

## Coliban System Northern



The Coliban System Northern supplies the towns of Bendigo, Axedale, Huntly, Raywood, Sebastian, Heathcote and Tooborac.

The towns can be supplied by the major Coliban Water storages, Lake Eppalock, or the Waranga Western Channel via the Goldfields Superpipe.

Water Summaries are prepared each month to provide current water resource information.

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Legend

- ➡ Potable Water
- ➡ Raw Water
- ★ Non potable Supply



## Available raw water supply

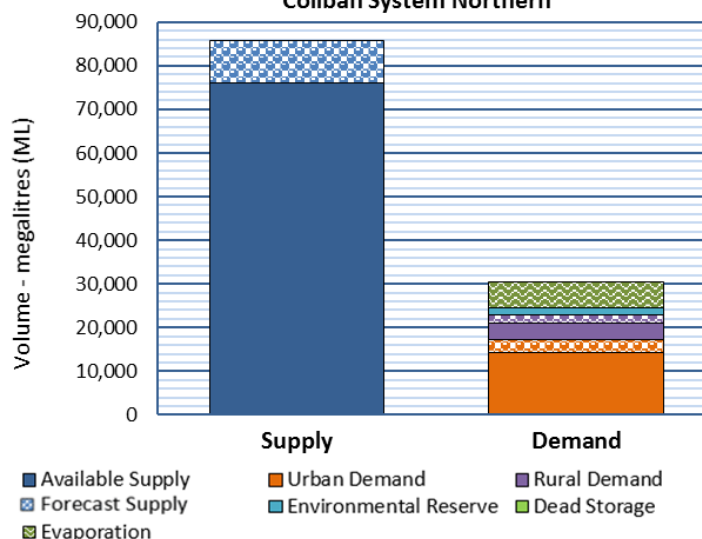
Available allocation <sup>1</sup>	Lake Eppalock (our share)	Our storages <sup>2</sup>	Total available (Megalitres)
16,298 ML	47,273 ML	13,057 ML	76,628 ML

<sup>1</sup> Allocation against Coliban Water's water shares and carryover from previous year, less water spilt or held in spillable water account. Includes seasonal allocation water sold and transfers into and out of this system

<sup>2</sup> Headworks, Sandhurst and Caledonia storages.

The graph below shows the raw water 12-month supply and demand outlook for the Coliban System Northern.

**12 month supply and demand outlook  
Coliban System Northern**



## Further system information

### > Lake Eppalock

We can access up to 17,440 ML per year averaged over three years from our share of Lake Eppalock.

### > Water shares volume

Goulburn - 22,774 ML HRWS

Goulburn - 2,857 ML LRWS

Campaspe - 2,591 ML HRWS

Campaspe - 646 ML LRWS

### > Water shares allocation

Goulburn - 21,180 ML

93% high reliability

0% low reliability

Campaspe - 2,591 ML

100% high reliability

0% low reliability

### > Allocation trade

Seasonal allocation against bulk entitlements and water shares can be traded on the water market into and out of this system.

Transfers may cause sudden changes in available water from month to month. In average years the total allocation is not required to meet demand.

### > Spillable Water Account

Restrictions apply to the holding of allocation in excess of 100% of the entitlement volume.

The Resource Manager (Goulburn-Murray Water) may allow this water to be held in a 'spillable water account' until such time as it is either spilt, or credited to an allocation account.

A low risk of spill was declared in the Goulburn system and the Campaspe System on 10 August 2020.

### > Rural allocation

The 2020/21 rural season opened with 100 per cent allocation.

### > Water restriction outlook

Permanent Water Saving Rules (PWSR) currently apply. The restriction levels are reviewed monthly based on inflows into storages and seasonal allocations.

## Allocation trade & Superpipe pumping

Trade for month <sup>3</sup>	Trade to date <sup>3</sup>	Pumping for month <sup>4</sup>	Pumping to date <sup>4</sup>
14,900 ML	25,309 ML	0 ML	0 ML

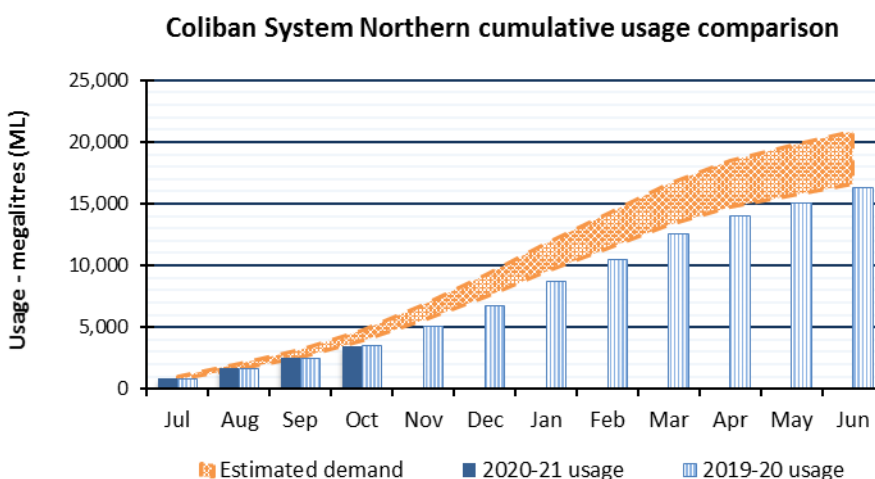
ML = Megalitres

<sup>3</sup> Seasonal allocation water sold during month, year or transferred to a trading account. Includes transfers into and out of this system.

<sup>4</sup> Transferred from the Waranga Western Channel or Lake Eppalock to Sandhurst Reservoir. Excludes pumping to Heathcote.

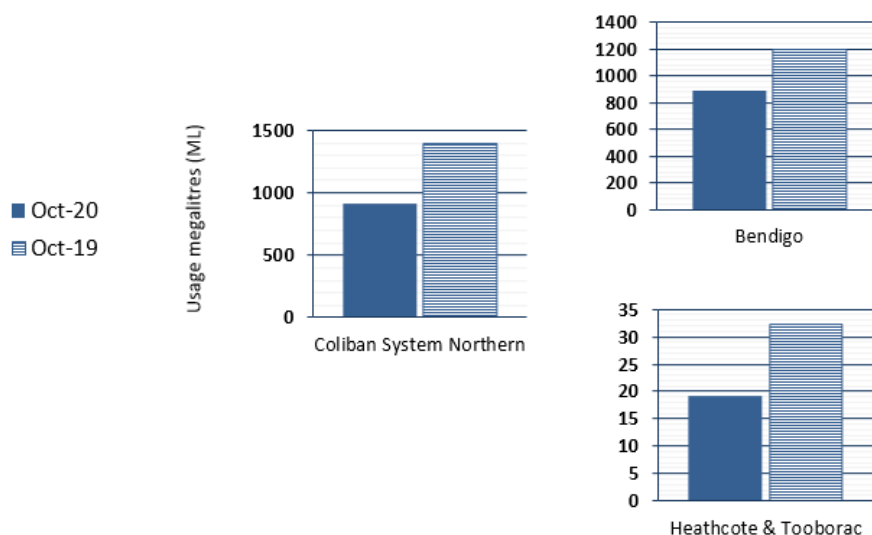
## Demand comparison

The graph below shows 2020-21 cumulative water use for the Coliban System Northern compared with the same period last year and estimated demand. The use and demand include urban, rural and losses.



## Monthly use by towns

The graphs below show this month's water use for the Coliban System Northern, including rural use, and each town supplied by this system, compared with the same period last year.





The Coliban System Southern supplies the towns of Castlemaine, Kyneton, Maldon, Newstead, Malmsbury, Harcourt, Elphinstone, Tylden and Taradale.

Raw water is supplied by our Coliban River catchment storages: Upper Coliban, Lauriston and Malmsbury Reservoirs, located near Kyneton.

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## Coliban System Southern



### Available raw water supply

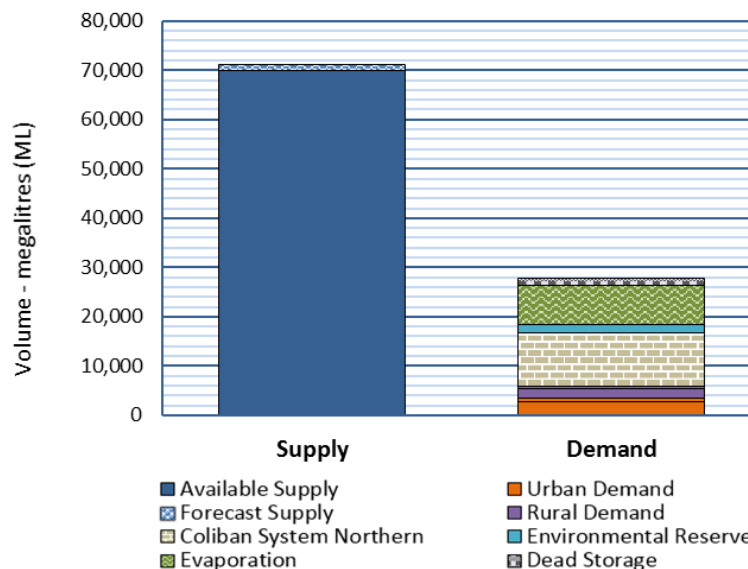
Our storages <sup>1</sup>	Environmental Reserve <sup>2</sup>	Holding basins (McCay and Barkers Creek)	Total available (Megalitres)
68,305 ML	0 ML	1,650 ML	69,955 ML

<sup>1</sup> Our storages can also supply Coliban System Northern.

<sup>2</sup> Stored in Malmsbury Reservoir and only available to meet environmental obligations.

The graph below shows the raw water 12-month supply and demand outlook for the Coliban System Southern.

**12 month supply and demand outlook  
Coliban System Southern**



## Further system information

### > Rainfall

96.1 millimetres of rainfall was recorded at Malsbury Reservoir during August 2020.

### > Rural allocation

The 2020/21 rural season opened with 100 per cent allocation.

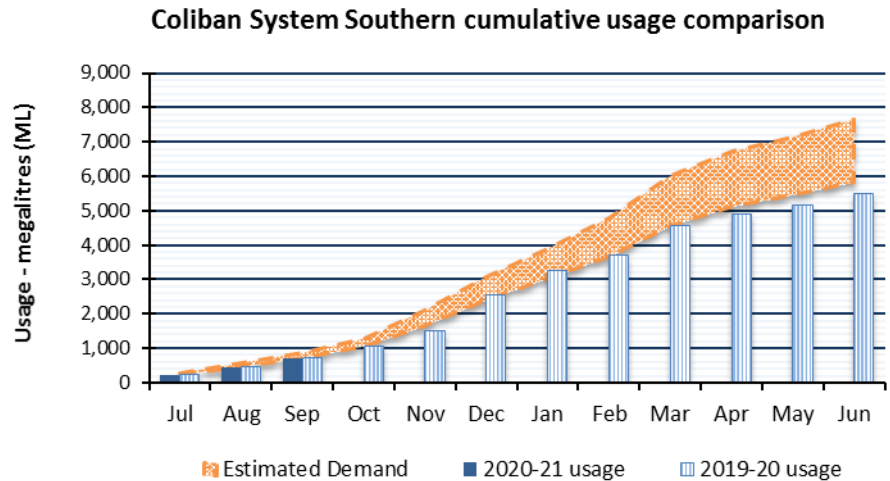
### > Water restriction outlook

Permanent Water Saving Rules (PWSR) currently apply.

The restriction levels are reviewed monthly based on inflows into storages and seasonal allocations.

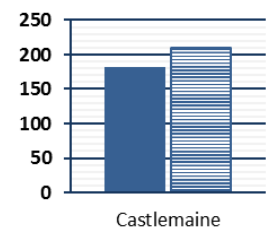
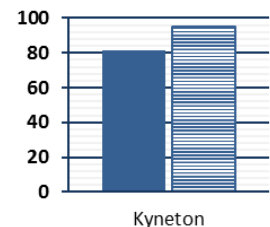
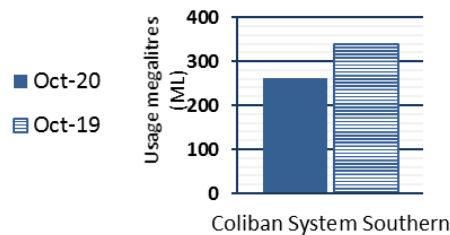
## Demand comparison

The graph below shows 2020-21 cumulative water use for the Coliban System Southern compared with the same period last year and estimated demand. The use and demand include urban, rural and losses.



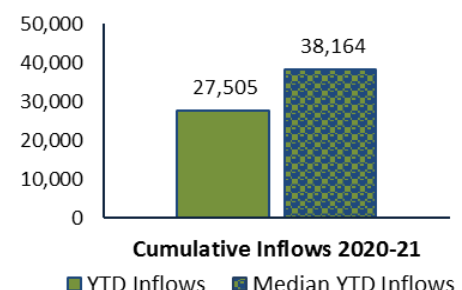
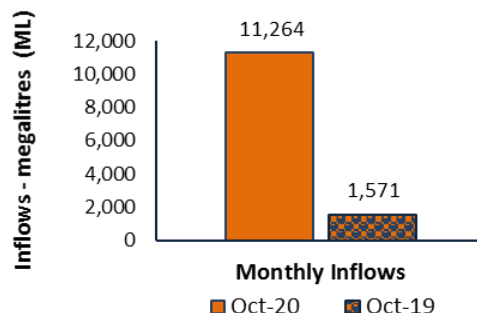
## Monthly use by town

The graphs below show this month's water use for the Coliban System Southern, including rural usage, and the towns supplied by this system, compared with the same period last year.



## Coliban catchment inflows

The graphs below show this month's inflows for our three major catchment storages near Kyneton, compared with the same period last year and 2020-21 cumulative inflows compared to the cumulative median inflow. The median inflow value represents the mid-point of inflow values from 1975 to 2017.





## Campaspe System

October 2020



The Campaspe System supplies the town of Goornong.

*Raw water is supplied from the Campaspe River. Goulburn-Murray Water manages the raw water supply.*

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### Available raw water supply

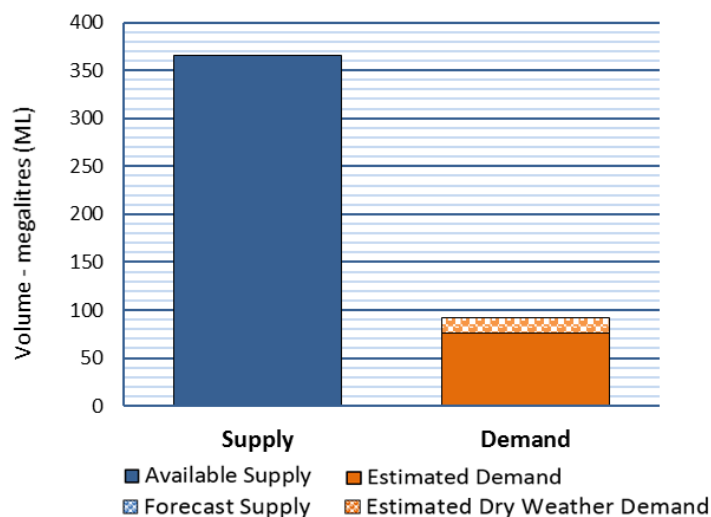
Carryover last year	Allocation to date	Allocation Trade <sup>2</sup>	Spillable water <sup>1</sup>	Use to date	Total Available (Megalitres)
33 ML	349 ML	0 ML	0 ML	16 ML	366 ML

<sup>1</sup> Water spilt and held in the spillable water account.

<sup>2</sup> Seasonal allocation water sold during month, year or transferred to a trading account. Includes transfers into and out of this system.

The graph below shows the raw water 12-month supply and demand outlook for the Campaspe System.

**12 month supply and demand outlook  
Campaspe System**



## Further system information

> **Bulk entitlement volume**  
- 349 ML

> **Allocation volume**  
- 100% - 349 ML

> **Allocation trade**  
Seasonal allocation against bulk entitlements and water shares can be traded on the water market into and out of this system.

> **Spillable Water Account**  
Restrictions apply to the holding of allocation in excess of 100% of the entitlement volume.

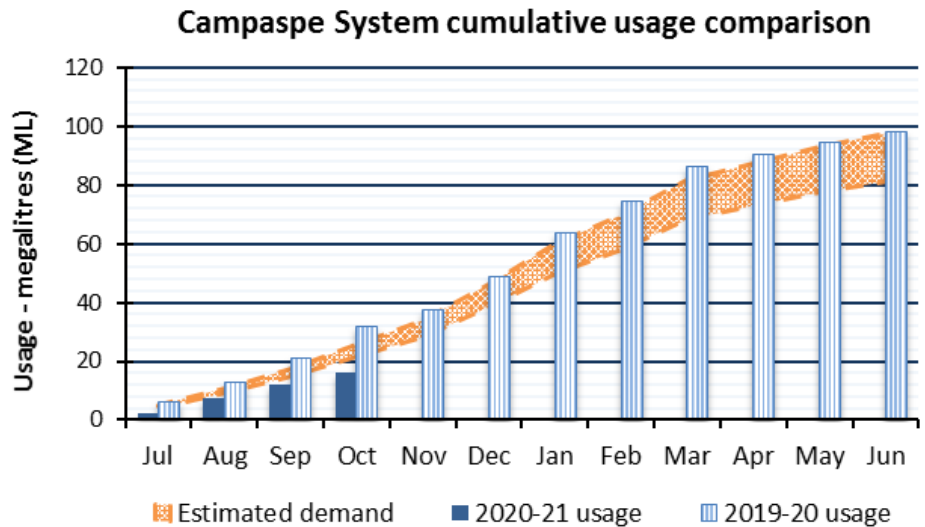
The external Resource Manager (Goulburn-Murray Water) may allow this water to be held in a 'spillable water account' until such time as it is either spilt, or credited to an allocation account.

A low risk of spill was declared in the Campaspe System on 12 October 2020.

> **Water restriction outlook**  
Permanent Water Saving Rules (PWSR) currently apply.  
The restriction levels are based on seasonal allocations and are reviewed monthly.

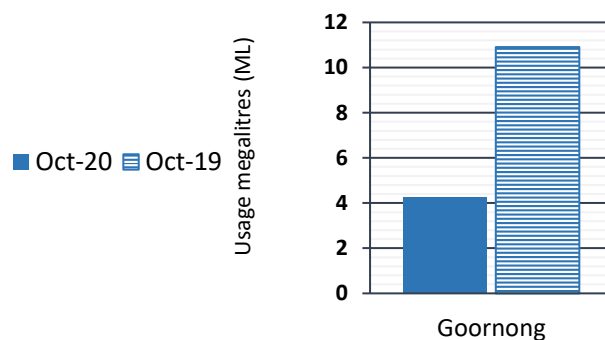
## Demand comparison

The graph below shows 2020-21 cumulative water use for the Campaspe System compared with the same period last year and estimated demand.



## Monthly use by town

The graph below shows this month's water use for Goornong compared with the same period last year.



## Goulburn System

October 2020



The Goulburn System supplies the towns of Rochester, Pyramid Hill, Boort, Lockington, Mitiamo, Serpentine, Dingee, Jarklin, Mysia and Macorna.

Raw water is supplied from the Waranga Western Channel.

Goulburn-Murray Water manages the raw water supply.

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## Available raw water supply

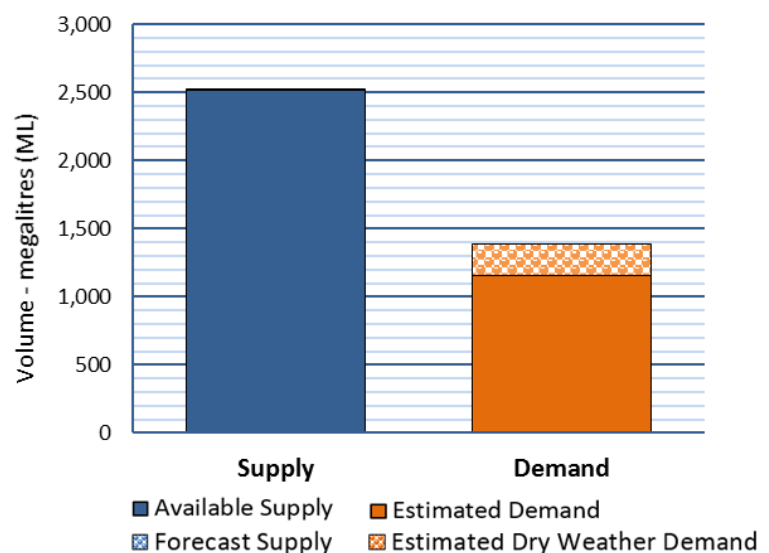
Carryover last year	Allocation to date	Allocation trade	Spillable water <sup>1</sup>	Use to date	Total available (Megalitres)
262 ML	2,476 ML	0 ML	0 ML	225 ML	2,513 ML

<sup>1</sup> Water spilt and held in the spillable water account.

<sup>2</sup> Seasonal Allocation water sold during month, year or transferred to a trading account.

The graph below shows the raw water 12 month supply and demand outlook for the Goulburn System.

**12 month supply and demand outlook  
Goulburn System**



## Further system information

### > Bulk entitlement volume

- 2,420 ML

Our Goulburn System Entitlement has a very high reliability of supply.

### > Water Allowance

- 60 ML

Our water allowance has the same reliability as High Reliability Water Shares.

### > Allocation volume

Bulk Entitlement - 100% - 2,420 ML

Water Allowance - 93% - 56 ML

### > Allocation trade

Seasonal allocations against bulk entitlements and water shares can be traded on the water market into and out of this system. In average years the total allocation is not required to meet demand.

### > Spillable Water Account

Restrictions apply to the holding of allocation in excess of 100% of the entitlement volume. The external Resource Manager (Goulburn-Murray Water) may allow this water to be held in a 'spillable water account' until such time as it is either spilt, or credited to an allocation account.

A low risk of spill was declared in the Goulburn System on 10 August 2020.

### > Water restriction outlook

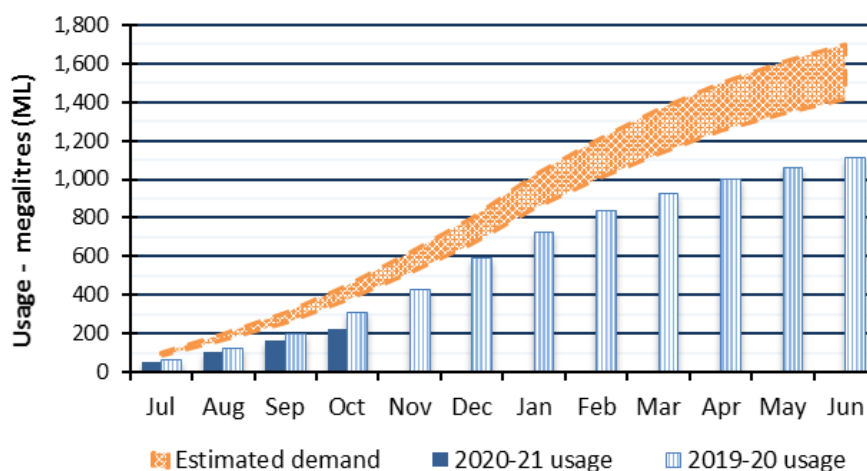
Permanent Water Saving Rules (PWSR) currently apply.

The restriction levels are based on seasonal allocations and are reviewed monthly.

## Demand comparison

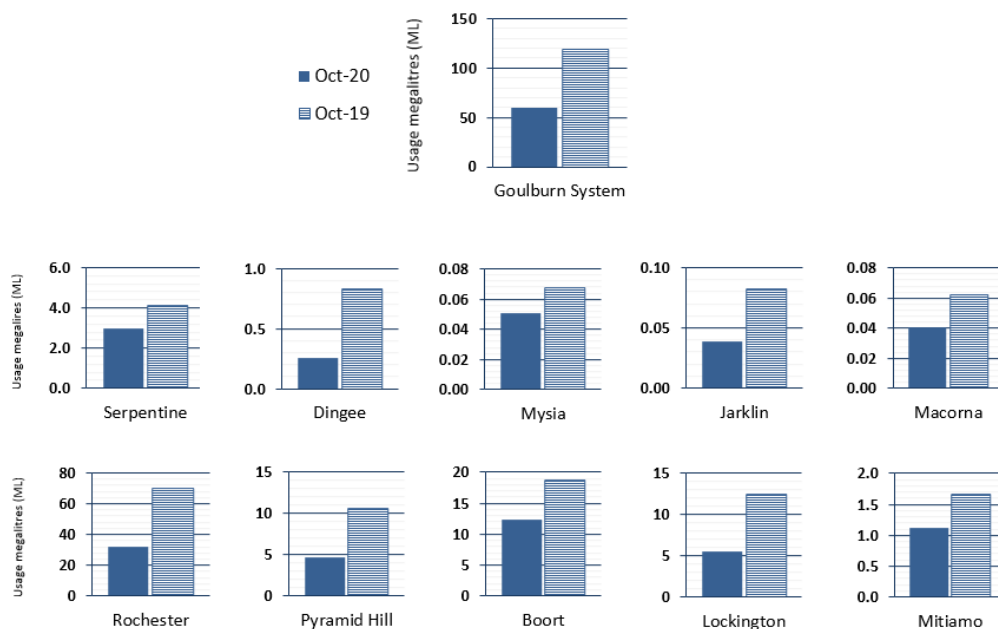
The graph below shows 2020-21 cumulative water use for the Goulburn System compared with the same period last year and estimated demand.

**Goulburn System cumulative usage comparison**



## Monthly use by town

The graphs below show this month's water use for the Goulburn System and each town supplied by this system, compared with the same period last year.







## Groundwater System: Elmore



The Elmore System only supplies the town of Elmore.

Raw water is supplied from two groundwater bores. Goulburn-Murray Water manages the raw water supply.

Elmore is within the Lower Campaspe Valley Groundwater Management Area, Elmore-Rochester Zone.

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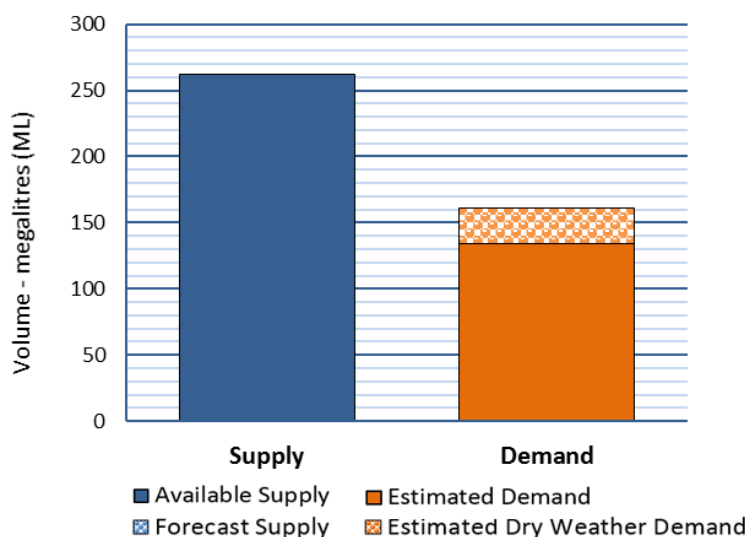
## Available raw water supply

Carryover last year <sup>1</sup>	Allocation to date	Allocation trade	Use to date	Total Available (Megalitres)
71 ML	213 ML	0 ML	22 ML	262 ML

<sup>1</sup> Our groundwater licence allows carryover from the previous year. The maximum carryover is 25% of the entitlement volume.

The graph below shows the raw water 12 month supply and demand outlook for the Elmore System.

12 month supply and demand outlook  
Elmore System



## Further system information

> **Groundwater licence volume**  
- 284 ML

> **Allocation volume**  
- 75% - 213 ML

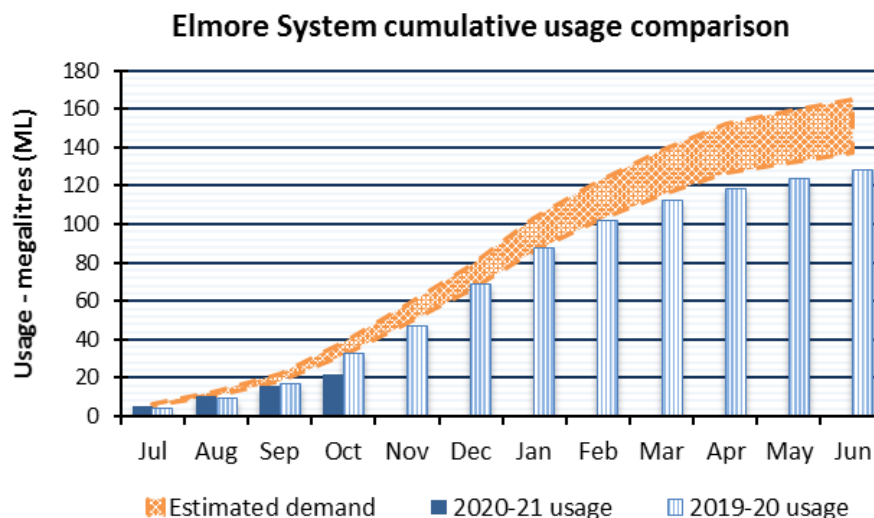
### > **Water restriction outlook**

Permanent Water Saving Rules (PWSR) currently apply.

The restriction levels are based on seasonal allocations and are reviewed monthly.

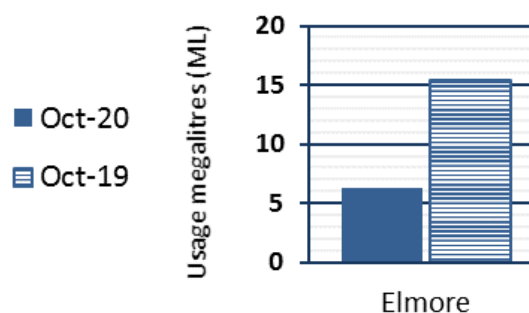
## Demand comparison

The graph below shows 2020-21 cumulative water use for the Elmore System compared with the same period last year and estimated demand.



## Monthly use by town

The graph below show this month's water use for the Elmore System compared with the same period last year.





The Trentham System only supplies the town of Trentham.

Raw water is supplied from two sources: a natural spring that fills two storages, and a groundwater licence of 103 megalitres which can supplement the natural spring when needed.

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## Groundwater System: Trentham

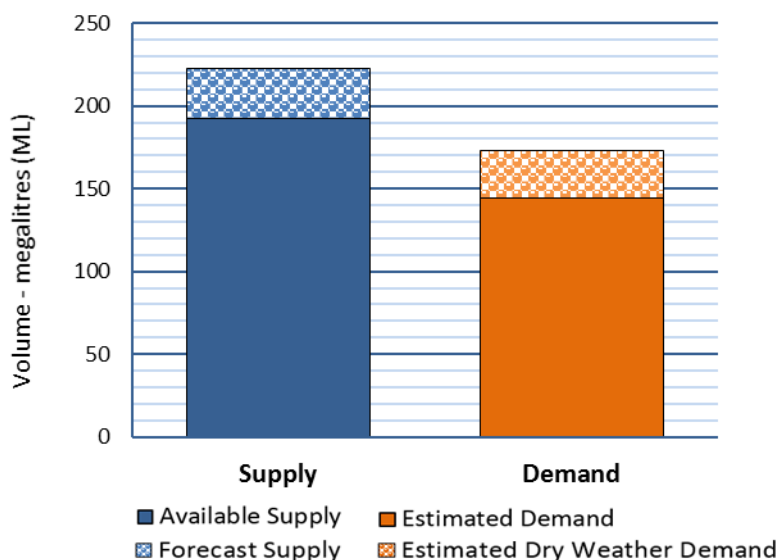


### Available raw water supply

Groundwater licence	Our storage volume this month	Use to date	Total Available (Megalitres)
103 ML	89 ML	38 ML	192 ML

The graph below shows the raw water 12 month supply and demand outlook for the Trentham System.

12 month supply and demand outlook  
Trentham System



## Further system information

### > Bulk entitlement volume

- 120 ML

### > Groundwater licence volume

- 103 ML

### > Allocation volume

Bulk Entitlement - 100% - 120 ML

Groundwater - 100% - 103 ML

The bulk entitlement allows up to 120 megalitres per year averaged over a three-year period. The maximum rate of extraction permitted is 1.2 megalitres per day.

The estimated annual spring flow is 84-145 megalitres depending on preceding seasonal conditions, i.e. dry or wet respectively.

The spring flows into two surface storages that have a combined volume of 90.5 megalitres.

Groundwater can supplement the natural spring when needed.

Trentham is within the Central Victorian Mineral Springs Groundwater Management Area, Coliban Zone.

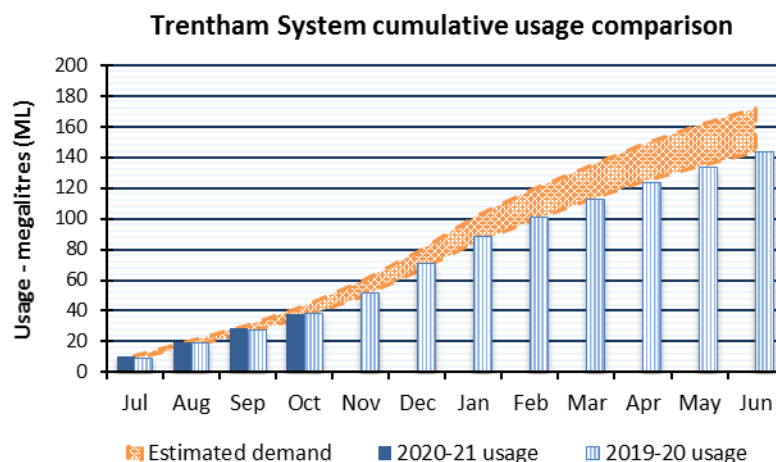
### > Water restriction outlook

Permanent Water Saving Rules (PWSR) currently apply.

The restriction levels are based on seasonal allocations and are reviewed monthly.

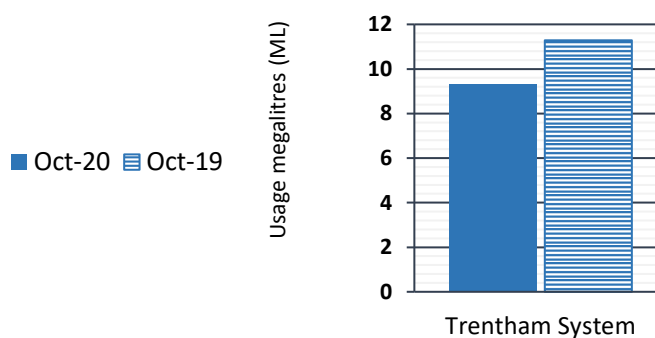
## Demand comparison

The graph below shows 2020-21 cumulative water use for the Trentham System compared with the same period last year and estimated demand.



## Monthly use by town

The graph below show this month's water use for the Trentham System compared with the same period last year.





## Loddon Wimmera System

October 2020



The Loddon Wimmera System supplies Borung and Wychitella from the Wimmera Mallee Pipeline.

Korong Vale, Wedderburn, Bridgewater and Inglewood are supplied from the Wimmera Mallee Pipeline and South West Loddon Pipeline.

Laanecoorie, Tarnagulla, Dunolly, Bealiba are currently supplied from the Loddon River.

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### Available raw water supply

Carryover last year	Allocation to date	Spillable water <sup>1</sup>	Allocation Trade <sup>2</sup>	Use to date <sup>3</sup>	Total Available (Megalitres)
230 ML	1,016 ML	0 ML	0 ML	139 ML	1,107 ML

<sup>1</sup> Water spilt and held in the spillable water account.

<sup>2</sup> Seasonal allocation water sold during month, year or transferred to a trading account.

<sup>3</sup> Includes combined usage in the Loddon and Wimmera Systems

The graph on the next page shows the raw water 12 month supply and demand outlook for the Loddon Wimmera System.

## Further system information

### > Bulk entitlement volume

- 300 ML Wimmera BE
- 820 ML Loddon BE

### > Allocation volume

Allocations under the Wimmera Bulk Entitlement are based on storage levels and the available water calculation.

- Wimmera BE - 47% - 144 ML

The allocation volume under the Loddon Bulk Entitlement includes the carryover from the previous year.

The maximum carryover is 50% of the entitlement volume.

- Carryover volume 58 ML
- Allocation 93%
- Volume received 762 ML

### > Off-season water allowance

- 110 ML

## Allocation trade

Seasonal allocation against bulk entitlements and water shares can be traded on the water market.

### > Spillable Water Account

For the Wimmera BE, volume held in excess of 100% of entitlement is held by the Resource Manager (GWMW) in a spillable water account until such time as it is either spilt, or a low risk of spill is declared whereby it is then available for use.

A low of spill was declared on 3 July 2020.

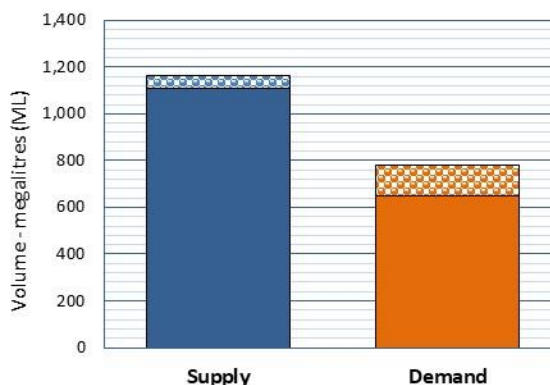
For the Loddon BE there is no spillable water account and the volume that may be held is limited to 100% of the BE.

### > Water restriction outlook

Permanent Water Saving Rules (PWSR) currently apply.

The restriction levels are based on seasonal allocations and are reviewed monthly.

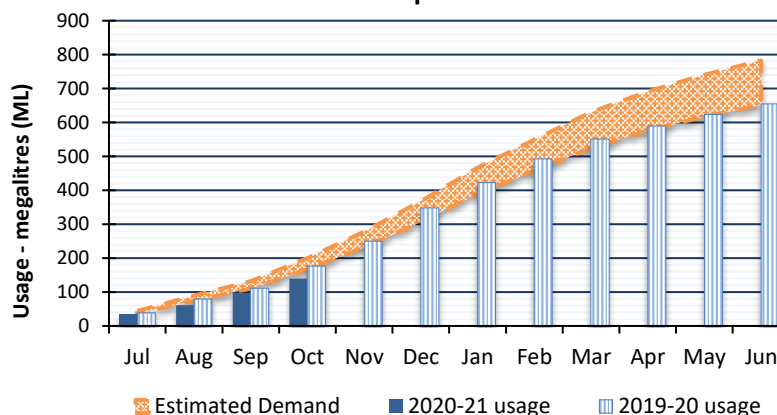
**12 month supply and demand outlook  
Loddon Wimmera System**



## Demand comparison

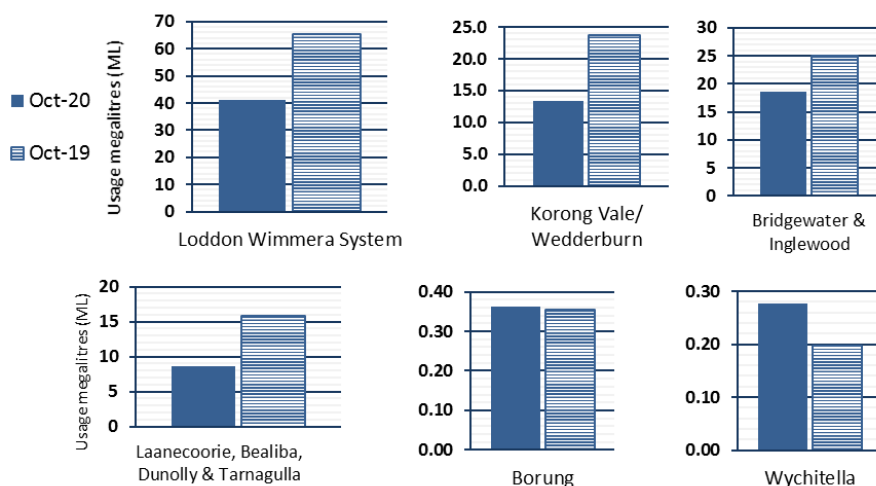
The graph below shows 2020-21 cumulative water use for the Loddon Wimmera System compared with the same period last year and estimated demand.

**Loddon Wimmera System cumulative usage  
comparison**



## Monthly use by town

The graphs below show this month's water use for each town, compared with the same period last year.



## Murray System

October 2020



The Murray System supplies the towns of Cohuna, Echuca, Gunbower and Leitchville.

Raw water is supplied from the Murray River. Goulburn-Murray Water manages the raw water supply.

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Legend



## Available raw water supply

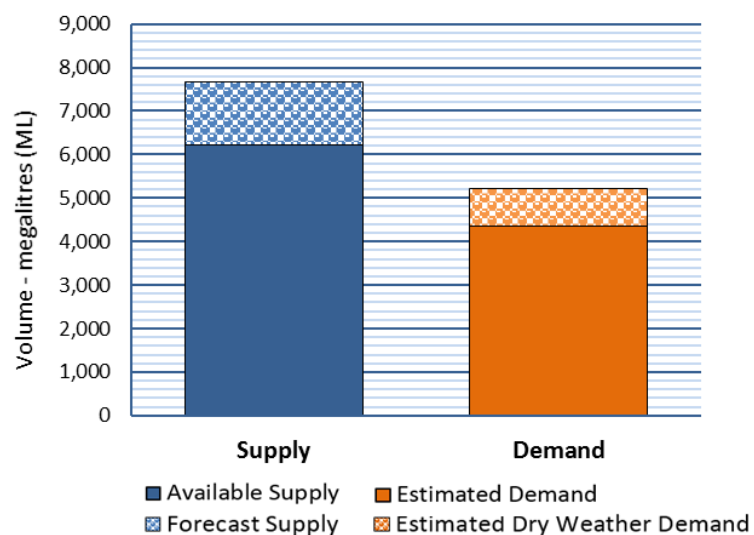
Carryover last year	Allocation to date	Allocation Trade	Spillable water <sup>1</sup>	Use to date	Total Available <sup>2</sup> (Megalitres)
4,251 ML	4,882 ML	0 ML	1,693 ML	1,221 ML	6,218 ML

<sup>1</sup> Water spilt and held in the spillable water account.

<sup>2</sup> Allocation in other accounts can be transferred in if necessary.

The graph below shows the raw water 12 month supply and demand outlook for the Murray System.

**12 month supply and demand outlook  
Murray System**



## Further system information

### > Bulk entitlement volume

- 6,285 ML

### > Water share volume

- 55 ML high reliability

- 722 ML low reliability

### > Allocation volume

#### Bulk entitlement

77% - 4,839 ML

#### Water shares

77% - 42 ML high reliability

0% - 0 ML low reliability

### > Allocation trade

Seasonal allocation against bulk entitlements and water shares can be traded on the water market into and out of this system. In average years the total allocation is not required to meet demand.

### > Spillable Water Account

Restrictions apply to the holding of allocation in excess of 100% of the entitlement volume.

The external Resource Manager (Goulburn-Murray Water) may allow this water to be held in a 'spillable water account' until such time as it is either spilt, or credited to an allocation account.

A 20 % risk of spill was current in the Murray System as of 12 October 2020.

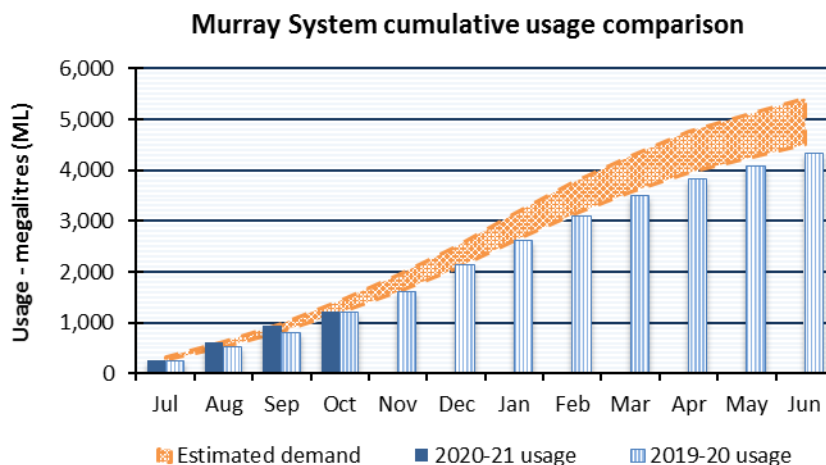
### > Water restriction outlook

Permanent Water Saving Rules (PWSR) currently apply.

The restriction levels are based on seasonal allocations and are reviewed monthly.

## Demand comparison

The graph below shows 2020-21 cumulative water use for the Murray System compared with the same period last year and estimated demand.



## Monthly use by town

The graphs below show this month's water use for the Murray System and each town supplied by this system, compared with the same period last year.

