

31 October, 2024

Australian Rural Education Centre  
& Mudgee Small Farm Field Days  
267 Ulan Rd BOMBIRA 2850  
PO BOX 12 MUDGEE 2850

*Our Reference: 2024705RP2.DOCX*

**Attention:** [REDACTED]

[REDACTED]

**RE: TRAFFIC AND PARKING ASSESSMENT REPORT**

The following Traffic and Parking Report supports a Development Application (DA) modification for the Australia Rural Education Centre (AREC) function centre at 267 Ulan Road (**AREC**), which also hosts the annual Mudgee Small Farm Field Days (**MSFFD**) event.

Existing/Previous Traffic Situation

Currently, the site hosts 4,750 car parking spaces. The Field Days event hosted in previous years has seen attendance up to 12,000 people daily. These arrivals were predominantly by car but included some of the shuttle buses provided by Ogdens Coaches.

Parking Demand Review

The site does not have data on car occupancy in previous years. However, data from other events and statistical sites can be used to make assumptions about future events at the function centre.

The Australia Transport Assessment and Planning website states that a non-urban private vehicle will likely hold 1.7 occupants, as shown in Figure 1.

Figure 1 - Typical national car occupancy rates

**Table 12: Estimated values of travel time (resource costs) – occupant and freight payload values, as at June 2013**

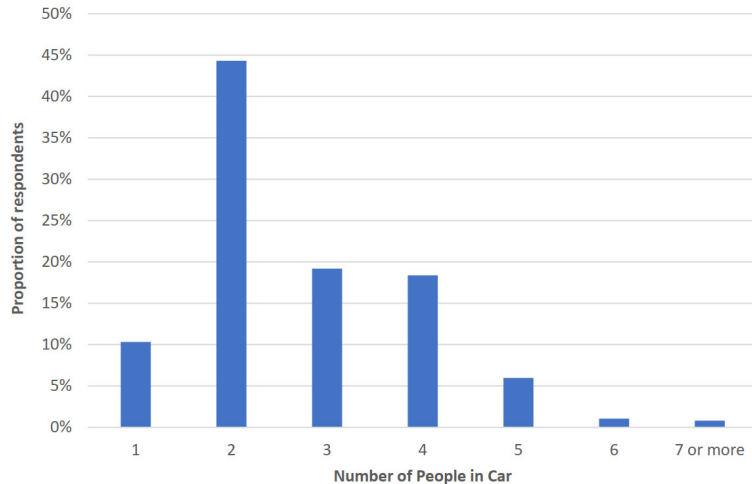
	Non-urban		Urban		Freight travel time	
	Occupancy rate	Value per occupant	Occupancy rate	Value per occupant	Non-urban	Urban
Vehicle type	(persons/veh)	(\$/person-hour)	(persons/veh)	(\$/person-hour)	\$ values per vehicle-hour	
<b>Cars (all types)</b>						
Private	1.7	14.99	1.6	14.99	na	na
Business	1.3	48.63	1.4	48.63	na	na

<https://www.atap.gov.au/parameter-values/road-transport/3-travel-time>

However, this data is only partially relevant as it is irrelevant to a specific traffic-generating development. However, it provides a good base for forecasting assumptions in line with other data.

A survey undertaken by Venues NSW in 2022 found that the average car occupancy was 2.7 people per vehicle travelling to the Sydney Football Stadium (SFS). A graph extracted from the report is shown in Figure 2.

Figure 2 - Car occupancy travelling to events at Sydney Football Stadium



[https://assets-eu-01.kc-usercontent.com/adf20919-38ef-011b-9e63-8c8915da8f64/158c1942-2734-4ef1-a965-0399cd402dae/sfs-green-travel-plan\\_18-july-2022.pdf](https://assets-eu-01.kc-usercontent.com/adf20919-38ef-011b-9e63-8c8915da8f64/158c1942-2734-4ef1-a965-0399cd402dae/sfs-green-travel-plan_18-july-2022.pdf)

This data is more relevant to the subject site, specifically obtained from another major event.

Using these two data sources, it would be reasonable to assume that the absolute minimum number of people per car would be 2, and a more realistic value of 2.5 people per vehicle would likely be the average number travelling to the events at AREC.

### Bus Occupancy

The average bus holds around 50-60 sitting passengers. For example, an event will provide three buses, each making five trips to and from the town centre, totalling 15 return trips. Assuming each bus operates at a conservative 50% capacity, this would total 450 people arriving by bus (30 passengers x 3 buses x 5 trips).

### Parking Demand

From the above, the expected parking demand is:

4,750 parking spaces x 2.5 people/vehicle = 11,875 people attending the event

11,875 arriving by car + 450 arriving by shuttle bus = **12,325** total expected at the event

#### Conclusion

The existing parking capacity of 4,750 parking spaces is available for around 12,325 patrons to events at this site.

An average of 2.5 people per vehicle with 50% utilisation of the provided shuttle buses could be applied for the event.

Yours sincerely,  
for TAR Technologies Pty Ltd

