual Report due December.
- Email will be sent out with a link to the report on the Angas Bremer Water Management Committee Website angasbremerwater.org.au

If there are any questions regarding the charts presented in this report, please feel free to email me at:

angasbremerWMC@gmail.com or

Call me on 0488 026 789

- Thank you to all the Angas Bremer Water Management Committee members.
- Thank you to both the Hills and Fleurieu and the Murraylands and Riverland Landscape Boards for continuing to fund the Annual Irrigation reporting process and for providing technical information to the committee.

Appendix B — **Review of the Eastern Mount Lofty Ranges Water Allocation Plan - Paul Wainwright**, Team Leader, Water Resources, Landscapes Hills and Fleurieu

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Amendment of the EMLR and WMLR Water Allocation Plans

September 24, 2025 – ABWMC APM

LANDSCAPE SOUTH AUSTRALIA HILLS AND FLEURIEU

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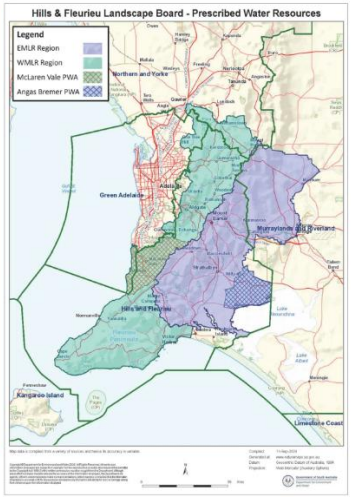
Overview

WAPs for two Prescribed Water Resource Areas are being amended

- Eastern Mount Lofty Ranges (EMLR) - purple
- Western Mount Lofty Ranges (WMLR) – Green

Water Allocation Plan (WAP)

- A legal document that sets out the rules for managing the take and use of prescribed water resources
- Equitable water use for the community, industry and the environment
- Covers use of both surface water & groundwater
- Notional 10 Year life
- MLR WAP Amendments due for completion 2028-29



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MLR WAP Reviews

- EMLR and WMLR WAPs were comprehensively reviewed in 2023
- The Reviews found that both WAPs require significant amendments
- As climate variability increases, WAPs almost certainly need to be adaptive in their implementation

What we've learnt

- Water-dependent ecosystems are declining in many parts of the region due to altered flow patterns caused by water storages and water diversions.
- Water resources are overallocated in many areas.
- Groundwater resources are currently stable in most areas.
- First Nations involvement in planning process is crucial for progress.
- More information and new approaches need to be explored to manage forestry and stock and domestic water use in future.
- Climate change is influencing the timing and quantity of rainfall. This requires updated data and analysis methods.

Key issues raised

Stock and domestic
Water efficiency
Forestry
Climate Change
Water security
Fire water
Concern about allocation cuts
Transparency and accessibilty
Ecosystem health
Changing land-use
Water quality
Trading and transfer rules
Low flows
Buy-backs
First Nations water interests

LANDSCAPE SOUTH AUSTRALIA HILLS AND FLEURIEU

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MLR WAP Amendments

Key Challenges and Opportunities

MLR surface water storage problem (dams)	Targeted policy improvements across WAPs i.e. roll over allocations, turkey nest dams
Addressing over allocation of water	Incorporating First Nations water interests
Management of high demand areas	Introducing Adaptive Management and Triggers
Stock and domestic controls	Updating Commercial Forestry Rules
WAP monitoring and evaluation	Improving EWR and EWP policies - Simplification of assessment - Estuaries - Fleurieu Peninsula Swamps
Enhancing Water Trade and Transfer rules	

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Community Engagement

Challenges

- How to involve many voices
- Physical differences between catchments
- Changes in land and water uses
- Needs of specific stakeholder groups
- Reducing availability of resources
- Costs of primary production
- Enabling change

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Community Engagement

- Key principles for community participation
  - Building trust
  - Share the reality early
  - Hearing many voices (not just the loudest)
  - Ensure community participation (views, priorities, ideas) is integrated into the decision-making processes and that community have ownership of 'adopted approaches'
  - Open, honest and transparent relationship
  - Bringing community together considering wide spectrum of views
  - Managing need for 'trade-offs' with community
  - Building a case for change

LANDSCAPE SOUTH AUSTRALIA HILLS AND FLEURIEU

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DEW Water Science Project Plan overview

- DEW Water Science Project Plan
  - New knowledge and evidence is needed to support an update to the WAP policies and principles
  - 3 yr plan due for completion end of FY 27-28
  - Cost $3.3M over 3 years
- Implementation Plan for FY 25-26 of this 3-year project has been developed and is being implemented

LANDSCAPE SOUTH AUSTRALIA HILLS AND FLEURIEU

Key deliverables 2025-26

- Surface Water
  - Farm dam characterisation
  - Define Surface Water Capacity
  - Model calibration for the Angas, Bremer, Currency Ck, Finniss and Tookyerta catchments
- Groundwater
  - Area assessment sequencing (method for assessing resource capacity)
  - Groundwater use data compilation
  - Resource condition indicators, limits and triggers
- Hydroecology
  - Identify environmental water dependent values
  - Identify environmental outcomes and objectives
  - Establish environmental water requirements (EWRs)
  - Assess ability of the resource to meet EWRs

LANDSCAPE SOUTH AUSTRALIA HILLS AND FLEURIEU

Interim Amendment of the EMLR and Water Allocation Plan to enable biodiverse carbon plantings

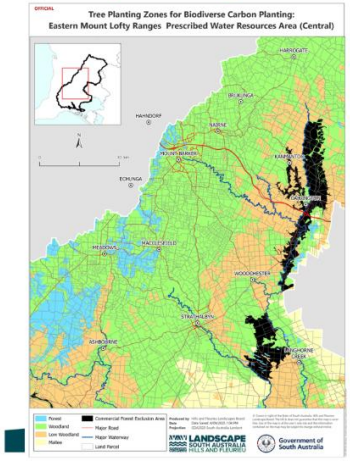
LANDSCAPE SOUTH AUSTRALIA HILLS AND FLEURIEU

Change to EMLR WAP to enable biodiverse carbon plantings

- What is a biodiverse carbon planting?
  - Consists of locally native trees
  - Planted at densities to reflect the natural vegetation structure prior to European settlement and land clearance
  - Also established for the purpose of claiming carbon or biodiversity credits, or for carbon in-setting.
- Revegetation or biodiverse plantings can currently occur across the MLR without requiring a permit from the Landscape Board
- If a planting project also intends to claim carbon or biodiversity credits it fall under the definition of commercial forestry
  - Plantings up to 250 trees/ha can occur under the WMLR WAP
  - Currently no policy to enable biodiverse carbon plantings in the EMLR WAP
- Purpose of proposed EMLR WAP policy
  - To enable biodiverse carbon planting in the EMLR PWRA
  - To ensure sustainable management of water resources in the EMLR
    - Principle specifies appropriate tree species & tree density for the planting location

LANDSCAPE SOUTH AUSTRALIA HILLS AND FLEURIEU

Tree planting zones, species lists and tree density limits



Tree planting zone	Maximum tree density (number of trees per 100x100m square)	Locally native tree species
Forest	200	Eucalyptus obliqua Eucalyptus baxteri Eucalyptus fasciculosa Callitris gracilis Acacia melanoxylon Eucalyptus longiflorens Exocarpos cupressiformis
Woodland	85	Eucalyptus leucoxylon ssp. leucoxylon Eucalyptus camaldulensis var. camaldulensis Eucalyptus fasciculosa Eucalyptus odorata Eucalyptus porosa Eucalyptus ovata var.ovata Eucalyptus viminalis ssp. Cygnetensis Allocasuarina verticillata Acacia melanoxylon Eucalyptus longiflorens Exocarpos cupressiformis Pittosporum angustifolium Santalum acuminatum Callitris gracilis
Low Woodland	340	Eucalyptus baxteri Eucalyptus fasciculosa Eucalyptus cosmophylla Myoporum platycarpum ssp. platycarpum Allocasuarina verticillata Callitris gracilis Acacia melanoxylon Exocarpos cupressiformis Pittosporum angustifolium Santalum acuminatum
Mallee	990	Eucalyptus calycogona var. trachybasis Eucalyptus calycogona var. calycogona Eucalyptus gracilis Eucalyptus oleosa Eucalyptus brachycalyx Eucalyptus morrisbyi Eucalyptus leptophylla Eucalyptus dumosa Eucalyptus socialis ssp. Socialis Eucalyptus phenax Eucalyptus erenicolea Eucalyptus yalatensis Pittosporum angustifolium
Commercial Forest Exclusion Area (shrubland, grassland and swiglland)	0	No commercial forests are permitted in this zone.

LANDSCAPE SOUTH AUSTRALIA HILLS AND FLEURIEU

Appendix C – **Statewide dam education and compliance program update – Brett Ibbotson,** Program Manager, Dam Education and Compliance, Landscape Hills and Fleurieu

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Dams Education and Compliance Program

ABWMC Public Meeting September 2025

Brett Ibbotson - Program Manager, Dam Education and Compliance

LANDSCAPE SOUTH AUSTRALIA HILLS AND FLEURIEU

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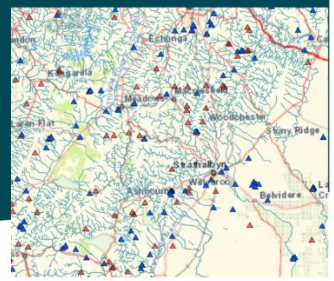
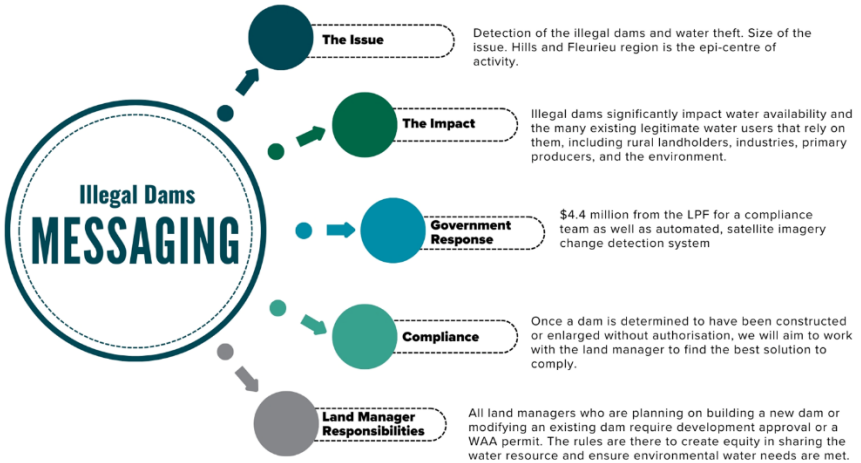
Dam Education and Compliance Program

- In 2023 an analysis of high-resolution aerial imagery revealed several hundred potentially unauthorised dams and dam enlargements had been constructed across the Mount Lofty Ranges and other parts of State.
- Moratorium since 2013 and additional dams increase water stress on an already stressed environment and farming systems
- Board requested, and State Government granted $4.4m from LPF over 4 years to address issue:
  - Communications and Education
  - Dam Compliance Action
  - Change Detection Tool





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Communications and Education

Earned Media Coverage		
23/06/2025	The Stock Journal	Discovery of several hundred illegal SA dams leads to warning from authorities
23/06/2025	ABC Country Hour	Illegal Dams
23/06/2025	ABC Radio - Other	Illegal Dams (snippets from Country Hour)
24/06/2025	PowerFM/5MU - Radio Mentior	Illegal Dams
25/06/2025	PowerFM/5MU (Online article)	Landscape Board Cracks Down On Illegal Dams - Power FM SA
23/06/2025	ABC Radio Evenings - Other	Illegal Dams (Michael on air)
26/06/2025	The Fleurieu Sun	Illegal Dam crackdown
26/06/2025	MSN	SA landscape boards crack down on illegal dams in Mount Lofty Ranges
2/07/2025	The Mount Barker Courier	Illegal dams revealed
4/06/2025	The Mount Barker Courier	Letter to the editor - more dams needed
12/06/2025	Smart Farmer	More dams not the answer

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Implementing Dam Compliance

Compliance team engaged

Triaging of identified new and enlarged dams (size, impact)

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Implementing Dam Compliance

CSO engagement

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Implementing Dam Compliance

Statewide working group

Representatives from:

- Hills Fleurieu
- Kangaroo Island
- Murraylands and Riverland
- Northern and Yorke
- SA Arid Lands
- Eyre Peninsula
- Green Adelaide
- (Limestone Coast)
- Investigations and compliance unit

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Examples of early results: Corrected enlargement

March 2024

December 2024

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Examples of early wins: Small dam removal

March 2024

February 2025

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Examples of early results: Medium size dam removal

February 2024

March 2025

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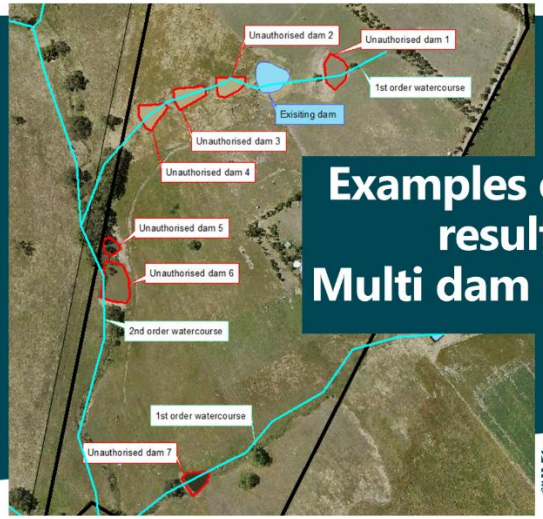

Examples of early results: Multi dam removal

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Change detection
Initial investigations to automate the process
SAAL Proof of Concept
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Thanks for listening. Questions?
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