

	Day Visitors	Groups/Courses	Education	Meetings	Festivals	Total Vehicle Trips/Month
May	94	48	4	86	0	232
June	129	67	5	108	0	309
July	431	95	0	92	1,164	1,782
August	475	52	0	72	0	598
September	182	172	0	73	1,105	1,532
October	241	134	0	60	1,627	2,062
November	0	27	0	282	0	309
December	0	19	0	85	0	104
January	0	30	0	127	0	158
February	0	0	0	139	0	139
March	0	0	0	67	0	67
April	0	0	0	111	0	111
Total	1,552	645	9	1,301	3,897	7,404

Table 5-2 : Existing Vehicles per Month to the National Fruit Collection

**Any inaccuracies are due to rounding errors.*

- 5.2.7 From this data three months have been selected (as highlighted in red) to represent different scenarios throughout the year to calculate the number of vehicle trips per day during the peak hours. August has been selected to represent a summer peak excluding festivals, December to represent the off-peak season, and April which coincides with the Easter school holidays to represent another peak time of year for visitors. Please note that months including festivals have not been included since festivals would only be expected to occur over a few days within three months of the year, and would therefore output irregular trip patterns if these were used for the purpose of calculating typical daily patterns.
- 5.2.8 For each selected month the number of weekly vehicles has been split between days during the week and days at the weekend assuming a 30% increase in visitors at the weekend (which has been confirmed up by the National Fruit Collection as an accurate assumption).
- 5.2.9 TRICS has been used to ascertain a typical profile for the number of vehicle arrivals and departures to an outside gardens type visitor attraction. This then allows for the calculation of arrivals and departures for each hour throughout the day, as a proportion of the total arrivals and departures per day. Spreadsheet calculations showing how this was put together are included at **Appendix D**, with the resulting weekday and weekend data being summarised in Table 5-3.

	Day Visitors	Groups/Courses	Education	Meetings	Festivals	Total Vehicle Trips/Month
May	1,936	805	11	86	0	2,839
June	1,322	550	8	108	0	1,988
July	2,114	879	12	92	1,164	4,263
August	1,891	786	11	72	0	2,760
September	1,697	706	10	73	1,105	3,590
October	1,535	638	9	60	1,627	3,869
November	581	242	3	282	0	1,108
December	830	345	5	85	0	1,266
January	265	110	2	127	0	505
February	464	193	3	139	0	799
March	918	382	5	67	0	1,372
April	2,216	922	13	111	0	3,261
Total	15,771	6,559	93	1,301	3,897	27,620

Table 5-6 : Proposed vehicle trips to the National Fruit Collection by month and purpose

**Any inaccuracies are due to rounding errors.*

5.3.6 Again the same three months have been selected from the above data (highlighted in red) to show the number of vehicle trips in the am peak hour, inter-peak hour and pm peak hour using the same method as for the existing data and the same data obtained from TRICS as shown in Table 5-3. The outcome along with the staff vehicle trips is summarised below in Table 5-7.

Brogdale Marketplace

5.3.7 As noted previously the existing number of visitors associated with Brogdale marketplace is unlikely to change as a result of the proposed development. Although the increase in visitors to the National Fruit Collection will result in an increase in visitors to the market, these would be considered to be linked trips so can be excluded from the calculations.

Proposed Staff

5.3.8 In accordance with the development proposals the number of staff working at the site is only likely to increase by 10, resulting in a total staff number of 60 members. As before, assuming that the majority of these staff would arrive and depart outside of the peak hours, it has been considered that 20% of the total staff may travel during the peak hours which equates to 12 staff. Applying the car driver mode share of 74% taken from the Census SWS data (**Appendix E**) results in 9 total arrivals in the am peak and 9 total departures in the pm peak, a daily total of 18 vehicle trips associated with staff.