

Water production and usage - January 2022

Responsible Officer: Group Manager Operations (Adam Nesbitt)

Recommendation

That the report be received and noted.

Background

The table below is the January 2022 bulk water sales to the constituent councils in kilolitres compared to the corresponding January sales for 2021 and 2020.

Council	Jan 2020 (kL)	Jan 2021 (kL)	Jan 2022 (kL)	% of Total Sales
Ballina Shire Council	360,405	329,897	313,013	37.7%
Byron Shire Council	237,933	234,381	222,702	26.8%
Lismore City Council	258,627	253,288	243,023	29.3%
Richmond Valley Council	57,332	55,405	51,616	6.2%
Total monthly consumption constituent councils	914,297	872,971	830,354	

Water usage - constituent councils

Figure 1 shows combined monthly bulk water consumption and rainfall at Rocky Creek Dam for the previous two years.

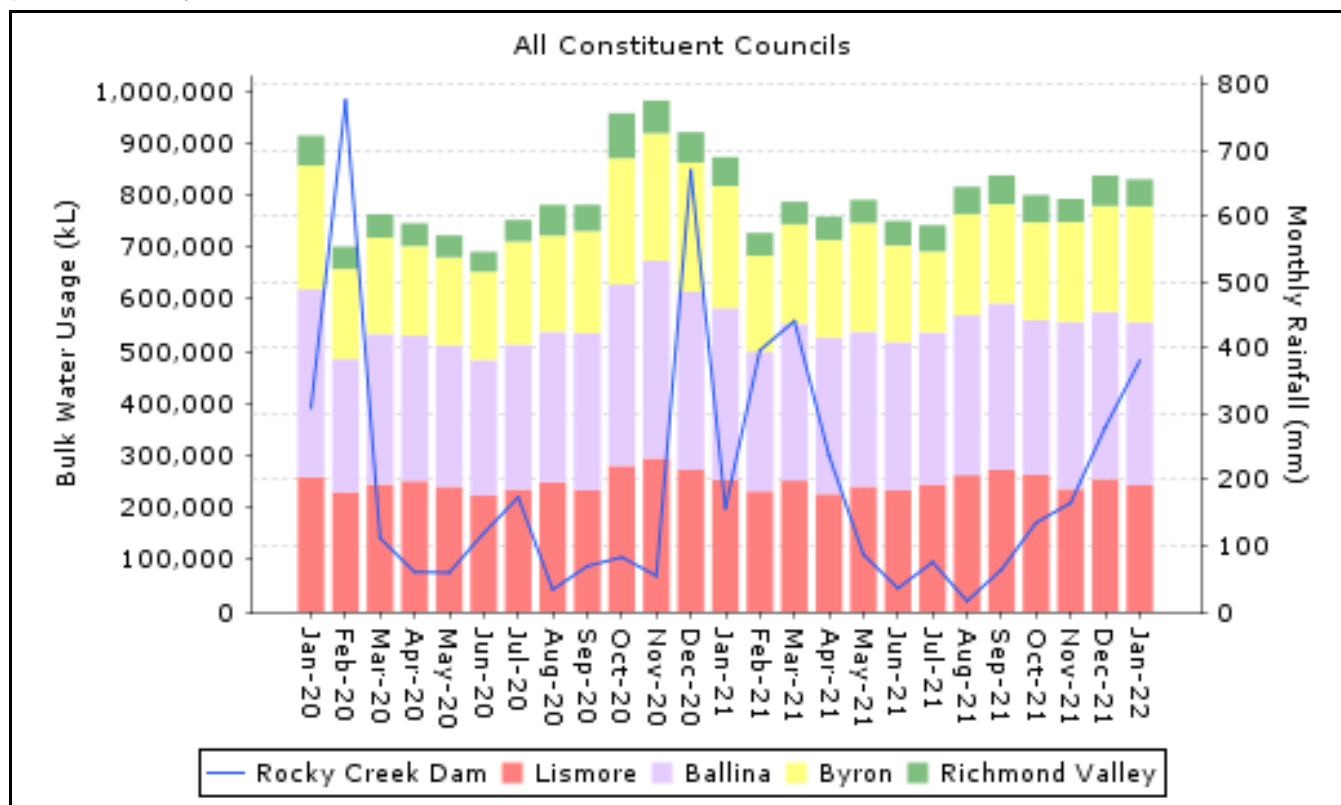


Figure 1: Total monthly consumption by constituent councils and rainfall

Figure 2 shows total bulk water sales for the financial year to date compared with the same period for the previous two years.

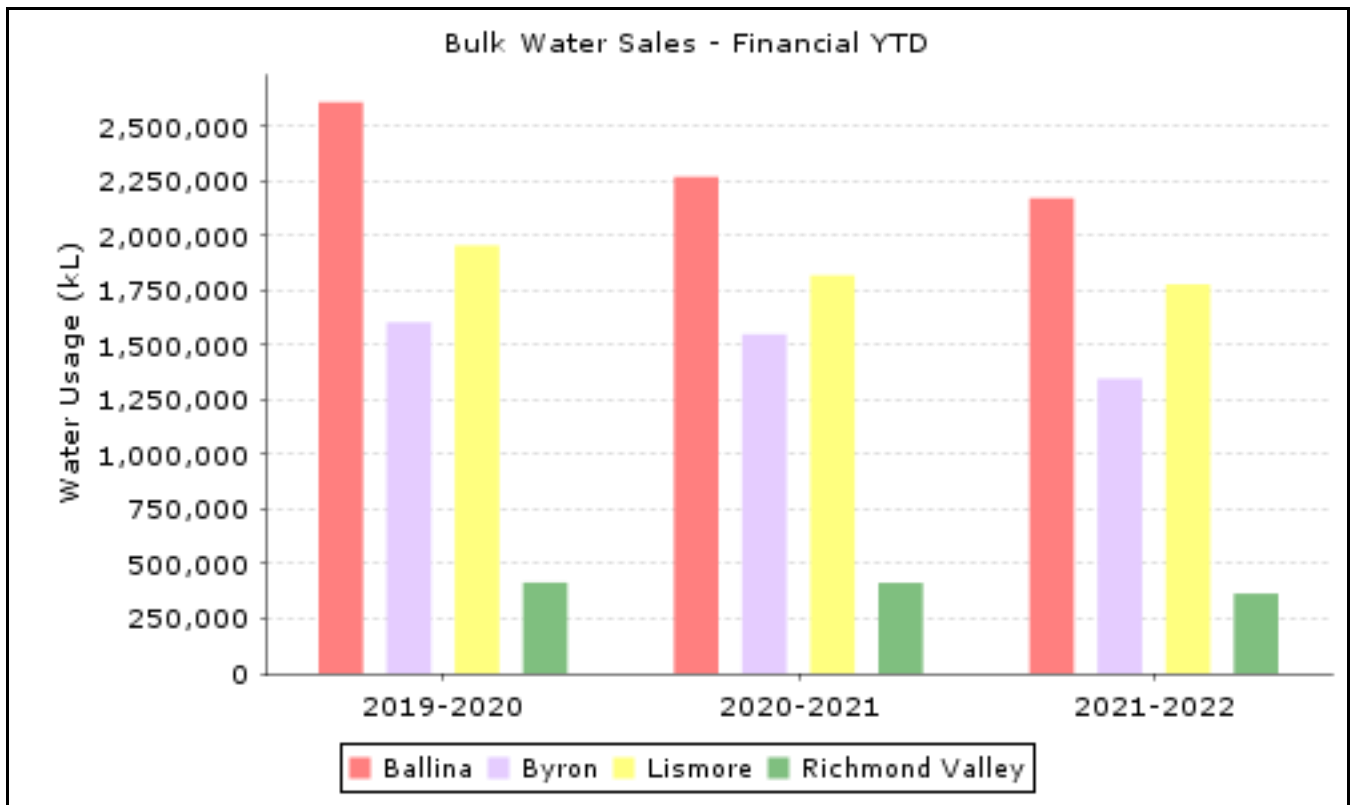


Figure 2: Bulk water sales by constituent councils - 1 July to 31 January

Figure 3 and 4 shows total usage of individual commercial water fill stations for the financial year to date compared with the same period for the previous two years.

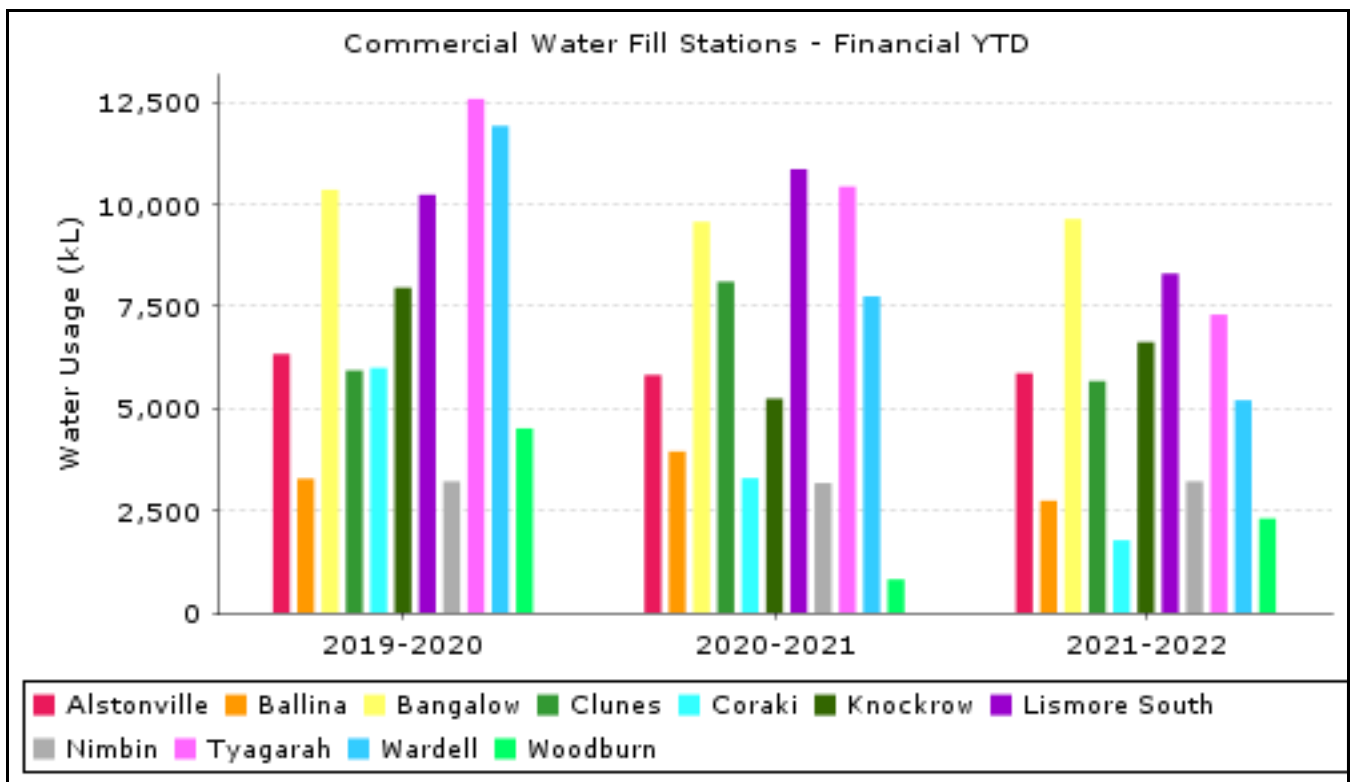


Figure 3: Comparison of commercial water fill stations total consumption - 1 Jul to 31 Jan

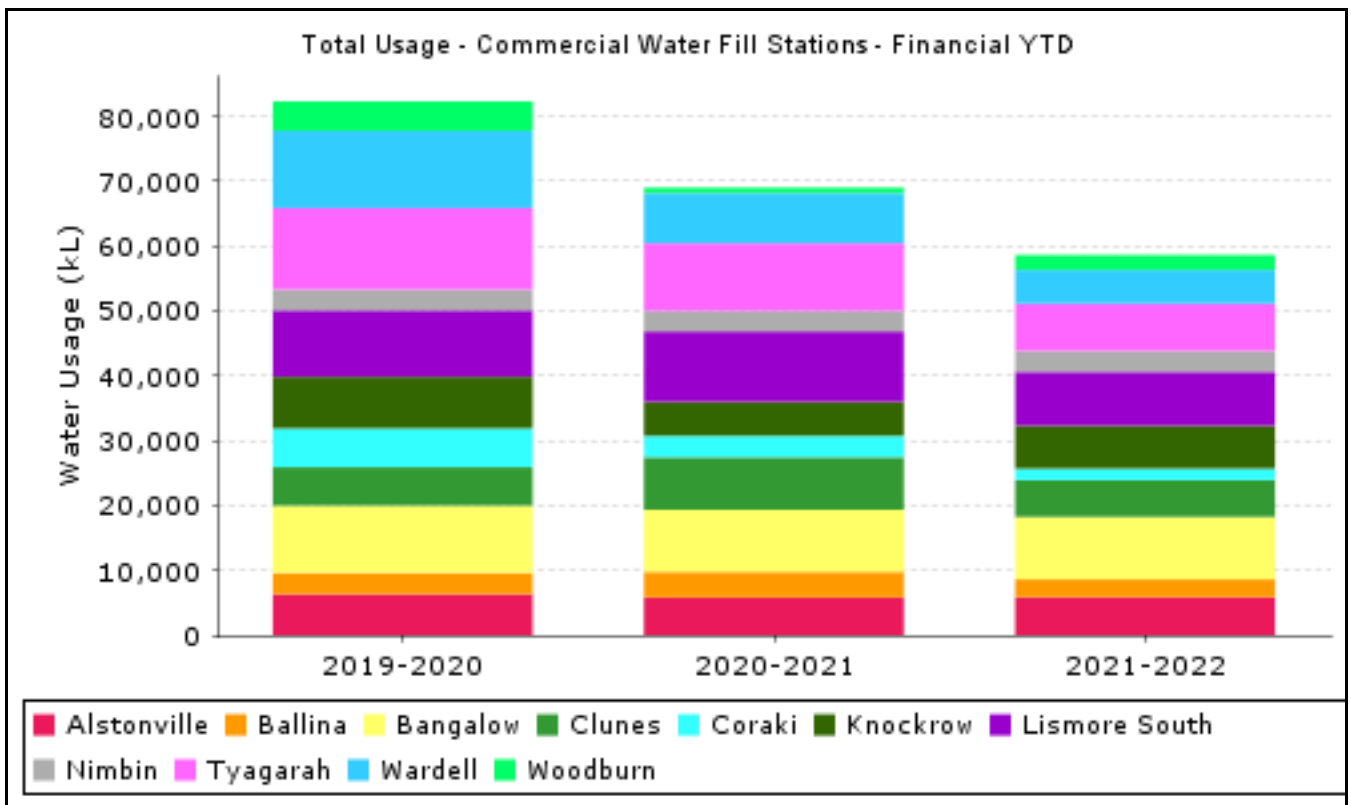


Figure 4: Total usage of commercial water fill stations - 1 July to 31 January

Figure 5 shows combined water fill station monthly consumption for the previous two years. Rainfall data is from the rain gauge at Rocky Creek Dam.

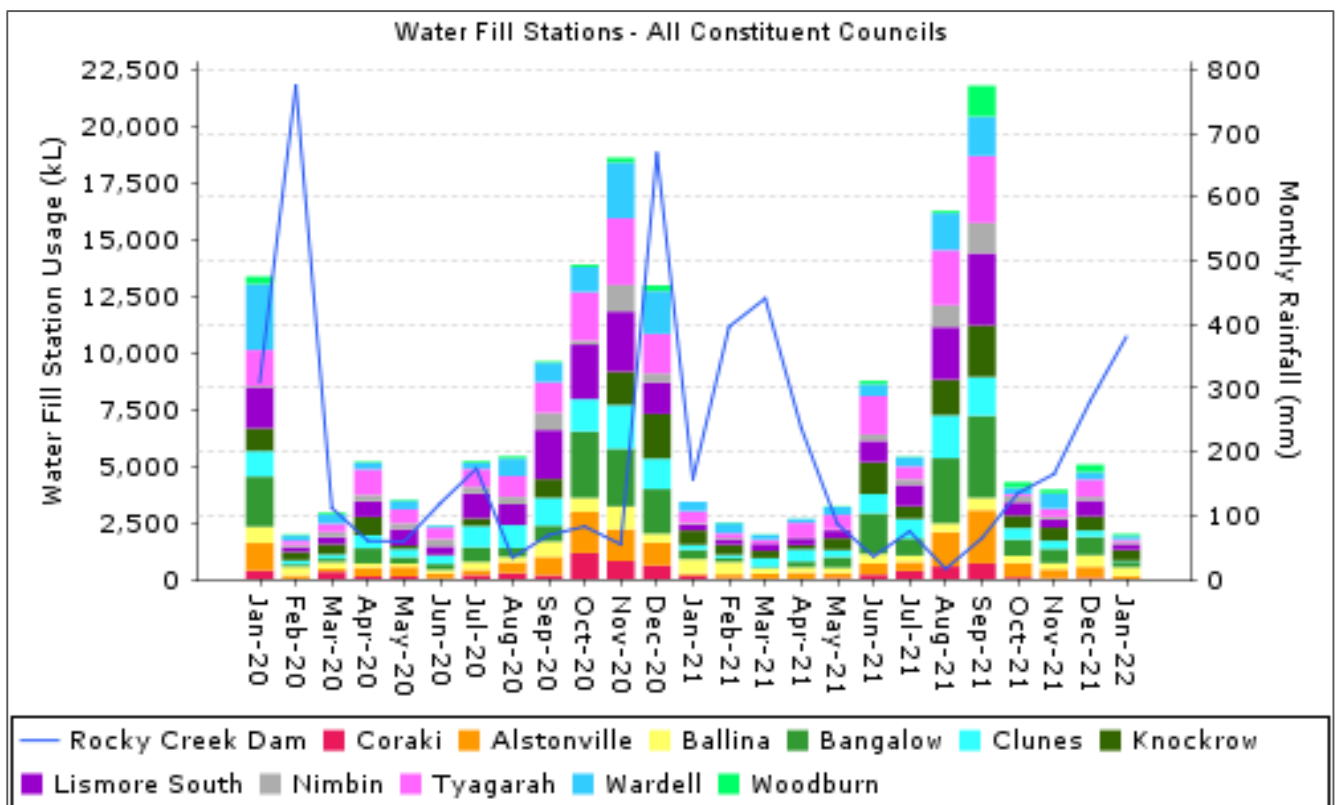


Figure 5: Total monthly consumption for commercial water fill stations and rainfall

Source contribution

- Rocky Creek Dam capacity as of 31 January 2022 was 100.3%
- Emigrant Creek Dam capacity as of 31 January 2022 was 102.8%

Source	January 2022 (kL)		Cumulative Total 2021-2022 (kL)	
Rocky Creek Dam	853,138	96.53%	4,821,261	76.82%
Wilson River	1	0.00%	1,042,551	16.61%
Emigrant Creek Dam	30,668	3.47%	411,989	6.56%
Alstonville Plateau Bores	13	0.00%	13	0.00%
Coastal Sands	0	0.00%	0	0.00%
	883,820		6,275,814	

Rocky Creek Dam

Figure 6 shows Rocky Creek Dam current water level and compares to previous years when levels reached lowest recorded Dam level. Rainfall data is for the current financial year only.

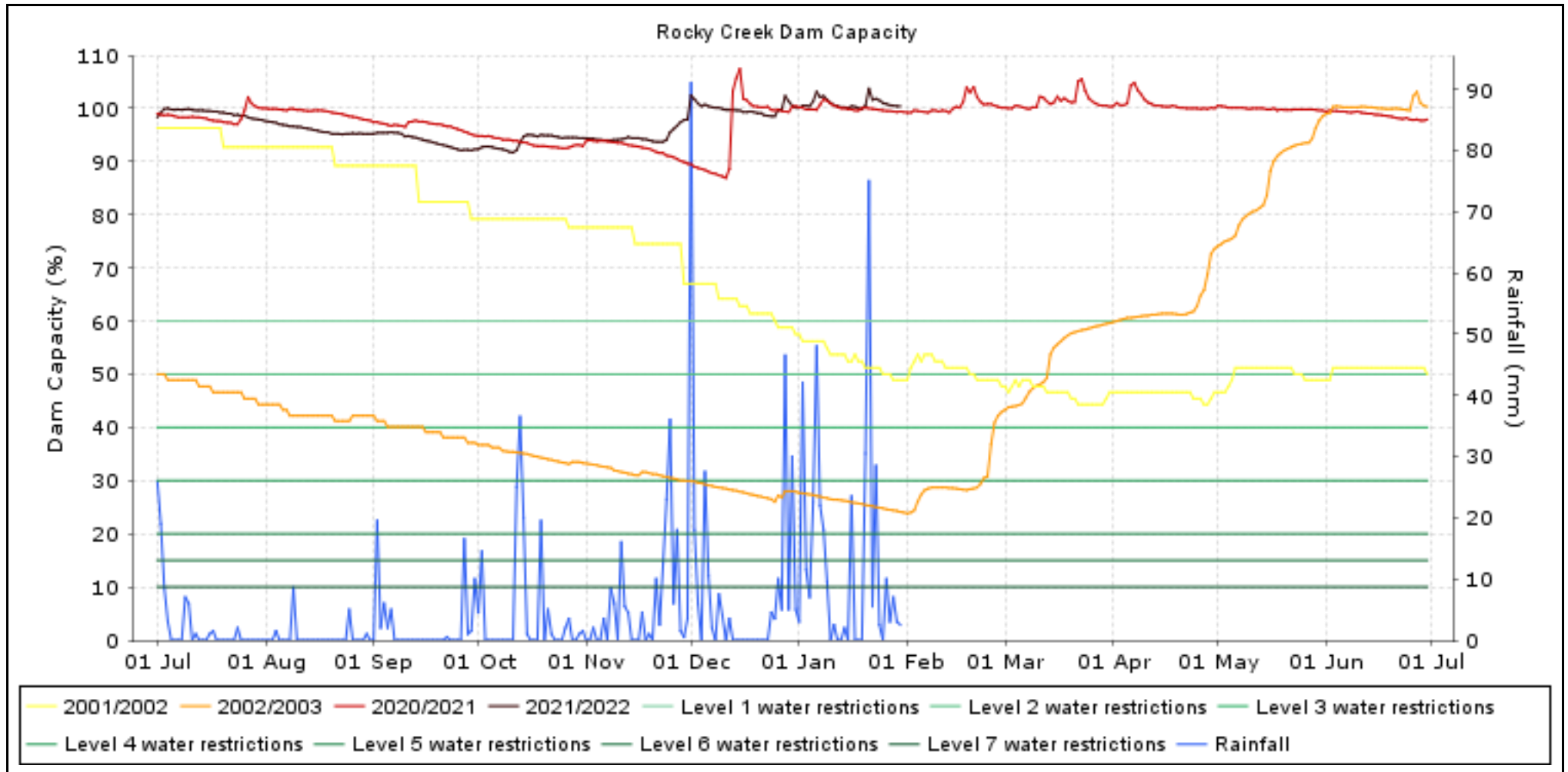


Figure 6: Rocky Creek Dam capacity and rainfall

Emigrant Creek Dam

Figure 7 shows Emigrant Creek Dam current water level and compares to previous two years. Rainfall data is for the current financial year only.

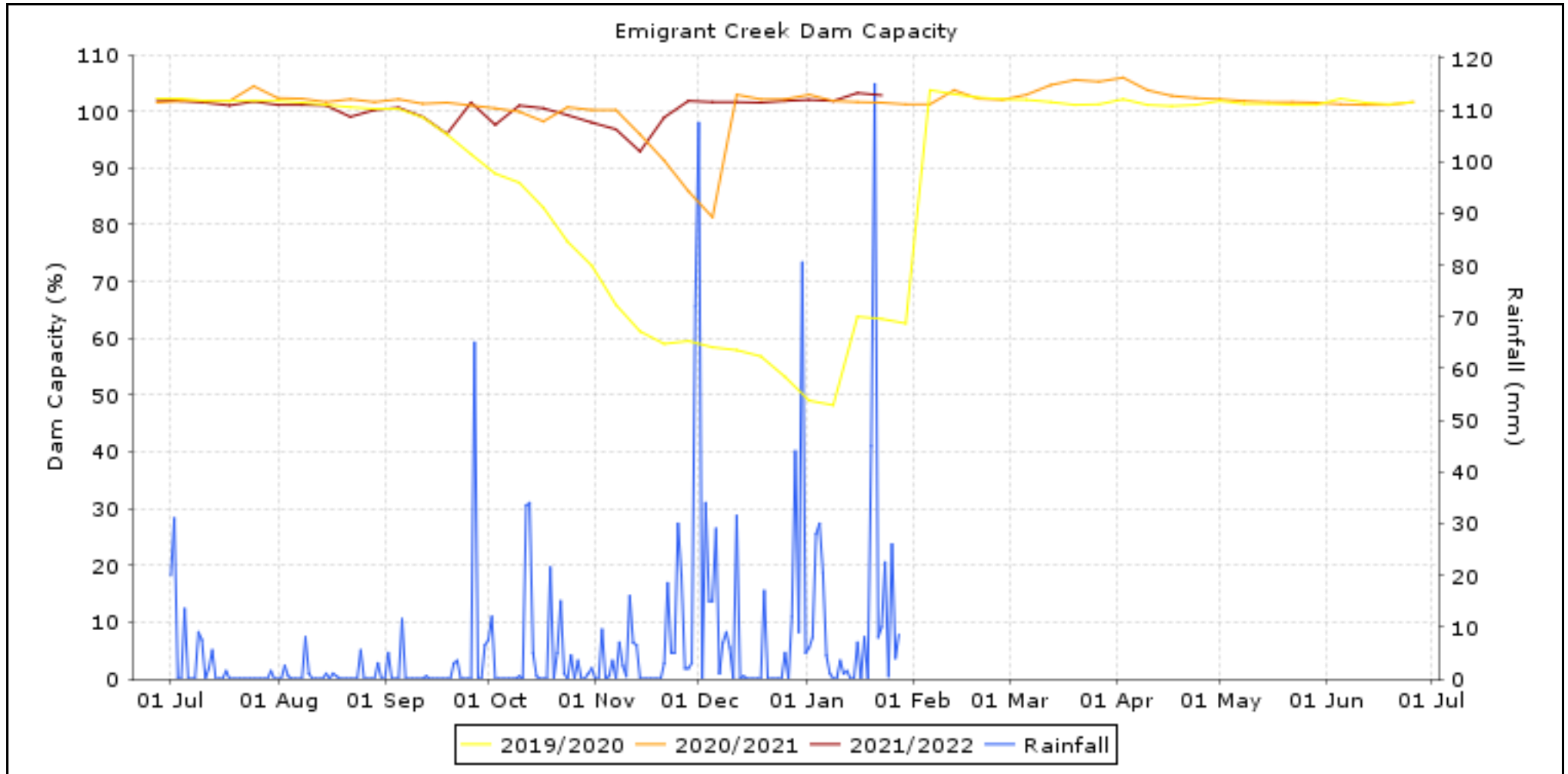


Figure 7: Emigrant Creek Dam capacity and rainfall

Monthly consumption by Ballina Shire Council

Figure 8 shows monthly consumption for Ballina Shire Council area for the previous two years. Rainfall data is from the Bureau of Meteorology rainfall station Ballina Airport.

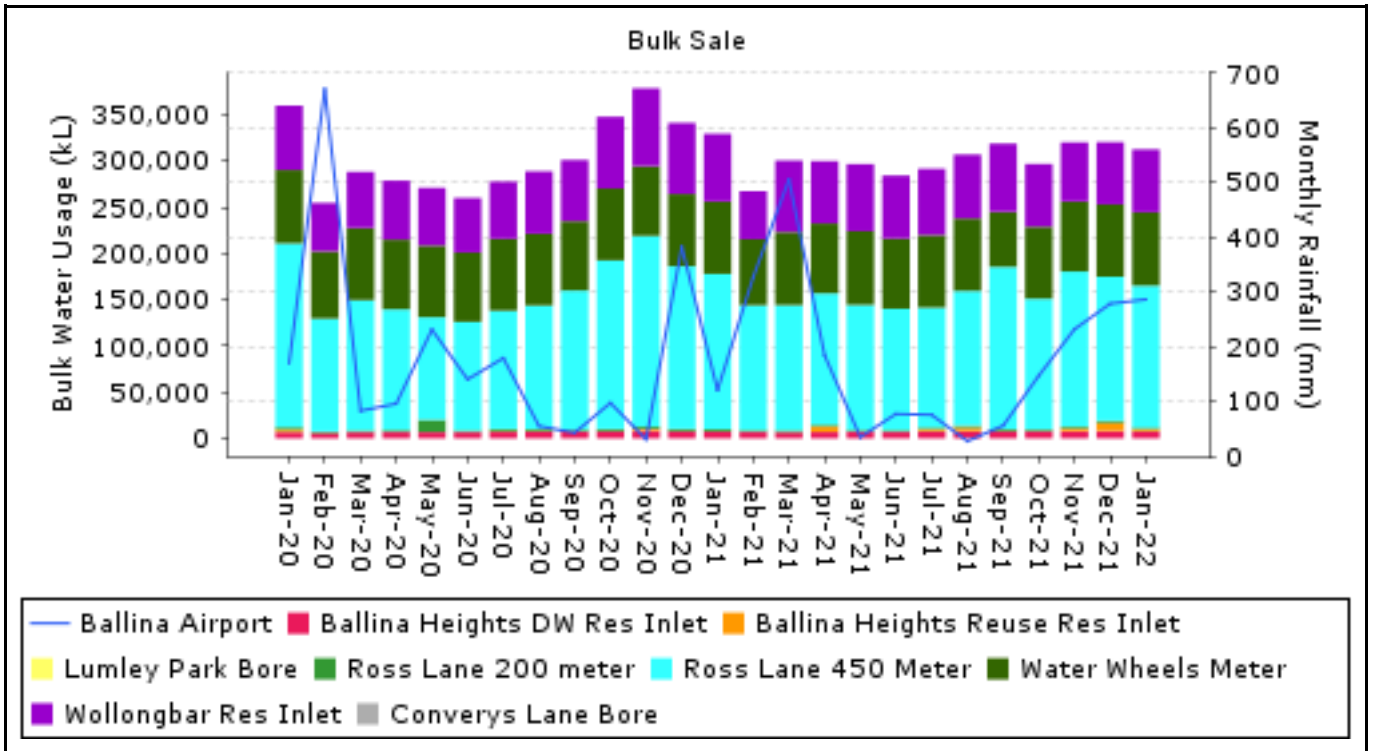


Figure 8: Monthly consumption and rainfall - Ballina Shire Council

Figure 9 shows monthly consumption for water fill stations for Ballina Shire Council and the rainfall for the previous two years.

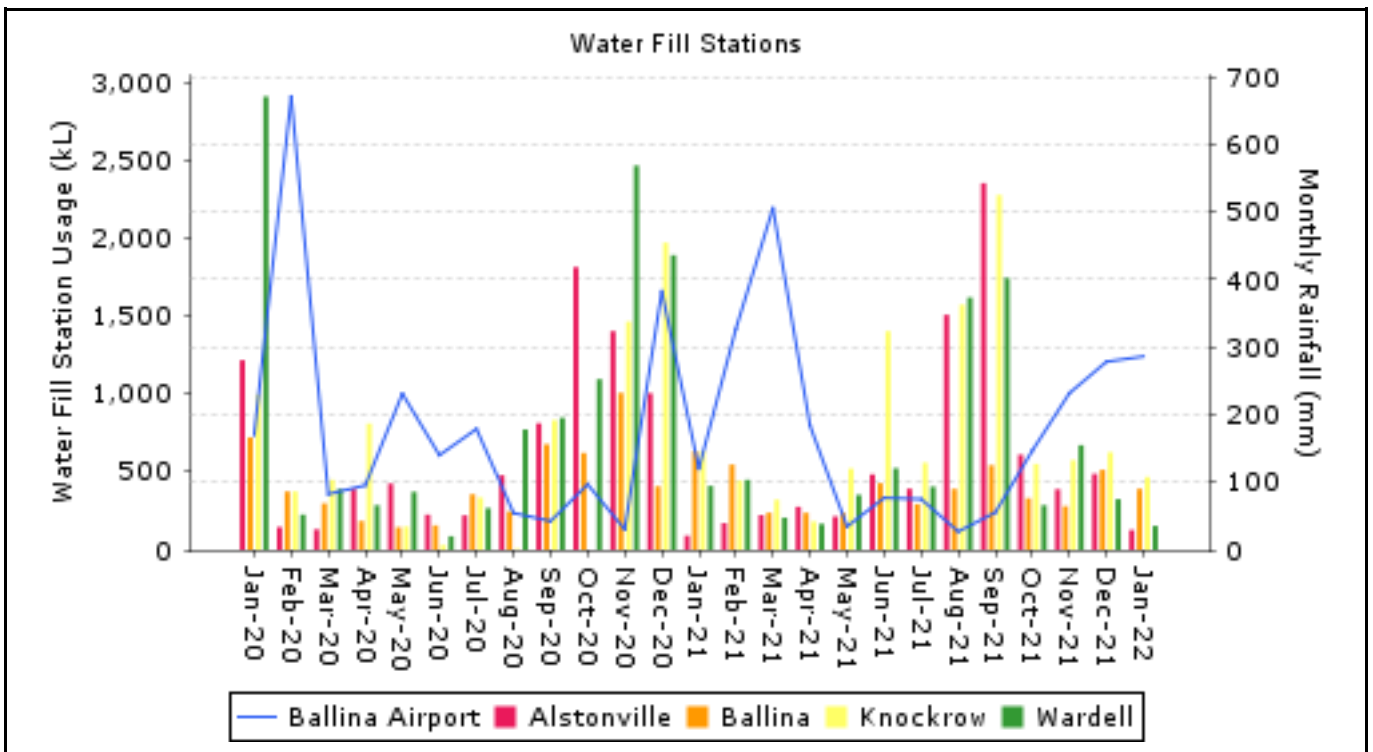


Figure 9: Monthly consumption commercial water fill station and rainfall

Figure 10 shows total usage of individual commercial water fill stations for the financial year to date compared with the previous two years.

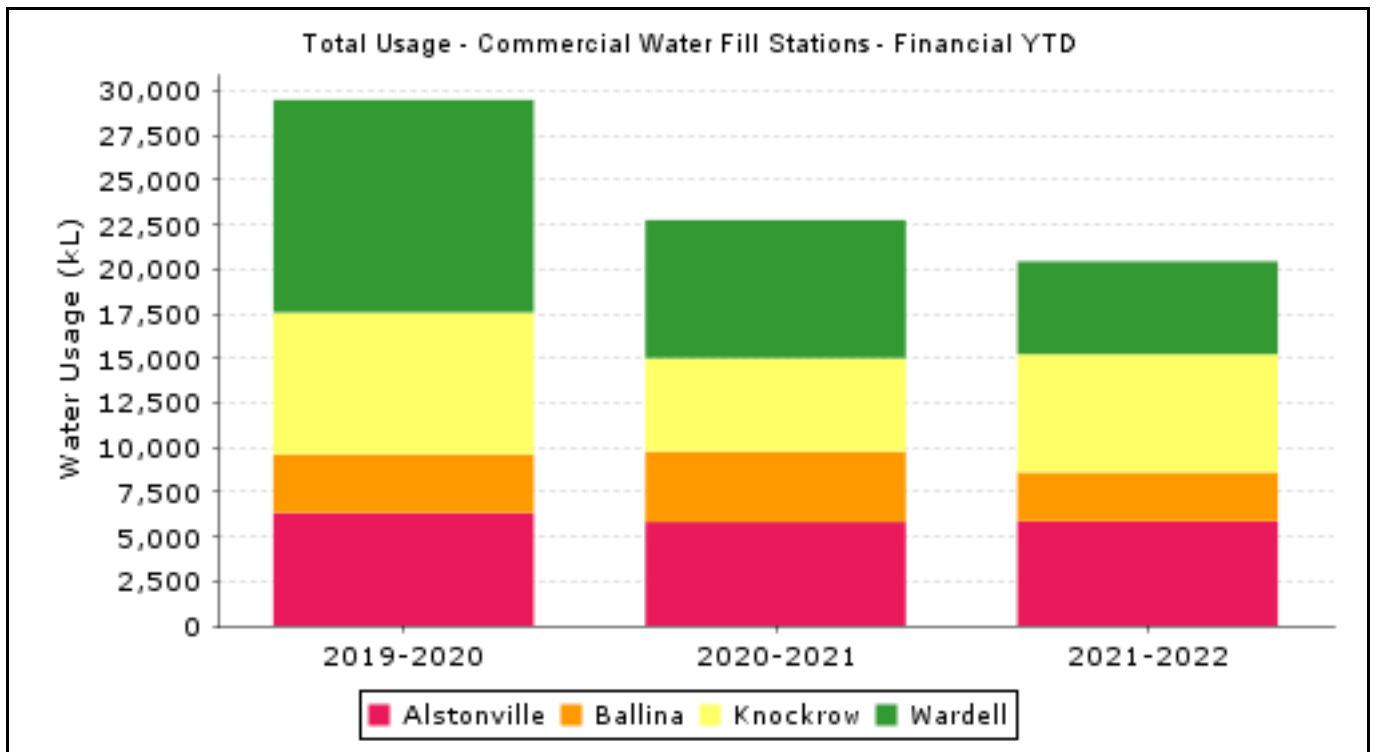


Figure 10: Total usage of commercial water fill stations - 1 July to 31 January

Monthly consumption by Byron Shire Council

Figure 11 shows monthly consumption for Byron Shire Council area for the previous two years. Rainfall data is from the Bureau of Meteorology rainfall station Cape Byron.

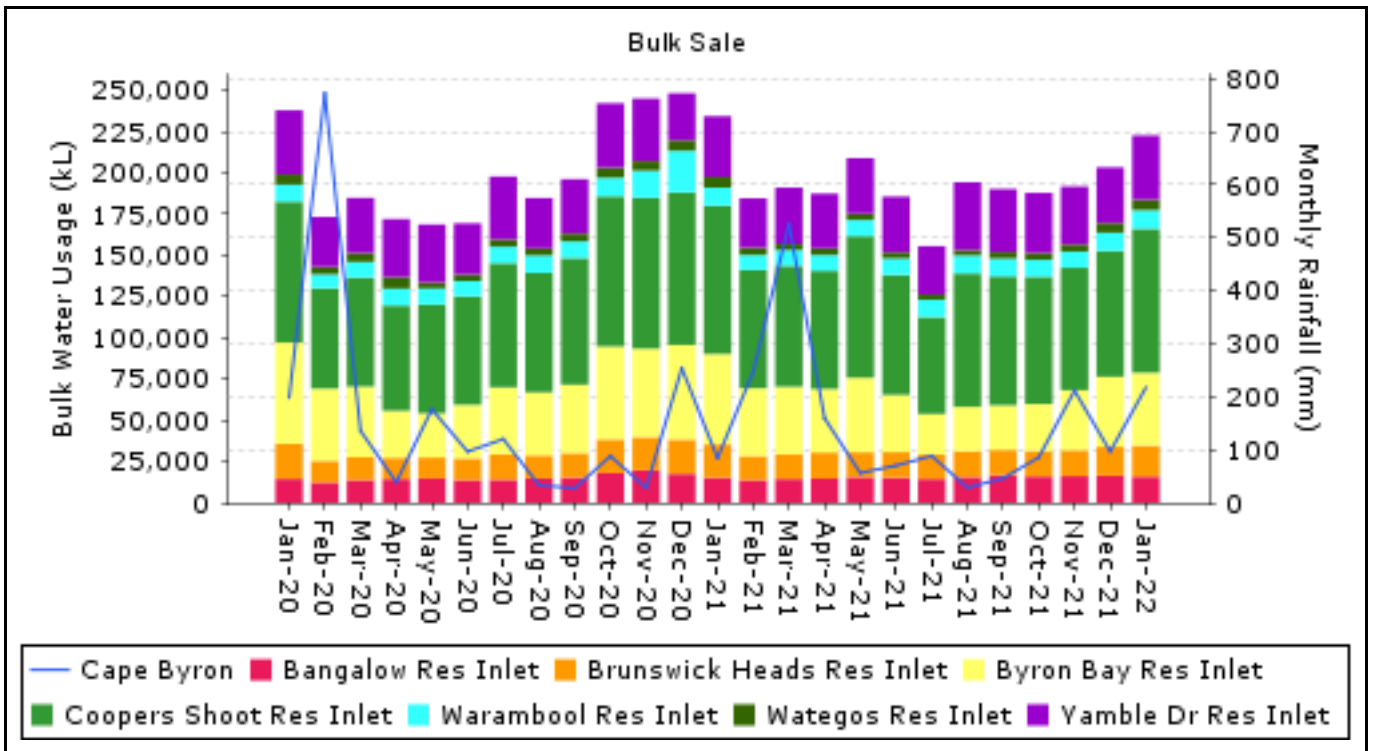


Figure 11: Monthly consumption and rainfall - Byron Shire Council

Figure 12 shows monthly consumption for water fill stations for Byron Shire Council and the rainfall for the previous two years.

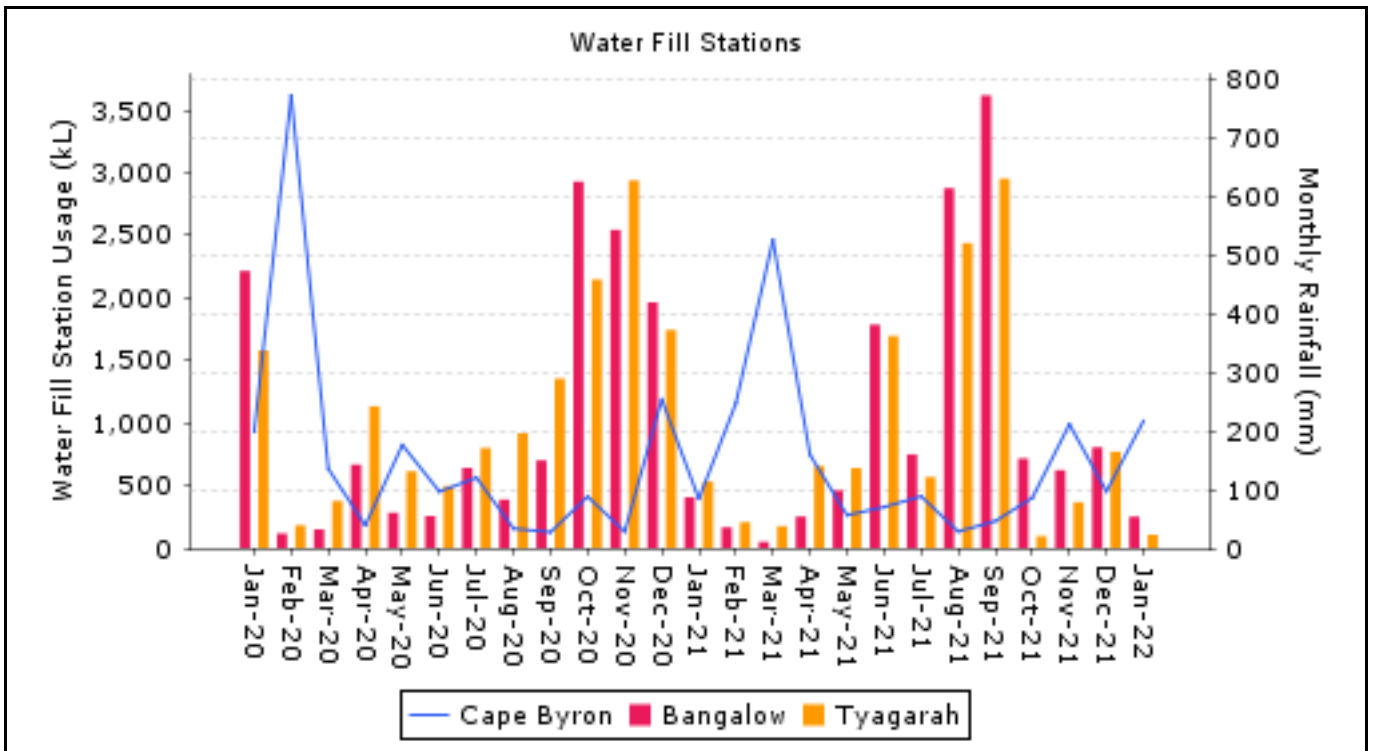


Figure 12: Monthly consumption commercial water fill station and rainfall

Figure 13 shows total usage of individual commercial water fill stations for the financial year to date compared with the previous two years.

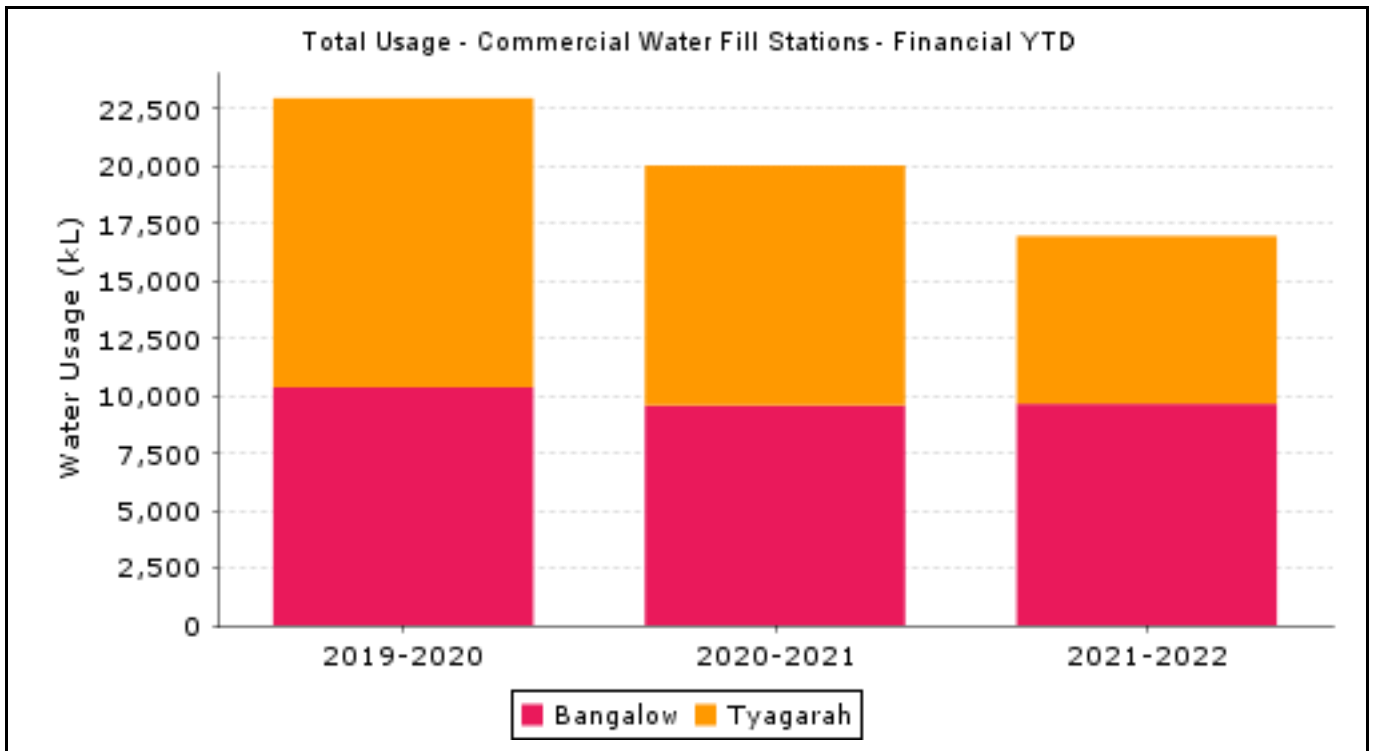


Figure 13: Total usage of commercial water fill station - 1 July to 31 January

Monthly consumption by Lismore City Council

Figure 14 shows monthly consumption for Lismore City Council area for the previous two years. Rainfall data is from the Bureau of Meteorology rainfall station Lismore Airport.

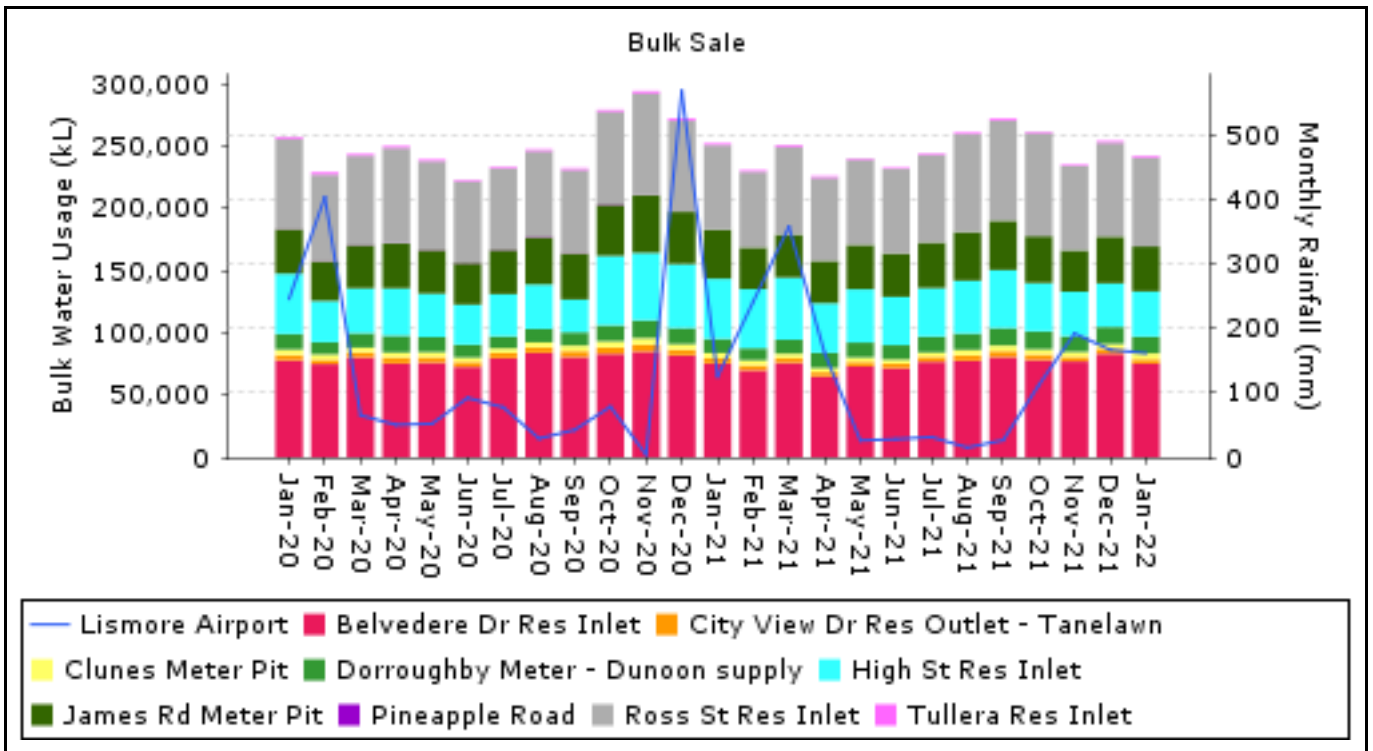


Figure 14: Monthly consumption and rainfall - Lismore City Council

Figure 15 shows monthly consumption for water fill stations for Lismore City Council and the rainfall for the previous two years.

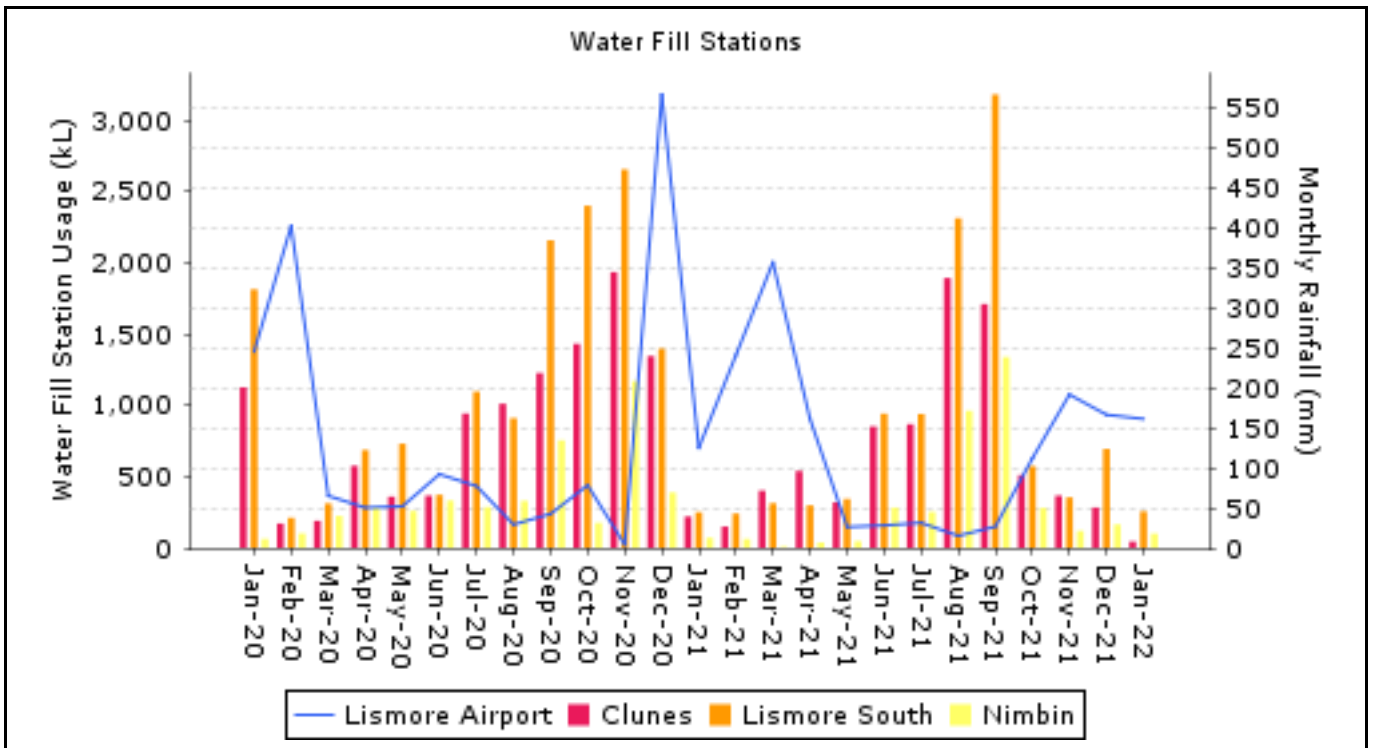


Figure 15: Monthly consumption commercial water fill station and rainfall

Figure 16 shows total usage of individual commercial water fill stations for the financial year to date compared with the previous two years.

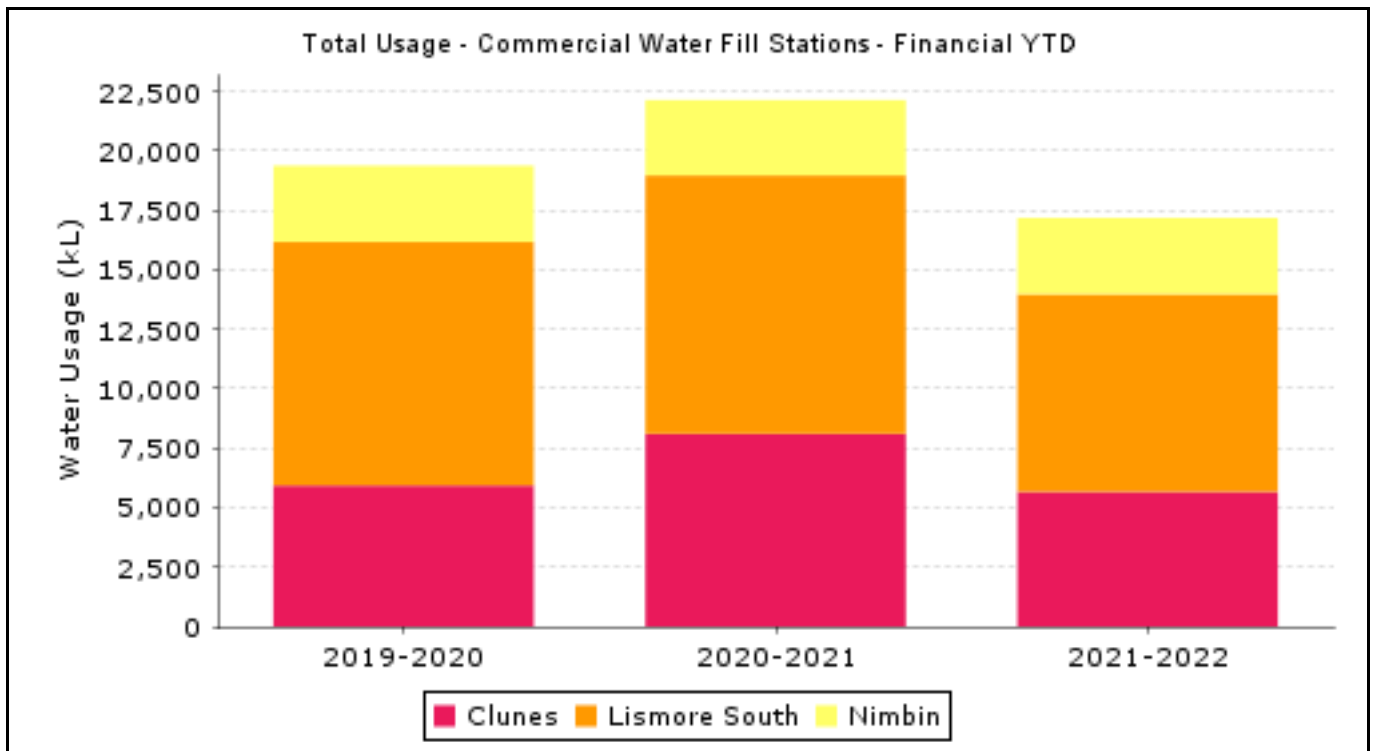


Figure 16: Total usage of commercial water fill stations - 1 July to 31 January

Monthly consumption by Richmond Valley Council

Figure 17 shows monthly consumption for Richmond Valley Council area for the previous two years. Rainfall data is from the Bureau of Meteorology rainfall station Evans Head.

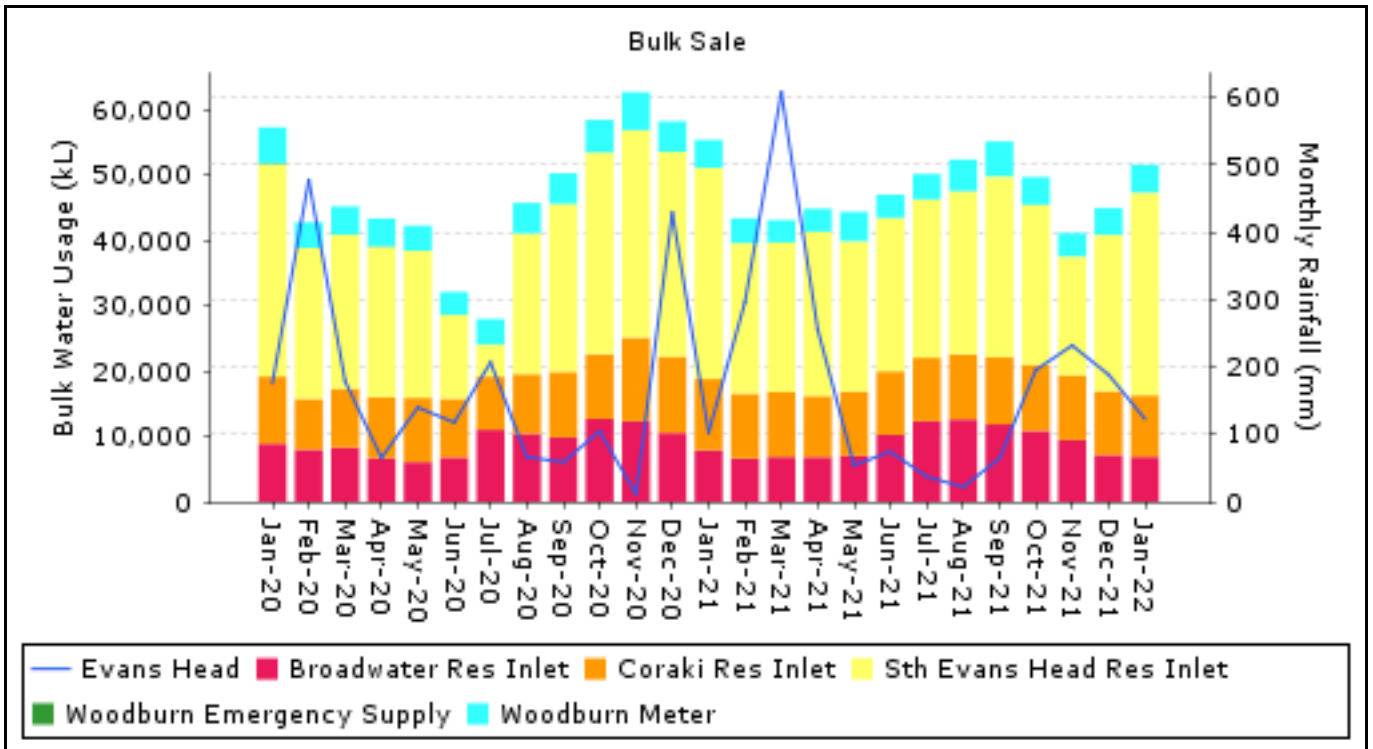


Figure 17: Monthly consumption and rainfall - Richmond Valley Council

Figure 18 shows monthly consumption for water fill stations for Richmond Valley Council and the rainfall for the previous two years.

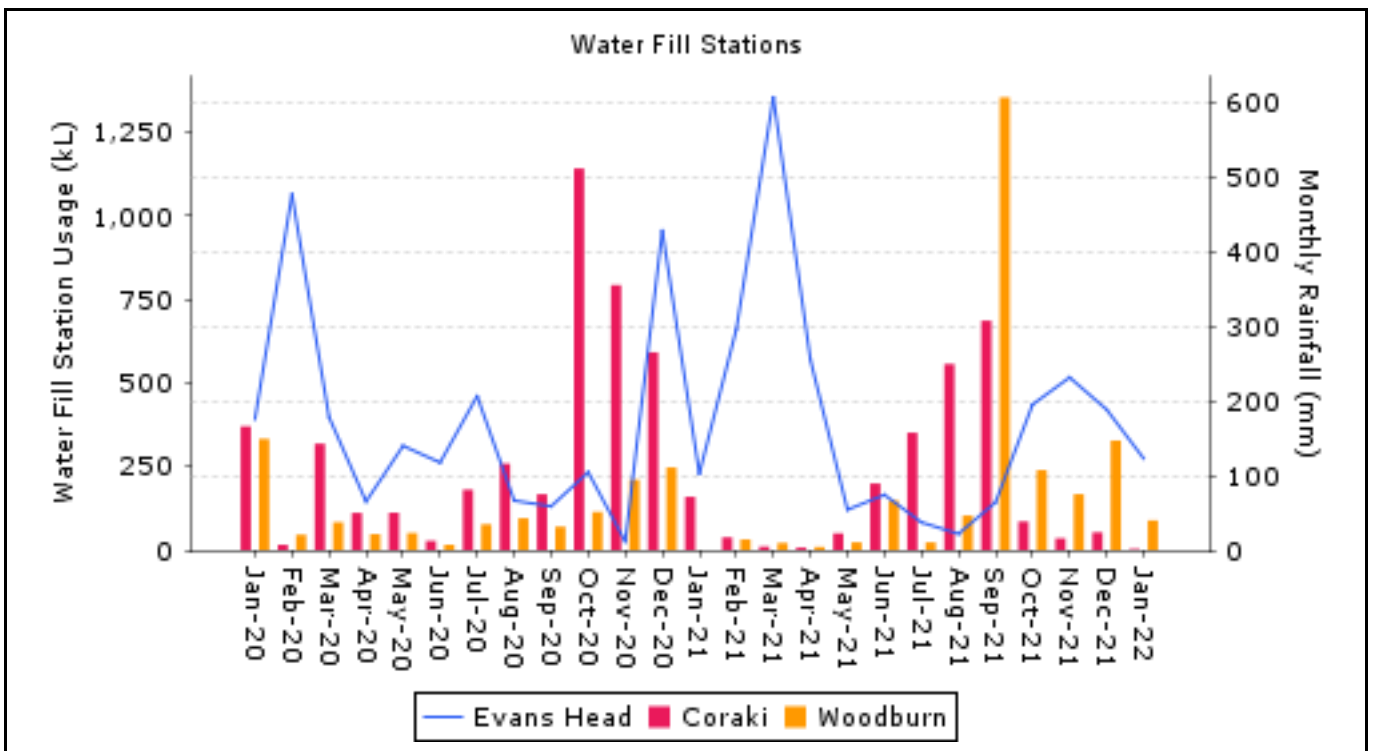


Figure 18: Monthly consumption commercial water fill station and rainfall

Figure 19 shows total usage of individual commercial water fill stations for the financial year to date compared with the previous two years.

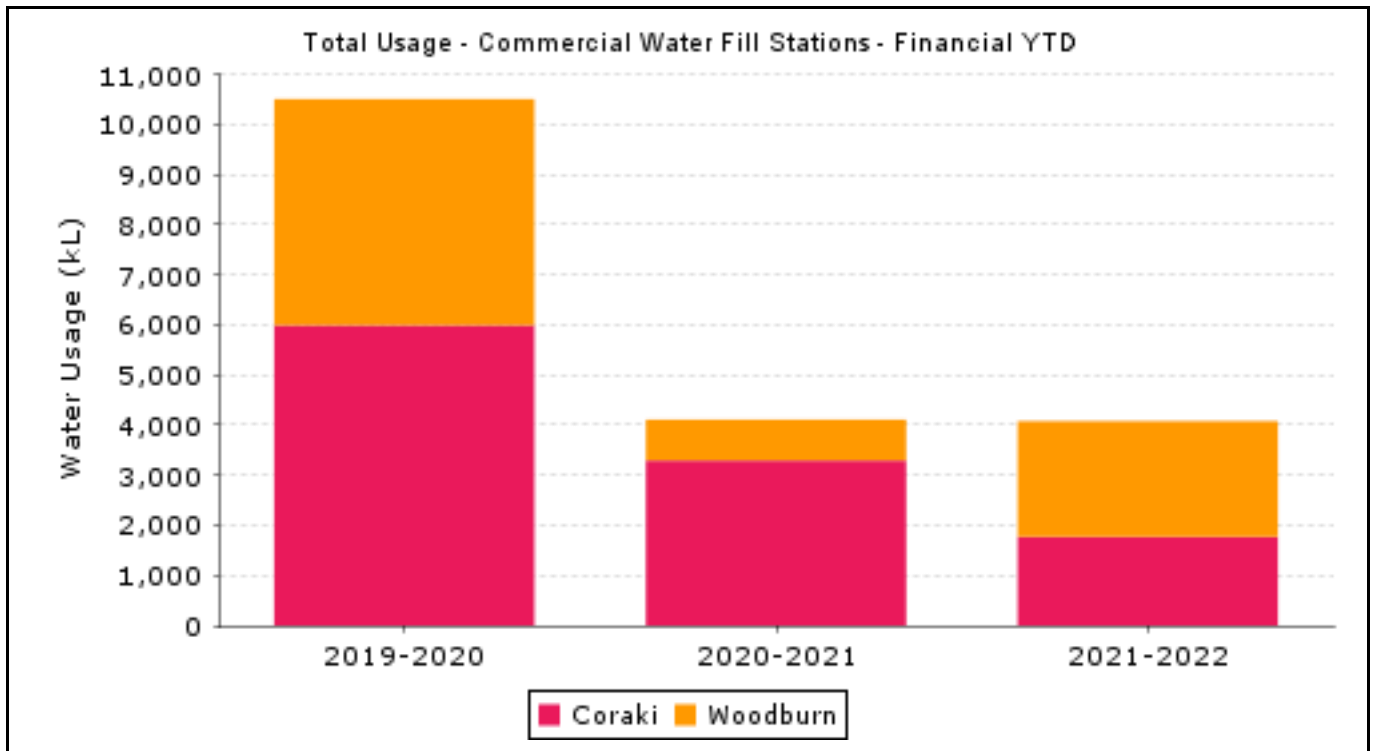


Figure 19: Total usage of commercial water fill stations - 1 July to 31 January