

Appendix I - WIMMERA SYSTEM



Figure 1: Wimmera System showing water sources.

System Overview

The Wimmera System services 590 residential connections and 75 non-residential connections as at 30 June 2018.

The Wimmera System comprises one potable water supply system which includes Korong Vale and Wedderburn, and two non-potable towns: Wychitella and Borung. Raw water is delivered via the Wimmera-Mallee Pipeline system under a 300 ML Bulk Water Entitlement (BE).

For Korong Vale and Wedderburn, raw water is delivered to the lined and covered storages at Korong Vale and treated there. The Korong Vale Water Treatment Plant has a capacity of 3.6 ML/day. For Borung and Wychitella, the raw water is delivered to the 100 KL tanks. The water is not treated and this system is not a drinking water supply.

Water Resources and Demand

Wimmera being a single source supply system and totally dependent on the allocation set by a third party (GWMWater), is one of the least reliable systems.

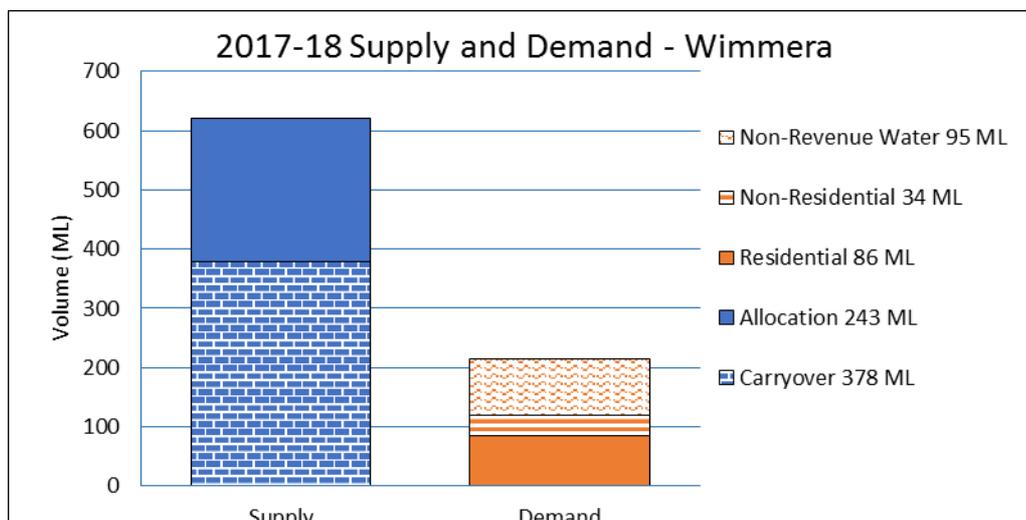


Figure 2: 2017-18 Supply and Demand for the Wimmera System.

In 2017-18 the raw water demand for the Wimmera System was 231 ML, which was less than the estimated demand range of 234 to 280 ML.

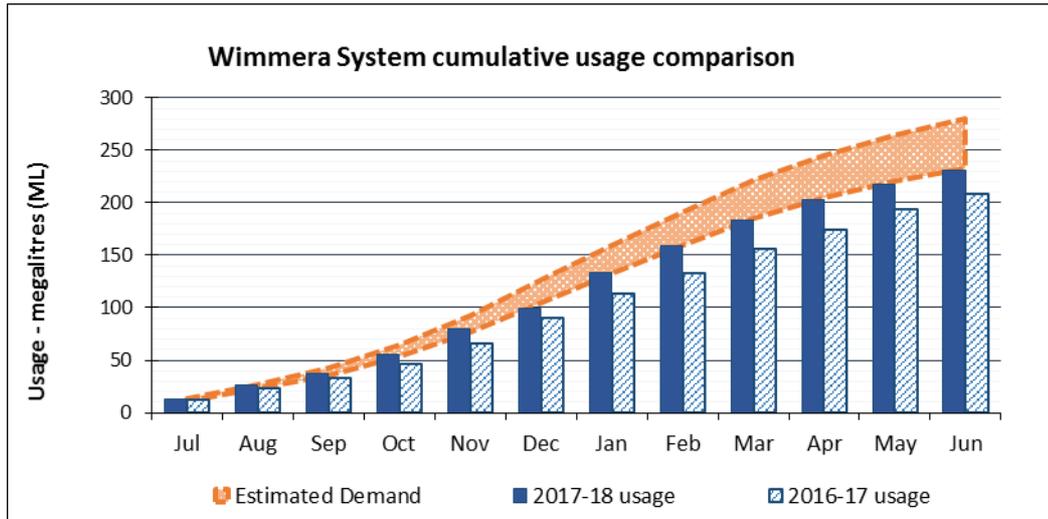


Figure 3: 2017-18 cumulative water usage for the Wimmera System compared with the same period last year and estimated demand.

Resource Status

With the volume carried over from 2017-18 and current allocations at 40%, restrictions are highly unlikely for the next 12 months.

Table 1: Supply and demand.

System	Primary Supply Secondary Supply	Supply ¹ 1 October 2018	Demand 'dry weather'	Reserve Status
Wimmera	Wimmera Mallee Pipeline	453 ML	279 ML	>12 months

Note 1: Allocation received to date and carryover from 2017-18.

The decline in rainfall, and consequential decline in inflows and allocations across Victoria left water corporations with few choices to reduce demand without resorting to imposing water restrictions. The Wimmera System was no exception, with restrictions imposed for a total of 138 months. Stage 4 restrictions were in place from October 2006 for 47 consecutive months.

Another consequence of the rainfall decline and variation was reduced allocations. This resulted in a low of 63% in 2006-07. It should also be noted that as recently as 2015-16 allocations were 16%.

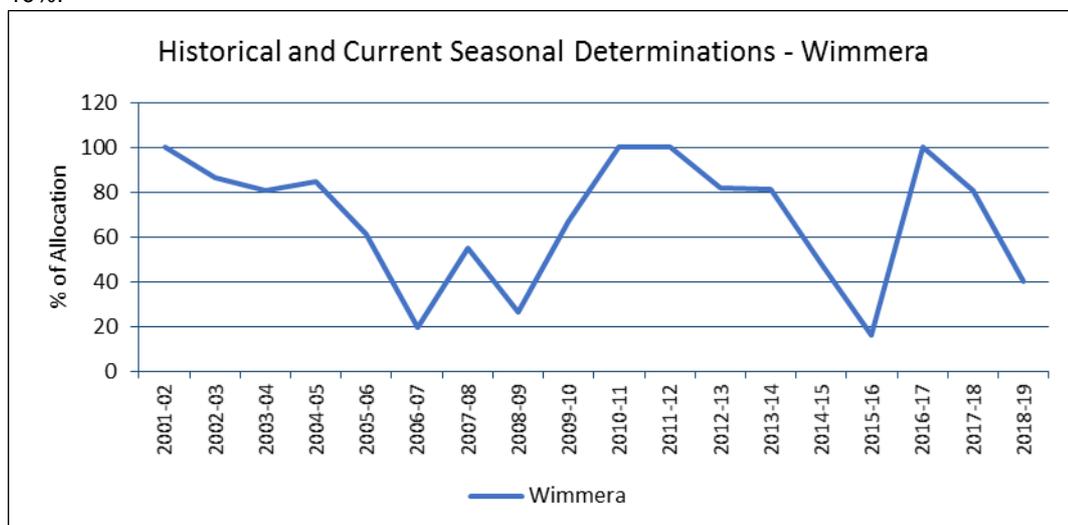


Figure 4: Historical and current seasonal determinations for the Wimmera System.

Forward Outlook

The 2018-19 estimated dry weather demand for the Wimmera System is 279 ML. With the volume carried over from 2017-18 and 40% allocation, the Wimmera System has adequate reserves to meet demand for the next 12 months.

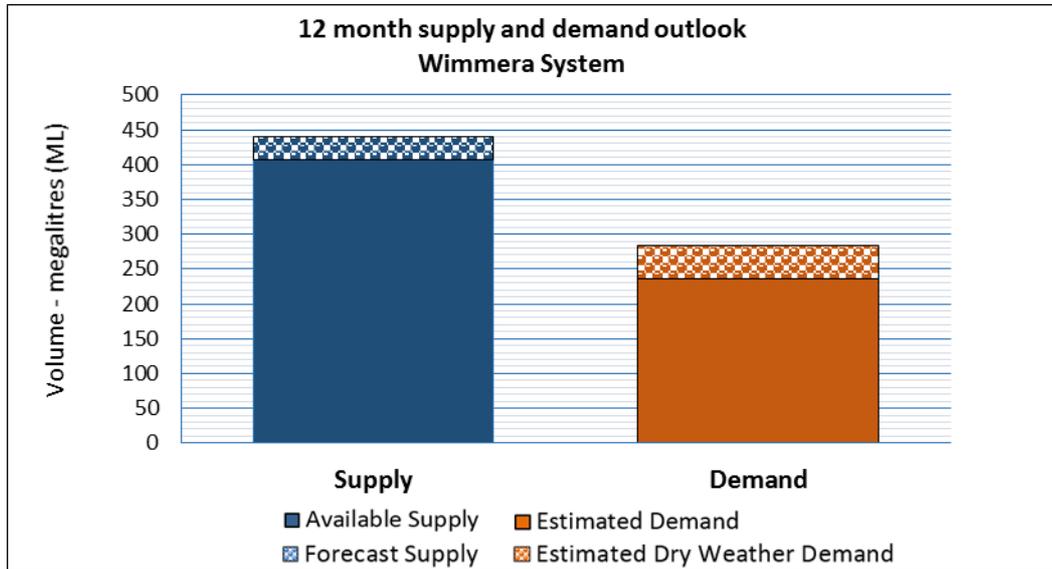


Figure 5: 12 month raw water supply and demand outlook for the Wimmera System, October 2018.

Actions

Connect Korong Vale – Wedderburn to Waranga Western Channel: For Wimmera System, the connection of Korong Vale – Wedderburn to Waranga Western Channel will be under construction as part of a broader water security project in the south of Loddon Shire. Since this option provides access to the additional water resource, it brings greater water security to the Korong Vale System in times of severe water shortage. Coliban Water’s only capital expenditure is to upgrade the WTP to treat a different water quality from the Waranga Western Channel

Coliban Water has continued to engage with stakeholders and customers in relation to the Urban Water Strategy (UWS). Detailed analysis on each system will commence during the latter part of 2018-19.