

Coliban System (Northern)



Coliban System (Northern) consists of: Bendigo, Axedale, Heathcote, Raywood, Sebastian and Tooborac.

These customers can be supplied by the main Coliban catchment storages, 18% share of Lake Eppalock and the Goldfields Superpipe.

All of our supply systems have different sources of water and supply constraints. Please ensure you read the update relevant to your town.

We welcome your feedback on these updates to ensure we are providing information that is relevant and useful.

Send your suggestions and feedback to our postal address:

*37- 45 Bridge Street, Bendigo
3550 or e-mail to:
communications@coliban.com.au*

What we have available in storage

| Goulburn System Water | Lake Eppalock (our share) | Campaspe System Water [^] | Our storages [*] | Total available (Megalitres) |
|-----------------------|---------------------------|------------------------------------|---------------------------|------------------------------|
| 23,567 ML | 54,837 ML | 3,237 ML | 2,071 ML | 83,712 ML |

^{*} Sandhurst and Caledonia storages. Additional water in Coliban Headworks Storages is reported in the Coliban System (Southern) Outlook and can also supply Coliban System (Northern).

Additional water source information

Water entitlement

| Water component [^] | Entitlement | Allocation date | Allocation percentage | Allocation volume |
|------------------------------|-------------|-----------------|-----------------------|-------------------|
| Goulburn HR | 22,709 ML | 1 Oct 2011 | 100% | 22,709 ML |
| Goulburn LR | 2,858 ML | 1 Oct 2011 | 0% | 0 ML |
| Campaspe HR | 2,591 ML | 1 Jul 2011 | 100% | 2,591 ML |
| Campaspe LR | 646 ML | 1 Oct 2011 | 100% | 646 ML |

[^] Watershares held by Coliban Water. HR = High Reliability, LR = Low Reliability

| 2010/11 Net carryover | Allocation volume ^{**} | Less water already spilt | Less SWA balance | Less total transfers | Avail Goulburn Water [#] |
|-----------------------|---------------------------------|--------------------------|------------------|----------------------|-----------------------------------|
| 33,431 ML | 22,709 ML | 6,903 ML | 23,671 ML | 2,000 ML | 23,567 ML |

| 2010/11 Net carryover | Allocation volume ^{**} | Less water already spilt | Less SWA balance | Less total transfers | Avail Campaspe Water [#] |
|-----------------------|---------------------------------|--------------------------|------------------|----------------------|-----------------------------------|
| 1,829 ML | 3,237 ML | 1,134 ML | 694 ML | 0 ML | 3,237 ML |

^{**} High Reliability plus Low Reliability allocation volumes from the above table.

[#] Available water is Carryover plus Allocation minus water spilt minus balance held in SWAs. Declaration of Very Low Risk of Spill has not yet been made by the storage manager.

Further system information

> All Coliban Northern System townships (except Raywood and Sebastian) moved to Permanent Water Saving Rules from 15 January 2011.

> Raywood and Sebastian remain on Stage 3 water restrictions as water carting continues until the completion of the pipeline connection to Bendigo in 2012.

> Lake Eppalock received 24 mm of rain for the month of October and inflows to Coliban Water's share of Lake Eppalock were 2,787 ML.

> The water quality of Lake Eppalock remains poor with blue-green algae problems. Water for Coliban Northern System is currently being provided from the Coliban Headworks Storages (Coliban Southern System).

Information in this update is provided as a guide only. Coliban Water reserves the right to alter or change information. 16/11/2011

Temporary water trades & superpipe pumping

| System | Water trade in month | Water trade year to date | Pumping in month *** | Pumping year to date | Total transfer year to date |
|----------|----------------------|--------------------------|----------------------|----------------------|-----------------------------|
| Goulburn | 0 ML ^ | 2,000 ML ^ | 0 ML | 0 ML | 2,000 ML |
| Campaspe | 0 ML | 0 ML | 0 ML | 0 ML | 0 ML |

^ Temporary water sold during month or year.

*** Transferred via the Goldfields Superpipe to either Lake Eppalock and/or Sandhurst Reservoir.

What we need for customer supply

| Residential customers | Business, Industry and Rural | Operational Water^^ | Total ML (Megalitres) |
|-----------------------|------------------------------|---------------------|-----------------------|
| 10,800 ML | 9,000 ML | 8,000 ML | 27,800 ML |

Water needs for 12 months based on Permanent Water Saving Rules and 100% rural allocation.

For all current water restriction levels refer to - www.coliban.com.au

^^ Operational water includes all losses e.g. evaporation, system losses, seepage and treatment losses.

Water restrictions and rural season outlook

The rural system seasonal allocation announcement for 2011/12 was made on 15 September 2011. The seasonal allocation is 100%.

| Current | Water restriction outlook | | Rural outlook |
|---------|---------------------------|----------|---------------|
| PWSR | 3 Months | 6 Months | 3 Months |
| Wet | PWSR | PWSR | 100% |
| Average | PWSR | PWSR | 100% |
| Dry | PWSR | PWSR | 100% |

The outlook is based on inflows to storages as experienced over the past 10 years. Currently we are in average to dry inflow conditions.

Wet Inflow conditions that have 1 in 10 chance of being exceeded

Average Inflow conditions that have 5 in 10 chance of being exceeded

Dry Inflow conditions that have 9 in 10 chance of being exceeded

Consumption - actual versus forecast

The graph below indicates the actual demand in the Coliban System (Northern) compared with the forecast demand (for 100% of long-term average (LTA) rainfall).

| Monthly actual demand | Demand compared to forecast | Total consumption for 2011/12 | Total demand compared to forecast |
|-----------------------|-----------------------------|-------------------------------|-----------------------------------|
| 754 ML | 554 ML lower | 2,769 ML | 1,188 ML lower |

