



StorageManager
WIMMERA-GLENELG SYSTEM

Water Resource Update and Seasonal Outlook

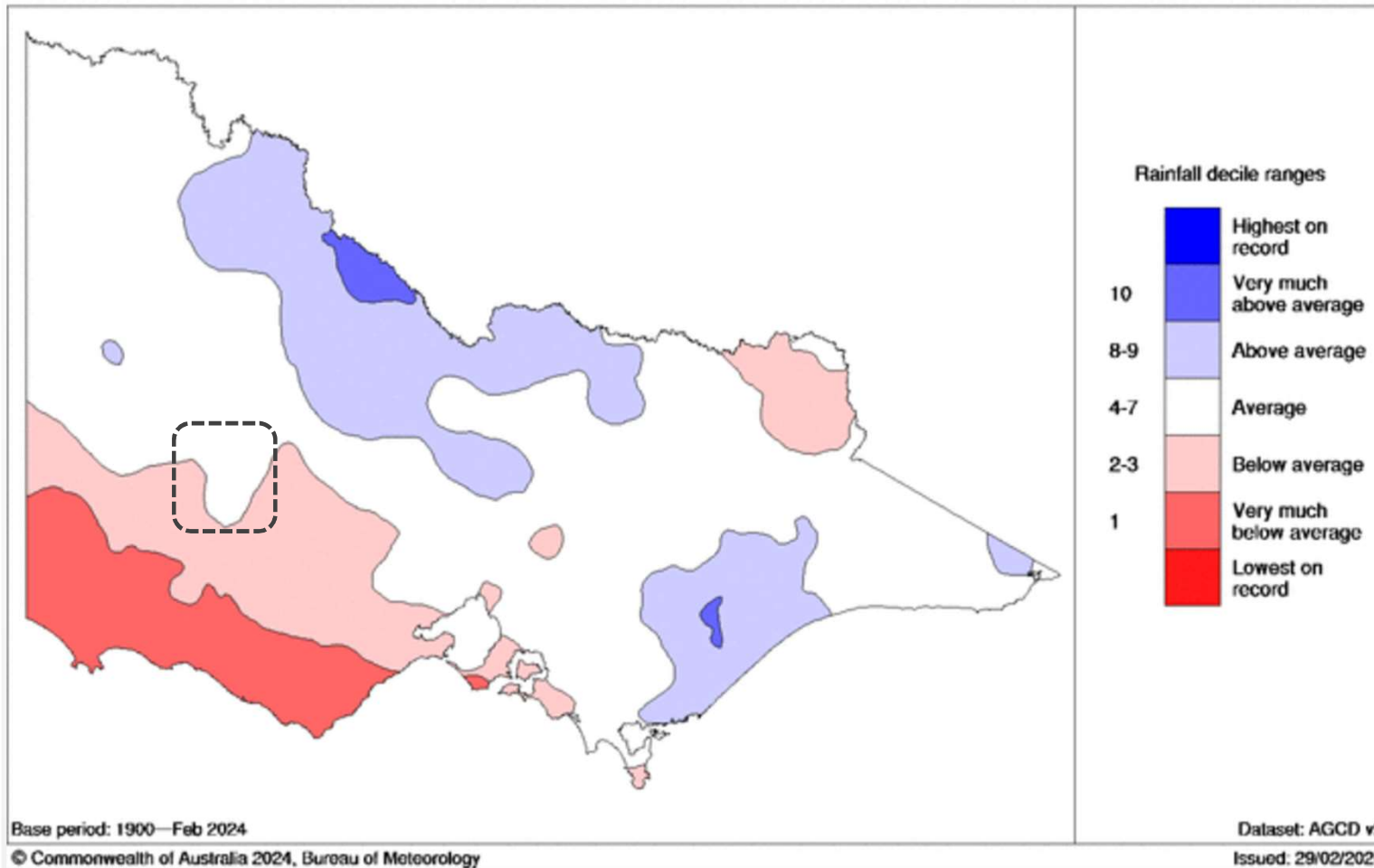
Scott Smith
Storage Manager



July to February Rainfall



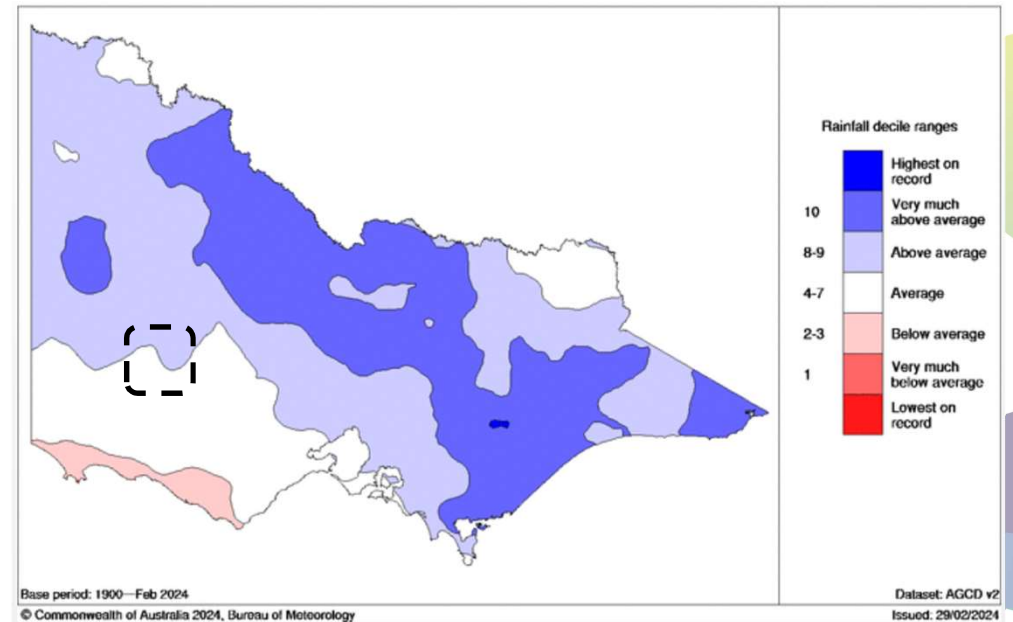
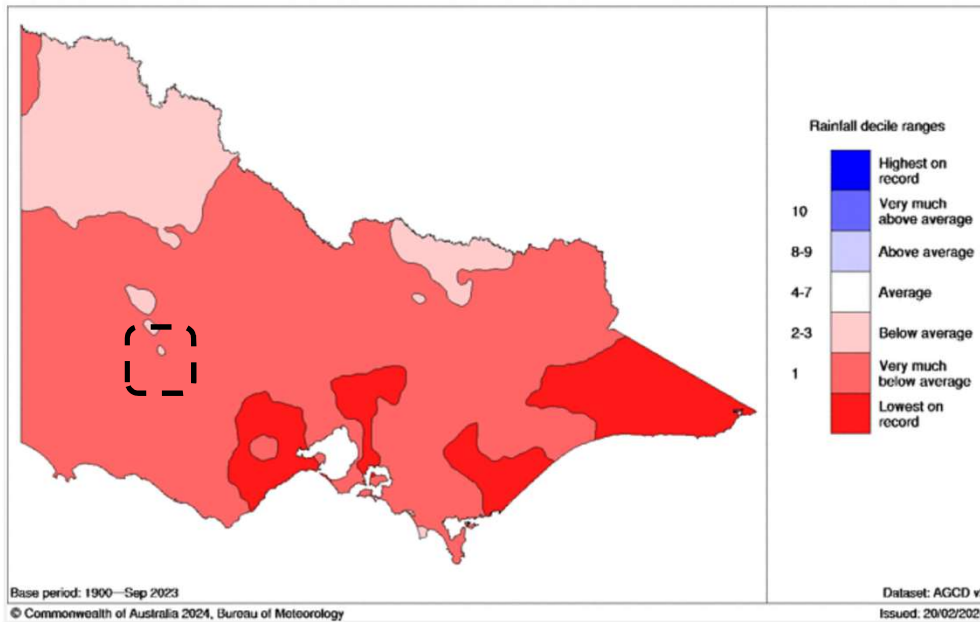
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July – September Rainfall

October – February Rainfall

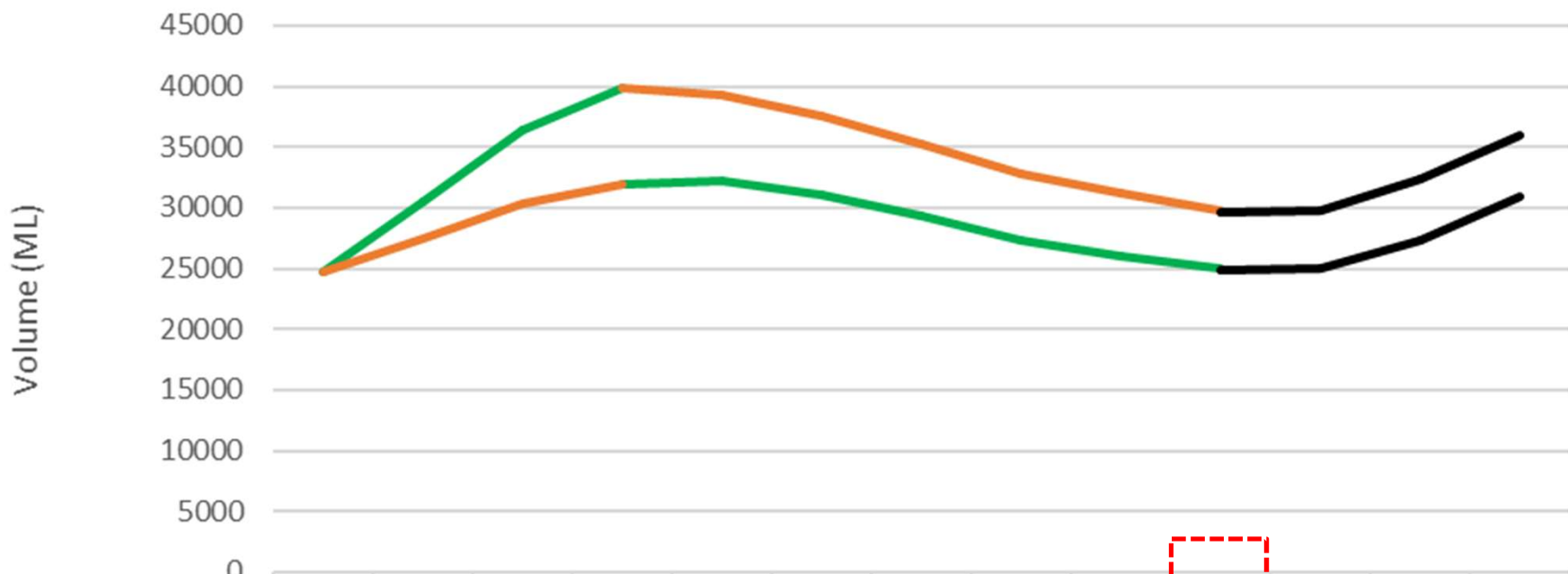


2023/24 Water Year Inflow

- 52,550 ML excl. Taylors Lake
 - ≈ 30% of historic average inflow
 - ≈ 297,800 ML 2022/23 YTD
- 26,000 ML inflow in July
- 5,000 ML inflow in December & January



Lake Wartook Inflow Comparison

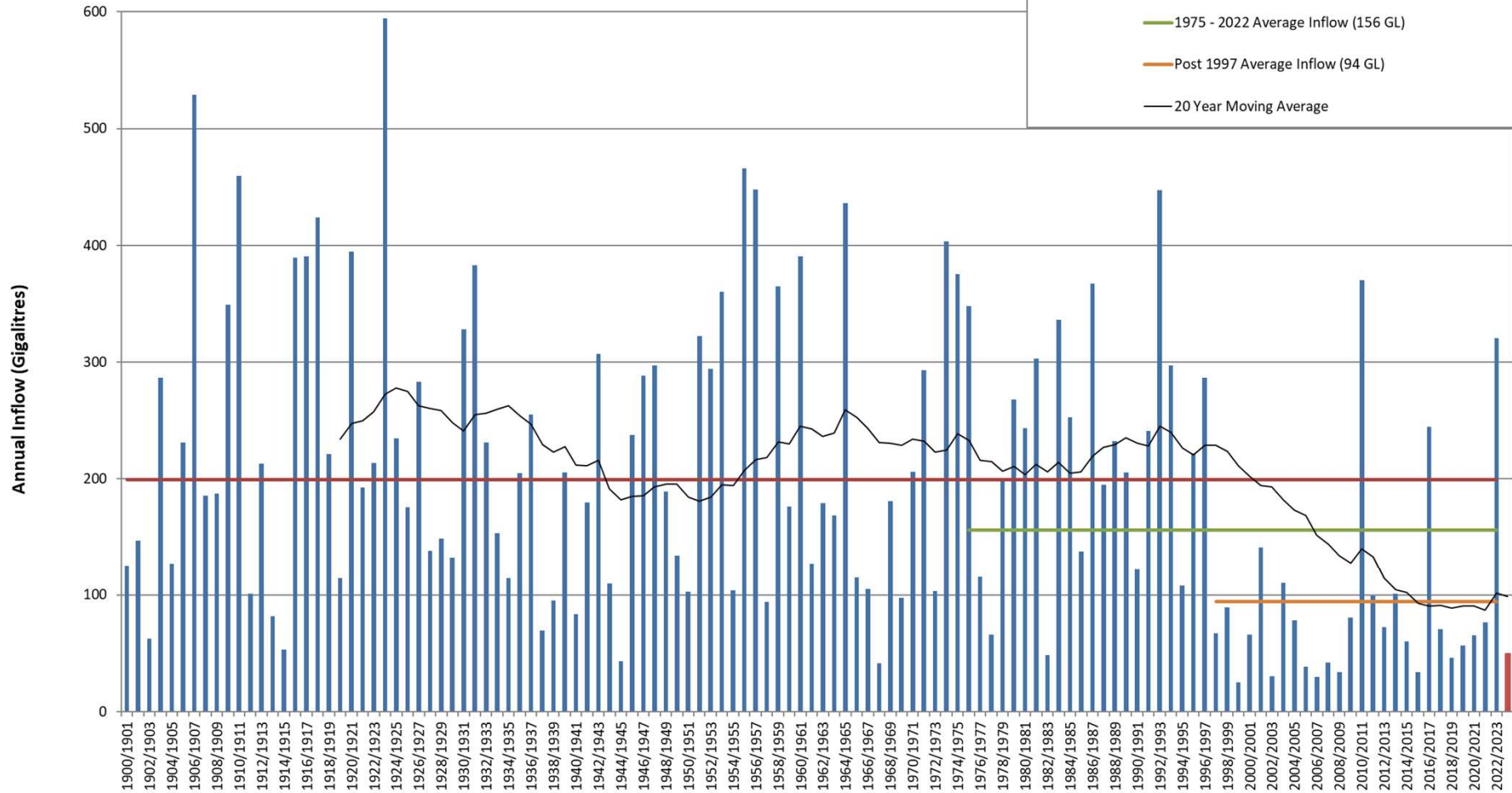


	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun
Wet Winter	24670	30420	36422	39797	39241	37522	35230	32764	31241	29714	29816	32310	35943
Dry Winter	24670	27436	30385	31922	32202	31022	29379	27328	26066	24958	24993	27320	30871

Wet Winter Dry Winter

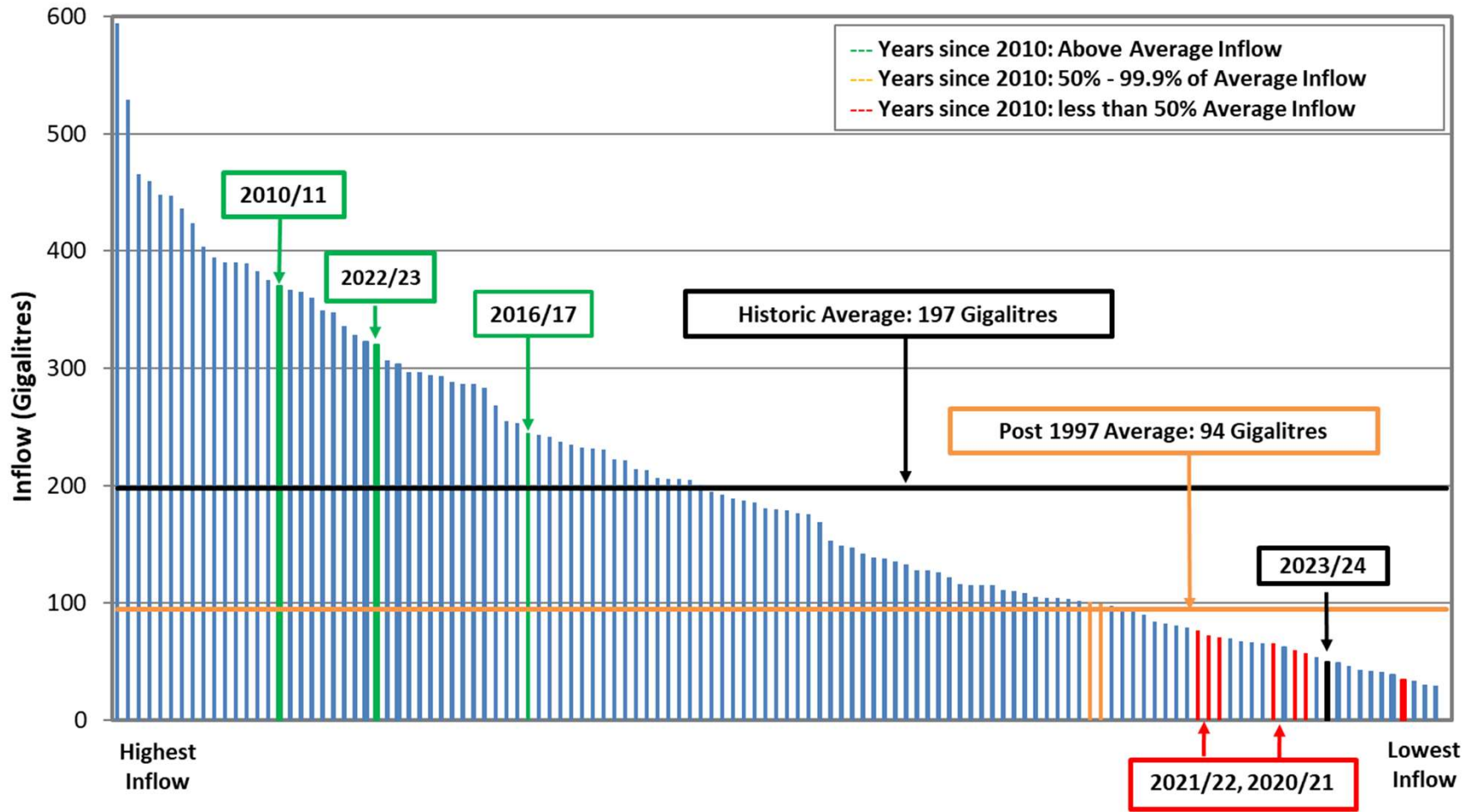
**Inflow to Headworks Storages
(Data used from 1900 to 2023)**

- Annual Inflow
- Historic Average Inflow (200 GL)
- 1975 - 2022 Average Inflow (156 GL)
- Post 1997 Average Inflow (94 GL)
- 20 Year Moving Average



Note: Inflow data excludes Taylors Lake and Toolondo Reservoir.

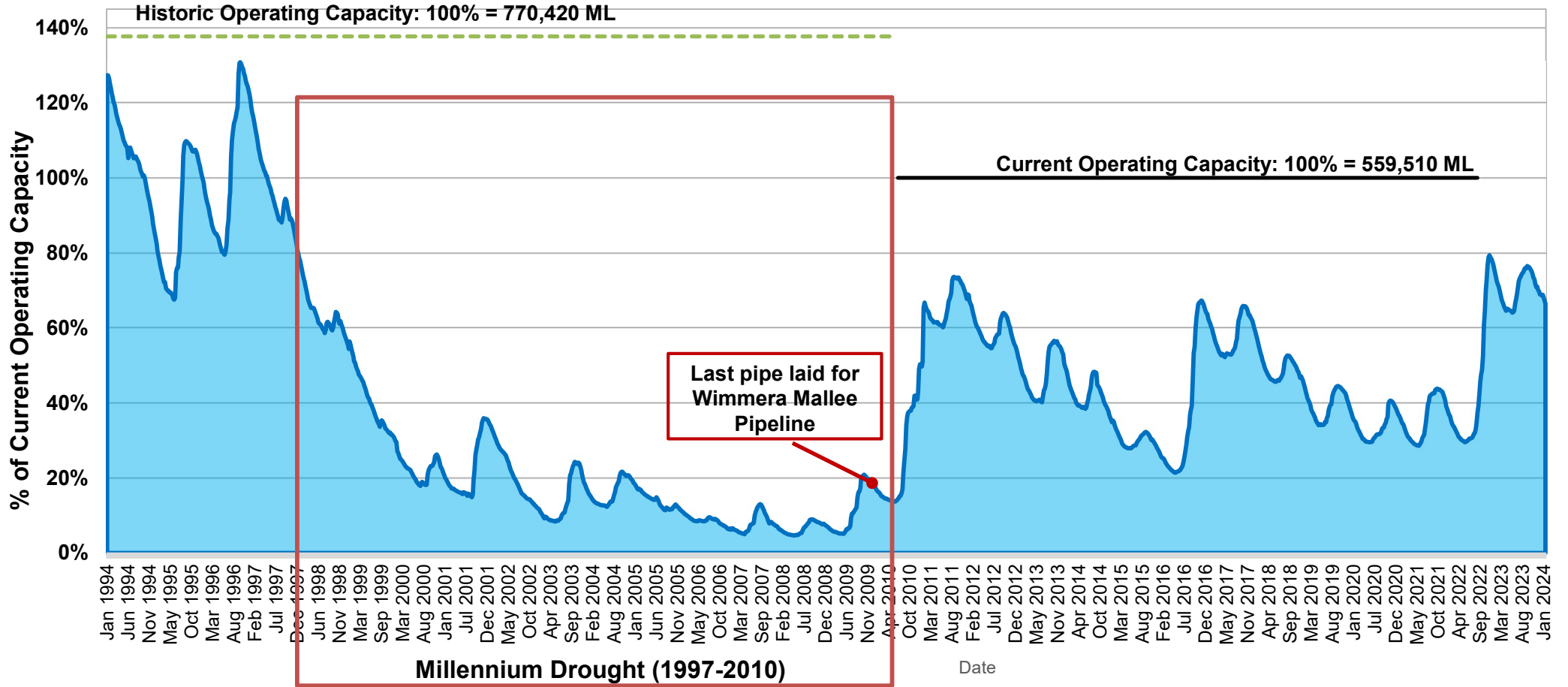
Ranked Inflow to Grampians Headworks Storages
(Data used from 1900 to 2023)



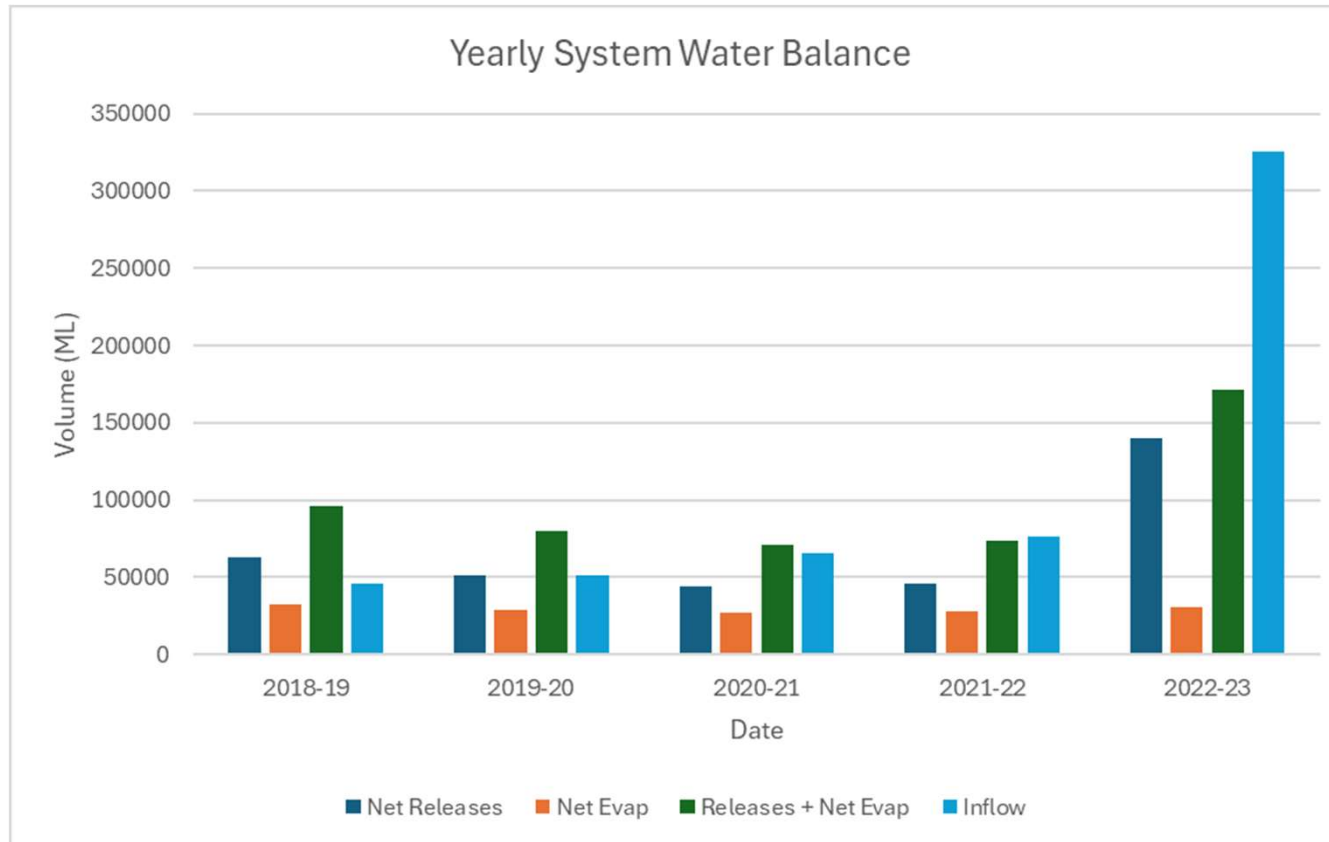
Note: Inflow data excludes Taylors Lake and Toolondo Reservoir.

1 Gigalitre = 1 billion litres

Total Volume Stored in Grampians Reservoirs as % of Operating Capacity



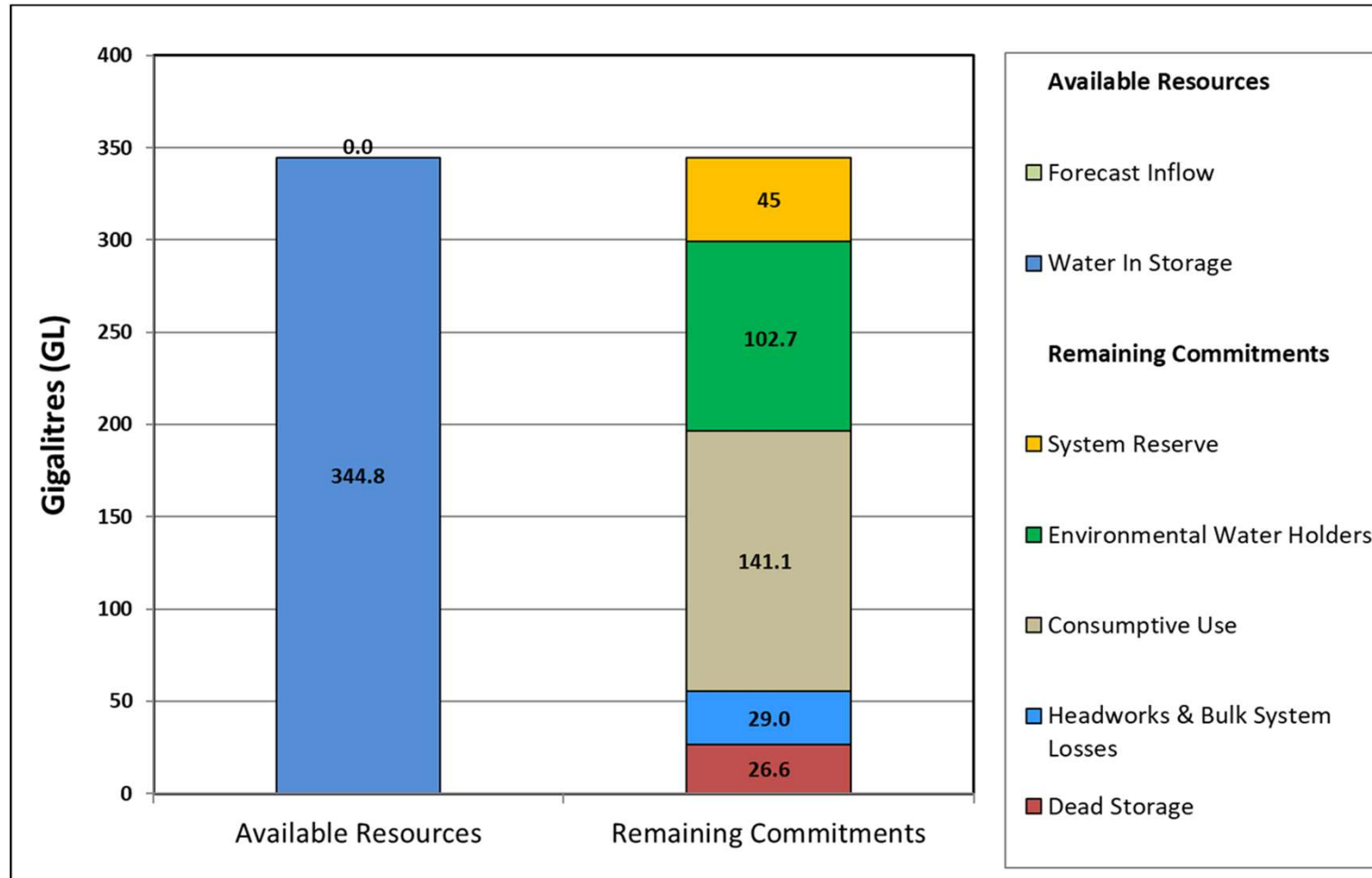
System Water Balance



Resources & Commitments (6th March 2024)



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Seasonal Allocation for March 2024

	Entitlement (Megalitres)	Announced Allocation	Volume Available (Megalitres)
Grampians Wimmera Mallee Water			
Commonwealth Environmental Water Office	28,000	0.0%	21,725
Glenelg Compensation Flow	3,300	49.0%	5,187
Recreation	3,090	46.0%	3,868
Wimmera Mallee Pipeline Product	44,720	87.0%	121,539
Coliban Water			
Wimmera Mallee Pipeline Product	300	87.0%	601
Wannon Water			
Wimmera Mallee Pipeline Product	2,120	87.0%	8,844
Victorian Environmental Water Holder			
Wimmera Mallee Pipeline Product	40,560	87.0%	83,001
Wetlands	1,000	49.0%	1,501

Notes to this Table

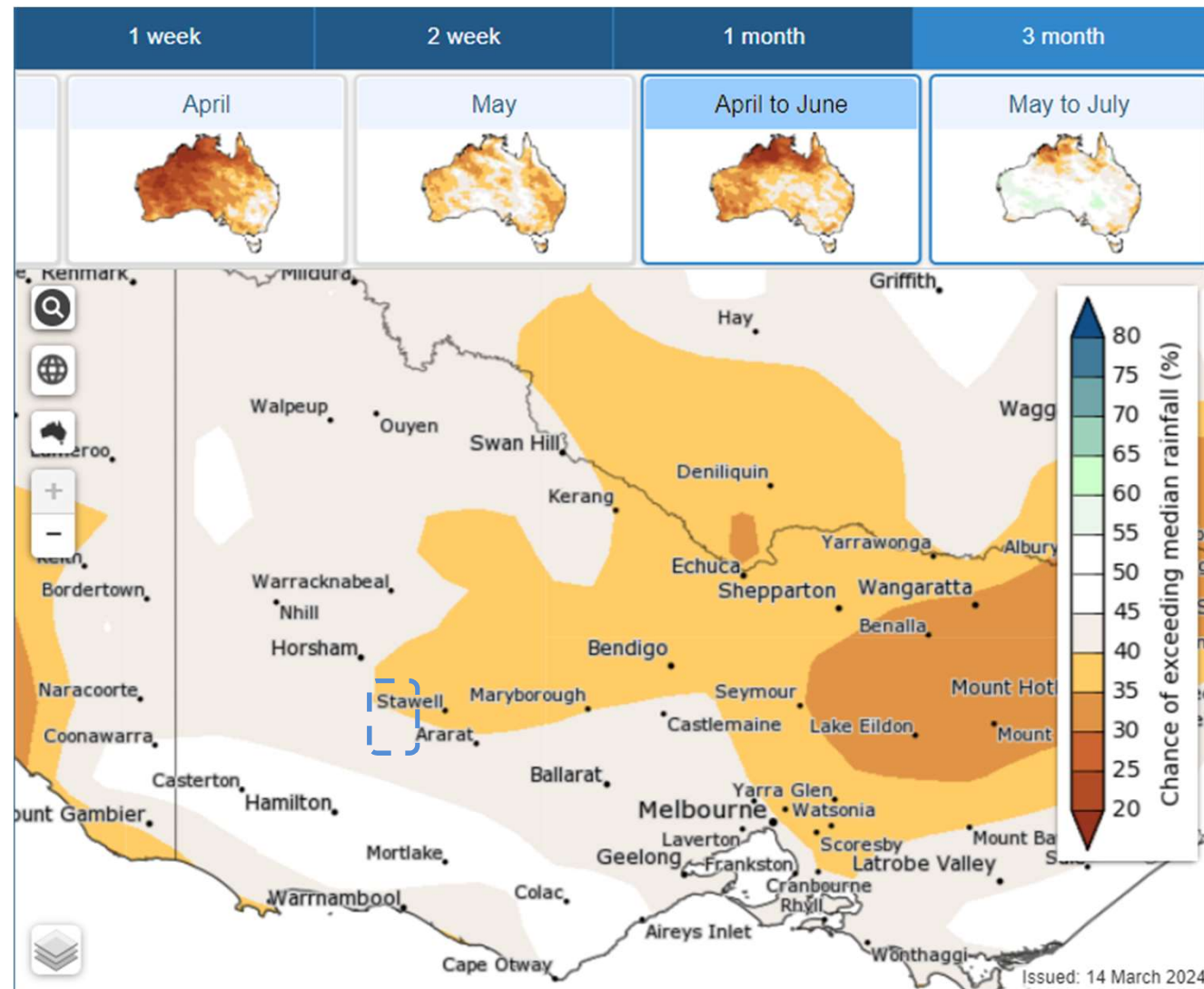
This table presents the announced allocations for Wimmera-Glenelg system entitlements for the month shown on the table. The volumetric allocation is equivalent to the Entitlement (Megalitres) multiplied by the Announced Allocation percentage.



Rainfall Outlook

April to June 2024

35-45% chance of exceeding median rainfall across the Wimmera – Glenelg Headworks System



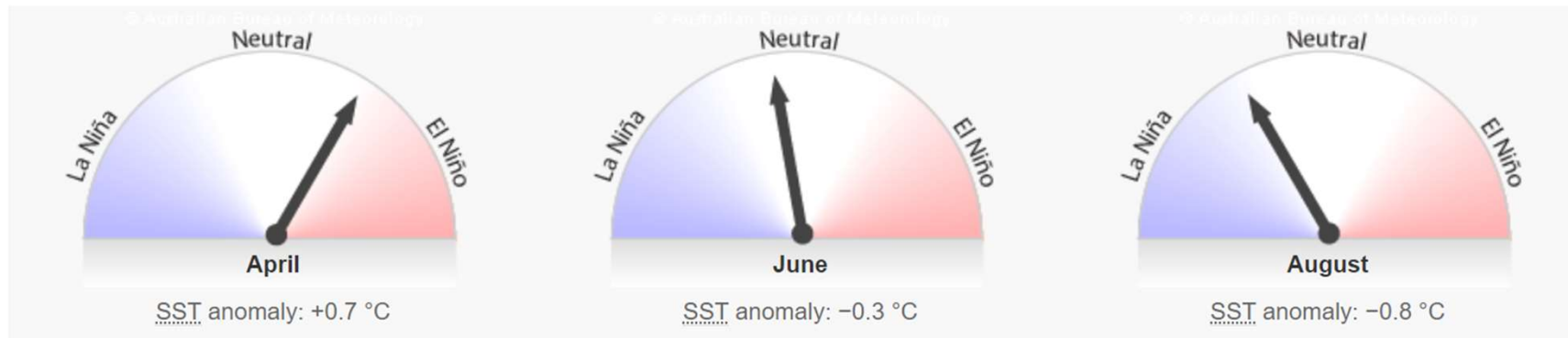
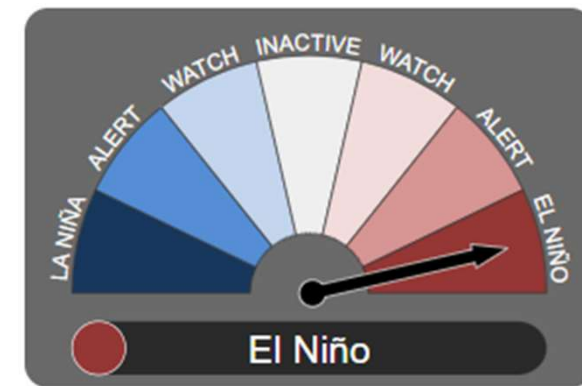
Courtesy of Bureau of Meteorology

El Niño / La Niña (ENSO) Outlook



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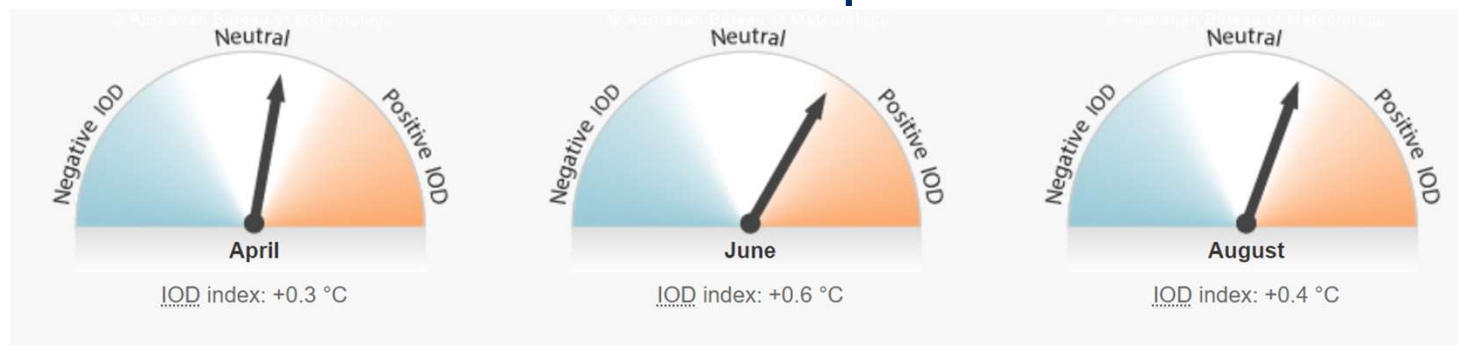
- Bureau of Meteorology suggest El Niño has peaked, indicating a return to neutral in Autumn 2024.
- El Niño events typically effect winter- spring rainfall in eastern parts of Australia.



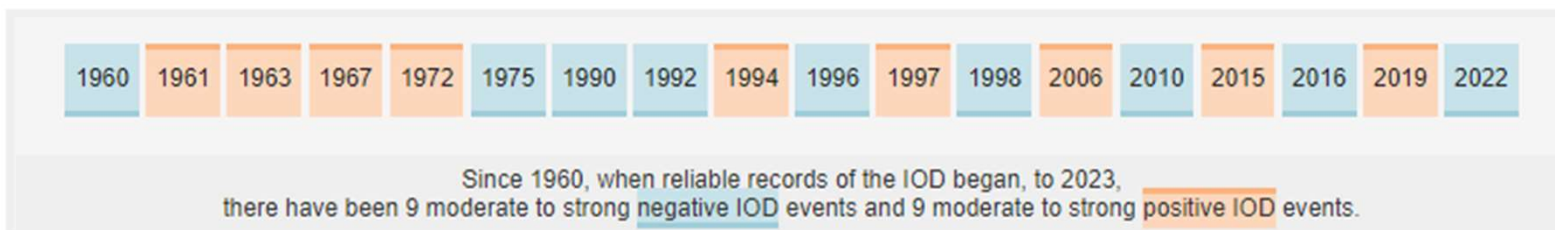


Indian Ocean Dipole (IOD) Outlook

- Indian Ocean Dipole (IOD) is currently neutral and unlikely to form between December to April.



Indian Ocean Dipole years



Climate Forecast

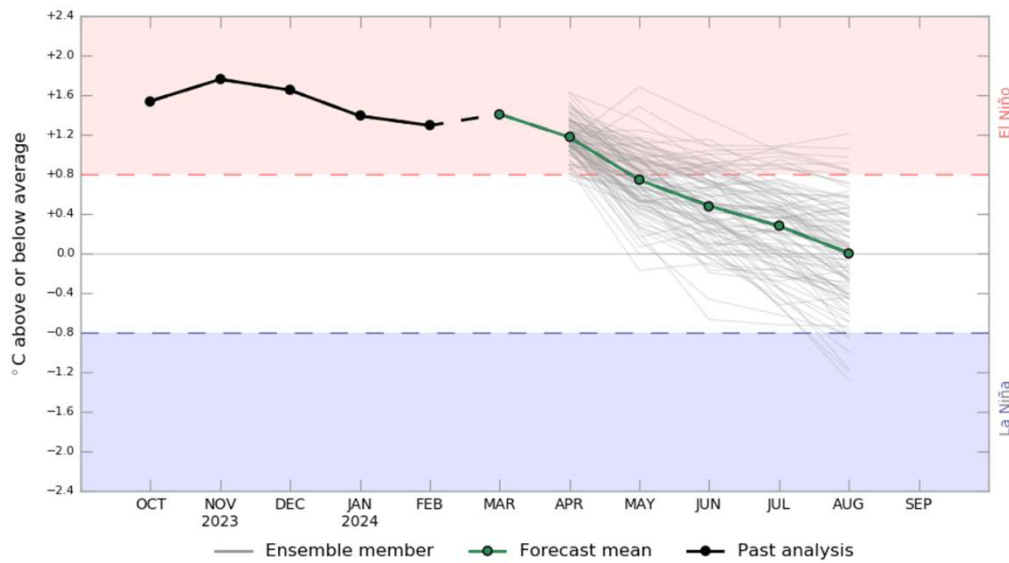


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ENSO

IOD

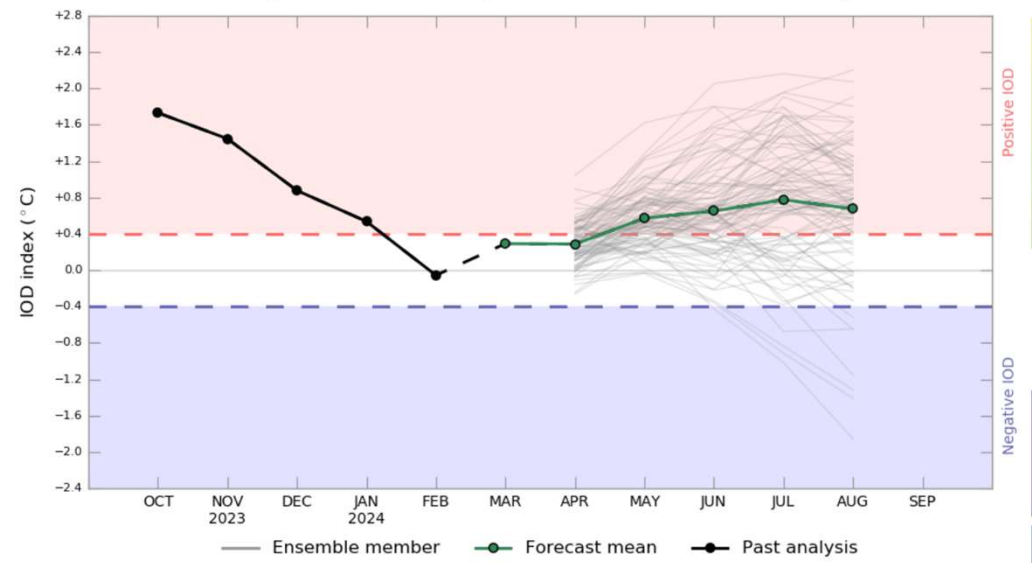
Monthly sea surface temperature anomalies for NINO3.4 region



www.bom.gov.au/climate
Commonwealth of Australia 2024, Australian Bureau of Meteorology

Model: ACCESS-S2
Base period 1981-2018
Model run: 2 Mar 2024

Monthly sea surface temperature anomalies for IOD region



www.bom.gov.au/climate
Commonwealth of Australia 2024, Australian Bureau of Meteorology

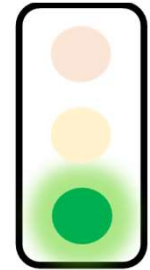
Model: ACCESS-S2
Base period 1981-2018
Model run: 2 Mar 2024

Water Security Outlook for GWMWater

Scott Smith
Manager Water Resources (Acting)

All Systems

Status: General Monitoring



- Large volumes available from the Grampians system.
- Full 2023/24 allocation received in Goulburn and Murray Systems, allocation to LRWS has commenced, meaning 2024/25 HRWS also at 100%.
- Eastern Grampians urban system currently drawing down. Increased monitoring due to Mt Cole fire.
- No groundwater resource issues foreseen.

Figure 11: Comparison of estimated water availability and projected urban and rural pipeline demand to 2070 for Grampians supplied systems (no supply to large commercial users)

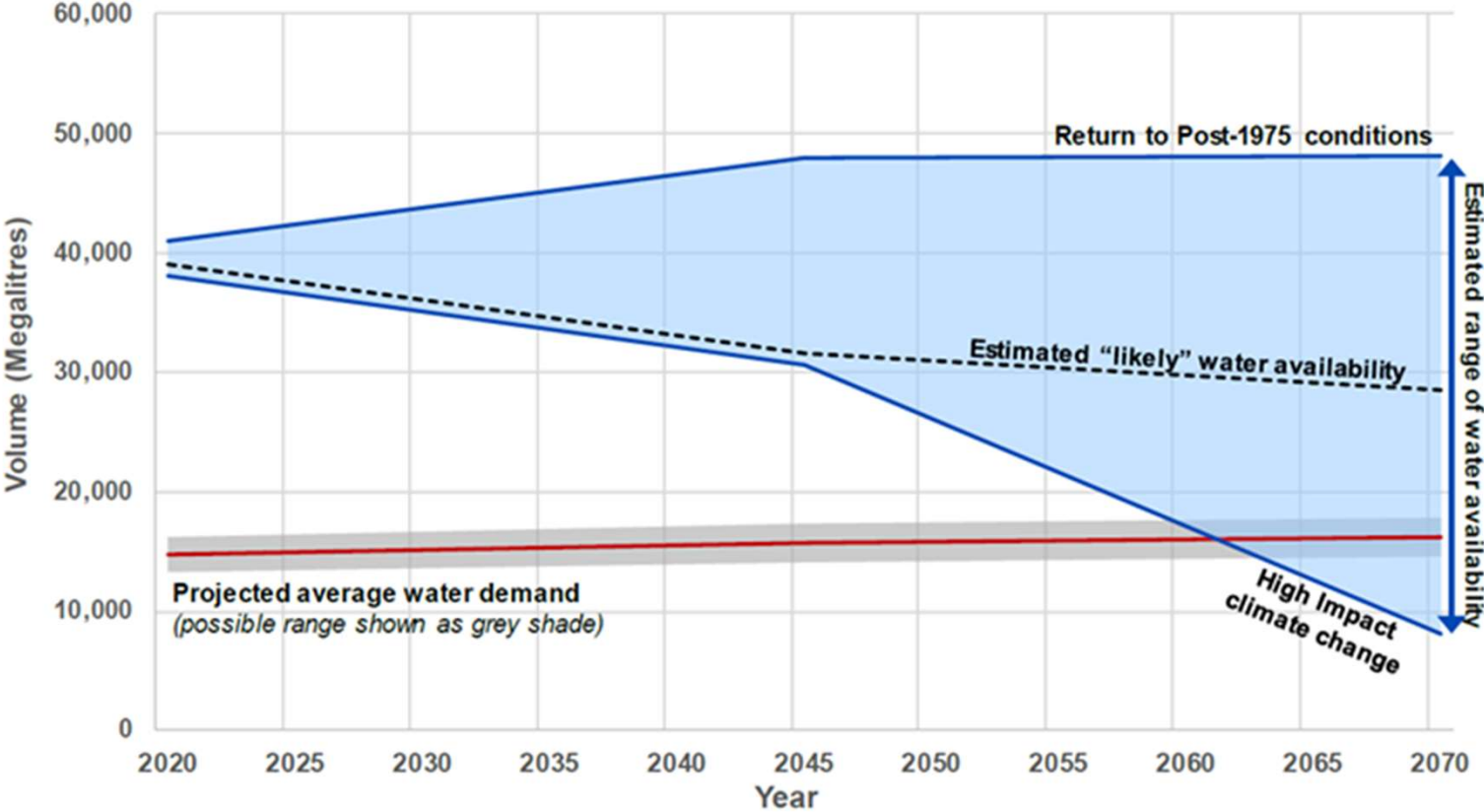
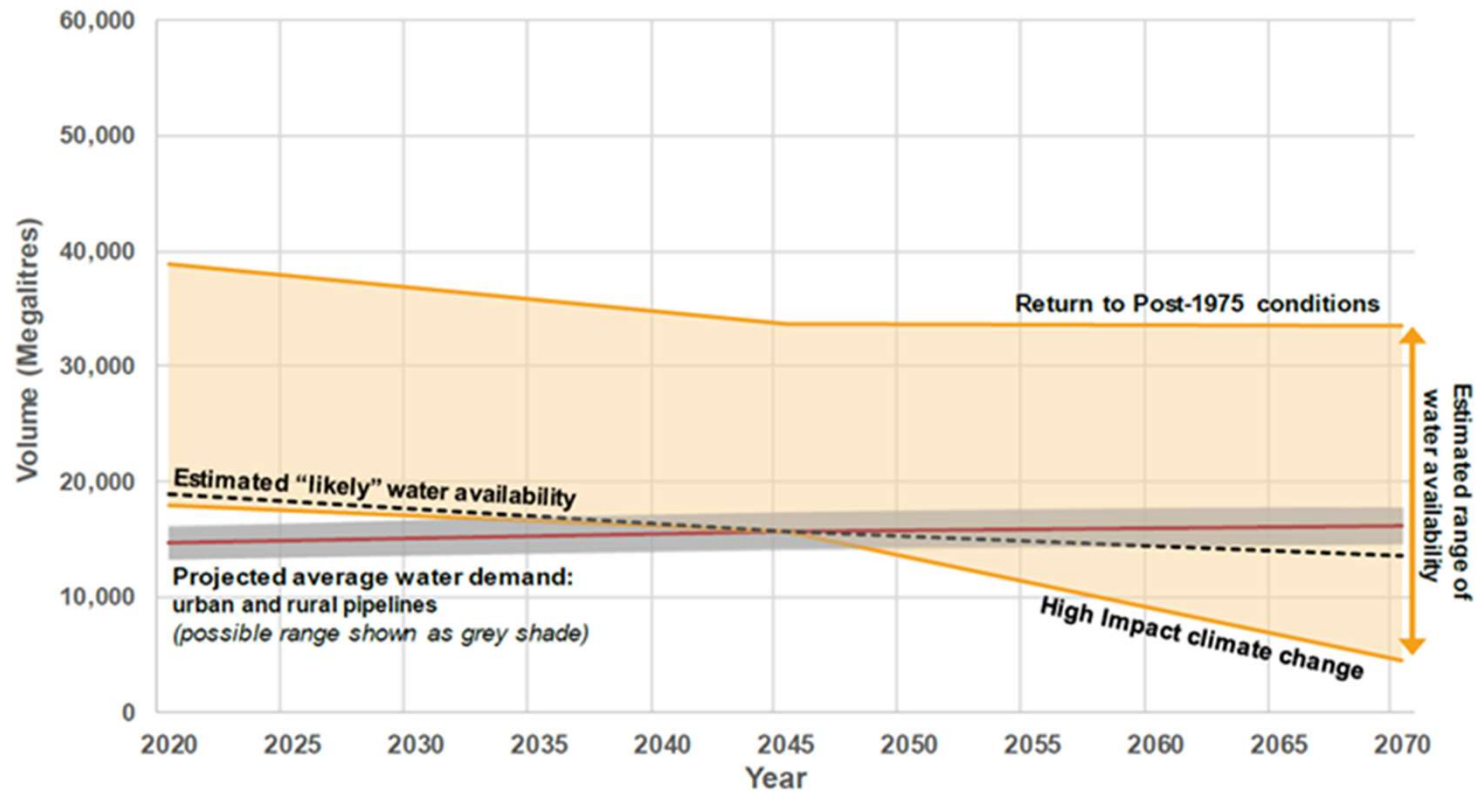


Figure 12: Comparison of estimated water availability and projected urban and rural pipeline demand to 2070 for Grampians supplied systems under full supply to large commercial users and sale of all Growth Water



Options being Investigated

Project Feasibility Study:

- Augmentation (identify new sources of water)
- System efficiency upgrades (piping open channels)
- Cross connection with external systems (Murray / Goulburn)