

Regional water availability report

Weekly edition
10 December 2018

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1. Overview

WaterNSW manages and operates 42 dams and storages to deliver water for environmental, domestic, town water, stock, industrial and irrigation purposes across the state.

WaterNSW storages provide supplies to all the major river systems in Western NSW, Greater Sydney, the Southern Highlands, Shoalhaven Bay as well as the Hunter, Bega, and Iron Pot valleys in coastal NSW.

The total active storage percentage of rural water supplies on 10 December 2018 was 40.9% of the total active storage capacity. This was a decrease of 1.1% from last week.

The total storage level of urban water supplies on 10 December 2018 was 61.2% of the total storage capacity. This was a decrease of 0.3% since last week.

2. System risks

- The Lower Namoi single block release strategy from October through to December 2018 is nearing completion. Delivery losses had exceeded the conservative forecast, but recent rain has enabled the restriction on deliveries to be lifted.
- In the Macquarie the temporary water restriction remains in place and only 70% of remaining carryover can be delivered with the current stored volumes and the new, lower inflows. The actual inflows to Burrendong Dam since the last AWD in August 2017 total about 42 GL. This is only 23% of the previous record low inflow of about 180GL for the 16 months ending in November.
- Cease to flow conditions continue in the Barwon Darling system as it remains dry, except for some small flows near Brewarrina from the Macquarie environmental releases.
- Block releases are under way in the Gwydir valley to deliver the small volumes remaining in customer accounts as conditions remain dry.
- Grouping of water orders and an early cessation to deliveries in the western section of the Border rivers will be required if conditions remain dry in 2018/19.
- Menindee Lakes continues to be below the 480/640GL trigger for NSW control, and four temporary block banks have been constructed to extend drought security beyond December 2018. Releases from the remaining water in Lake Pamamaroo is being used to fill these banks. Cease to flow, between these banks, is expected in coming weeks. These lower flows increase the possibility of; access problems with very low flows and decreasing water quality with increase in; salinity, pH and Algae.

3. Climatic Conditions

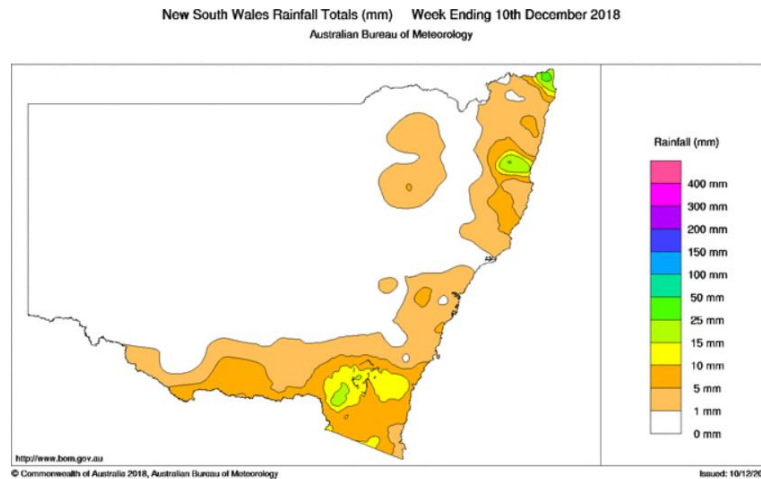


Figure 1 - Weekly rainfall totals for New South Wales

During the week, ending 10 December, the eastern parts of the state received negligible rainfall. Parts of the Northern Rivers and the mid north coast received 1 – 25mm. The South West Slopes and Plains and the Snowy Mountains also received 10 – 25mm. The rest of the state remained dry.

For the week commencing 10 December, a slow-moving high pressure system centred over the Tasman Sea extends a ridge to the far north coast of New South Wales. At the same time, a trough over central New South Wales is gradually moving to the northeast. These two systems have been drawing hot air from central Australia across the far west and southern inland of New South Wales. Another trough associated with a low is expected to enter the west during the second half of the week, bringing increased shower and storm activity.

Rainfall of 5 – 25mm is predicted across the coastal areas of the state in the early part of the week. As the week progresses, rainfall should intensify with the entire state predicted to receive rainfall. The eastern parts of the state should receive the greatest rainfall of up to 50mm with the south eastern parts of the state predicted to receive up to 100mm. The north west of the state should receive 1 – 5mm.

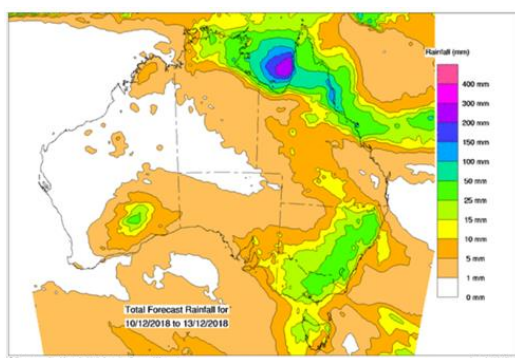


Figure 2a – First 4-day Forecast (10 - 13 Dec 18)

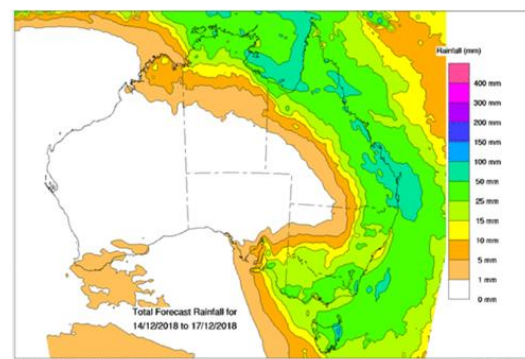


Figure 2b – Following 4-day forecast (14 - 17 Dec 18)

December to February is forecast to have roughly equal chances of a wetter or drier three months, i.e., no strong tendency towards a wetter or drier than average season ahead. This pattern is fairly typical of a summer El Niño event.

Historical outlook accuracy for December to February is moderate to high.

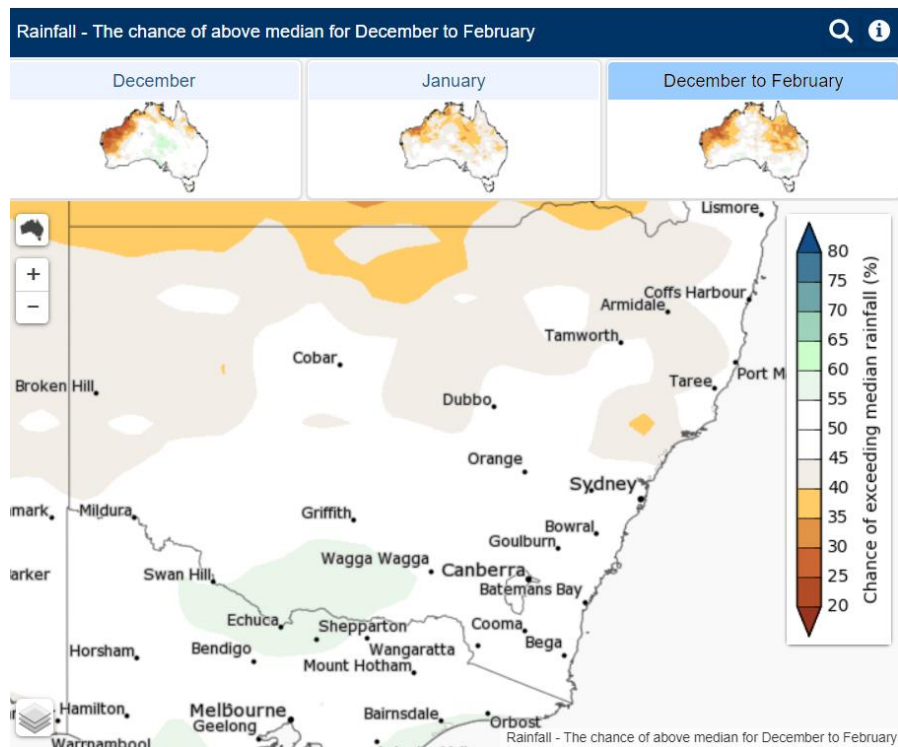


Figure 3 – 3-month rainfall outlook

4. Southern valley based operational activities

4.1 Murray valley

Storage status

- Hume Dam is currently 40% of active capacity, releasing about 14,700 ML/d.



Predicted release patterns

- Releases from Hume Dam are likely to continue to meet irrigation and environmental demands and to transfer water to Lake Victoria for South Australia. However, the release rates are expected to slowly reduce.
- Release downstream of Yarrawonga Weir is about 14,300ML/day and is likely to ease off gradually. Part of the flows are passed through specific forest regulators to take advantage of pre-wetted anabranch channels that can transfer water efficiently around the Barmah Choke.
- Forest regulators are being actively used to maintain the river level at Picnic Point below 2.6m. Currently the level at Picnic Point is about 2.55m.
- The Edward River Offtake is currently about 1,570ML/d and will remain below the channel capacity of 1,600ML/day.
- The Gulpa Creek Offtake is currently about 330ML/d and will remain below the channel capacity of 350ML/day.
- Stevens Weir level will remain steady at about 4.44m to manage the level upstream of Wakool Canal offtake, which is about 1.70m. Flow downstream of Stevens Weir will remain below the channel capacity of 2,700ML/day.
- Flows in the Colligen Creek (417ML/day), Yallakool Creek (403ML/day) and Wakool River (49ML/day) are likely to vary marginally in line with Stevens Weir pool height.
- The combined Wakool – Yallakool flows are augmented with supply from Mulwala Escape at Wakool so that the flows are maintained at about 600ML/day in the Wakool system.

Operating conditions

- The latest Water Allocation Statement by DOI-Water confirmed that the general security allocation of zero, while Available Water Determinations (AWD) are 100% for towns and 97% for high security. Average carryover into 2018-19 is estimated to be about 31% of general security share components.

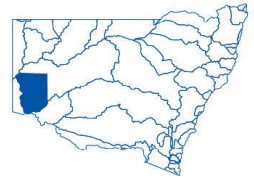
- Returns to Edward River upstream of Toonalook from the environmental water delivered into the Barmah – Millewa forest is currently averaging about 1,500ML/d. The combined flows from Edward Offtake, Gulpa Creek regulator and the forest inflows produce about 3,400ML/day at Toonalook.
- Environmental water delivery to Wakool-Yallakool and Colligen-Neimur Creek systems as per the hydrograph provided by Fisheries have been suspended. The flows are now managed to maximise the delivery to Murray using the Edward Wakool system subject to channel capacity in the Wakool system.
- Supply through Perricoota Escape (90ML/day) and Wakool Escape (80ML/day) are expected to continue for the next few weeks.
- Supply to Edward River is also augmented with Billabong Escapes at Finley, (250ML/day), which is likely to continue for the next few weeks.
- Flow at Moulamein is currently at about 2,475ML/day and is likely to gradually reduce to about 2,250 ML/day over the week.
- Flow in Niemur River at Mallan School is currently about 650 ML/d and is likely to gradually reduce to 600 ML/day over the week.
- Merran Creek flows upstream of its confluence with Wakool is about 150ML/day and is likely to vary between 130 and 160 ML/day for the next few weeks.
- Flow in Wakool River at Stoney Crossing is currently at about 1,290ML/day and is likely to gradually reduce to about 1,100ML/day over the next week.
- Flows at Balranald are currently about 330ML/day and will reduce gradually to about 280ML/day.
- Lake Victoria is currently holding about 551 GL or 78% of active capacity. The flow to South Australia is about 7,330ML/d.
- Potential Blue Green Algae issues:
 - Results for November (19/11) show benign cyanobacteria at all sites across Hume storage. *Aphanocapsa* sp., a benign cyanobacteria is in the highest numbers at the Dam Wall but overall the phytoplankton density is low. Storage remains at green alert.
 - For more information visit: [Water Quality Algae](#)

Planned supply interruptions:

- None.

4.2 Lower Darling valley

Storage status



- The lakes currently hold about 3% of active capacity. The total storage is about 90 GL.
- Lake Menindee has been dry since 6 Feb 2018.

Predicted release patterns

- Release from Lake Pamamaroo is about 320ML/d, primarily to meet the flow targets of about 300ML/d at Weir 32 to fill the temporary block banks.
- The following is the tentative plan for releases from upper storages to fill the banks:
 - Weir 32 target will remain at 300ML/d to maintain filling rates at the block banks but is expected to reduce as the Lake Pamamaroo outlet capacity reduces as the lake level falls.
 - Current level at the block bank near Karoola is about 1.98m. The pipes in the bank are partially open (approximately 75%).
 - Current level at the block bank near Jamesville is about 3.48, The pipes at the bank are closed.
 - Current level at the block bank near Ashvale is about 1.09m. The pipes at the bank are closed.

Operating conditions

- A temporary water restriction came into effect on 4 December limiting the take of water to; town water, domestic and stock, permanent plantings, and, from Copi Hollow, high security licences. [Gazette](#)
- The latest Water Allocation Statement by DOI-Water confirmed the Available Water Determinations (AWD) are 100% for towns for high security, while general security is zero. Average carryover into 2018-19 is about 15% of general security share components.
- The average pan evaporation rate at Menindee over the last week was about 10.3 mm/d equivalent to about 5,200ML from the lakes over the week.
- The total storage of Menindee Lakes reached the 480GL trigger for NSW control of the lakes on 16 December 2017. The releases from the storages will be managed as per the Lower Darling Annual Operations Plan until the storage volume next exceeds 640GL. For more information visit: [Lower-Darling Operational Plan](#).
- Two temporary block banks viz. near Jamesville and Ashvale have been constructed to ensure supply to domestic, stock and permanent plantings.

- Construction of two additional temporary banks upstream of Pooncarie Karoola and Court Nareen bank have been completed and have commenced filling, Additional releases from Lake Pamamaroo outlet have commenced to fill these banks.
- Pumping from Lake Pamamaroo to top-up Copi Hollow ceased on 10/12/18.
- A red alert level warning (high alert) for blue-green algae has been issued for Lakes Wetherell and Pamamaroo as well as Copi Hollow in the Menindee Lakes system, and for the Darling River at Menindee.
- The blue green algae at Menindee may be expected to move slowly downstream with the low flow release from Weir 32.
 - Media release: [Water Quality Algae.](#)

Planned supply interruptions:

- None.

4.3 Murrumbidgee valley

Storage status



- Burrinjuck Dam is currently at 42% of active capacity, releasing about 450 ML/d.
- Blowering Dam is currently at 48% of active capacity, releasing about 8,300 ML/d.

Predicted release patterns

- Releases from Burrinjuck Dam are being maintained at minimum rates as per planned environmental water rules.
- Release from Blowering Dam will be reduced in view of the forecast rainfall to meet the irrigation demand and environmental water orders.
- The current diversion into Yanco Creek is about 300 ML/d and is likely to remain relatively steady.
- Delivery to Billabong system via Finley Escapes is about 250ML/day and is likely to remain at this maximum capacity for the next few weeks.
- The Beavers Creek Offtake is controlled to achieve a target of at least 60ML/day in December at Kywong.

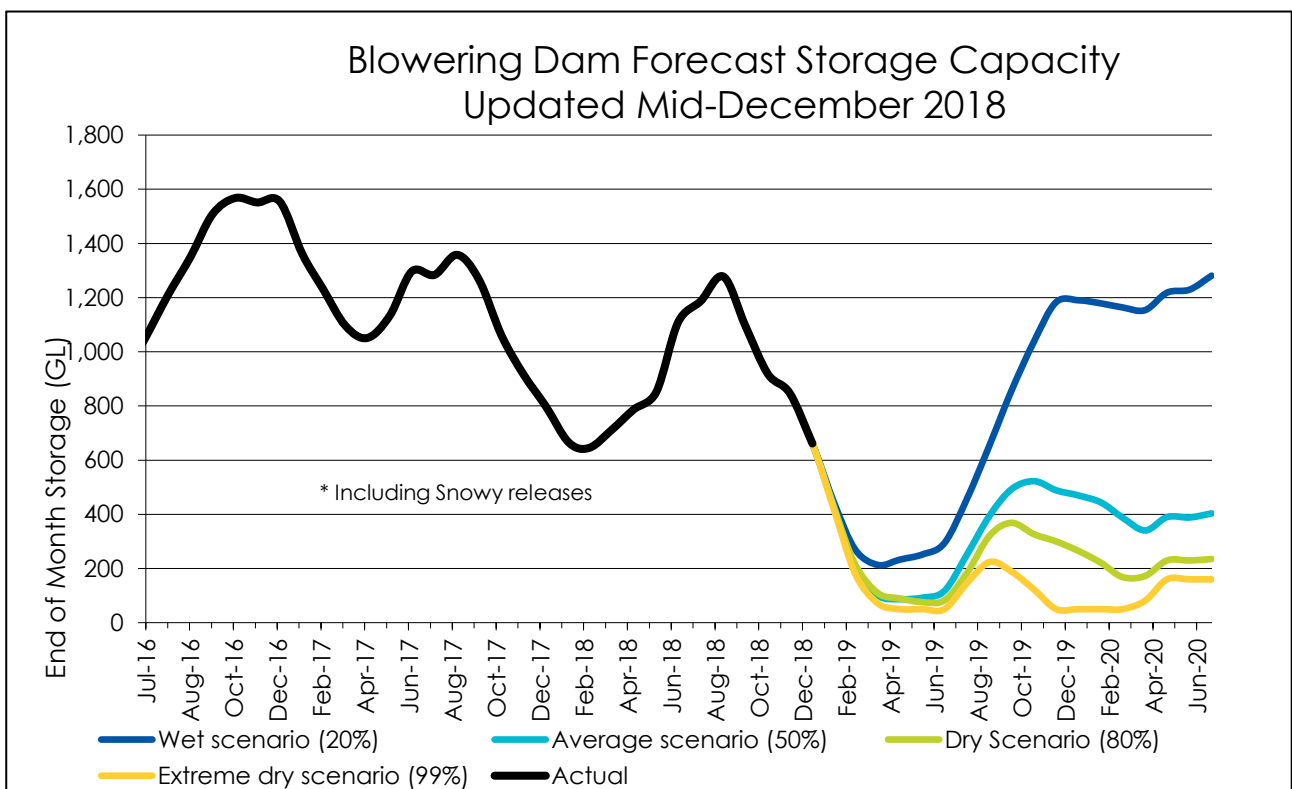
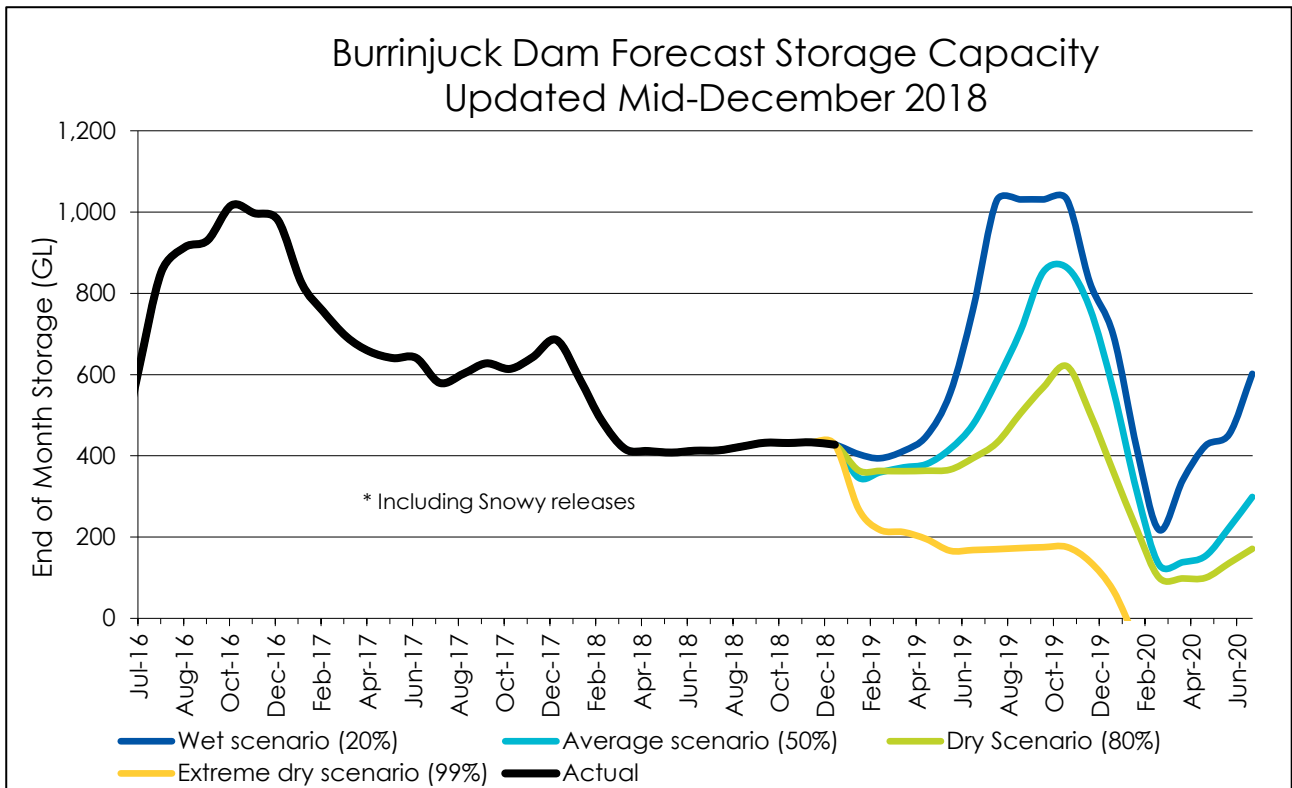
Operating conditions

- The latest Water Allocation Statement by DOI-Water confirmed the Available Water Determinations (AWD) are 100% for towns and 95% for high security, while general security is now 7%. Carryover into 2018-19 is 22% of general security share components.
- Berembed Weir is currently at about 4.1m and will be used to capture any system surplus.
- Bundigerry storage is currently at 2.8m and will be fully used to capture any system surplus.
- Gogeldrie Weir has been drawn down to about 5.4m. The Weir is being actively used for re-regulation to capture any system surplus and then to meet downstream system demands while maintaining sufficient head to supply water to meet the irrigation demand to Sturt Canal and Coleambally Main Canal.
- Tombullen storage is at about 0.7m and is being actively used for re-regulation, with capture of system surplus due to rainfall rejections and then to reuse the captured water to meet downstream system demands.
- Hay Weir is currently at about 7.6m and will be filled with any system surplus. The stored water will then be used to meet downstream demands over the next two weeks.
- Maude Weir is currently at 5.8m and will be maintained relatively steady. The weir is being used to deliver environmental water orders into South Caira channel.

- Redbank Weir is at about 5.4m to supply environmental water to Yanga wetlands until late-January. The environmental delivery to Patterson's Pipe that commenced on 29 November is expected to continue until end of December. The supply of environmental water to assets via North Redbank Channel through Glen Dee offtake is expected to start on 17 December 2018.
- Flows at Balranald are currently about 330ML/day and will reduce gradually to about 280ML/day
- For Inter Valley Transfer (IVT) account from Murray to Murrumbidgee refer to WaterNSW website [IVT Ordering](#).
- Potential Blue Green Algae issues:
 - Blowering Dam: Latest results (06/11) show minor counts of benign cyanobacteria and green alga. Downstream results showed no cyanobacteria. Storage remains at green alert.
 - Burrinjuck Dam: November sampling results show that few cyanobacteria were detected at any u/s location. Mainly diatoms were detected in all samples. Storage remains at green alert
 - For more information visit: [Water Quality Algae](#).

Planned supply interruptions:

- Planning is underway for the maintenance of Tarabah Weir as the maintenance is team is awaiting a suitable window of low flows.
- Nimmie-Caira offtake structures: Replacement of the existing actuators and cabling at the Nimme Creek Regulator is expected to be undertaken between 17 December 2018 and 30 January 2019. For safety reasons, power supply to other regulators viz. South and North Caira offtakes will also be impacted. During power outage period gates can still be operated manually.



5. Central valley based operational activities

5.1 Lachlan valley

Storage status

- Carcoar Dam is currently 43% and releases have averaged around 60ML/d.
- Wyangala Dam is currently 46% and releases have averaged around 1,850ML/d.
- Lake Cargelligo is currently 81%.



Predicted release patterns

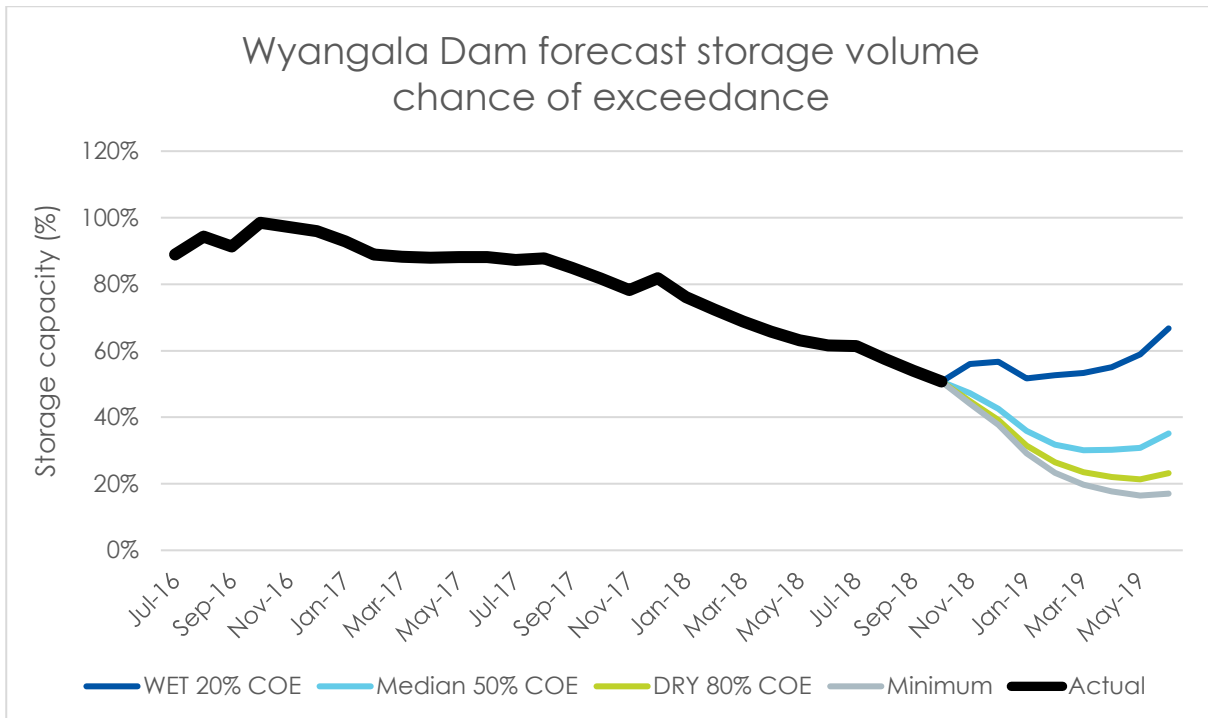
- Carcoar – likely to decrease to a release rate of 30ML/d due to predicted rain
- Wyangala - Remain steady at 1600ML/d release.
- Brewster Weir - Likely to increase from 400 ML/d to 500 ML/d due to orders.

Operating conditions

- The 15th November Water Allocation Statement confirmed zero for general security and the initial Available Water Determinations (AWD) of 100% for towns, S&D and high security. Carryover into 2018-19 in Lachlan River is about 369GL, equivalent to about 62% of general security share components.
- It was estimated that a combined dam and tributary inflow volume more than 225,000 ML was required in November before a further allocation could be made in the Lachlan River. Inflows received in November were about 600ML.
- Lake Cargelligo storage is currently at 81% and the level is likely to remain between 40% and 80% during the irrigation season.
- As of 25 July 2018, Lake Brewster main storage is effectively empty. Starting on the 27 September environmental water has been delivered into the outflow wetlands, with the goal of building the seedbank through a full growth cycle of wetland vegetation.
- Latest BGA samples show that Willandra Weir, Lake Brewster outlet channel, Lake Brewster Regulator C, Lake Cargelligo Outlet and Boatshed are all on green alert.

Planned supply interruptions:

- Nil.



5.2 Macquarie valley

Storage status

- Burrendong Dam is currently at 17% and Windamere Dam is at 39% of capacity.



Predicted release patterns

- Releases from Burrendong are around 1,900ML/d and are expected to stay between 1,500 to 1,900ML/d for rest of the week depending on rainfall and irrigation demand.
- Releases from Windamere are around 95ML/d and are planned to stay between 80 to 90 ML/d for rest of the week depending on rainfall and irrigation demand.

Operating conditions

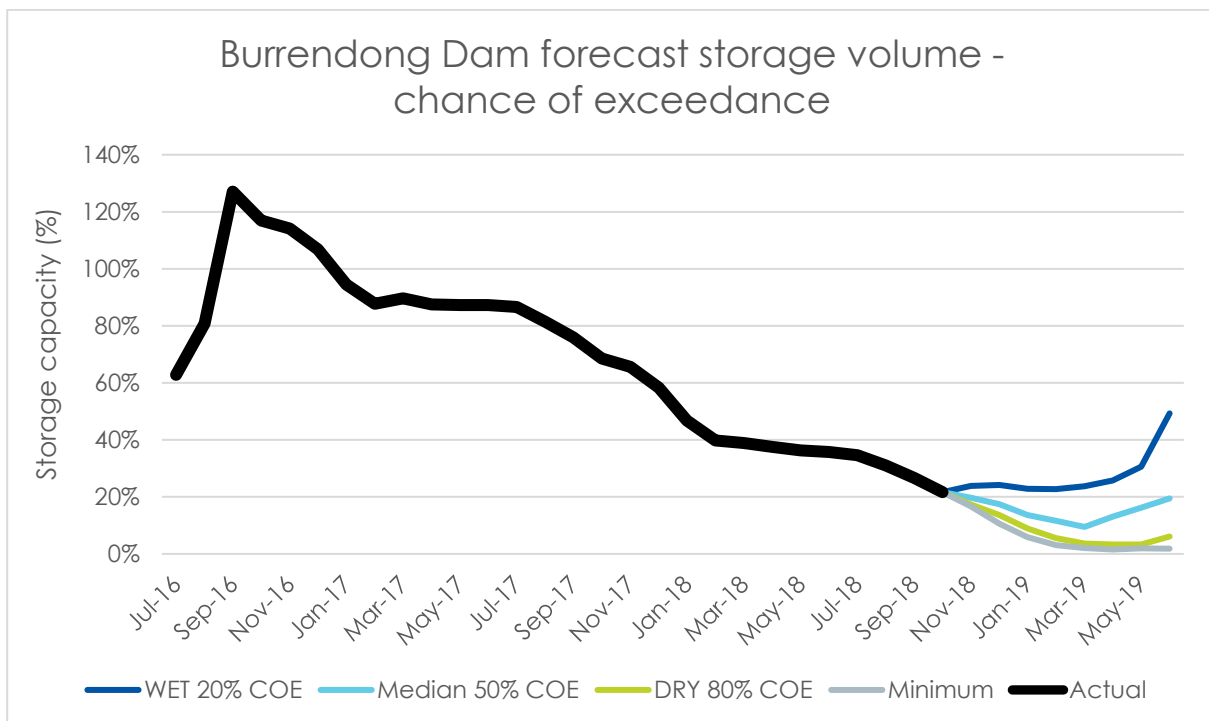
- Delivery of environmental flows commenced at Burrendong Dam on 12 July 2018. Releases for the fifth component of the 'spring event' have been completed from the dam with a recession ending the deliveries on 11 December at Marebone.
- The current releases from Burrendong Dam are largely for Irrigation orders, and a portion for town water demand and minimum flow targets. Deliveries for the second round of watering for summer crop has started from the dam last week, and irrigation demand has increased.
- The timing of all S&D deliveries in 2019 will depend on rainfall events, dam inflows, and contributions from downstream tributaries.
- The initial Available Water Determinations (AWD) for 2018-19 are 100% for towns, S&D and high security, while general security is zero.
- Carryover into 2018-19 in the Macquarie River was about 316GL or 52% of general security share component. Carryover into 2018-19 in the Cudgegong River was about 102% of share component. However, as per the Temporary Water Restriction Order, the resources in Burrendong Dam, minimum expected inflows, plus planned bulk water transfer from Windamere Dam, only provide 70 per cent of the 1 July 2018 balance of general security and environmental accounts (including EWA).
- The Order states that Macquarie regulated river (general security) access licences will be restricted to 70 per cent of the volume of water in the carryover sub-account account as at 1 July 2018. Cudgegong regulated river access licences, including general security, are not restricted.
- As inflows are received during the year, subject to meeting high priority commitments such as town water supply and basic landholder rights for 2019-20, the amount of water in the drought reserve may be reduced and be made available to customers.

- The end of October resource assessment indicated that the access to water in the drought reserve is only likely to be reviewed before June in “Average” conditions and before January under “Wet” conditions.
- Cropping and catchment conditions are being assessed to inform demand and deliverability requirements. At this stage the planned bulk water transfer from Windamere Dam will commence in January. The transfer will take place in two distinct stages. The first phase of the transfer will be in January/February 2019 totalling about 35 gegalitres. A second phase of the transfer will occur in spring 2019, leaving a minimum of 70GL in Windamere Dam, which provides a very secure supply for local demand for the next seven years.
- An information session on bulk water transfer was held in Mudgee on 4 December 2018 and stakeholders were advised to register for the Early Warning Network to receive customer notices and other relevant communications on the bulk water transfer.
- The level in Burrendong Dam is expected to drop steadily and is likely to be below 3% by end of summer. Burrendong Dam has been drawn below 10% on five similar occasions (June 1995, Jan 1998, Apr 2003, May 2004 and Jan 2007).
- It is estimated that inflows of around 330 GL were required in November before an increment in Available Water Determination could be made. Inflows received in November were around 4.5 GL.
- The actual inflows to Burrendong Dam since the last AWD in August 2017 total about 42 GL. This is only 23% of the previous record low inflow of about 180GL for the 16 months ending in November.
- This drier than historical minimum inflow confirms that the system has entered into a new drought of record for Burrendong Dam, and the next few months inflows will be important for planning this season's operations.
- Deliveries in 2018-19 require water conservation initiatives to reduce losses. This involves implementation of water order debiting and, where feasible, block releases of irrigation orders in lower parts of the Macquarie River.
- Customers are reminded that those who repeatedly extract less water than indicated in their approved water order will have their account debited for the full amount ordered, rather than the amount extracted. Please view the approved water order debiting rules as below: [Fact Sheet](#).
- Burrendong algal results for the 28th Nov show no presence of potentially toxic species. Assemblage at station 1 and Mookerawa were dominated by flood alga, whereas the Cudgong showed mainly green alga. Storage is now at Green alert. However weekly sampling will continue as part of the curtain reinstatement.

- Windamere algal results for the 19th Nov shows a minor presence of toxic species at Dam Wall and mid lake, however storage remains on green alert.
- The position of the trash rack at Windamere Dam is currently 11-14 m below the surface.
- Works to reinstate the temperature curtain at Burrendong Dam have been completed and the commissioning phase has commenced. The commissioning of the curtain operation will allow the continuation of this trial as the water near the surface of the lake begins to warm.

Planned supply interruptions:

- Nil



6. Northern valley based operational activities

6.1 Namoi valley



Storage status

- Split Rock Dam is at 5% of active capacity.
- Keepit Dam is at 1% of active capacity.
- Chaffey Dam is at 43% of active capacity.

Predicted release patterns

- Split Rock Dam is currently releasing around 68 ML/d, as the recent bulk water transfer to Keepit is complete. Releases will gradually reduce to 40 ML/d over the week.
- Keepit Dam outlets are fully open and is currently releasing around 970 ML/day. Releases will gradually reduce to 5 ML/d by the end of the week as the storage level falls close to zero.
- Chaffey Dam is currently releasing around 140 ML/day.

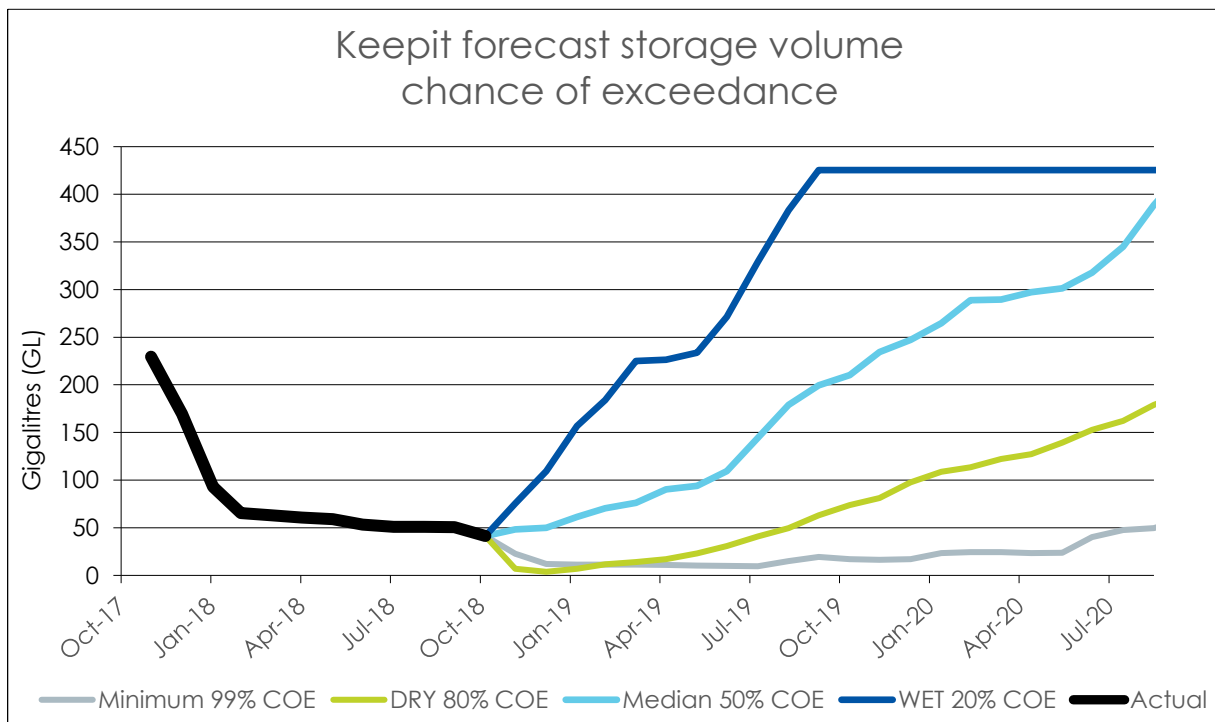
Operating conditions

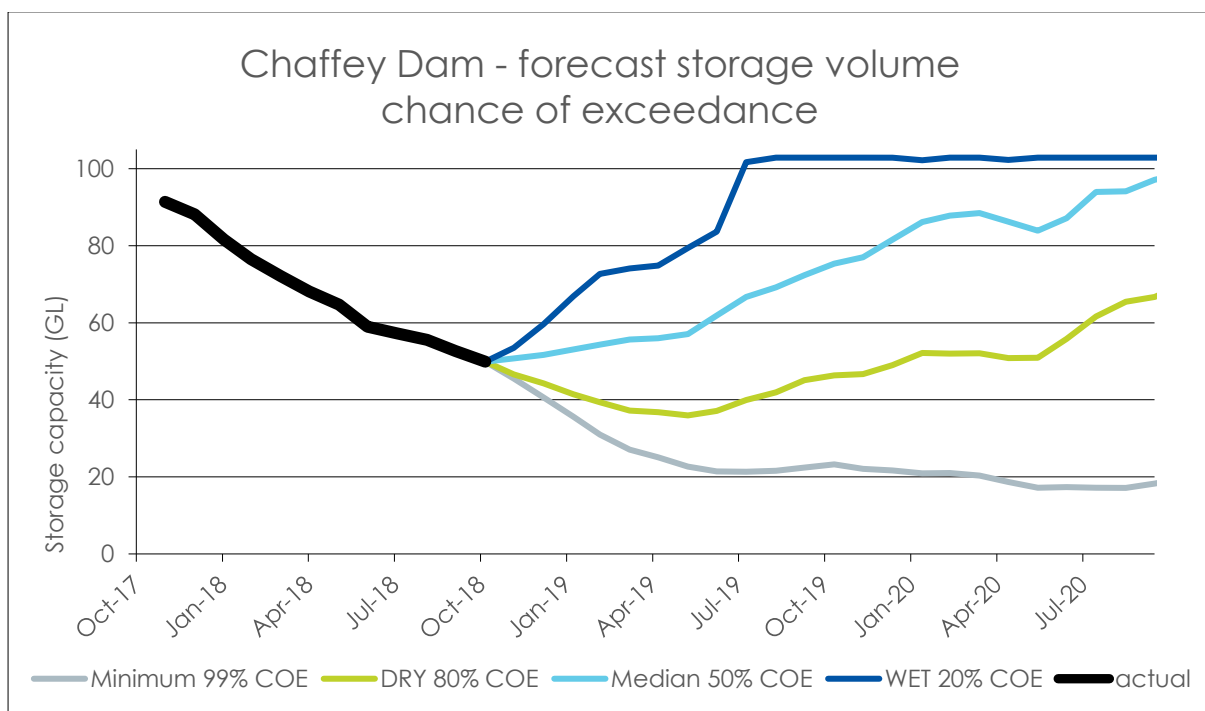
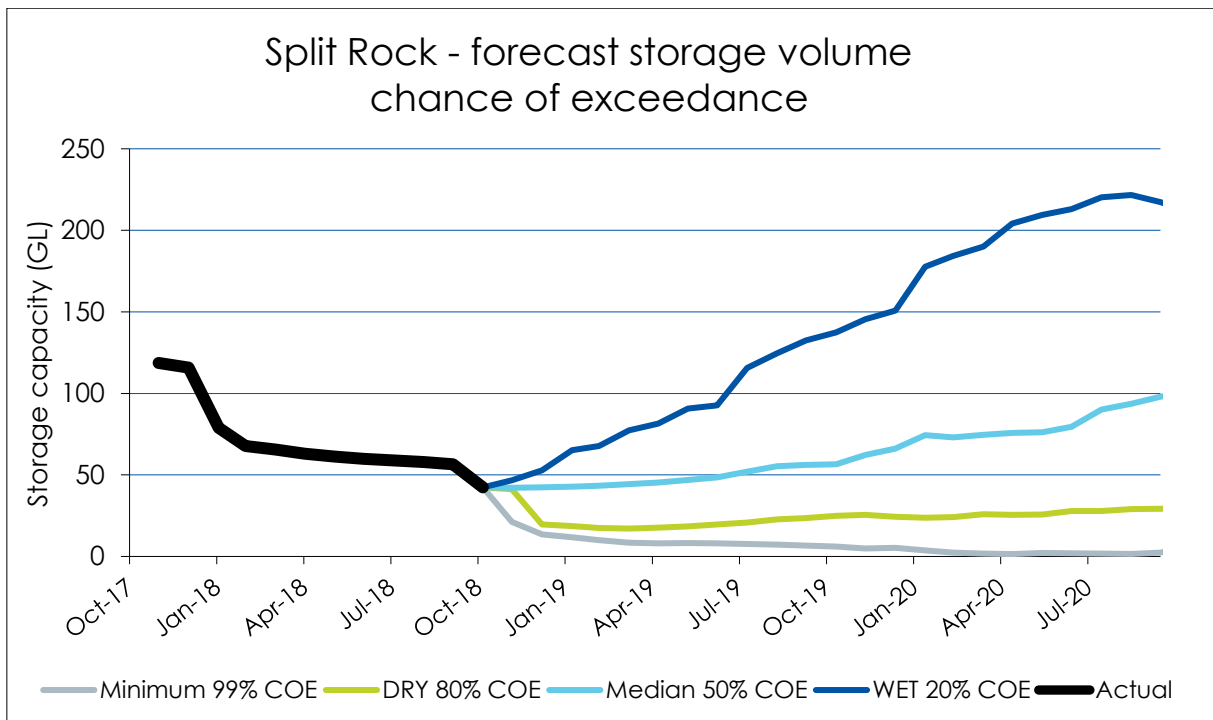
- This season's block release from Keepit to the Lower Namoi will cease later this week, while downstream delivery of this water will continue for the next two weeks. Parts of the Temporary Water Restriction on were lifted on 27 November. [Customer Notice](#) Access is now available to all account water in the Upper Namoi and, for the Lower Namoi, all orders placed by 5 November are available. General security Lower Namoi water orders placed after 9am Monday 5 November 2018 are not able to be delivered, until conditions improve. Trade to or from Lower Namoi general security accounts remains prohibited. The delivery of general security water is being made only to the Namoi River upstream of Gunidgera Weir, and to the Pian Creek upstream of Greylands Weir.
- An expression of interest will be called to distribute any water that becomes available from the last of the block release or inflows from this week's rainfall forecast, however this availability is not yet certain. [EOI](#)
- The initial Available Water Determinations (AWD) for the Lower Namoi are 100% for towns and high security, while general security is zero. Carryover into 2018-19 is estimated to be up to 19% of general security share components.
- The initial Available Water Determinations (AWD) for the Upper Namoi are 100% for towns, high security, and general security.

- The initial Available Water Determinations (AWD) for the Peel are 100% for towns and high security, while general security initially was 29%, with an increase in October to a total of 38%.
- Maximum temperatures during the week are forecast to reach 30 degrees in some parts of the catchment.
- No flow has been present in the Namoi River at Walgett (Station No 419091) since March 2018.
- The Pian Creek replenishment flow is not able to be delivered in the usual manner so, unless conditions improve, other supply arrangements will need to be made.
- Supply on demand will continue for the Upper Namoi and the Peel Valley.
- Recent sampling for BGA indicates that Keepit Dam and Chaffey Dam are on a green alert while Split Rock Dam is on amber alert.

Planned supply interruptions:

- Mollee fish way is currently unavailable due to infrastructure failure.







6.2 Gwydir valley

Storage status

- Copeton Dam is at 18% of active capacity.

Predicted release patterns

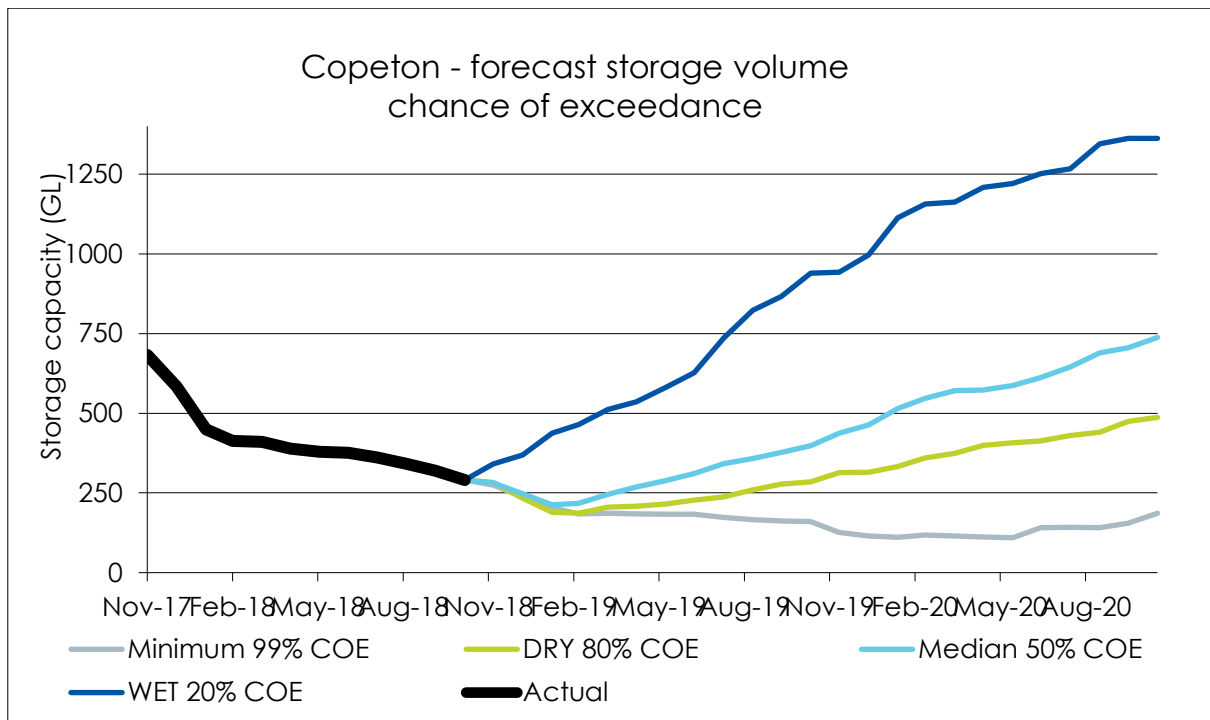
- Copeton Dam is currently releasing around 1,010 ML/day and this is expected to reduce to around 500ML/d during the week following changes in orders and the block release to Carole Creek.

Operating conditions

- Block releases for the western effluent streams. See updated [Customer Notice](#).
- The initial Available Water Determinations (AWD) are 100% for towns and high security, while general security is zero. Total carryover into 2018-19 is estimated to be up to 22% of general security share components.
- Maximum temperatures during the week are forecast to reach 30 degrees in some parts of the catchment.
- Carryover of general security for industry production was limited to roughly 40 GL (about 8% of general security share components).
- Carryover of general security for environmental use is roughly 71 GL (about 14 % of general security share components), in addition roughly 75 GL is available for the Environmental Contingency Allowance (ECA).
- The first of two planned 30GL ECA deliveries are complete and flows have reached the target sites; Millewa and Gingham.
- The first of two planned 10GL CEWO (Commonwealth Environmental Water Office) Mallowa Creek deliveries is underway, flow has reached Mallowa Creek off-take. The first delivery (10GL) is planned from September to early December. The second (10GL) is planned from end of January to early April.
- Recent Blue Green Algae (BGA) sampling at Copeton shows Copeton at green alert level.

Planned supply interruptions:

- No supply interruptions are expected.





6.3 Border rivers

Storage status

- Pindari Dam is at 37%, and Glenlyon is at 36% of active capacity.

Predicted release patterns

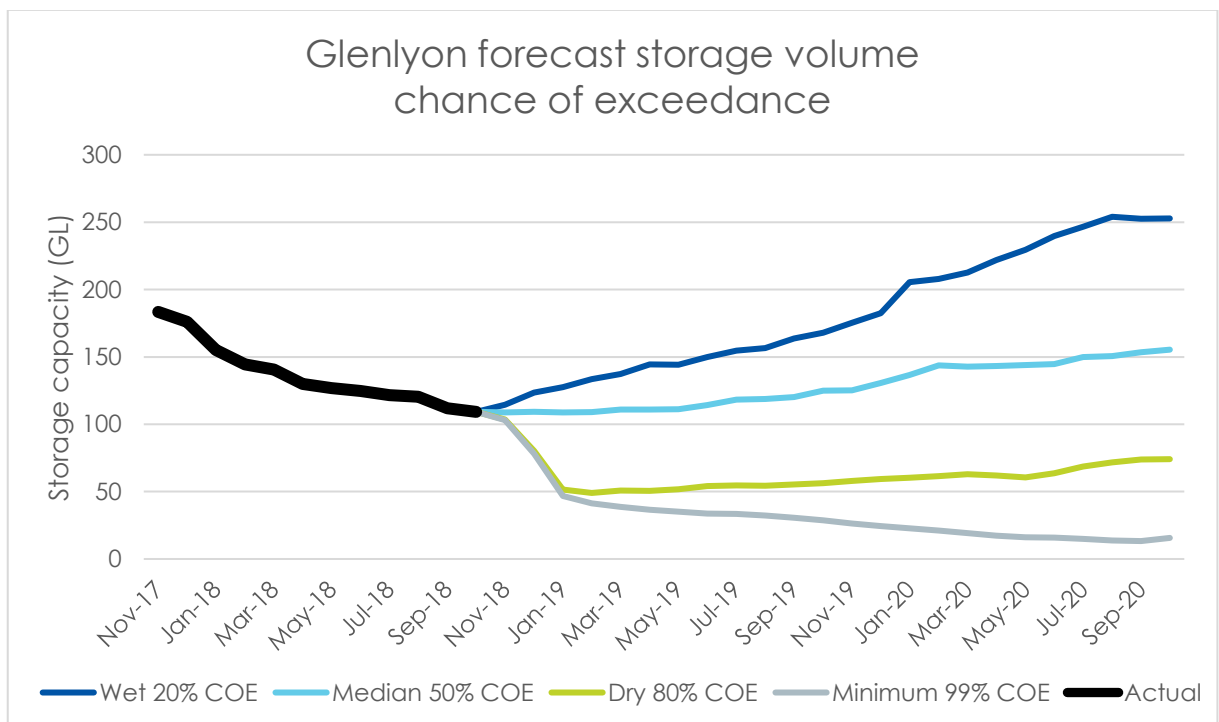
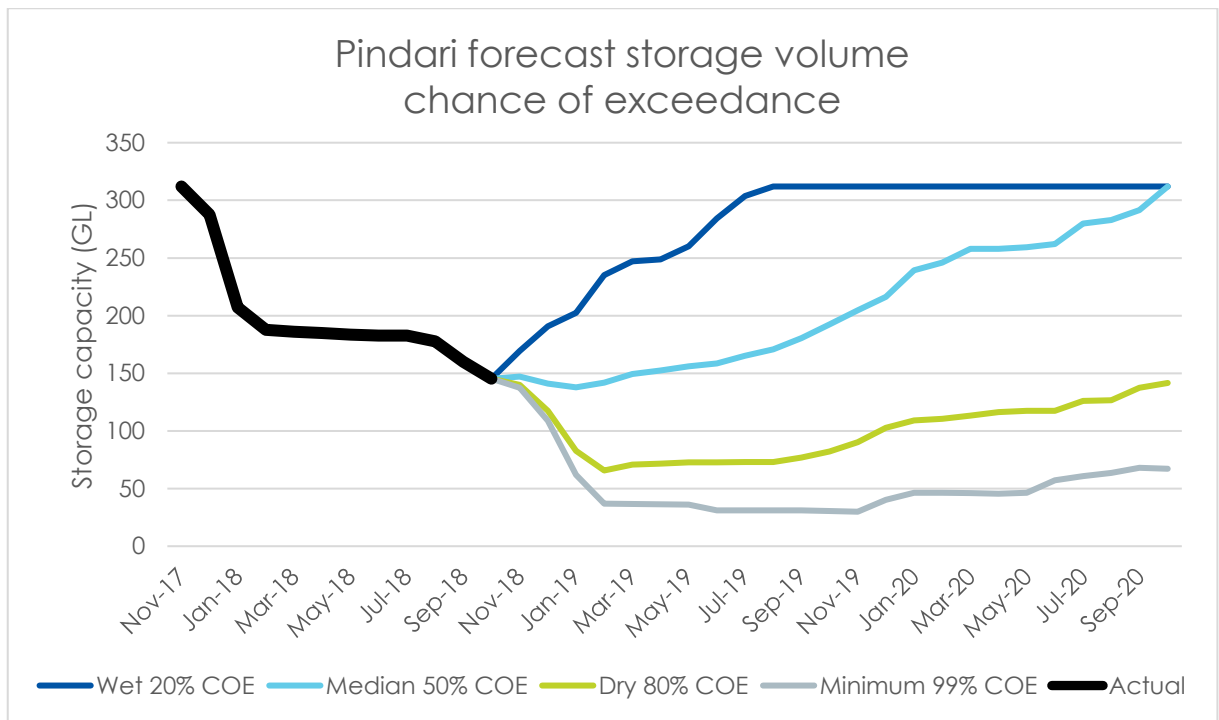
- Pindari Dam is currently releasing around 1,130 ML/day and expected to increase in coming weeks with increasing orders.
- Glenlyon Dam is currently releasing around 500 ML/day and expected to increase in coming weeks with increasing orders.

Operating conditions

- Water deliveries west of Boomi have recommenced and will be grouped together and a shortened release period will be implemented to ensure efficient deliveries during the 2018/19 growing season.
- The Available Water Determinations (AWD) are 100% for towns and high security, while general security A is 32.8% and general security B is zero. Total carryover into 2018-19 is around 53% of general security share components.
- Maximum temperatures during the week are forecast to exceed 35 degrees in some parts of the catchment.
- No significant rainfall was observed during last week. BoM forecast indicates some minor rainfall for the Border rivers catchment later this week.
- Releases from Boggabilla Weir are currently around 1,078 ML/day and may change frequently depending on downstream orders.
- Recent Blue Green Algae (BGA) sampling at Pindari shows that Pindari alert level is changed from red to amber.

Planned supply interruptions:

- No supply interruptions are currently forecast.



6.4 Barwon-Darling River system

River flow status

- River system from Mungindi to Wilcannia is currently at cease to flow condition except Geera.

- Geera is receiving water from Macquarie valley Environmental flows.

Predicted Flow Patterns

- The flows at Geera from Macquarie River environmental flow is expected to continue with the environmental releases to the Macquarie Marshes, at Marebone Weir, forecast to cease on 11 December 2018.
- Flows in the river system from Mungindi to Wilcannia (except Geera) are forecast to remain at cease to flow until there is a significant rainfall event.
- Weir pool levels are expected to continue to fall due to evaporation, town water use and Basic Landholder Rights extractions.

Operating conditions

- Below are the river management zones and access availability using daily average data to 6 am, these are provided as an indication only and access may have changed during the 24-hour period.

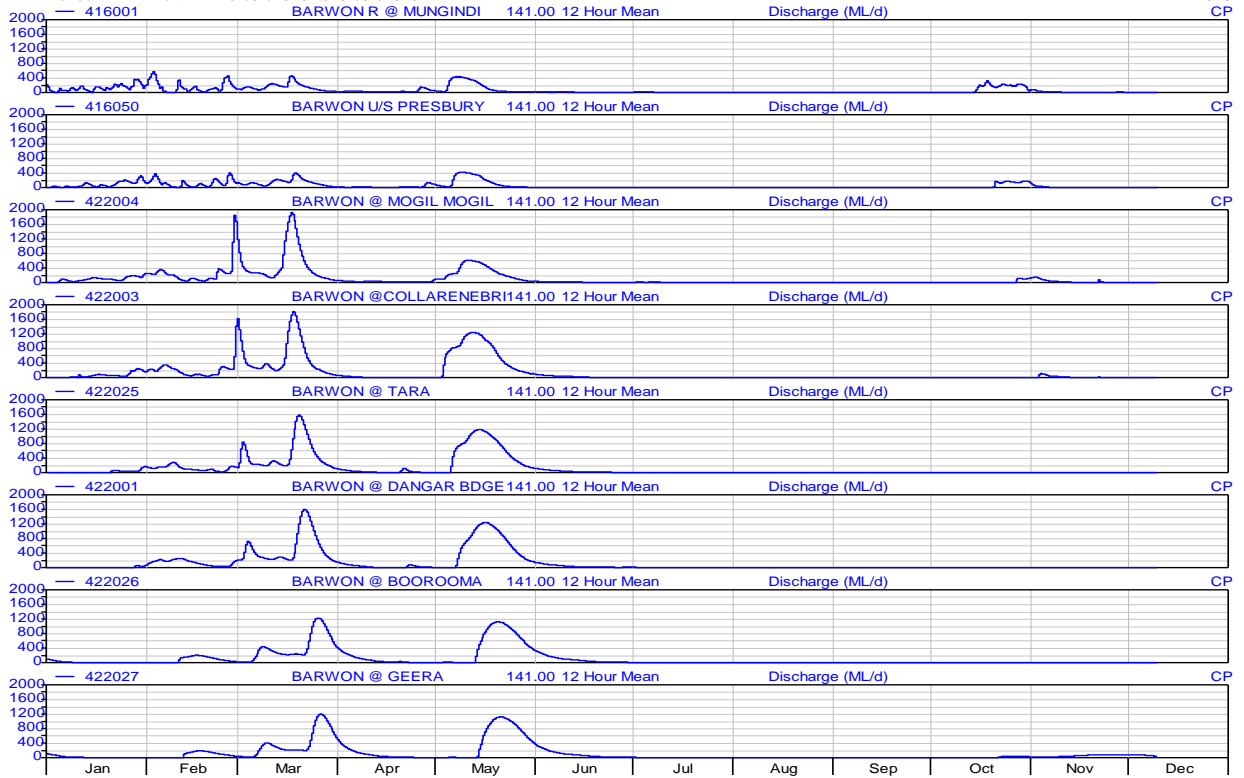
River section	Gauging station	Classification						
		03-12-18	04-12-18	05-12-18	06-12-18	07-12-18	08-12-18	09-12-18
Mungindi to Boomi river conf	416001 - 416050	No access	No access	No access	No access	No access	No access	No access
Boomi river confluence to U/S Mogil Mogil Weir	416050 - 422004	No access	No access	No access	No access	No access	No access	No access
Mogil Mogil Weir	422004	No access	No access	No access	No access	No access	No access	No access
D/S Mogil Mogil to Collarenebri	422,004- 422003	No access	No access	No access	No access	No access	No access	No access
Collarenebri to U/S Walgett Weir	422003 - 422025	No access	No access	No access	No access	No access	No access	No access
Walgett Weir	422001	No access	No access	No access	No access	No access	No access	No access
D/S Walgett to Boorooma	422001- 422026	No access	No access	No access	No access	No access	No access	No access
Geera to Brewarrina	422027- 422002	No access	No access	No access	No access	No access	No access	No access
Brewarrina to Culgoa river junction	422002- 422028	No access	No access	No access	No access	No access	No access	No access
Culgoa river junc to Bourke	425039- 425003	No access	No access	No access	No access	No access	No access	No access
Bourke to Louth	425003- 425004	No access	No access	No access	No access	No access	No access	No access
Louth to Tilpa	425004- 425900	No access	No access	No access	No access	No access	No access	No access
Tilpa to Wilcannia	425900- 425008	No access	No access	No access	No access	No access	No access	No access
Wilcannia to U/S Lake Wetherell	425008	No access	No access	No access	No access	No access	No access	No access

WaterNSW

Period 12 Month 01/01/2018 to 01/01/2019

HYFLOT V133 Output 10/12/2018

2018

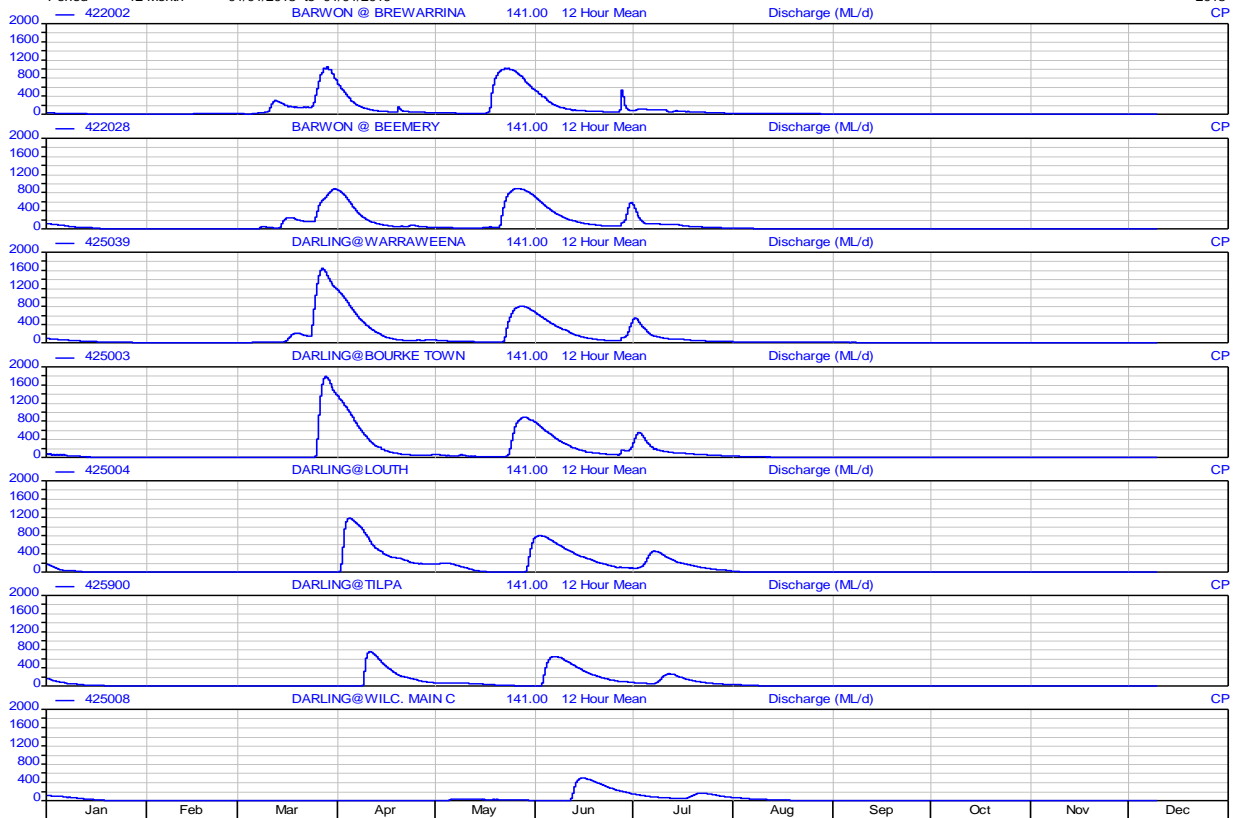


WaterNSW

Period 12 Month 01/01/2018 to 01/01/2019

HYFLOT V133 Output 10/12/2018

2018



7. Coastal valley based operational activities

7.1 Bega river

Storage status

- Brogo Dam: 66%



Predicted release patterns

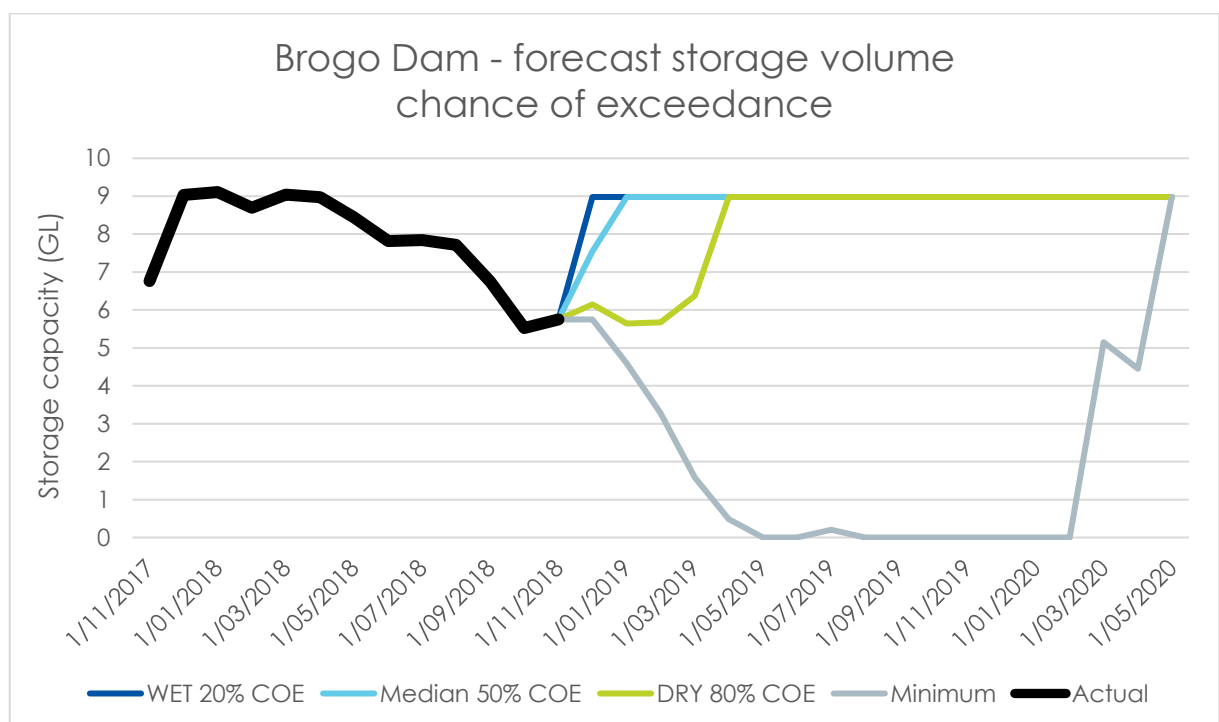
- Releases are currently at 15 ML/day via valves and likely to remain around this level during the week.

Operating conditions

- Regulated conditions are present throughout the system.
- No significant rain has been observed in Bega in the last week.
- Around 20 to 45 mm rain is forecasted in this week.
- Maximum temperatures are forecast to be around mid-20 degrees and minimums around early 10 degrees.
- Recent BGA sampling at Brogo indicates a green alert level is maintained.

Planned supply interruptions:

- Nil



7.2 Hunter valley

Storage status

- Glenbawn Dam: 61%
- Glennies Creek Dam: 62%
- Lostock Dam: 99%



Predicted release patterns

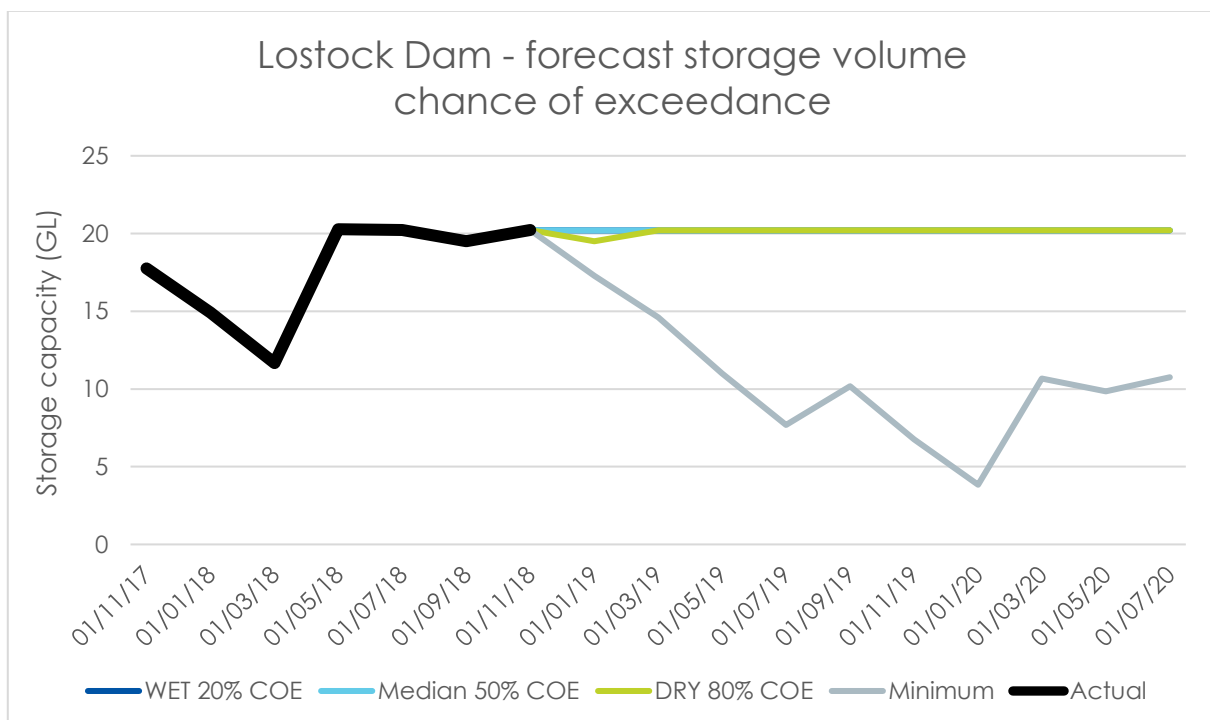
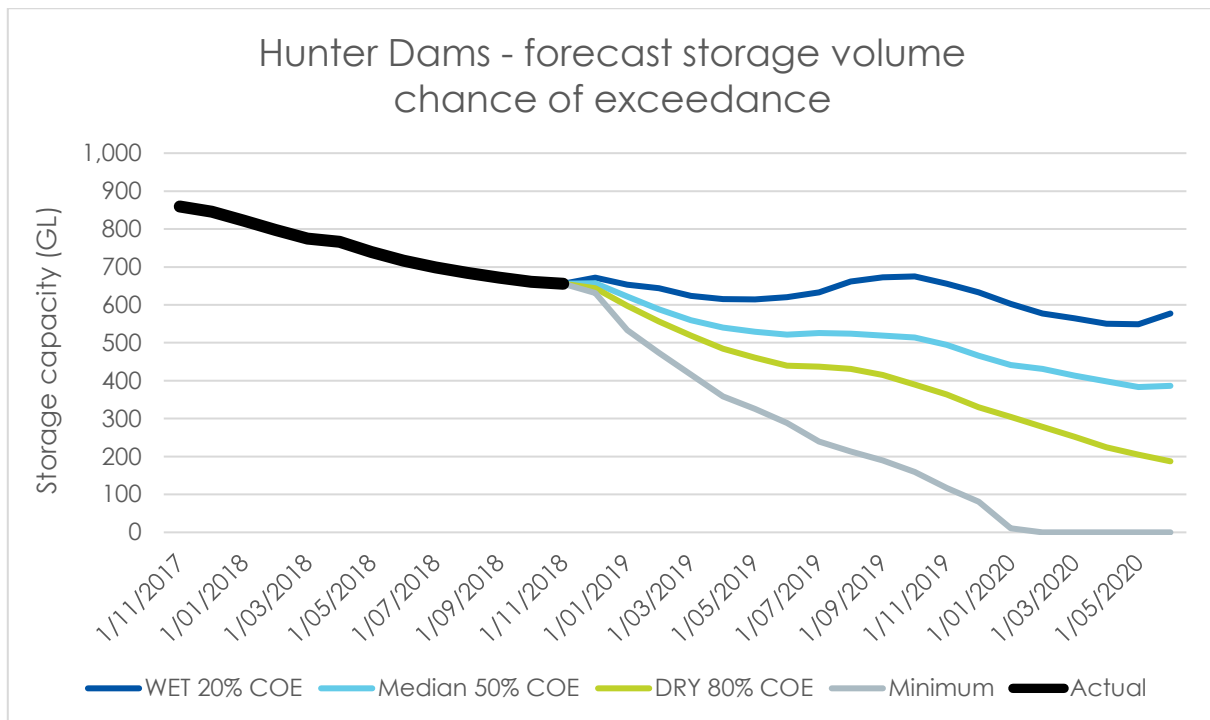
- Glenbawn Dam releases are currently around 370 ML/d and are likely to remain around this rate during the week.
- Glennies Creek Dam releases are currently around 200 ML/d and are likely to remain around this rate during the week.
- Lostock Dam is currently releasing 20 ML/d.

Operating conditions

- No significant rain has been observed in the last week.
- Around 10 to 30 mm rain is forecasted in this week.
- Maximum temperatures are forecast to be around early-30 degrees and minimums around mid-10 degrees.
- Recent BGA sampling at Hunter storages indicates a green alert is maintained at Glenbawn and Glennies Creek and Lostock.

Planned supply interruptions:

- Nil



7.3 Toonumbar Dam

Storage status

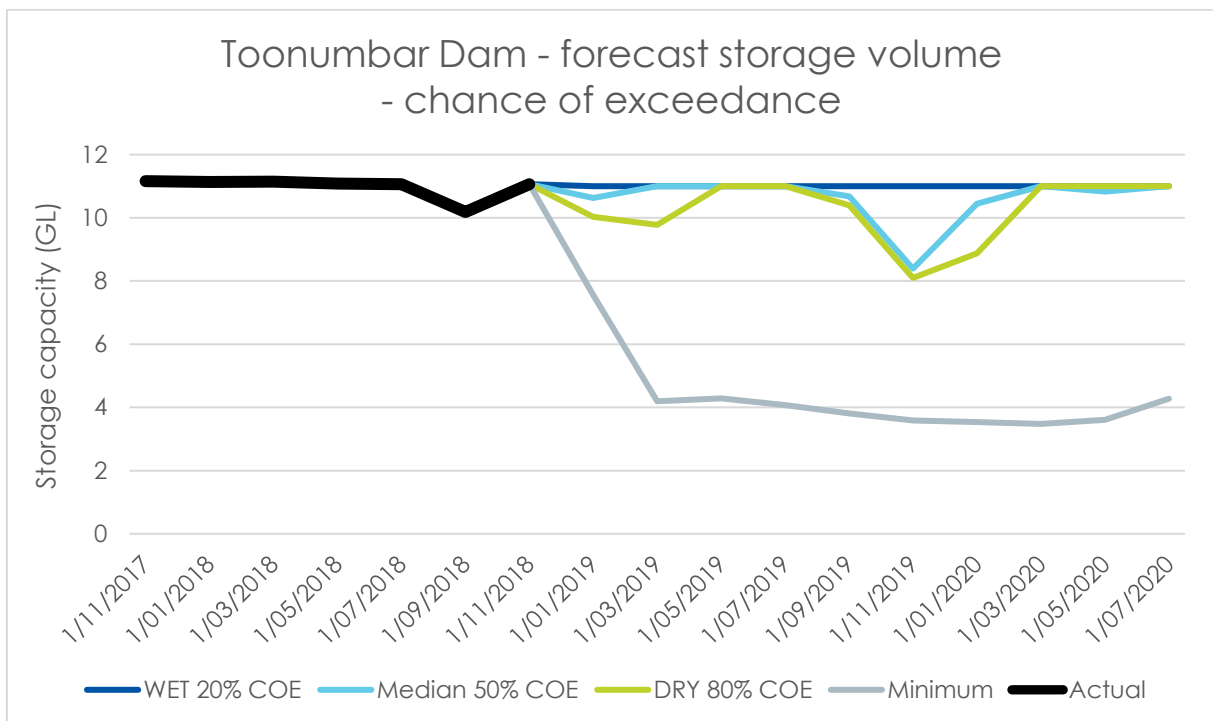
- Toonumbar Dam: 96%

Predicted release patterns

- Toonumbar Dam is currently releasing 18 ML/d.

Operating conditions

- Recent BGA sampling at Toonumbar indicates that a green level is present.



Planned supply interruptions:

- Nil

Rural dam levels

The following table shows the status of water supplies at 10 December 2018.

River Valley	Capacity (GL)	Current Status		Weekly change (GL)	Comments Supply Issues	Likelihood of fill and spill	Allocations for 2018/19		
		% of active capacity	Active (GL)				High Security	Gen. Security	Est Carry- over @ 1/7/18
Border Rivers									
Glenlyon Dam, Stanthorpe	254	36%	92	-4	Regulated releases	<20%	100%	2.7%	53%
Pindari Dam, Inverell	312	37%	116	-7	Regulated releases	<20%	100%	2.7%	53%
Gwydir Valley									
Copeton Dam, Inverell	1346	18%	246	-8	Regulated releases	<5%	100%	0%	22%
Namoi Valley									
Keepit Dam, Gunnedah	419	1%	3	-7	Regulated releases	<20%	100%	0%	19%
Split Rock Dam, Manilla	394	5%	18	-1	Regulated releases	<5%	100%	100%	N/A
Chaffey Dam, Tamworth	98	43%	43	-1	Regulated releases	<50%	100%	38%	N/A
Macquarie Valley									
Burrendong Dam, Wellington	1155	17%	196	-8	Regulated releases, restricted c/over	<20%	100%	0%	52%
Windamere Dam, Mudgee	367	39%	142	-1	Irrigation deliveries	<5%	100%	0%	102%
Lachlan Valley									
Wyangala Dam, Cowra	1216	46%	554	-13	Irrigation releases	<20%	100%	0%	62%
Carcoar Dam, Carcoar	36	43%	16	-0	Regulated releases	10%	100%	0%	67%
Murrumbidgee Valley									
Burrinjuck Dam, Yass	1025	42%	428	-2	Transparent releases	25%	95%	7%	22%
Blowering Dam, Tumut	1604	48%	762	-53	Irrigation & eWater	20%	95%	7%	22%
Murray Valley									
Dartmouth, Mitta Mitta (Vic)	3837	72%	2756	-41	Transfers to Hume	N/A	N/A	N/A	N/A
Hume Dam, Albury	2982	40%	1199	-45	Irrigation & eWater & L Vic	<25%	97%	0%	31%
Lower Darling									
Menindee Lakes, Broken Hill	1684	3%	43	-5	Releases to fill temporary block banks	N/A	100%	0%	15%
Hunter Valley									
Glenbawn Dam, Scone	750	61%	458	-3	Regulated releases	20%	100%	100%	21%
Glennies Ck Dam, Singleton	282	62%	176	-2	Regulated releases	20%	100%	100%	21%
Lostock Dam, Gresford	20	99%	20	-0	Regulated releases	90%	100%	100%	N/A
Coastal Area									
Toonumbar Dam, Kyogle	11	96%	10	-0	Regulated releases	100%	100%	100%	N/A
Broggo Dam, Bega	9	66%	6	0	Regulated releases	80%	100%	30%	N/A
TOTALS	17,798	40.9%	7284	-201					

WaterNSW has water resources in Dartmouth, Hume and Glenlyon Dams. TWS = Town Water Supplies

1 Gigalitre (GL) = 1,000 Megalitres (ML) 1 ML = 1,000,000 litres

More information

Subscribe to our customer information (weekly water availability reports, e-newsletters, etc.) at waternsw.com.au/subscribe.