

Traffic Counts - Seven Mile Beach Road

A number of traffic counts have been installed on Seven Mile Beach Road approximately 70m south of Broken Head Reserve Road. Table 1 below provides a summary of these traffic counts. See under Table 1 for a definition of terms and attachment 2 for the full 30 Sept 2019-7 July 2020 traffic data:

Table 1: Summary of Seven Mile Beach Road traffic counts.

DATE	DAYS	ADT (2 WAY)	85TH% SPEED (km/h)	PEAK HOUR(S) (& TRAFFIC VOLUMES)
18 April 2018 – 5 June 2018	47	300	42.48	11am-2pm (32 vehicles/hr – 2 way)
10 Sept – 23 Sept 2018	13	398	43	11am-1pm (45 vehicles/hr – 2 way)
6 Dec 2018 – 3 May 2019	147	435	41.04	12pm-1pm (44 vehicles/hr – 2 way)
30 Sept 2019 – 7 July 2020	280	310	42.48	11am-2pm (30 vehicles/hr – 2 way)

Definitions:

Days: Days shows how many days the traffic counter was in place. Note, road designs are typically based on traffic counts done over a 7 day period only.

ADT (2 way): ADT stands for Average Daily Traffic and includes traffic travelling in both directions. Typically all counts show traffic is evenly split in both directions.

85th% Speed: 85% of cars travel at this speed or slower. This is the speed national standards used to design roads and to assess speed zone reviews.

Peak Hour(s): Traffic volumes do not remain constant throughout the day. Typically there are morning and afternoon peaks in traffic volume with these peaks usually corresponding with school drop off and pick up times. Intersections are design around these peak hour traffic volumes.

For Seven Mile Beach Road the peak period is actually in the middle of the day, typically between 11am-2pm. Traffic volumes between 11am – 2pm range between 30-45 cars per hour (in both directions). This equates to about 1 car entering Seven Mile Beach Road every 3-4 minutes, on average.

The following additional observations are helpful to note when considering the data in Table 1:

- The above data is equal to 16 months of data collection.
- In comparison Ewingsdale Road (with an Average Daily Traffic Count of approximately 22,000) is surveyed for approximately 1-2 weeks a year.
- Table 1 reflects results for Average Daily Traffic. There will be occasional days where traffic data is substantially higher (such as New Years where ADT is approximately 1000) and many days where traffic data is substantially lower.
- The following events occurred on Seven Mile Beach Road:
 - 22nd November 2019 to 28th November road was closed due bushfire concerns;
 - 14th April – 23rd April Road was regraded
 - 10th April 2020 to 10th July 2020 car parks closed due to Covid-19 concerns.
- 85th percentile traffic speed appears to be in the order of 43 km/h – on the longest straight section of road.
- The peak period of the day is consistently around 11am-2pm with low peak hour volumes.
- Traffic volumes include residents, accommodation patrons and visitors and it is not possible to identify how much traffic is associated with resident traffic versus visitor traffic etc.

Traffic Counts Broken Head Reserve Road

Several traffic counts have been installed on Broken Head Reserve Road over a period of time at three locations:

- Near the Broken Head Road intersection (BHRI),
- 200m west of Taylors Lake Road (TLR),
- At the western entrance to the Broken Head Reserve Road village (BHRRV).

Table 2 below provides a summary of these traffic counts and attachment 5 for the full Sept 2019-Feb2020 data.

Table 2: Summary of Broken Head Reserve Road traffic counts.

DATE (LOCATION)	DAYS	ADT (2 WAY)	85TH% SPEED (km/h)	PEAK HOUR(S) (& TRAFFIC VOLUMES)
May-July 2018 (BHRI)	48	1751	62.46	10am-12pm (169 vehicles/hr – 2 way)
Nov-Feb 2019 (TLR)	76	2160	65.25	10am-12pm (184 v/hr – 2 way)
Apr-May2019 (TLR)	29	2036	66.42	12pm-1pm (194 v/hr – 2 way)
Sept 2019 (BHRRV)	13	1675	43.2	11am-12pm (164 v/hr – 2 way)
Sept 2019-Feb 2020 (BHRRV)	131	Data to be assessed		

The following additional observations are helpful to note when considering the data in Table 1:

- The above data is equal to 10 months.
- There will be occasional days where traffic data is substantially higher (such as New Years where traffic is approximately 3404) and many days where traffic data is substantially lower.
- The following events occurred on Broken Head Reserve Road:
 - 11th November 2019 to 23rd November NPWS closed car park due bushfires;
 - 16th March 10th July NPWS closed car park closed due to Covid-19 concerns.
- 85th percentile traffic speed is consistently around 65km/h west of the village precinct.
- 85th percentile traffic speed appears to be in the order of 43 km/h for western entrance to the Broken Head Reserve Road.
- The peak period of the day is predominately late morning.