

Water Resource Update and Seasonal Outlook

Scott Smith Storage Manager



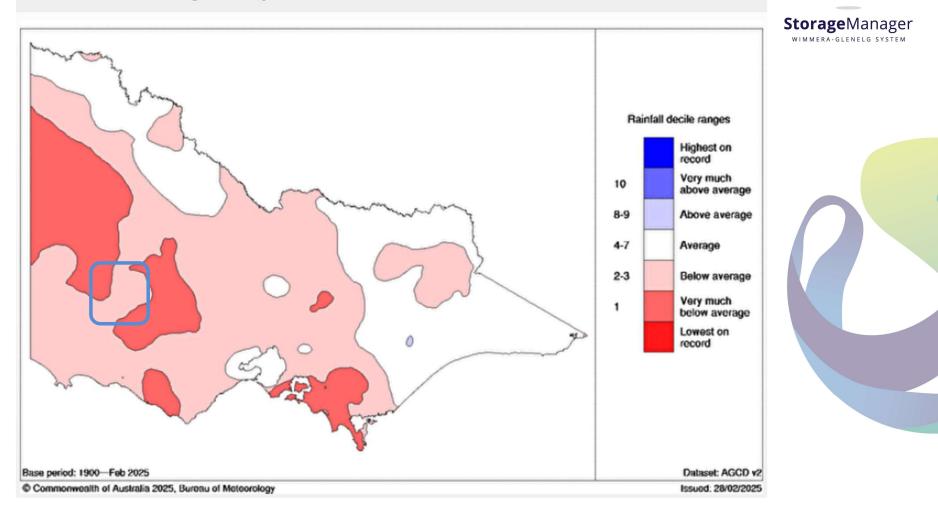


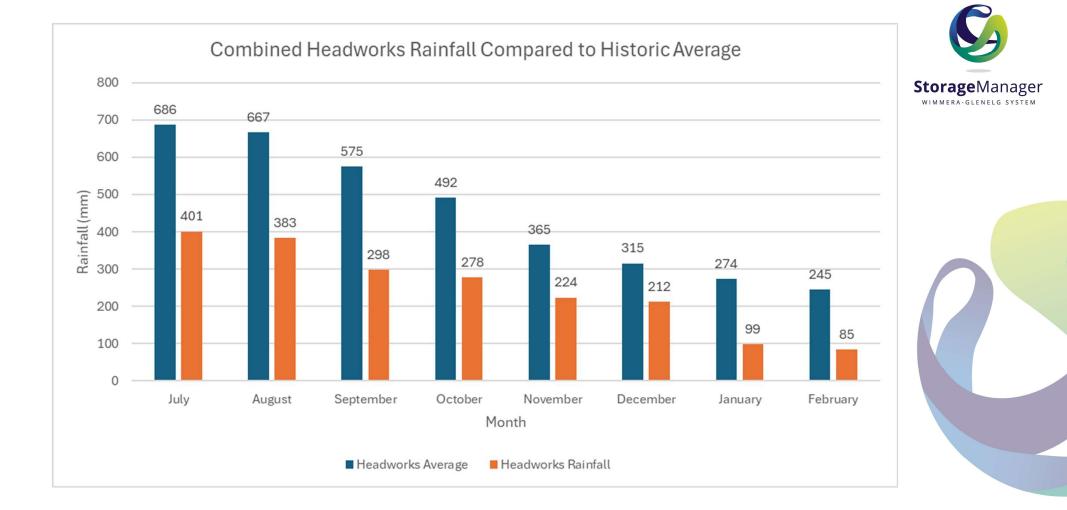
System Performance



2024/25 Rainfall

Eight-monthly rainfall deciles for Victoria 01/07/2024 – 28/02/2025



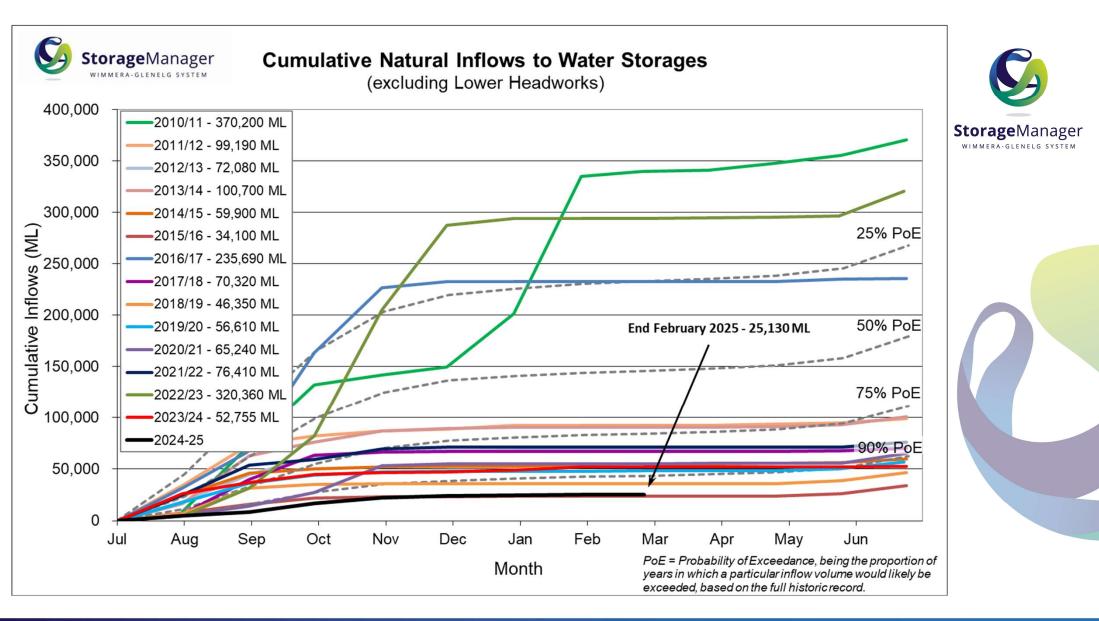


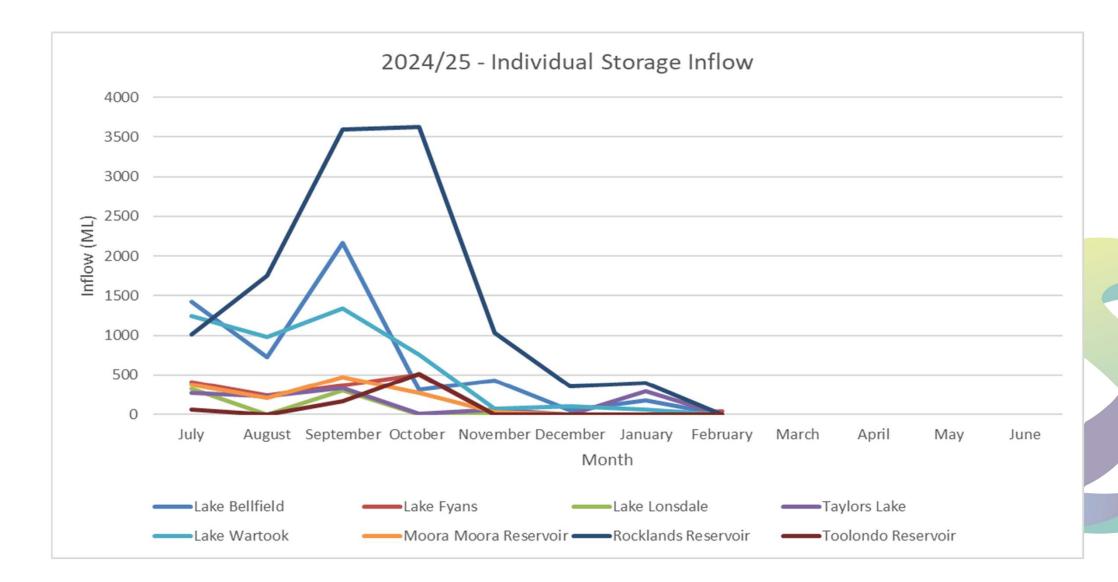
April 2, 2025

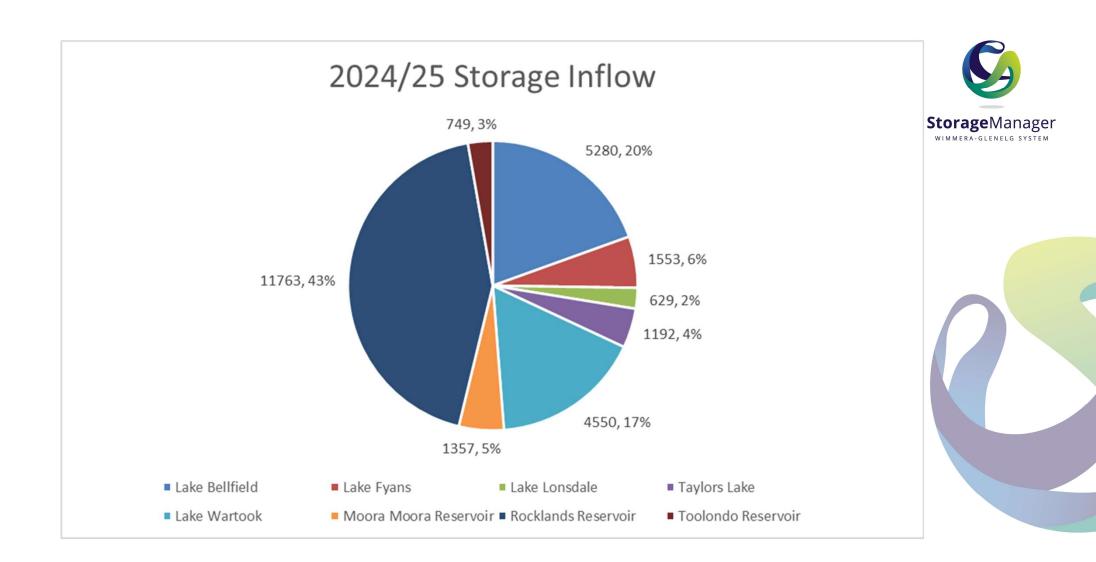


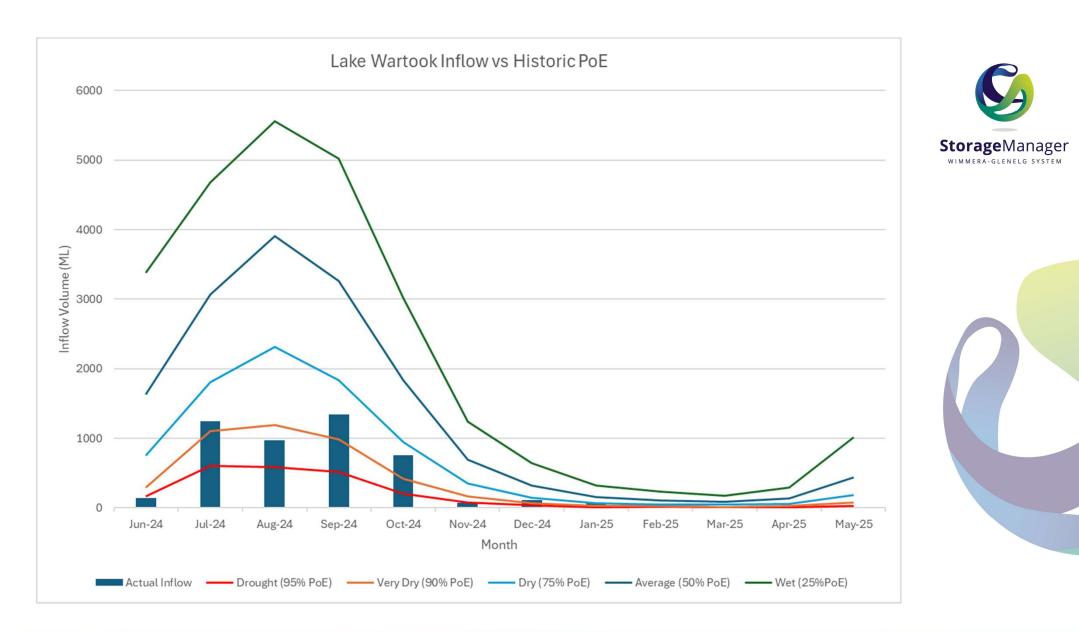
2024/25 Water Year Inflow

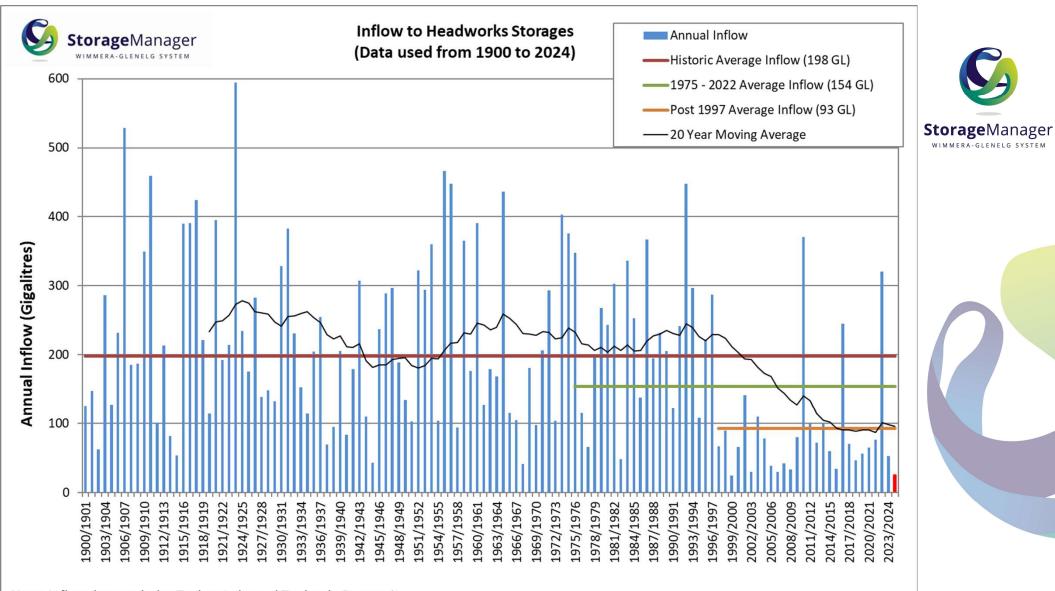
- 25,131 ML excl. Taylors Lake
 - 14.6% of historic average inflow
 - ~86% of inflow historically occurs between July February
 - Currently ranked second worst inflow year on record (2006/07 - 29,757 ML).
- Very similar trace to 2015/16 (34,059 ML)
 - 5th lowest inflow year on record (1900-2024).



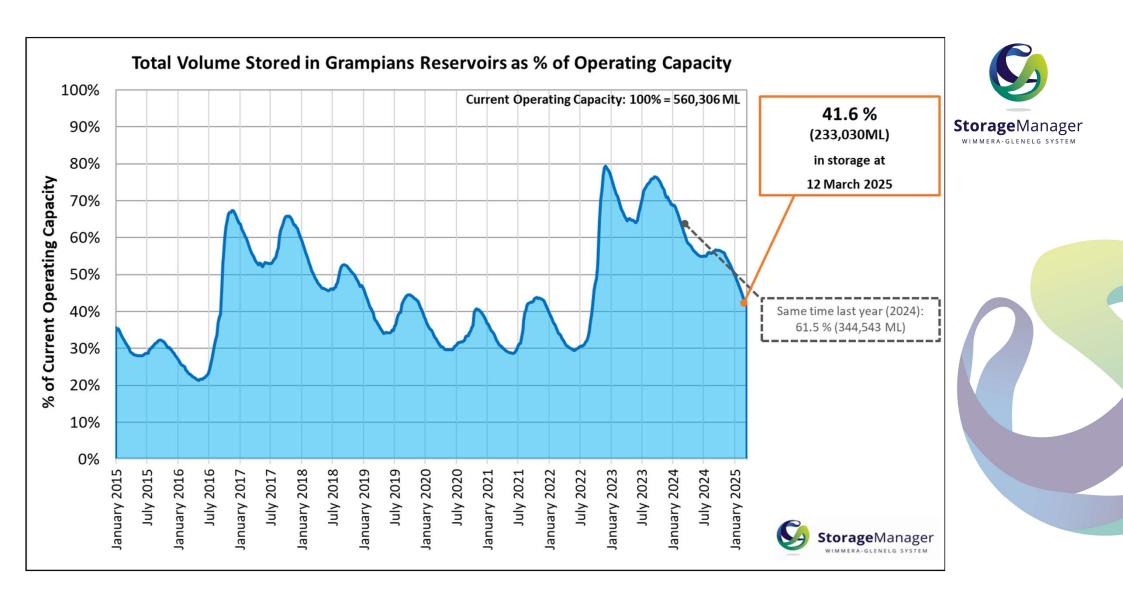


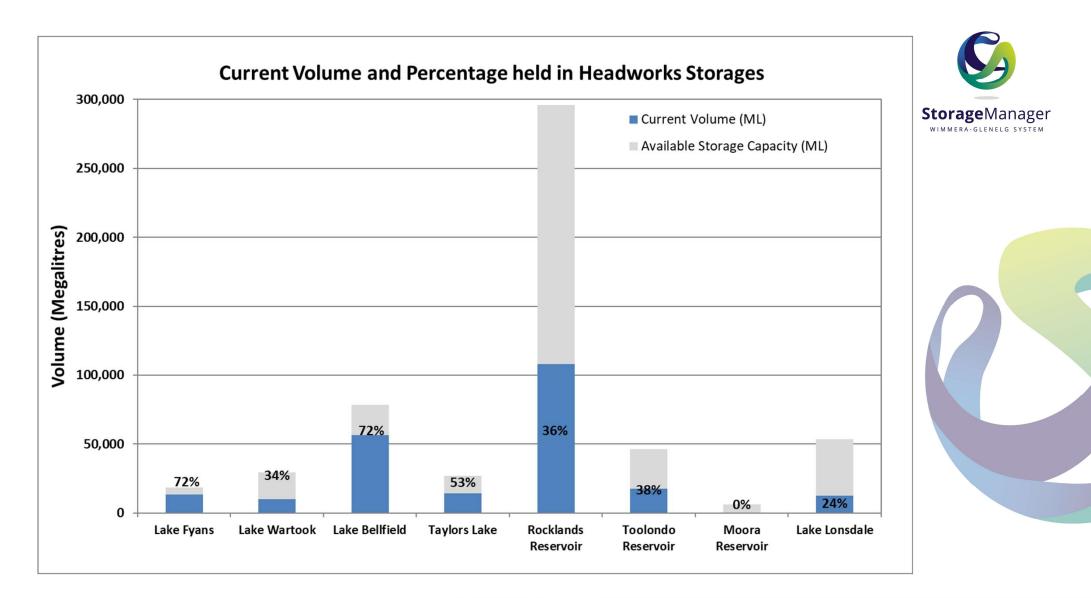






Note: Inflow data excludes Taylors Lake and Toolondo Reservoir.







Allocations and Resource Availability



Allocations – 7th March 2025



Seasonal Allocation for March 2025

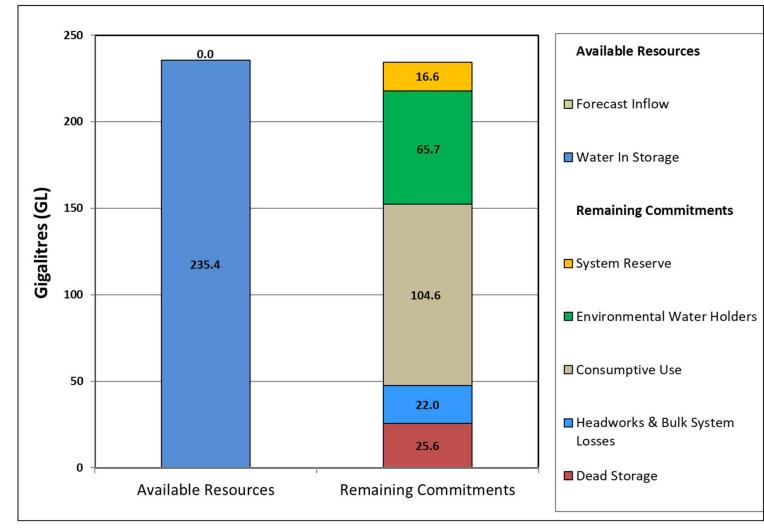
Glenelg Compensation Flow3,3000.0%4,409Recreation3,0900.0%3,589Wimmera Mallee Pipeline Product44,72018.0%93,459Coliban Water30018.0%420Wimmera Mallee Pipeline Product30018.0%420Wannon Water30018.0%7,840Victorian Environmental Water Holder40,56018.0%66,010		Entitlement (Megalitres)	Announced Allocation	Volume Available (Megalitres)
Glenelg Compensation Flow3,3000.0%4,409Recreation3,0900.0%3,589Wimmera Mallee Pipeline Product44,72018.0%93,459Coliban Water30018.0%420Wimmera Mallee Pipeline Product30018.0%420Wannon Water2,12018.0%7,840Victorian Environmental Water Holder40,56018.0%66,010	Grampians Wimmera Mallee Water			
Recreation3,0900.0%3,589Wimmera Mallee Pipeline Product44,72018.0%93,459Coliban Water30018.0%420Wimmera Mallee Pipeline Product30018.0%420Wannon Water2,12018.0%7,840Victorian Environmental Water Holder40,56018.0%66,010	Commonwealth Environmental Water Office	28,000	0.0%	16,118
Wimmera Mallee Pipeline Product44,72018.0%93,453Coliban WaterWimmera Mallee Pipeline Product30018.0%420Wannon Water2,12018.0%7,844Victorian Environmental Water Holder40,56018.0%66,010	Glenelg Compensation Flow	3,300	0.0%	4,409
Coliban Water Wimmera Mallee Pipeline Product 300 18.0% 420 Wannon Water Wimmera Mallee Pipeline Product 2,120 18.0% 7,844 Victorian Environmental Water Holder Wimmera Mallee Pipeline Product 40,560 18.0% 66,010	Recreation	3,090	0.0%	3,585
Wimmera Mallee Pipeline Product 300 18.0% 420 Wannon Water 2,120 18.0% 7,840 Wimmera Mallee Pipeline Product 2,120 18.0% 7,840 Victorian Environmental Water Holder 40,560 18.0% 66,010	Wimmera Mallee Pipeline Product	44,720	18.0%	93,455
Wannon Water Wimmera Mallee Pipeline Product 2,120 18.0% 7,844 Victorian Environmental Water Holder Wimmera Mallee Pipeline Product 40,560 18.0% 66,010	Coliban Water			
Wimmera Mallee Pipeline Product 2,120 18.0% 7,844 Victorian Environmental Water Holder Wimmera Mallee Pipeline Product 40,560 18.0% 66,010	Wimmera Mallee Pipeline Product	300	18.0%	420
Victorian Environmental Water Holder Wimmera Mallee Pipeline Product 40,560 18.0% 66,010	Wannon Water			
Wimmera Mallee Pipeline Product40,56018.0%66,010	Wimmera Mallee Pipeline Product	2,120	18.0%	7,844
	Victorian Environmental Water Holder			
Wetlands 1,000 0.0% 1,04	Wimmera Mallee Pipeline Product	40,560	18.0%	66,010
	Wetlands	1,000	0.0%	1,047

Notes to this Table

This table presents the announced allocations for Wimmera-Glenelg system entitlements for the month shown on the table. The volumetric allocation is equivalent to the Entitlement (Megalitres) multiplied by the Announced Allocation percentage.



Resources & Commitments (5th March 2025)







Resource Allocation History – 2010 to 2025



500,000 Allocated Volume (ML) Reserve (ML) 450,000 Carryover (ML) Total Storage Volume (ML) 400,000 350,000 Megalitres 300,000 520,000 200,000 150,000 100,000 50,000 0 Jan-14 May-14 Jul-14 Jul-14 Jan-15 Jan-15 Jan-15 Jan-16 Jan-18 May-18 Jan-18 Jan-12 Jan-12 Jan-20 Jul-20 Jan-20 Jul-20 Jan-20 Jul-20 Jan-20 Jul-20 Jan-20 Jul-20 Jan-22 Jul-22 Ju Nov-10 Jan-11 Mar-11 May-11 Jul-11 Sep-11 Jan-13 Aar-13 1ay-13 Jul-13 Sep-13 Jul-12 Vov-24 Jan-25 Mar-25



Climate Outlook

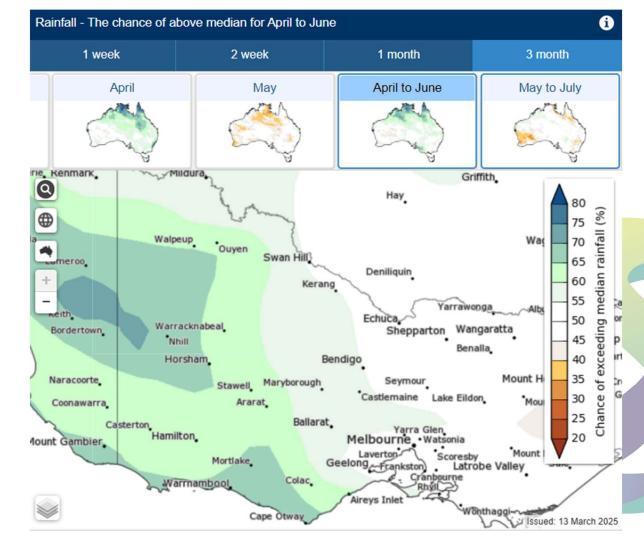




Rainfall Outlook

April to June 2025

60-70% chance of exceeding median rainfall across the Wimmera – Glenelg Headworks System

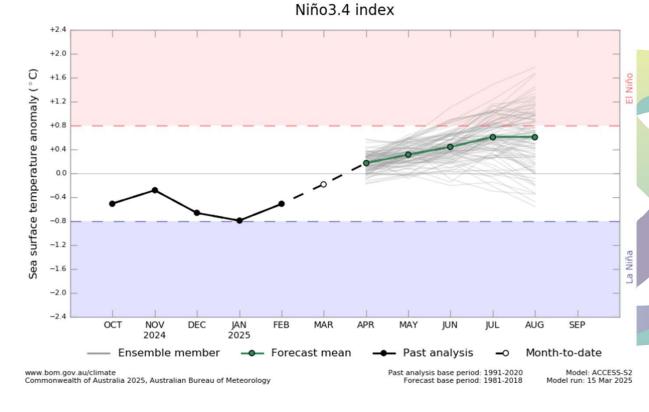


Courtesy of Bureau of Meteorology

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El Niño / La Niña (ENSO) Outlook

- Bureau of Meteorology indicates ENSO remains neutral and likely to remain so until at least July.
- La Niña events typically effect winterspring rainfall in eastern parts of Australia.







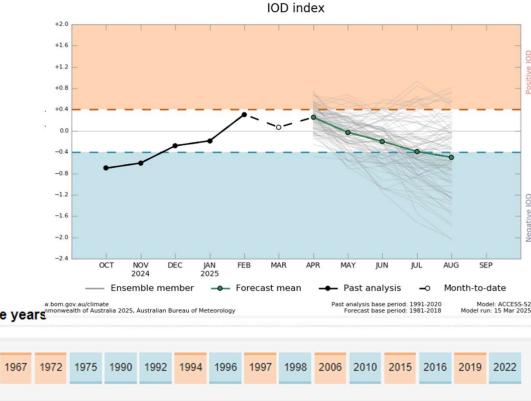
Indian Ocean Dipole (IOD) Outlook

- Indian Ocean
 Dipole (IOD) is
 currently neutral.
- The IOD typically has little association with Australian climate from December to April.

1960

1961

1963



Niño3.4 Niño3 Niño4 IOD

SAM

Latest SAM

Since 1960, when reliable records of the IOD began, to 2023, there have been 9 moderate to strong negative IOD events and 9 moderate to strong positive IOD events.

April 2, 2025



Storage Manager Operations



Storage Manager Operations

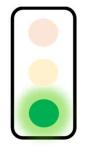


- Water availability is expected to be sufficient to satisfy all entitlement holder demand (some challenges may exist for Lake Wartook & smaller systems).
- Blue Green Algae (BGA) is becoming more common with storages reducing in volume (Lake Lonsdale, Taylors Lake, Green Lake – Horsham).
- Allocations are expected to remain low unless significant inflow is received to storages.
- Fire restricted access to Headworks storages and increased the risk of silt and sediment getting washed into key storages.
- Early planning for the 2025/26 water year is expected to commence soon.

Water Security Outlook for GWMWater

Scott Smith Manager Water Resources





All Systems

Status: General Monitoring

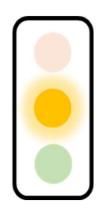
- Very high demand has been experienced at a number of towns throughout 2024/25.
- Sufficient volumes are currently available from Grampians Storages.
- 100 % allocation received on the Goulburn and Murray Systems.
- No groundwater resource issues expected (Edenhope remains under increased monitoring).
- High security of supply in both the Elmhurst and Buangor systems.



All Systems

Status: Heightened Awareness

Lake Wartook:



- Lake Wartook currently holds 9.97 GL or 34% of its maximum operating capacity.
- Current projections indicated that under 'drought' and 'very dry' climate scenarios Lake Wartook will reach 8.8 GL or 30% by 30 June 2025 (similar to 2019/20 volume).

East Grampians Urban System (Willaura & Lake Bolac):

- Very dry conditions restricted storage recovery throughout 2024/25.
- Unprecedented demand and supply interruptions caused by the fires and power outages placed additional stain on the system through the summer period.
- Extensive water carting and augmentation works have been untaken to secure supply.
- Connection to the East Grampian Pipeline is expected to greatly increase water security.



GWMWater Urban Rural Water Strategy 2022

The last Urban Rural Water Strategy was completed in 2022 and identified emerging issues which could impact GWMWater's water supply into the future.

Key Points:

- A 63% decline in the average inflow to Grampians reservoirs other the period since 1997.
- Future increases in demand could have the ability to impact water security over a 50 years period.
- Potential augmentation options were identified for further investigation.



Water Supply Security Augmentation

In response, GWMWater have undertaken a Water Supply Security Augmentation – Strategic Options Assessment, looking at potential augmentation works, delivering on the following objective:

• Provides new water into the system (either through identification of new resources, connecting to adjoining systems or through water savings from the existing system).

This assessment reviewed, but was not limited to, the following options:

- Interconnecting pipelines Murray and Goulburn Systems to Grampians System (Additional supply dependent on capacity of design ~8 – 11 GL/year)
- Piping Mt Zero Channel from Dad and Dave to Horsham WTP (Saving of ~0.5 0.6 GL/year)
- Piping Rocklands Channel to Toolondo Reservoir (Saving of ~1.17 GL/year)
- Piping Moora Channel from Moora Moora Reservoir to Distribution Heads (Saving of ~0.47 GL/year)
- Identify additional groundwater resources for East Grampians, West Grampians and Edenhope (Additional supply of ~0.1 GL to 1 GL/year).



Interconnecting Pipeline – Murray System

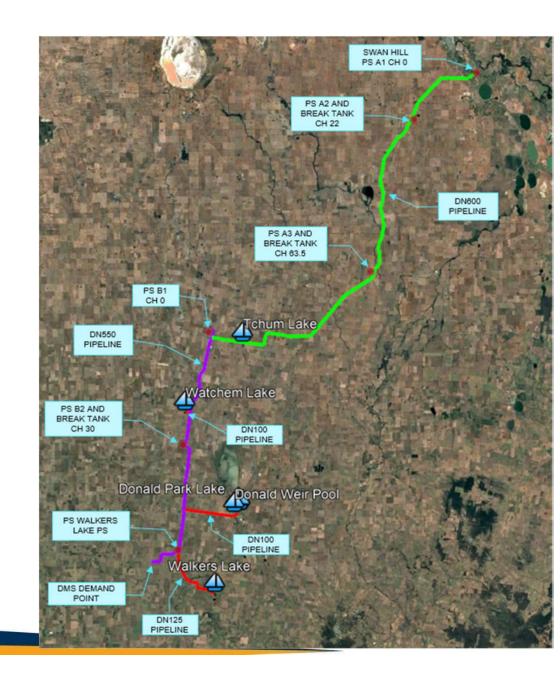
Designed flow ~ 22 – 31 ML/day

Supply volume ~ 8 - 11.5 GL/year

Advantages: Large supply volume, water considered fit-for-purpose, supply source relatively secure (HRWS)

Disadvantages: Capital investment, Implementation timeframe





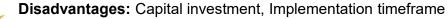
Interconnecting Pipeline – Goulburn System



Designed flow ~ 22 – 31 ML/day

Supply volume ~ 8 – 11.5 GL/year

Advantages: Large supply volume, water considered fit-for-purpose, supply source relatively secure (HRWS)







Water Supply Security Augmentation

Further review of option assessment, likely to focus on:

- Volume of water gained.
- Cost (Capital and Operational).
- Implementation timeframe.
- Strategic value of the water (does it service critical demand?)

Once well understood, options can feed into GWMWater's pricing submission.

