



Lake Eppalock webinar

6 July 2023



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Contents



- Overview of the dam
- How Lake Eppalock operates
- Historic levels
- Review of October 2022 flood
- Current conditions
- BoM Outlook
- Questions



Overview

- Completed in 1964
- Catchment area 2,124km²
- Fixed crest dam – no gates
- Primary, secondary and tertiary spillways
- Capacity 304,651 ML
- Supplies irrigation, environmental, stock and domestic water including critical for water supply to Coliban and Central Highland Water districts
- Significant recreational, economic and social value in the region



Lake Eppalock Operations



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How Lake Eppalock operates



- Shared between Goulburn-Murray Water (82%) and Coliban Water (18%)
- Outlet capacity of around 1,600 ML a day
- Releases are made to meet customer orders – typically between 70 ML/d and 250 ML/d
- Once full, flows pass over the primary spillway
- The dam surcharges above 100% capacity and throttles outflows which significantly reduces flood flows



How a fixed crest dam works



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GMW's obligations



- GMW's Campaspe System Bulk Entitlement
 - Primary obligation to store and deliver on behalf of individual entitlement holders
- GMW Flood Operations Policy
 - Provides direction for routing floods through storages
- Water Plan Service standards
 - Customer commitment to maximise storage capacity

Lake Eppalock Historic Levels



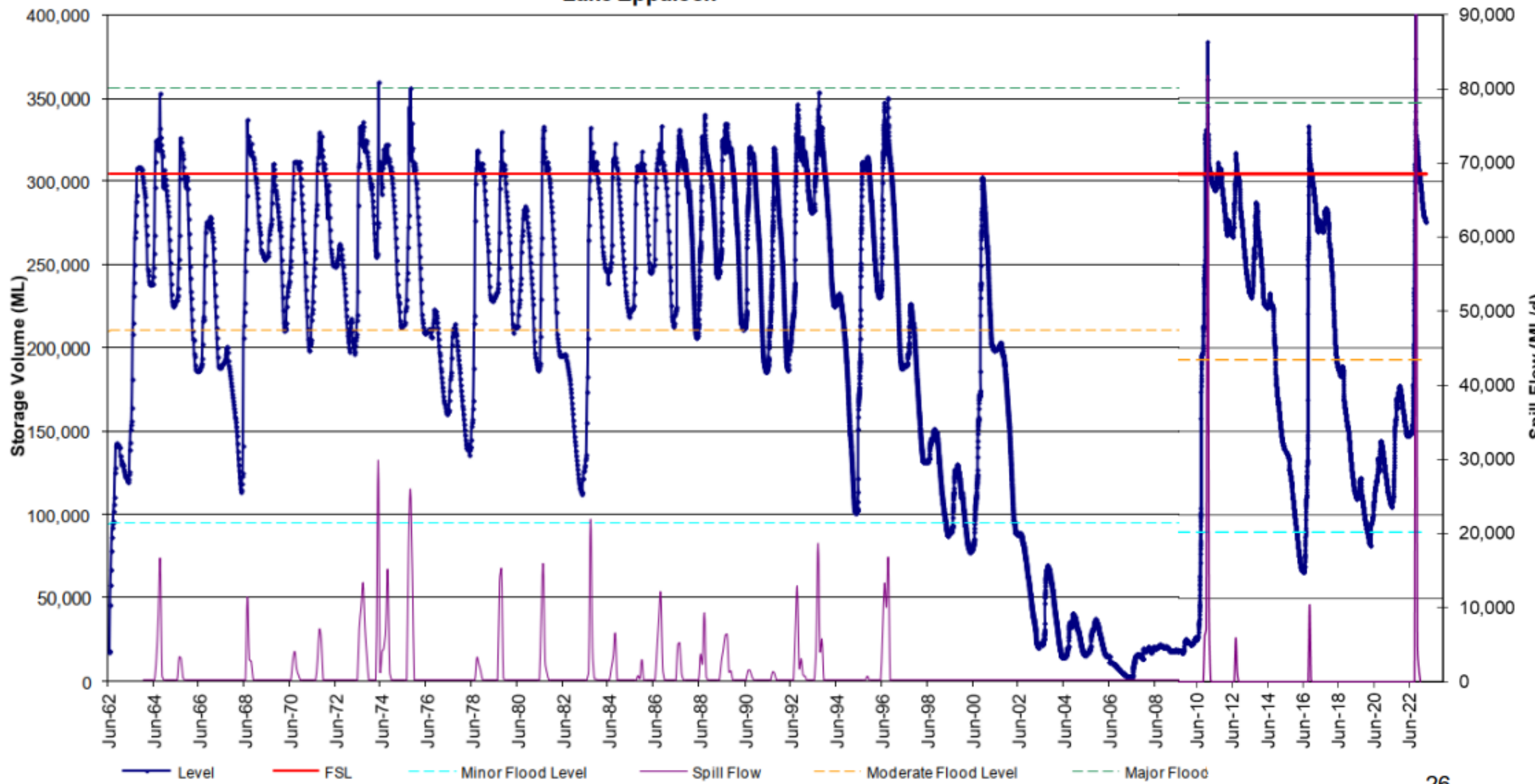
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Lake Eppalock



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Review of October 2022 Flood



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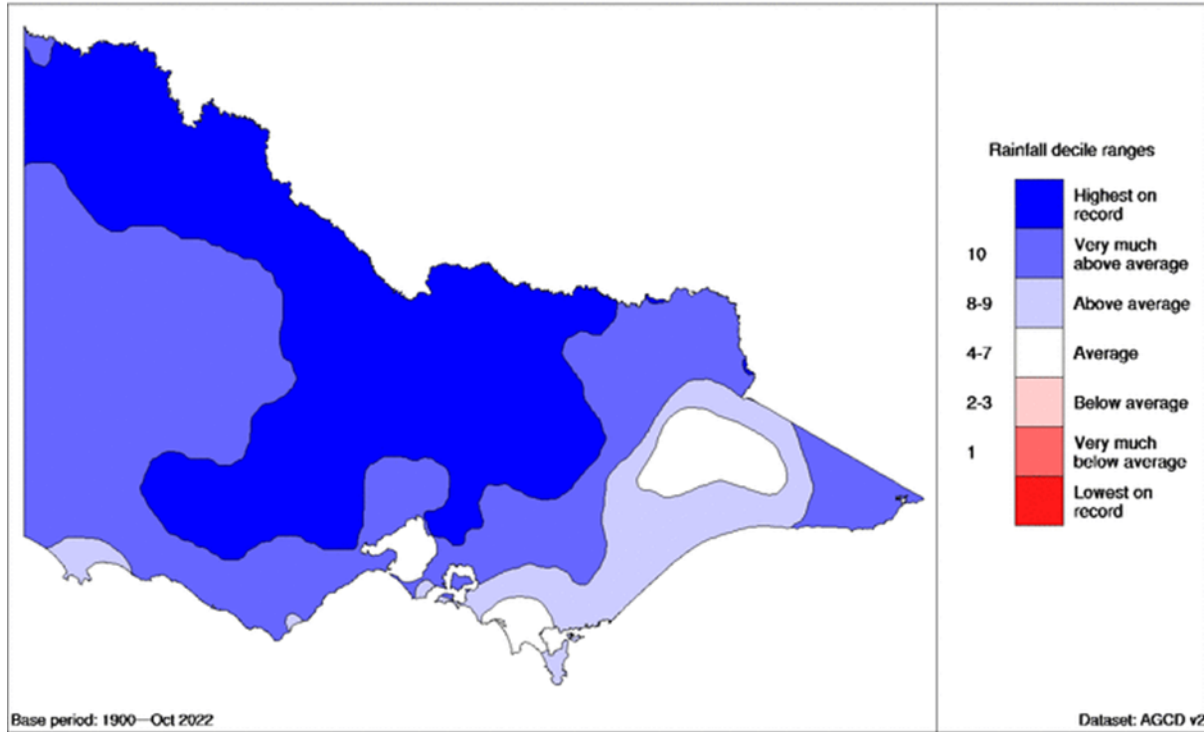


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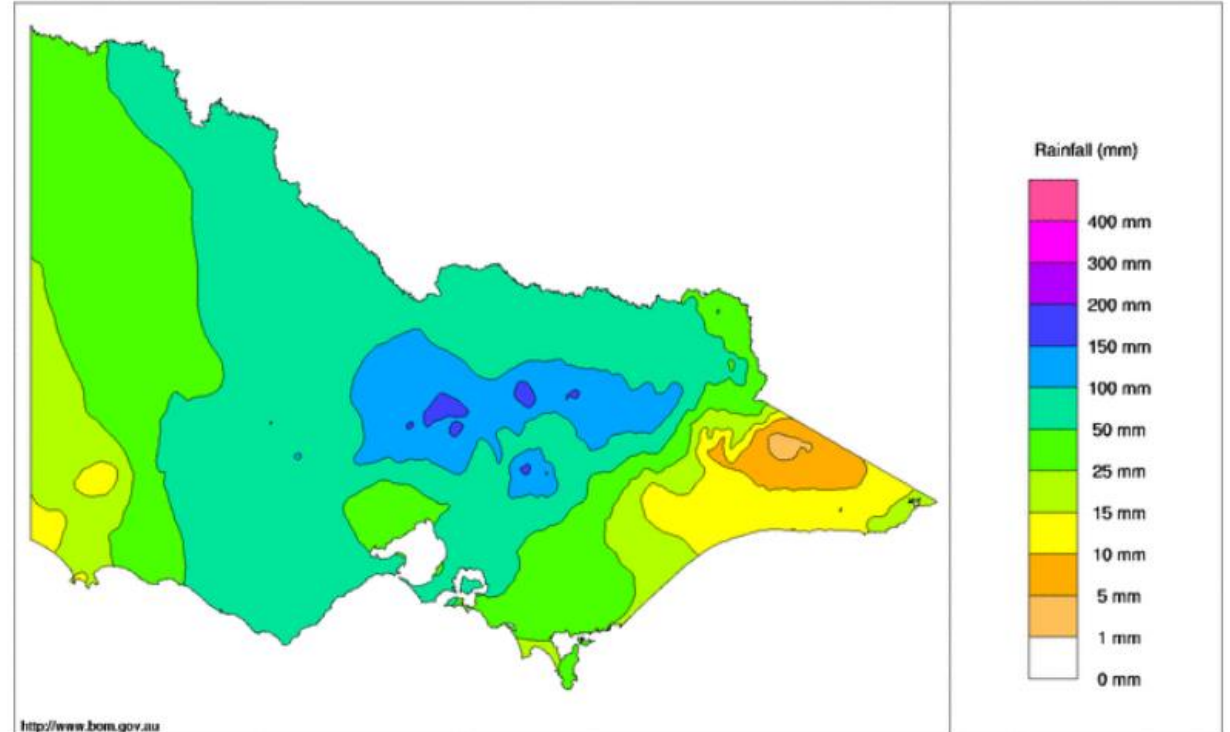
Spring 2022 floods



Victorian rainfall deciles October 2022
Australian Gridded Climate Data



Victorian Rainfall Totals (mm) Week Ending 15th October 2022
Australian Bureau of Meteorology



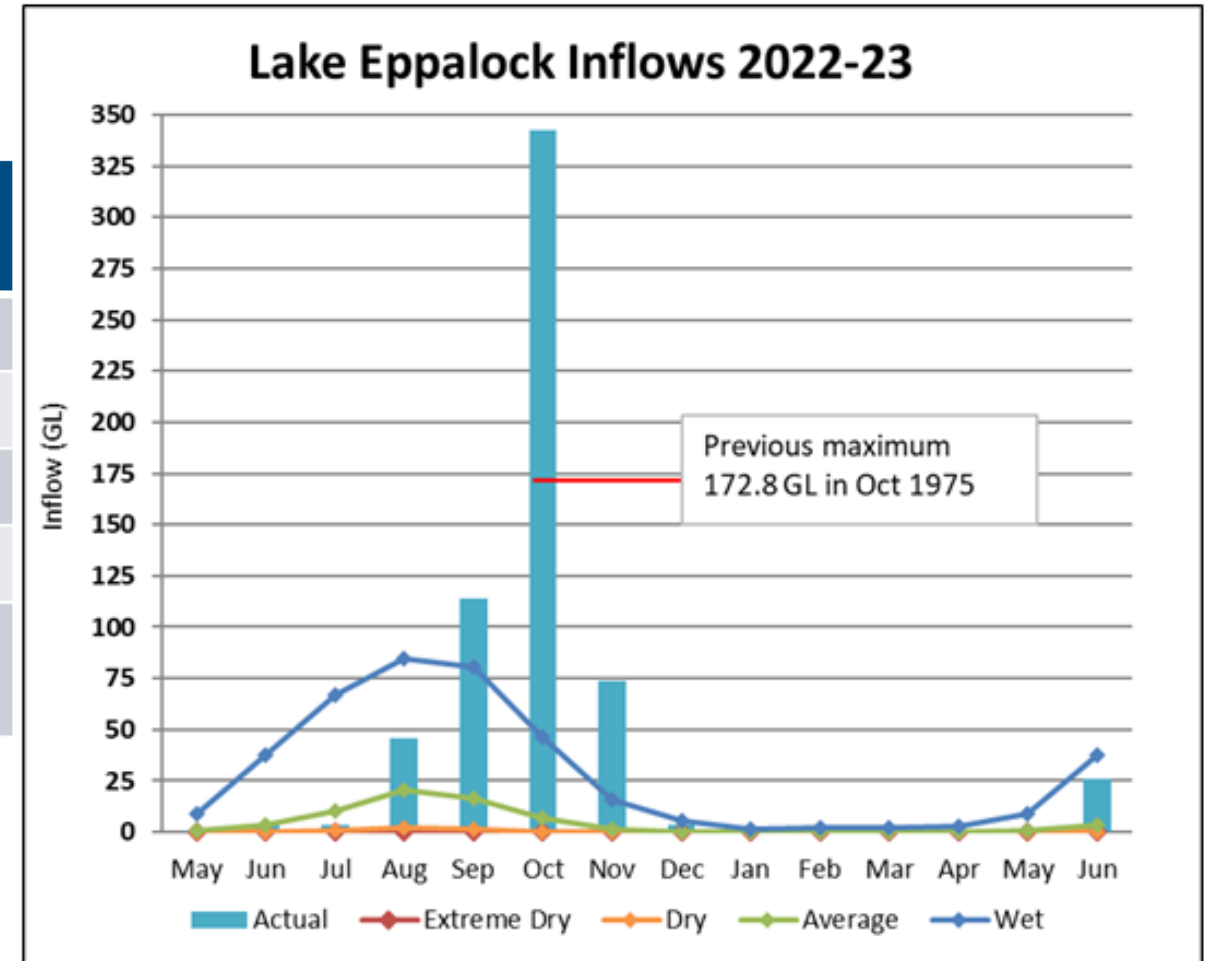
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Lake Eppalock inflows 2022



Eppalock inflows	Volume (GL)	Average (GL)	Percentage of average
August	45	35	130%
September	114	32	236%
October	343	18	1,875%
November	74	7	1,114%
July to November	579	117	494%

Note: October inflows highest since dam constructed

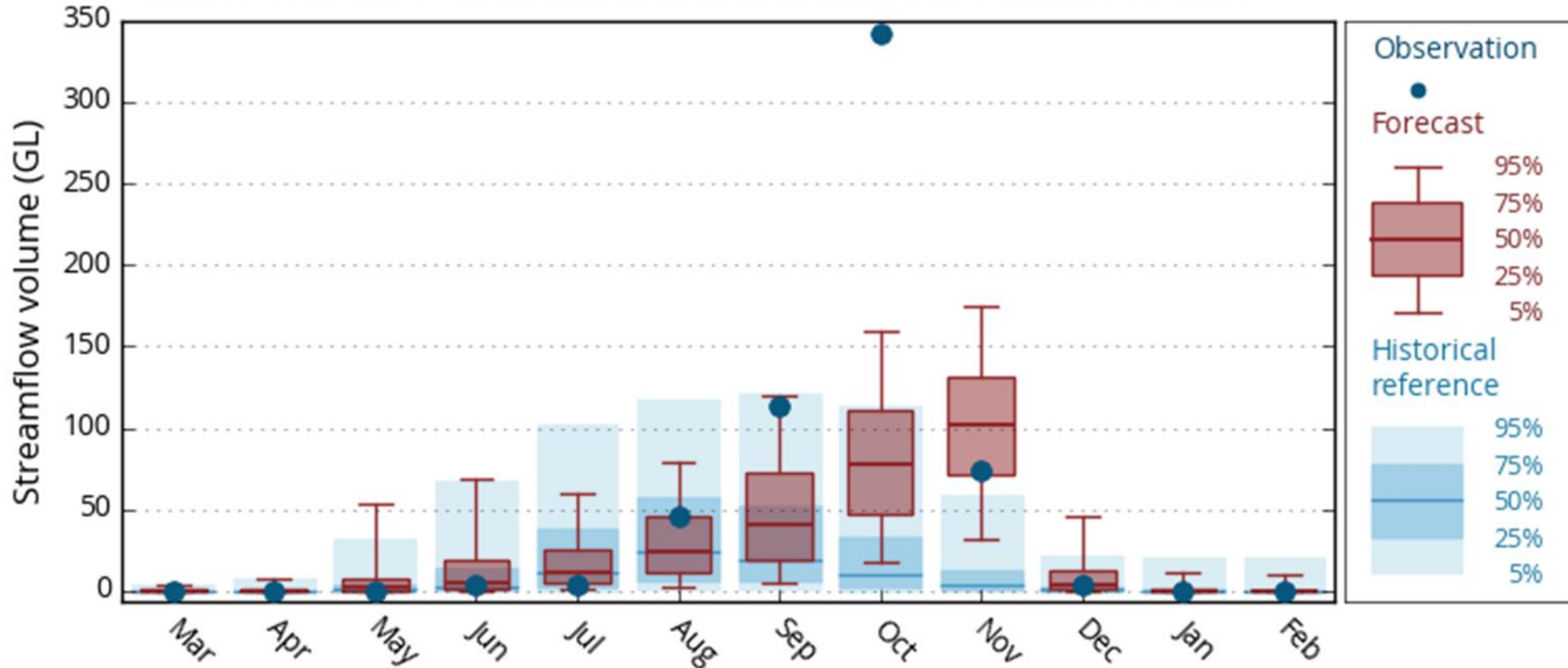


Lake Eppalock inflows 2022

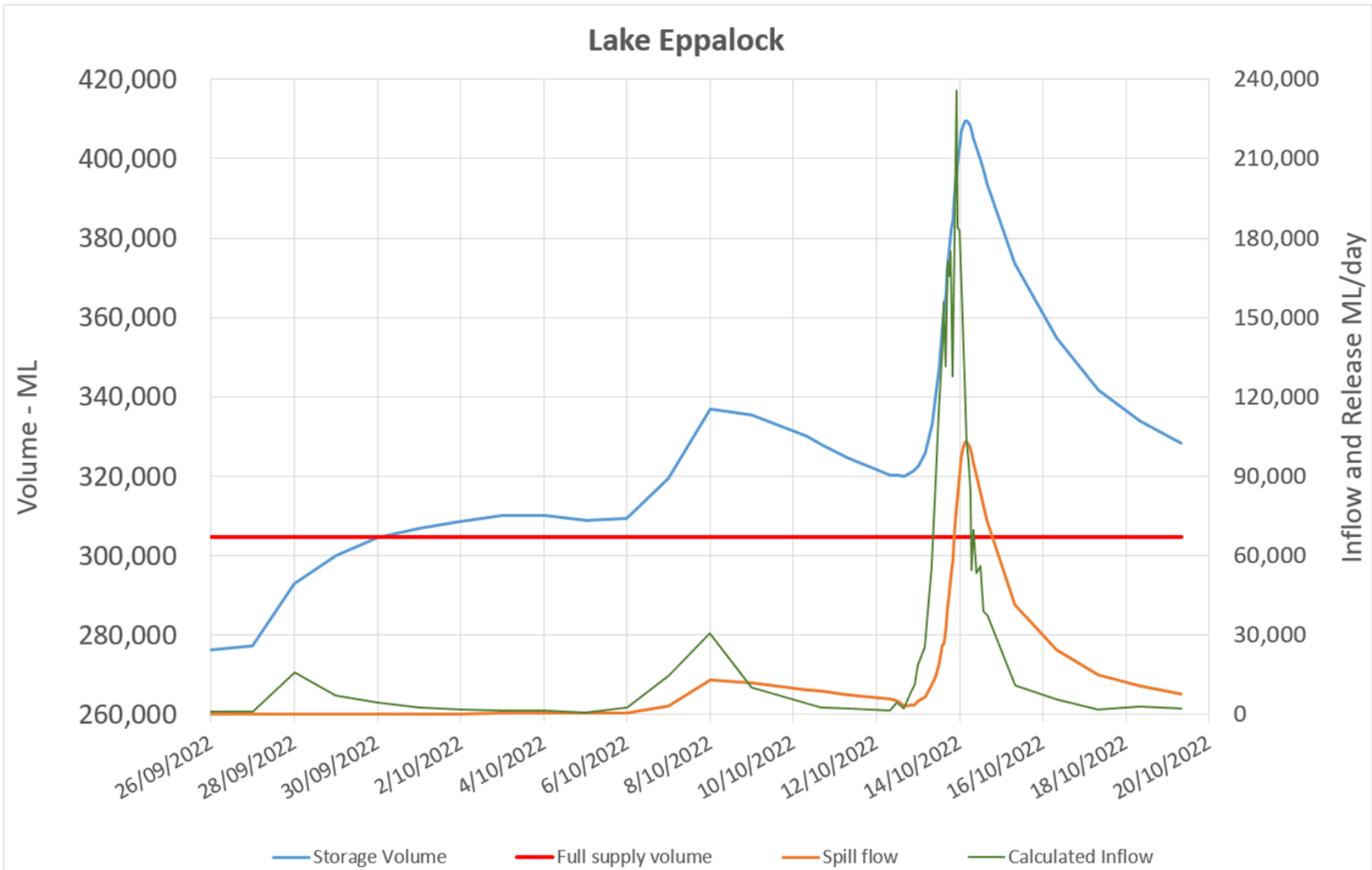


Total Inflows to Lake Eppalock

Past forecasts for 1-month volumes issued from Mar 2022 to Feb 2023



Floods October 2022



Current Conditions



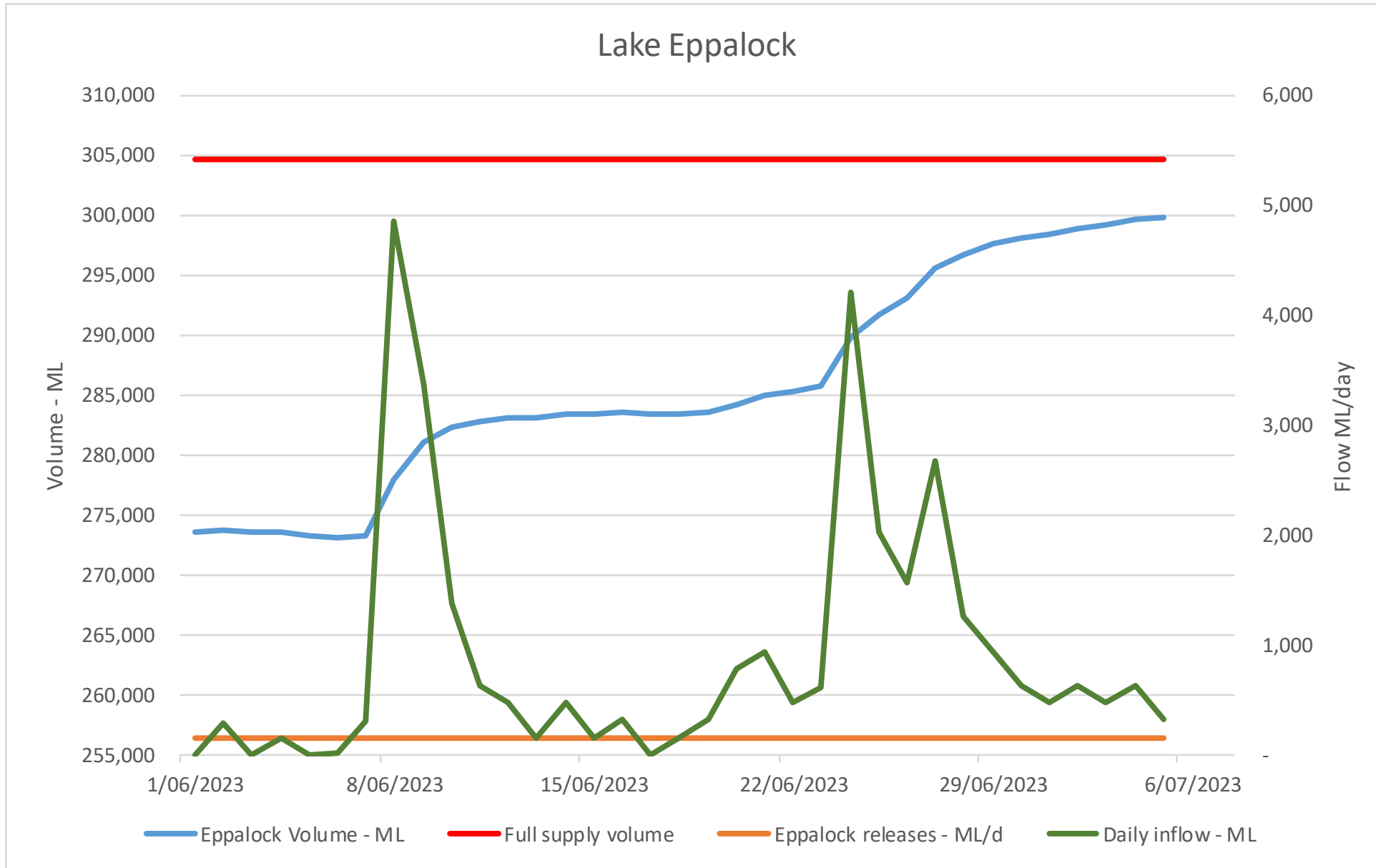
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Recent conditions



Current storage position



- 299,980 ML – 98.5% of capacity
- Release ~160 ML/d – meeting passing flow requirements
- Ongoing environmental orders through winter and spring
- May pre-release ahead of a rain event noting limited capacity to significantly reduce storage level

BoM Outlook



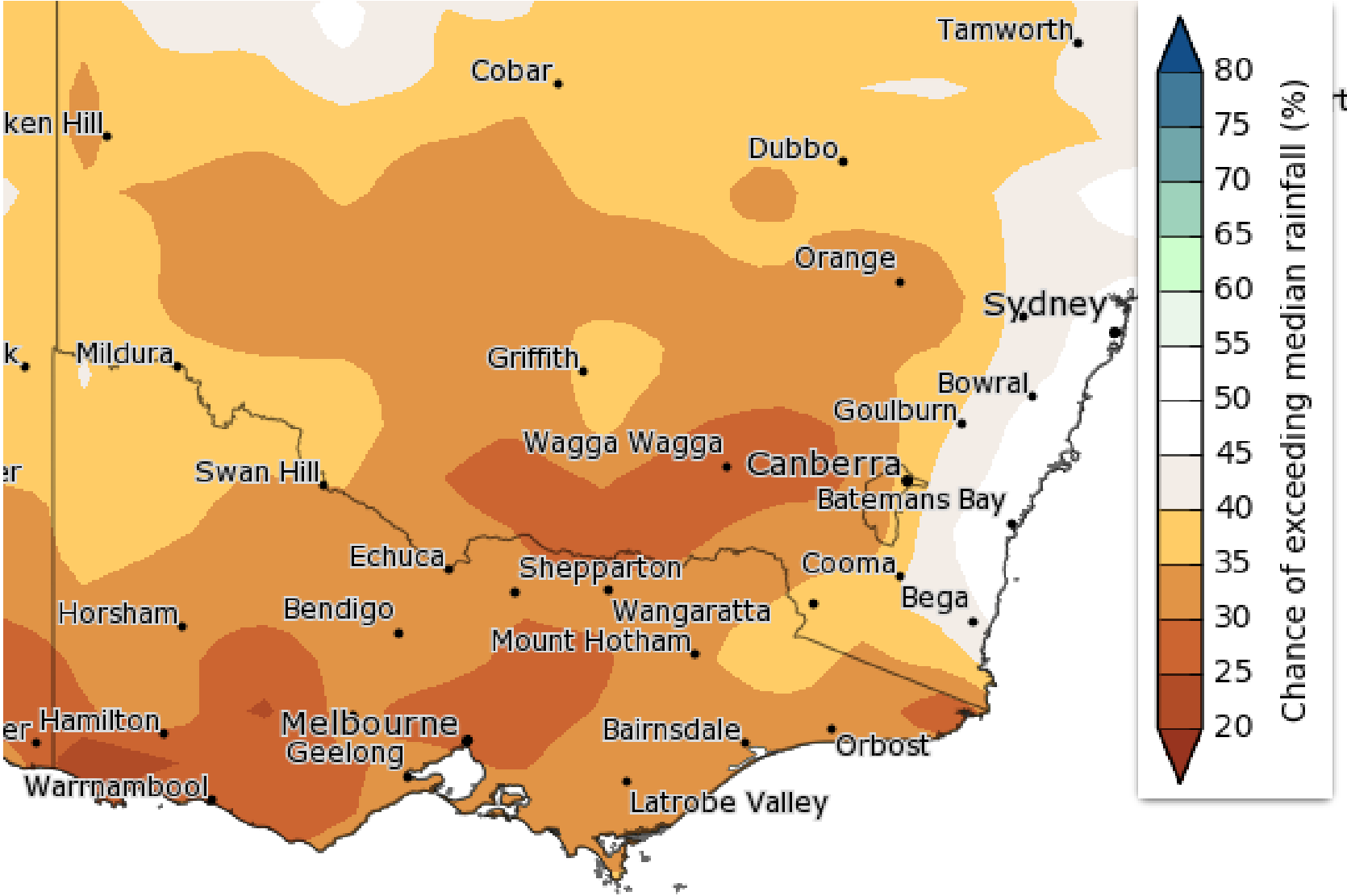
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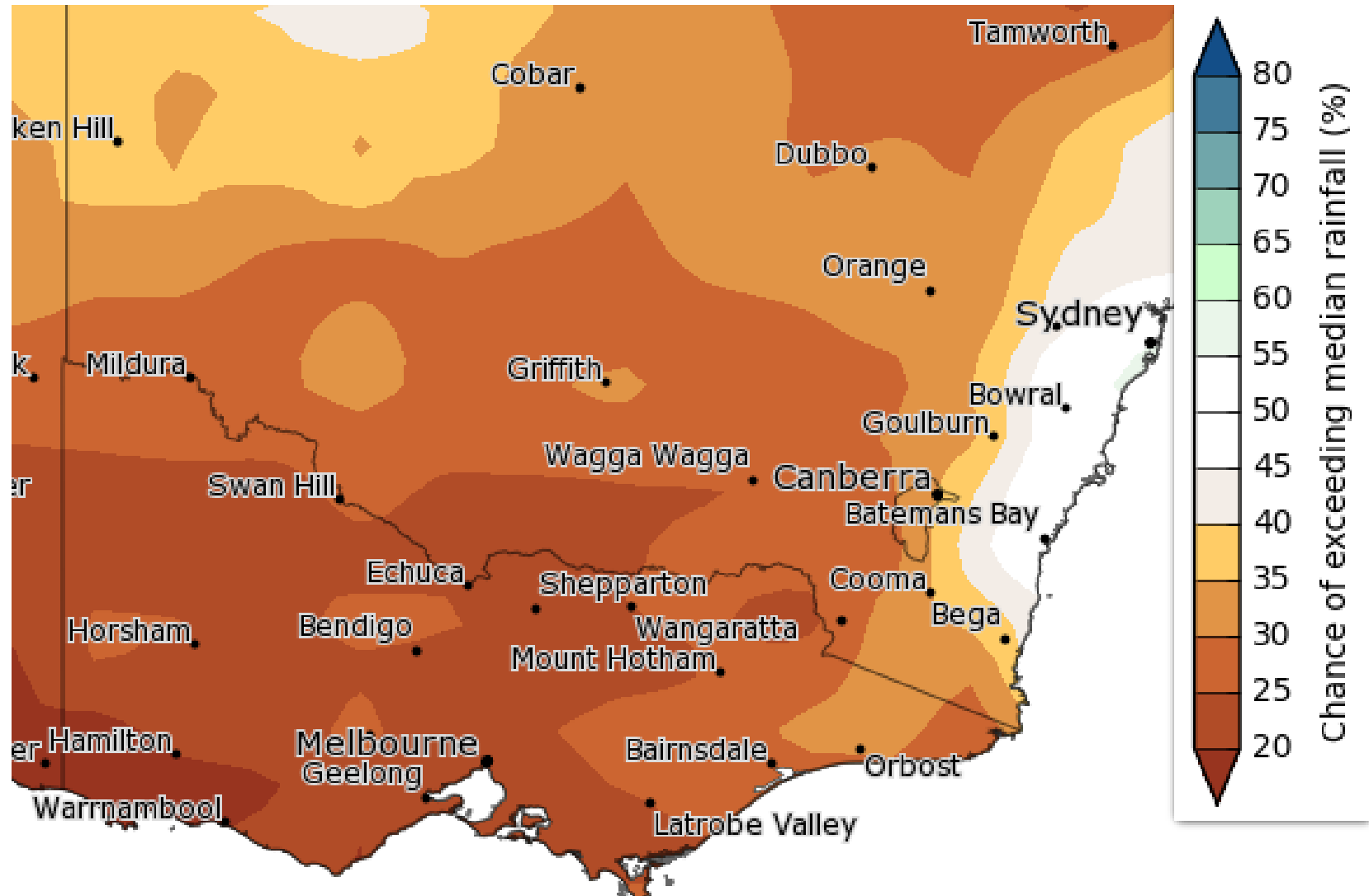
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Rainfall Outlook July - September



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Rainfall Outlook August - October



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What's Next?



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Flood mitigation technical assessment



- Lead by the Department of Energy, Environment and Climate Action
- Engineering consultants, HARC have been engaged to assess options
- [Lake Eppalock operating arrangements assessment \(water.vic.gov.au\)](https://www.water.vic.gov.au)



Further information



- Further queries may be submitted via the GMW website: www.g-mwater.com.au/contact
- We will continually update the Managing Lake Eppalock page on the GMW website: www.g-mwater.com.au/managing-eppalock
- Subscribe to daily storage level updates via the GMW website: www.g-mwater.com.au/subscribe

Further support



- Storage levels and river flows/levels
 - GMW website: www.g-mwater.com.au/storage-levels
 - BOM website: www.bom.gov.au
 - Water Measurement Information System (WMIS)
<https://data.water.vic.gov.au/>
- SES is lead agency for emergencies in Victoria
 - VicEmergency website/app www.emergency.vic.gov.au
- Victorian Government Flood Hotline – 1800 560 760

Questions



Contact us



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