

Appendix 42

HTp/1107/TN/12 – Pub/Restaurant Vehicle Trip Rates Update

Highgate*Transportation*

Land at Peel Hall, Warrington

Technical Note on Pub/Restaurant Vehicular Trips Update

(HTp/1107/TN/12)

April 2016

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Appendices

- Appendix 1 TRICS Data for Family Pub/Restaurant
- Appendix 2 Full Set of Tables for Peak Period Vehicle Trips at Each Site Access Location

1.0 Introduction

- 1.1 This Technical Note has been prepared by Highgate Transportation Limited on behalf of Satnam Millennium Limited to update the vehicle trip number information from the following Technical Notes released to date, following a change in the development profile resulting from a reduction in the size of the family pub/restaurant from 1,600 square metres to 800 square metres Gross Floor Area (GFA):
- i. TN/02/A – Trip Rates (peak hour).
 - ii. TN/02/A/Addendum – Peak Period Trip Rates.
 - iii. TN/06 – Trip Discounts.
 - iv. TN/08 – Number of Vehicle Trips at Each Site Access Location.
- 1.2 For clarification, the proposed development profile for the land at Peel Hall, Warrington, is as follows:
- i. A residential neighbourhood with up to 1,200 residential dwellings.
 - ii. A 100-bed care home.
 - iii. An area of employment land comprising up to 7,500 square metres GFA of B1(c) light industry.
 - iv. A neighbourhood centre comprising a food store of up to 2,000 square metres GFA plus up to a further 600 square metre GFA of local centre type facilities and a family pub and restaurant of up to 800 square metres GFA.
 - v. A primary school for up to two-form entry (i.e. up to 420 pupils).
 - vi. Open space including sports pitches and ancillary facilities, which are expected to include changing facilities for up to four teams at any one time and a function room that could be used for local community uses such as a local mother and toddler group.
- 1.3 The relevant pub/restaurant data tables from the Technical Notes set out in (i) to (iii) of **Paragraph 1.1** are provided in **Sections 2.0** to **4.0** respectively. The same trip rates have been used, and this information is provided again for ease of reference in **Appendix 1** to this report.
- 1.4 The six peak period tables from TN/08 have been reproduced and included as part of **Section 5.0** for completeness and are contained in **Appendix 2**, and updated to reflect the revised pub/restaurant vehicular trip figures.

2.0 Trip Rates – TN/02/A Updated Peak Hour Tables

2.1 The peak hour vehicular trip rates and generation for the revised family pub/restaurant GFA of 800 square metres are set out in **Table 2.1** below, based on Table 5.4 of TN/02/A dated March 2016.

Table 2.1 – Family Pub/Restaurant Vehicular Trip Rate and Generation Summary

Development Traffic	AM Peak Hour		PM Peak Hour	
	Arrival	Departure	Arrival	Departure
Trip Rates (per 100sqm GFA)	-	-	2.847	1.845
Family Pub/Restaurant Trips (800sqm GFA)	-	-	23	15

2.2 It can be seen from the above table that there may be up to around 38 vehicular movements associated with the revised family pub/restaurant GFA during the PM weekday peak hour. This is a reduction of 38 trips from the previous Technical Note calculations.

2.3 The likely number of AM and PM weekday peak hour vehicular generation for all land uses proposed on site is set out in **Table 2.2** below, to update Table 9.1 of TN/02/A, for reference.

Table 2.2 – Peel Hall Vehicular Trip Generation Summary

Development Traffic	AM Peak Hour		PM Peak Hour	
	Arrival	Departure	Arrival	Departure
Residential Trips	270	628	594	368
Care Home Trips	7	7	8	8
Employment Trips	69	39	20	47
Food Store Trips	92	61	181	191
Local Centre Shop Trips	30	29	36	39
Family Pub/Restaurant Trips	-	-	23	15
Primary School Trips	113	79	19	27
Community Uses	10	5	8	7
Total Trips	591	848	889	702

- 2.4 It can be seen from the above table that there may be up to around 1,591 vehicular movements associated with the proposed land uses on the Peel Hall development during the busiest weekday peak hour when no discounts for trip containment and pass-by trips are accounted for.

3.0 Peak Period Trip Rates – TN/02/Addendum Updated Table

3.1 The peak period trip rates and trip generation figures for the revised family pub/restaurant GFA of 800 square metres is set out in Table 3.1 below, based on Table 2.6 of TN/02/A/Addendum (dated March 2016).

Table 3.1 – Family Pub/Restaurant (800sqm)

Hour	Trip Rates (per 100sqm)		TRIPS	
	Arr.	Dep.	Arr.	Dep.
1600-1700	1.828	1.195	15	10
1700-1800	2.847	1.845	23	15
1800-1900	3.023	2.513	24	20
1800-1830*	1.512	1.257	12	10

4.0 Trip Discounts – TN/06 Updated Tables

- 4.1 The estimated trip discounts applied to the level of arrival and departure trips during the PM peak hour are set out in **Table 4.1** below, as extracted from Table 3.2 of TN/06 (date March 2016) and updated to reflect the reduction in GFA of the family pub/restaurant.
- 4.2 These figures are based on the trip rates contained in **Table 2.1** of this report and Table 2.2 of TN/06, which set out that external trips are expected to account for 75 percent of the total family pub/restaurant vehicle trips; 25 percent of vehicle trips would be contained within the development site.

Table 4.1 - PM Peak Hour Trips, with Discount Applied

Land Use	Trip Numbers PM Peak Hour 1700-1800					
	Internal (Arrival)	Internal (Departure)	Pass-By (Arrival)	Pass-by (Departure)	External New (Arrival)	External New (Departure)
Residential	119	74	-	-	475	294
Care Home	0	0	-	-	8	8
Employment	0	0	-	-	20	47
Food Store	109	115	18	19	54	57
Local Centre	25	27	-	-	11	12
Family Pub/Restaurant	6	4	-	-	17	11
Primary School	9	13	-	-	10	14
Community Uses	0	0	-	-	8	7
To be used in modelling			18	19	603	450

- 4.3 A summary of the resultant peak hour vehicle trips and the overall discount applied, based on the expected level of contained trips and the updated family pub/restaurant GFA, is set out in a revised Table 3.3 from TN/06 as **Table 4.2** below.

Table 4.2 – Summary of Vehicle Trip Numbers

	AM Arrival	AM Departure	PM Arrival	PM Departure
a) Total Identified Trips TN02/A	591	848	889	702
b) Figures to be Used in Modelling	379	609	621	469
Overall Discount (a-b)	212	239	268	466

- 4.4 Therefore, as an update to paragraph 3.3 of TN/06, it can be seen that there may be up to around 1,090 vehicle trips on the local highway network in the busiest peak hour as a result of the Peel Hall development. These figures should also be used in place of the figures quoted in paragraphs 5.8 and 5.9 of TN/06.

4.5 The resultant vehicle trips arising from the proposed development across the PM peak period are provided in **Table 4.3** below, as an update to the family pub/restaurant peak period Table 4.6 of TN/06, with reference to **Table 3.1** in **Section 3.0** of this report.

Table 4.3 – Family Pub/Restaurant (800sqm)

Peak Period	EXTERNAL TRIPS (75%)	
	Arr.	Dep.
1600-1700	11	8
1700-1800	17	11
1800-1830	9	8

5.0 Vehicle Trips at Site Access – TN/08 Updated Table

- 5.1 The full set of peak period vehicular trip tables from TN08 (dated April 2016) are contained in **Appendix 2** further to the reduction in GFA of the family pub/restaurant with updates to the PM peak period tables.
- 5.2 The number of vehicle trips at each access during the peak hours of 0800 to 0900 and 1700 to 1800, updated from that set out in TN/08 due to the reduction in the family pub/restaurant GFA of 1,600 to 800 square metres, can be summarised as set out in **Table 5.1** below for ease of reference.

Table 5.1 – Summary of Peak Hour Vehicle Trip Numbers at Each Access Location

Access	AM Arrival	AM Departure	PM Arrival	PM Departure
Mill Lane	34	79	74	46
Mill Lane/Blackbrook Avenue	154	313	288	186
Poplars Avenue (Central)	112*	178*	238*	191*
Poplars Avenue (West)	69	39	20	47
Birch Avenue	5	11	10	6
Grasmere Avenue	10	5	7	8
Total	384	625	637	484

*Includes food store pass-by trips

- 5.3 It can be seen that, when considering the total number of trips at each access location, there may be up to around 1,121 vehicle movements arising from the Peel Hall development profile in the PM peak hour of 1700 to 1800.
- 5.4 This figure is higher than that set out in **Paragraph 4.4** due to the application of the trip rates after splitting the residential traffic between the accesses, rather than beforehand. It is considered that this figure of 1,121 is therefore a robust assumption.

6.0 Summary

- 6.1 This Technical Note has been prepared by Highgate Transportation Limited on behalf of Satnam Millennium Limited to update the vehicle trip number information from the previously submitted Technical Notes, following a change in the development profile resulting from a reduction in the size of the family pub/restaurant from 1,600 square metres to 800 square metres Gross Floor Area.
- 6.2 The proposed development profile for the land at Peel Hall, Warrington, is as follows:
- i. A residential neighbourhood with up to 1,200 residential dwellings.
 - ii. A 100-bed care home.
 - iii. An area of employment land comprising up to 7,500 square metres GFA of B1(c) light industry.
 - iv. A neighbourhood centre comprising a food store of up to 2,000 square metres GFA plus up to a further 600 square metre GFA of local centre type facilities and a family pub and restaurant of up to 800 square metres GFA.
 - v. A primary school for up to two-form entry (i.e. up to 420 pupils).
 - vi. Open space including sports pitches and ancillary facilities, which are expected to include changing facilities for up to four teams at any one time and a function room that could be used for local community uses such as a local mother and toddler group.
- 6.3 The number of vehicle trips at each access during the peak hours, reduced from that set out in TN/08 as a result of the reduction in the family pub/restaurant GFA, and which summarises all the minor changes made in this Technical Note, are set out in **Table 5.1**. It can therefore be concluded that there may be up to around 1,121 vehicle trips on the local highway network in the busiest peak hour associated with the proposed Peel Hall development profile.
- 6.4 It is considered that the overall approach and assumptions that have been applied to the calculations within the Peel Hall Technical Notes submitted by Highgate Transportation to date are robust and that the use of higher trip rates where possible gives confidence to the overall figures used in the assessment.

Appendix 1

TRICS Data for Family Pub/Restaurant

Calculation Reference: AUDIT-355901-160129-0114

TRIP RATE CALCULATION SELECTION PARAMETERS:

Land Use : 06 - HOTEL, FOOD & DRINK
 Category : C - PUB/RESTAURANT
 MULTI-MODAL VEHICLES

Selected regions and areas:

02	SOUTH EAST	
	EX ESSEX	1 days
	HC HAMPSHIRE	1 days
03	SOUTH WEST	
	CW CORNWALL	1 days
05	EAST MIDLANDS	
	NT NOTTINGHAMSHIRE	1 days
06	WEST MIDLANDS	
	SH SHROPSHIRE	1 days
	ST STAFFORDSHIRE	1 days
09	NORTH	
	TV TEES VALLEY	1 days

This section displays the number of survey days per TRICS® sub-region in the selected set

Filtering Stage 2 selection:

This data displays the chosen trip rate parameter and its selected range. Only sites that fall within the parameter range are included in the trip rate calculation.

Parameter: Gross floor area
 Actual Range: 285 to 1400 (units: sqm)
 Range Selected by User: 270 to 2000 (units: sqm)

Public Transport Provision:

Selection by: Include all surveys

Date Range: 01/01/07 to 25/05/14

This data displays the range of survey dates selected. Only surveys that were conducted within this date range are included in the trip rate calculation.

Selected survey days:

Wednesday 1 days
 Friday 6 days

This data displays the number of selected surveys by day of the week.

Selected survey types:

Manual count 7 days
 Directional ATC Count 0 days

This data displays the number of manual classified surveys and the number of unclassified ATC surveys, the total adding up to the overall number of surveys in the selected set. Manual surveys are undertaken using staff, whilst ATC surveys are undertaken using machines.

Selected Locations:

Suburban Area (PPS6 Out of Centre) 4
 Edge of Town 3

This data displays the number of surveys per main location category within the selected set. The main location categories consist of Free Standing, Edge of Town, Suburban Area, Neighbourhood Centre, Edge of Town Centre, Town Centre and Not Known.

Selected Location Sub Categories:

Residential Zone 2
 No Sub Category 5

This data displays the number of surveys per location sub-category within the selected set. The location sub-categories consist of Commercial Zone, Industrial Zone, Development Zone, Residential Zone, Retail Zone, Built-Up Zone, Village, Out of Town, High Street and No Sub Category.

Filtering Stage 3 selection:

Use Class:

A3	1 days
A4	6 days

This data displays the number of surveys per Use Class classification within the selected set. The Use Classes Order 2005 has been used for this purpose, which can be found within the Library module of TRICS®.

Population within 1 mile:

5,001 to 10,000	2 days
10,001 to 15,000	2 days
15,001 to 20,000	1 days
25,001 to 50,000	2 days

This data displays the number of selected surveys within stated 1-mile radii of population.

Population within 5 miles:

5,001 to 25,000	2 days
50,001 to 75,000	1 days
75,001 to 100,000	1 days
250,001 to 500,000	3 days

This data displays the number of selected surveys within stated 5-mile radii of population.

Car ownership within 5 miles:

0.6 to 1.0	2 days
1.1 to 1.5	4 days
2.1 to 2.5	1 days

This data displays the number of selected surveys within stated ranges of average cars owned per residential dwelling, within a radius of 5-miles of selected survey sites.

Travel Plan:

No	7 days
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This data displays the number of surveys within the selected set that were undertaken at sites with Travel Plans in place, and the number of surveys that were undertaken at sites without Travel Plans.

LIST OF SITES relevant to selection parameters

1	CW-06-C-01 FORE STREET POOL CAMBORNE Suburban Area (PPS6 Out of Centre) No Sub Category Total Gross floor area: 285 sqm Survey date: FRIDAY 21/09/07	PUB/RESTAURANT	CORNWALL	Survey Type: MANUAL
2	EX-06-C-02 LONDON ROAD STANWAY COLCHESTER Edge of Town No Sub Category Total Gross floor area: 450 sqm Survey date: FRIDAY 08/11/13	HARVESTER	ESSEX	Survey Type: MANUAL
3	HC-06-C-02 BOURNEMOUTH ROAD AMPFIELD EASTLEIGH Suburban Area (PPS6 Out of Centre) No Sub Category Total Gross floor area: 450 sqm Survey date: FRIDAY 16/11/07	BEEFEATER	HAMPSHIRE	Survey Type: MANUAL
4	NT-06-C-02 MANSFIELD ROAD DAYBROOK NOTTINGHAM Suburban Area (PPS6 Out of Centre) Residential Zone Total Gross floor area: 1185 sqm Survey date: FRIDAY 18/05/07	PUB/RESTAURANT	NOTTINGHAMSHIRE	Survey Type: MANUAL
5	SH-06-C-02 WELSHPOOL ROAD SHELTON SHREWSBURY Edge of Town No Sub Category Total Gross floor area: 1400 sqm Survey date: FRIDAY 26/06/09	HUNGRY HORSE	SHROPSHIRE	Survey Type: MANUAL
6	ST-06-C-01 STONE ROAD TRENTHAM STOKE-ON-TRENT Edge of Town Residential Zone Total Gross floor area: 720 sqm Survey date: WEDNESDAY 23/10/13	HARVESTER	STAFFORDSHIRE	Survey Type: MANUAL
7	TV-06-C-01 MARTON ROAD MIDDLESBROUGH Suburban Area (PPS6 Out of Centre) No Sub Category Total Gross floor area: 1200 sqm Survey date: FRIDAY 21/09/07	PUB/RES.	TEES VALLEY	Survey Type: MANUAL

This section provides a list of all survey sites and days in the selected set. For each individual survey site, it displays a unique site reference code and site address, the selected trip rate calculation parameter and its value, the day of the week and date of each survey, and whether the survey was a manual classified count or an ATC count.

TRIP RATE for Land Use 06 - HOTEL, FOOD & DRINK/C - PUB/RESTAURANT
 MULTI-MODAL VEHICLES
 Calculation factor: 100 sqm
 BOLD print indicates peak (busiest) period

Time Range	ARRIVALS			DEPARTURES			TOTALS		
	No. Days	Ave. GFA	Trip Rate	No. Days	Ave. GFA	Trip Rate	No. Days	Ave. GFA	Trip Rate
00:00 - 01:00									
01:00 - 02:00									
02:00 - 03:00									
03:00 - 04:00									
04:00 - 05:00									
05:00 - 06:00									
06:00 - 07:00									
07:00 - 08:00									
08:00 - 09:00									
09:00 - 10:00									
10:00 - 11:00	7	813	0.316	7	813	0.228	7	813	0.544
11:00 - 12:00	7	813	1.248	7	813	0.527	7	813	1.775
12:00 - 13:00	7	813	2.917	7	813	1.248	7	813	4.165
13:00 - 14:00	7	813	2.355	7	813	2.056	7	813	4.411
14:00 - 15:00	7	813	1.195	7	813	2.724	7	813	3.919
15:00 - 16:00	7	813	1.142	7	813	1.336	7	813	2.478
16:00 - 17:00	7	813	1.828	7	813	1.195	7	813	3.023
17:00 - 18:00	7	813	2.847	7	813	1.845	7	813	4.692
18:00 - 19:00	7	813	3.023	7	813	2.513	7	813	5.536
19:00 - 20:00	7	813	3.023	7	813	2.724	7	813	5.747
20:00 - 21:00	7	813	1.880	7	813	2.408	7	813	4.288
21:00 - 22:00	7	813	1.037	7	813	2.056	7	813	3.093
22:00 - 23:00	7	813	0.492	7	813	1.670	7	813	2.162
23:00 - 24:00	7	813	0.211	7	813	1.160	7	813	1.371
Total Rates:			23.514			23.690			47.204

This section displays the trip rate results based on the selected set of surveys and the selected count type (shown just above the table). It is split by three main columns, representing arrivals trips, departures trips, and total trips (arrivals plus departures). Within each of these main columns are three sub-columns. These display the number of survey days where count data is included (per time period), the average value of the selected trip rate calculation parameter (per time period), and the trip rate result (per time period). Total trip rates (the sum of the column) are also displayed at the foot of the table.

To obtain a trip rate, the average (mean) trip rate parameter value (TRP) is first calculated for all selected survey days that have count data available for the stated time period. The average (mean) number of arrivals, departures or totals (whichever applies) is also calculated (COUNT) for all selected survey days that have count data available for the stated time period. Then, the average count is divided by the average trip rate parameter value, and multiplied by the stated calculation factor (shown just above the table and abbreviated here as FACT). So, the method is: COUNT/TRP*FACT. Trip rates are then rounded to 3 decimal places.

Parameter summary

Trip rate parameter range selected: 285 - 1400 (units: sqm)
 Survey date date range: 01/01/07 - 25/05/14
 Number of weekdays (Monday-Friday): 7
 Number of Saturdays: 0
 Number of Sundays: 0
 Surveys manually removed from selection: 1

This section displays a quick summary of some of the data filtering selections made by the TRICS® user. The trip rate calculation parameter range of all selected surveys is displayed first, followed by the range of minimum and maximum survey dates selected by the user. Then, the total number of selected weekdays and weekend days in the selected set of surveys are show. Finally, the number of survey days that have been manually removed from the selected set outside of the standard filtering procedure are displayed.

TRIP RATE for Land Use 06 - HOTEL, FOOD & DRINK/C - PUB/RESTAURANT

MULTI-MODAL TAXIS

Calculation factor: 100 sqm

BOLD print indicates peak (busiest) period

Time Range	ARRIVALS			DEPARTURES			TOTALS		
	No. Days	Ave. GFA	Trip Rate	No. Days	Ave. GFA	Trip Rate	No. Days	Ave. GFA	Trip Rate
00:00 - 01:00									
01:00 - 02:00									
02:00 - 03:00									
03:00 - 04:00									
04:00 - 05:00									
05:00 - 06:00									
06:00 - 07:00									
07:00 - 08:00									
08:00 - 09:00									
09:00 - 10:00									
10:00 - 11:00	7	813	0.000	7	813	0.000	7	813	0.000
11:00 - 12:00	7	813	0.018	7	813	0.018	7	813	0.036
12:00 - 13:00	7	813	0.053	7	813	0.035	7	813	0.088
13:00 - 14:00	7	813	0.018	7	813	0.018	7	813	0.036
14:00 - 15:00	7	813	0.018	7	813	0.018	7	813	0.036
15:00 - 16:00	7	813	0.018	7	813	0.018	7	813	0.036
16:00 - 17:00	7	813	0.000	7	813	0.000	7	813	0.000
17:00 - 18:00	7	813	0.088	7	813	0.070	7	813	0.158
18:00 - 19:00	7	813	0.035	7	813	0.053	7	813	0.088
19:00 - 20:00	7	813	0.141	7	813	0.141	7	813	0.282
20:00 - 21:00	7	813	0.070	7	813	0.070	7	813	0.140
21:00 - 22:00	7	813	0.105	7	813	0.088	7	813	0.193
22:00 - 23:00	7	813	0.176	7	813	0.193	7	813	0.369
23:00 - 24:00	7	813	0.105	7	813	0.105	7	813	0.210
Total Rates:			0.845			0.827			1.672

This section displays the trip rate results based on the selected set of surveys and the selected count type (shown just above the table). It is split by three main columns, representing arrivals trips, departures trips, and total trips (arrivals plus departures). Within each of these main columns are three sub-columns. These display the number of survey days where count data is included (per time period), the average value of the selected trip rate calculation parameter (per time period), and the trip rate result (per time period). Total trip rates (the sum of the column) are also displayed at the foot of the table.

To obtain a trip rate, the average (mean) trip rate parameter value (TRP) is first calculated for all selected survey days that have count data available for the stated time period. The average (mean) number of arrivals, departures or totals (whichever applies) is also calculated (COUNT) for all selected survey days that have count data available for the stated time period. Then, the average count is divided by the average trip rate parameter value, and multiplied by the stated calculation factor (shown just above the table and abbreviated here as FACT). So, the method is: COUNT/TRP*FACT. Trip rates are then rounded to 3 decimal places.

Parameter summary

Trip rate parameter range selected: 285 - 1400 (units: sqm)
 Survey date range: 01/01/07 - 25/05/14
 Number of weekdays (Monday-Friday): 7
 Number of Saturdays: 0
 Number of Sundays: 0
 Surveys manually removed from selection: 1

This section displays a quick summary of some of the data filtering selections made by the TRICS® user. The trip rate calculation parameter range of all selected surveys is displayed first, followed by the range of minimum and maximum survey dates selected by the user. Then, the total number of selected weekdays and weekend days in the selected set of surveys are shown. Finally, the number of survey days that have been manually removed from the selected set outside of the standard filtering procedure are displayed.

TRIP RATE for Land Use 06 - HOTEL, FOOD & DRINK/C - PUB/RESTAURANT
 MULTI-MODAL OGVS
 Calculation factor: 100 sqm
 BOLD print indicates peak (busiest) period

Time Range	ARRIVALS			DEPARTURES			TOTALS		
	No. Days	Ave. GFA	Trip Rate	No. Days	Ave. GFA	Trip Rate	No. Days	Ave. GFA	Trip Rate
00:00 - 01:00									
01:00 - 02:00									
02:00 - 03:00									
03:00 - 04:00									
04:00 - 05:00									
05:00 - 06:00									
06:00 - 07:00									
07:00 - 08:00									
08:00 - 09:00									
09:00 - 10:00									
10:00 - 11:00	7	813	0.018	7	813	0.018	7	813	0.036
11:00 - 12:00	7	813	0.088	7	813	0.053	7	813	0.141
12:00 - 13:00	7	813	0.000	7	813	0.018	7	813	0.018
13:00 - 14:00	7	813	0.000	7	813	0.000	7	813	0.000
14:00 - 15:00	7	813	0.000	7	813	0.018	7	813	0.018
15:00 - 16:00	7	813	0.035	7	813	0.035	7	813	0.070
16:00 - 17:00	7	813	0.018	7	813	0.018	7	813	0.036
17:00 - 18:00	7	813	0.000	7	813	0.000	7	813	0.000
18:00 - 19:00	7	813	0.018	7	813	0.018	7	813	0.036
19:00 - 20:00	7	813	0.000	7	813	0.000	7	813	0.000
20:00 - 21:00	7	813	0.000	7	813	0.000	7	813	0.000
21:00 - 22:00	7	813	0.000	7	813	0.000	7	813	0.000
22:00 - 23:00	7	813	0.000	7	813	0.000	7	813	0.000
23:00 - 24:00	7	813	0.000	7	813	0.000	7	813	0.000
Total Rates:			0.177			0.178			0.355

This section displays the trip rate results based on the selected set of surveys and the selected count type (shown just above the table). It is split by three main columns, representing arrivals trips, departures trips, and total trips (arrivals plus departures). Within each of these main columns are three sub-columns. These display the number of survey days where count data is included (per time period), the average value of the selected trip rate calculation parameter (per time period), and the trip rate result (per time period). Total trip rates (the sum of the column) are also displayed at the foot of the table.

To obtain a trip rate, the average (mean) trip rate parameter value (TRP) is first calculated for all selected survey days that have count data available for the stated time period. The average (mean) number of arrivals, departures or totals (whichever applies) is also calculated (COUNT) for all selected survey days that have count data available for the stated time period. Then, the average count is divided by the average trip rate parameter value, and multiplied by the stated calculation factor (shown just above the table and abbreviated here as FACT). So, the method is: COUNT/TRP*FACT. Trip rates are then rounded to 3 decimal places.

Parameter summary

Trip rate parameter range selected: 285 - 1400 (units: sqm)
 Survey date date range: 01/01/07 - 25/05/14
 Number of weekdays (Monday-Friday): 7
 Number of Saturdays: 0
 Number of Sundays: 0
 Surveys manually removed from selection: 1

This section displays a quick summary of some of the data filtering selections made by the TRICS® user. The trip rate calculation parameter range of all selected surveys is displayed first, followed by the range of minimum and maximum survey dates selected by the user. Then, the total number of selected weekdays and weekend days in the selected set of surveys are shown. Finally, the number of survey days that have been manually removed from the selected set outside of the standard filtering procedure are displayed.

TRIP RATE for Land Use 06 - HOTEL, FOOD & DRINK/C - PUB/RESTAURANT
 MULTI-MODAL PSVS
 Calculation factor: 100 sqm
 BOLD print indicates peak (busiest) period

Time Range	ARRIVALS			DEPARTURES			TOTALS		
	No. Days	Ave. GFA	Trip Rate	No. Days	Ave. GFA	Trip Rate	No. Days	Ave. GFA	Trip Rate
00:00 - 01:00									
01:00 - 02:00									
02:00 - 03:00									
03:00 - 04:00									
04:00 - 05:00									
05:00 - 06:00									
06:00 - 07:00									
07:00 - 08:00									
08:00 - 09:00									
09:00 - 10:00									
10:00 - 11:00	7	813	0.000	7	813	0.000	7	813	0.000
11:00 - 12:00	7	813	0.035	7	813	0.000	7	813	0.035
12:00 - 13:00	7	813	0.000	7	813	0.000	7	813	0.000
13:00 - 14:00	7	813	0.018	7	813	0.035	7	813	0.053
14:00 - 15:00	7	813	0.000	7	813	0.000	7	813	0.000
15:00 - 16:00	7	813	0.000	7	813	0.000	7	813	0.000
16:00 - 17:00	7	813	0.000	7	813	0.018	7	813	0.018
17:00 - 18:00	7	813	0.000	7	813	0.000	7	813	0.000
18:00 - 19:00	7	813	0.000	7	813	0.000	7	813	0.000
19:00 - 20:00	7	813	0.000	7	813	0.000	7	813	0.000
20:00 - 21:00	7	813	0.000	7	813	0.000	7	813	0.000
21:00 - 22:00	7	813	0.000	7	813	0.000	7	813	0.000
22:00 - 23:00	7	813	0.000	7	813	0.000	7	813	0.000
23:00 - 24:00	7	813	0.000	7	813	0.000	7	813	0.000
Total Rates:			0.053			0.053			0.106

This section displays the trip rate results based on the selected set of surveys and the selected count type (shown just above the table). It is split by three main columns, representing arrivals trips, departures trips, and total trips (arrivals plus departures). Within each of these main columns are three sub-columns. These display the number of survey days where count data is included (per time period), the average value of the selected trip rate calculation parameter (per time period), and the trip rate result (per time period). Total trip rates (the sum of the column) are also displayed at the foot of the table.

To obtain a trip rate, the average (mean) trip rate parameter value (TRP) is first calculated for all selected survey days that have count data available for the stated time period. The average (mean) number of arrivals, departures or totals (whichever applies) is also calculated (COUNT) for all selected survey days that have count data available for the stated time period. Then, the average count is divided by the average trip rate parameter value, and multiplied by the stated calculation factor (shown just above the table and abbreviated here as FACT). So, the method is: COUNT/TRP*FACT. Trip rates are then rounded to 3 decimal places.

Parameter summary

Trip rate parameter range selected: 285 - 1400 (units: sqm)
 Survey date date range: 01/01/07 - 25/05/14
 Number of weekdays (Monday-Friday): 7
 Number of Saturdays: 0
 Number of Sundays: 0
 Surveys manually removed from selection: 1

This section displays a quick summary of some of the data filtering selections made by the TRICS® user. The trip rate calculation parameter range of all selected surveys is displayed first, followed by the range of minimum and maximum survey dates selected by the user. Then, the total number of selected weekdays and weekend days in the selected set of surveys are shown. Finally, the number of survey days that have been manually removed from the selected set outside of the standard filtering procedure are displayed.

TRIP RATE for Land Use 06 - HOTEL, FOOD & DRINK/C - PUB/RESTAURANT
 MULTI-MODAL CYCLISTS
 Calculation factor: 100 sqm
 BOLD print indicates peak (busiest) period

Time Range	ARRIVALS			DEPARTURES			TOTALS		
	No. Days	Ave. GFA	Trip Rate	No. Days	Ave. GFA	Trip Rate	No. Days	Ave. GFA	Trip Rate
00:00 - 01:00									
01:00 - 02:00									
02:00 - 03:00									
03:00 - 04:00									
04:00 - 05:00									
05:00 - 06:00									
06:00 - 07:00									
07:00 - 08:00									
08:00 - 09:00									
09:00 - 10:00									
10:00 - 11:00	7	813	0.000	7	813	0.000	7	813	0.000
11:00 - 12:00	7	813	0.018	7	813	0.018	7	813	0.036
12:00 - 13:00	7	813	0.018	7	813	0.000	7	813	0.018
13:00 - 14:00	7	813	0.000	7	813	0.000	7	813	0.000
14:00 - 15:00	7	813	0.018	7	813	0.018	7	813	0.036
15:00 - 16:00	7	813	0.018	7	813	0.000	7	813	0.018
16:00 - 17:00	7	813	0.018	7	813	0.035	7	813	0.053
17:00 - 18:00	7	813	0.000	7	813	0.000	7	813	0.000
18:00 - 19:00	7	813	0.000	7	813	0.000	7	813	0.000
19:00 - 20:00	7	813	0.035	7	813	0.000	7	813	0.035
20:00 - 21:00	7	813	0.018	7	813	0.053	7	813	0.071
21:00 - 22:00	7	813	0.018	7	813	0.035	7	813	0.053
22:00 - 23:00	7	813	0.000	7	813	0.000	7	813	0.000
23:00 - 24:00	7	813	0.000	7	813	0.000	7	813	0.000
Total Rates:			0.161			0.159			0.320

This section displays the trip rate results based on the selected set of surveys and the selected count type (shown just above the table). It is split by three main columns, representing arrivals trips, departures trips, and total trips (arrivals plus departures). Within each of these main columns are three sub-columns. These display the number of survey days where count data is included (per time period), the average value of the selected trip rate calculation parameter (per time period), and the trip rate result (per time period). Total trip rates (the sum of the column) are also displayed at the foot of the table.

To obtain a trip rate, the average (mean) trip rate parameter value (TRP) is first calculated for all selected survey days that have count data available for the stated time period. The average (mean) number of arrivals, departures or totals (whichever applies) is also calculated (COUNT) for all selected survey days that have count data available for the stated time period. Then, the average count is divided by the average trip rate parameter value, and multiplied by the stated calculation factor (shown just above the table and abbreviated here as FACT). So, the method is: COUNT/TRP*FACT. Trip rates are then rounded to 3 decimal places.

Parameter summary

Trip rate parameter range selected: 285 - 1400 (units: sqm)
 Survey date date range: 01/01/07 - 25/05/14
 Number of weekdays (Monday-Friday): 7
 Number of Saturdays: 0
 Number of Sundays: 0
 Surveys manually removed from selection: 1

This section displays a quick summary of some of the data filtering selections made by the TRICS® user. The trip rate calculation parameter range of all selected surveys is displayed first, followed by the range of minimum and maximum survey dates selected by the user. Then, the total number of selected weekdays and weekend days in the selected set of surveys are shown. Finally, the number of survey days that have been manually removed from the selected set outside of the standard filtering procedure are displayed.

TRIP RATE for Land Use 06 - HOTEL, FOOD & DRINK/C - PUB/RESTAURANT
 MULTI-MODAL VEHICLE OCCUPANTS
 Calculation factor: 100 sqm
 BOLD print indicates peak (busiest) period

Time Range	ARRIVALS			DEPARTURES			TOTALS		
	No. Days	Ave. GFA	Trip Rate	No. Days	Ave. GFA	Trip Rate	No. Days	Ave. GFA	Trip Rate
00:00 - 01:00									
01:00 - 02:00									
02:00 - 03:00									
03:00 - 04:00									
04:00 - 05:00									
05:00 - 06:00									
06:00 - 07:00									
07:00 - 08:00									
08:00 - 09:00									
09:00 - 10:00									
10:00 - 11:00	7	813	0.439	7	813	0.334	7	813	0.773
11:00 - 12:00	7	813	1.845	7	813	0.650	7	813	2.495
12:00 - 13:00	7	813	5.677	7	813	2.021	7	813	7.698
13:00 - 14:00	7	813	4.359	7	813	3.743	7	813	8.102
14:00 - 15:00	7	813	2.144	7	813	5.220	7	813	7.364
15:00 - 16:00	7	813	2.144	7	813	2.355	7	813	4.499
16:00 - 17:00	7	813	3.322	7	813	2.091	7	813	5.413
17:00 - 18:00	7	813	4.938	7	813	3.199	7	813	8.137
18:00 - 19:00	7	813	6.520	7	813	4.534	7	813	11.054
19:00 - 20:00	7	813	5.747	7	813	5.712	7	813	11.459
20:00 - 21:00	7	813	3.902	7	813	4.728	7	813	8.630
21:00 - 22:00	7	813	1.828	7	813	3.884	7	813	5.712
22:00 - 23:00	7	813	0.721	7	813	3.163	7	813	3.884
23:00 - 24:00	7	813	0.211	7	813	2.355	7	813	2.566
Total Rates:			43.797			43.989			87.786

This section displays the trip rate results based on the selected set of surveys and the selected count type (shown just above the table). It is split by three main columns, representing arrivals trips, departures trips, and total trips (arrivals plus departures). Within each of these main columns are three sub-columns. These display the number of survey days where count data is included (per time period), the average value of the selected trip rate calculation parameter (per time period), and the trip rate result (per time period). Total trip rates (the sum of the column) are also displayed at the foot of the table.

To obtain a trip rate, the average (mean) trip rate parameter value (TRP) is first calculated for all selected survey days that have count data available for the stated time period. The average (mean) number of arrivals, departures or totals (whichever applies) is also calculated (COUNT) for all selected survey days that have count data available for the stated time period. Then, the average count is divided by the average trip rate parameter value, and multiplied by the stated calculation factor (shown just above the table and abbreviated here as FACT). So, the method is: COUNT/TRP*FACT. Trip rates are then rounded to 3 decimal places.

Parameter summary

Trip rate parameter range selected: 285 - 1400 (units: sqm)
 Survey date date range: 01/01/07 - 25/05/14
 Number of weekdays (Monday-Friday): 7
 Number of Saturdays: 0
 Number of Sundays: 0
 Surveys manually removed from selection: 1

This section displays a quick summary of some of the data filtering selections made by the TRICS® user. The trip rate calculation parameter range of all selected surveys is displayed first, followed by the range of minimum and maximum survey dates selected by the user. Then, the total number of selected weekdays and weekend days in the selected set of surveys are show. Finally, the number of survey days that have been manually removed from the selected set outside of the standard filtering procedure are displayed.

TRIP RATE for Land Use 06 - HOTEL, FOOD & DRINK/C - PUB/RESTAURANT
 MULTI-MODAL PEDESTRIANS
 Calculation factor: 100 sqm
 BOLD print indicates peak (busiest) period

Time Range	ARRIVALS			DEPARTURES			TOTALS		
	No. Days	Ave. GFA	Trip Rate	No. Days	Ave. GFA	Trip Rate	No. Days	Ave. GFA	Trip Rate
00:00 - 01:00									
01:00 - 02:00									
02:00 - 03:00									
03:00 - 04:00									
04:00 - 05:00									
05:00 - 06:00									
06:00 - 07:00									
07:00 - 08:00									
08:00 - 09:00									
09:00 - 10:00									
10:00 - 11:00	7	813	0.070	7	813	0.000	7	813	0.070
11:00 - 12:00	7	813	0.510	7	813	0.123	7	813	0.633
12:00 - 13:00	7	813	0.984	7	813	0.422	7	813	1.406
13:00 - 14:00	7	813	0.896	7	813	1.336	7	813	2.232
14:00 - 15:00	7	813	0.492	7	813	0.879	7	813	1.371
15:00 - 16:00	7	813	0.439	7	813	0.264	7	813	0.703
16:00 - 17:00	7	813	0.422	7	813	0.193	7	813	0.615
17:00 - 18:00	7	813	0.685	7	813	0.492	7	813	1.177
18:00 - 19:00	7	813	0.967	7	813	0.615	7	813	1.582
19:00 - 20:00	7	813	0.967	7	813	0.510	7	813	1.477
20:00 - 21:00	7	813	0.967	7	813	0.475	7	813	1.442
21:00 - 22:00	7	813	0.422	7	813	0.967	7	813	1.389
22:00 - 23:00	7	813	0.105	7	813	0.668	7	813	0.773
23:00 - 24:00	7	813	0.018	7	813	0.721	7	813	0.739
Total Rates:			7.944			7.665			15.609

This section displays the trip rate results based on the selected set of surveys and the selected count type (shown just above the table). It is split by three main columns, representing arrivals trips, departures trips, and total trips (arrivals plus departures). Within each of these main columns are three sub-columns. These display the number of survey days where count data is included (per time period), the average value of the selected trip rate calculation parameter (per time period), and the trip rate result (per time period). Total trip rates (the sum of the column) are also displayed at the foot of the table.

To obtain a trip rate, the average (mean) trip rate parameter value (TRP) is first calculated for all selected survey days that have count data available for the stated time period. The average (mean) number of arrivals, departures or totals (whichever applies) is also calculated (COUNT) for all selected survey days that have count data available for the stated time period. Then, the average count is divided by the average trip rate parameter value, and multiplied by the stated calculation factor (shown just above the table and abbreviated here as FACT). So, the method is: COUNT/TRP*FACT. Trip rates are then rounded to 3 decimal places.

Parameter summary

Trip rate parameter range selected: 285 - 1400 (units: sqm)
 Survey date date range: 01/01/07 - 25/05/14
 Number of weekdays (Monday-Friday): 7
 Number of Saturdays: 0
 Number of Sundays: 0
 Surveys manually removed from selection: 1

This section displays a quick summary of some of the data filtering selections made by the TRICS® user. The trip rate calculation parameter range of all selected surveys is displayed first, followed by the range of minimum and maximum survey dates selected by the user. Then, the total number of selected weekdays and weekend days in the selected set of surveys are shown. Finally, the number of survey days that have been manually removed from the selected set outside of the standard filtering procedure are displayed.

TRIP RATE for Land Use 06 - HOTEL, FOOD & DRINK/C - PUB/RESTAURANT
 MULTI-MODAL BUS/TRAM PASSENGERS
 Calculation factor: 100 sqm
 BOLD print indicates peak (busiest) period

Time Range	ARRIVALS			DEPARTURES			TOTALS		
	No. Days	Ave. GFA	Trip Rate	No. Days	Ave. GFA	Trip Rate	No. Days	Ave. GFA	Trip Rate
00:00 - 01:00									
01:00 - 02:00									
02:00 - 03:00									
03:00 - 04:00									
04:00 - 05:00									
05:00 - 06:00									
06:00 - 07:00									
07:00 - 08:00									
08:00 - 09:00									
09:00 - 10:00									
10:00 - 11:00	7	813	0.018	7	813	0.000	7	813	0.018
11:00 - 12:00	7	813	0.123	7	813	0.018	7	813	0.141
12:00 - 13:00	7	813	0.176	7	813	0.000	7	813	0.176
13:00 - 14:00	7	813	0.070	7	813	0.070	7	813	0.140
14:00 - 15:00	7	813	0.053	7	813	0.053	7	813	0.106
15:00 - 16:00	7	813	0.000	7	813	0.123	7	813	0.123
16:00 - 17:00	7	813	0.000	7	813	0.000	7	813	0.000
17:00 - 18:00	7	813	0.018	7	813	0.070	7	813	0.088
18:00 - 19:00	7	813	0.000	7	813	0.018	7	813	0.018
19:00 - 20:00	7	813	0.000	7	813	0.000	7	813	0.000
20:00 - 21:00	7	813	0.000	7	813	0.053	7	813	0.053
21:00 - 22:00	7	813	0.000	7	813	0.000	7	813	0.000
22:00 - 23:00	7	813	0.000	7	813	0.000	7	813	0.000
23:00 - 24:00	7	813	0.000	7	813	0.000	7	813	0.000
Total Rates:			0.458			0.405			0.863

This section displays the trip rate results based on the selected set of surveys and the selected count type (shown just above the table). It is split by three main columns, representing arrivals trips, departures trips, and total trips (arrivals plus departures). Within each of these main columns are three sub-columns. These display the number of survey days where count data is included (per time period), the average value of the selected trip rate calculation parameter (per time period), and the trip rate result (per time period). Total trip rates (the sum of the column) are also displayed at the foot of the table.

To obtain a trip rate, the average (mean) trip rate parameter value (TRP) is first calculated for all selected survey days that have count data available for the stated time period. The average (mean) number of arrivals, departures or totals (whichever applies) is also calculated (COUNT) for all selected survey days that have count data available for the stated time period. Then, the average count is divided by the average trip rate parameter value, and multiplied by the stated calculation factor (shown just above the table and abbreviated here as FACT). So, the method is: COUNT/TRP*FACT. Trip rates are then rounded to 3 decimal places.

Parameter summary

Trip rate parameter range selected: 285 - 1400 (units: sqm)
 Survey date date range: 01/01/07 - 25/05/14
 Number of weekdays (Monday-Friday): 7
 Number of Saturdays: 0
 Number of Sundays: 0
 Surveys manually removed from selection: 1

This section displays a quick summary of some of the data filtering selections made by the TRICS® user. The trip rate calculation parameter range of all selected surveys is displayed first, followed by the range of minimum and maximum survey dates selected by the user. Then, the total number of selected weekdays and weekend days in the selected set of surveys are shown. Finally, the number of survey days that have been manually removed from the selected set outside of the standard filtering procedure are displayed.

TRIP RATE for Land Use 06 - HOTEL, FOOD & DRINK/C - PUB/RESTAURANT
 MULTI-MODAL TOTAL RAIL PASSENGERS
 Calculation factor: 100 sqm
 BOLD print indicates peak (busiest) period

Time Range	ARRIVALS			DEPARTURES			TOTALS		
	No. Days	Ave. GFA	Trip Rate	No. Days	Ave. GFA	Trip Rate	No. Days	Ave. GFA	Trip Rate
00:00 - 01:00									
01:00 - 02:00									
02:00 - 03:00									
03:00 - 04:00									
04:00 - 05:00									
05:00 - 06:00									
06:00 - 07:00									
07:00 - 08:00									
08:00 - 09:00									
09:00 - 10:00									
10:00 - 11:00	7	813	0.000	7	813	0.000	7	813	0.000
11:00 - 12:00	7	813	0.000	7	813	0.000	7	813	0.000
12:00 - 13:00	7	813	0.000	7	813	0.000	7	813	0.000
13:00 - 14:00	7	813	0.000	7	813	0.000	7	813	0.000
14:00 - 15:00	7	813	0.000	7	813	0.000	7	813	0.000
15:00 - 16:00	7	813	0.000	7	813	0.000	7	813	0.000
16:00 - 17:00	7	813	0.000	7	813	0.000	7	813	0.000
17:00 - 18:00	7	813	0.000	7	813	0.000	7	813	0.000
18:00 - 19:00	7	813	0.000	7	813	0.000	7	813	0.000
19:00 - 20:00	7	813	0.000	7	813	0.000	7	813	0.000
20:00 - 21:00	7	813	0.000	7	813	0.000	7	813	0.000
21:00 - 22:00	7	813	0.000	7	813	0.000	7	813	0.000
22:00 - 23:00	7	813	0.000	7	813	0.000	7	813	0.000
23:00 - 24:00	7	813	0.000	7	813	0.000	7	813	0.000
Total Rates:			0.000			0.000			0.000

This section displays the trip rate results based on the selected set of surveys and the selected count type (shown just above the table). It is split by three main columns, representing arrivals trips, departures trips, and total trips (arrivals plus departures). Within each of these main columns are three sub-columns. These display the number of survey days where count data is included (per time period), the average value of the selected trip rate calculation parameter (per time period), and the trip rate result (per time period). Total trip rates (the sum of the column) are also displayed at the foot of the table.

To obtain a trip rate, the average (mean) trip rate parameter value (TRP) is first calculated for all selected survey days that have count data available for the stated time period. The average (mean) number of arrivals, departures or totals (whichever applies) is also calculated (COUNT) for all selected survey days that have count data available for the stated time period. Then, the average count is divided by the average trip rate parameter value, and multiplied by the stated calculation factor (shown just above the table and abbreviated here as FACT). So, the method is: COUNT/TRP*FACT. Trip rates are then rounded to 3 decimal places.

Parameter summary

Trip rate parameter range selected: 285 - 1400 (units: sqm)
 Survey date date range: 01/01/07 - 25/05/14
 Number of weekdays (Monday-Friday): 7
 Number of Saturdays: 0
 Number of Sundays: 0
 Surveys manually removed from selection: 1

This section displays a quick summary of some of the data filtering selections made by the TRICS® user. The trip rate calculation parameter range of all selected surveys is displayed first, followed by the range of minimum and maximum survey dates selected by the user. Then, the total number of selected weekdays and weekend days in the selected set of surveys are show. Finally, the number of survey days that have been manually removed from the selected set outside of the standard filtering procedure are displayed.

TRIP RATE for Land Use 06 - HOTEL, FOOD & DRINK/C - PUB/RESTAURANT
 MULTI-MODAL COACH PASSENGERS
 Calculation factor: 100 sqm
 BOLD print indicates peak (busiest) period

Time Range	ARRIVALS			DEPARTURES			TOTALS		
	No. Days	Ave. GFA	Trip Rate	No. Days	Ave. GFA	Trip Rate	No. Days	Ave. GFA	Trip Rate
00:00 - 01:00									
01:00 - 02:00									
02:00 - 03:00									
03:00 - 04:00									
04:00 - 05:00									
05:00 - 06:00									
06:00 - 07:00									
07:00 - 08:00									
08:00 - 09:00									
09:00 - 10:00									
10:00 - 11:00	7	813	0.000	7	813	0.000	7	813	0.000
11:00 - 12:00	7	813	0.000	7	813	0.000	7	813	0.000
12:00 - 13:00	7	813	0.000	7	813	0.000	7	813	0.000
13:00 - 14:00	7	813	0.000	7	813	0.000	7	813	0.000
14:00 - 15:00	7	813	0.000	7	813	0.000	7	813	0.000
15:00 - 16:00	7	813	0.000	7	813	0.000	7	813	0.000
16:00 - 17:00	7	813	0.000	7	813	0.000	7	813	0.000
17:00 - 18:00	7	813	0.000	7	813	0.000	7	813	0.000
18:00 - 19:00	7	813	0.000	7	813	0.000	7	813	0.000
19:00 - 20:00	7	813	0.000	7	813	0.000	7	813	0.000
20:00 - 21:00	7	813	0.000	7	813	0.000	7	813	0.000
21:00 - 22:00	7	813	0.000	7	813	0.000	7	813	0.000
22:00 - 23:00	7	813	0.000	7	813	0.000	7	813	0.000
23:00 - 24:00	7	813	0.000	7	813	0.000	7	813	0.000
Total Rates:			0.000			0.000			0.000

This section displays the trip rate results based on the selected set of surveys and the selected count type (shown just above the table). It is split by three main columns, representing arrivals trips, departures trips, and total trips (arrivals plus departures). Within each of these main columns are three sub-columns. These display the number of survey days where count data is included (per time period), the average value of the selected trip rate calculation parameter (per time period), and the trip rate result (per time period). Total trip rates (the sum of the column) are also displayed at the foot of the table.

To obtain a trip rate, the average (mean) trip rate parameter value (TRP) is first calculated for all selected survey days that have count data available for the stated time period. The average (mean) number of arrivals, departures or totals (whichever applies) is also calculated (COUNT) for all selected survey days that have count data available for the stated time period. Then, the average count is divided by the average trip rate parameter value, and multiplied by the stated calculation factor (shown just above the table and abbreviated here as FACT). So, the method is: COUNT/TRP*FACT. Trip rates are then rounded to 3 decimal places.

Parameter summary

Trip rate parameter range selected: 285 - 1400 (units: sqm)
 Survey date date range: 01/01/07 - 25/05/14
 Number of weekdays (Monday-Friday): 7
 Number of Saturdays: 0
 Number of Sundays: 0
 Surveys manually removed from selection: 1

This section displays a quick summary of some of the data filtering selections made by the TRICS® user. The trip rate calculation parameter range of all selected surveys is displayed first, followed by the range of minimum and maximum survey dates selected by the user. Then, the total number of selected weekdays and weekend days in the selected set of surveys are show. Finally, the number of survey days that have been manually removed from the selected set outside of the standard filtering procedure are displayed.

TRIP RATE for Land Use 06 - HOTEL, FOOD & DRINK/C - PUB/RESTAURANT
 MULTI-MODAL PUBLIC TRANSPORT USERS
 Calculation factor: 100 sqm
 BOLD print indicates peak (busiest) period

Time Range	ARRIVALS			DEPARTURES			TOTALS		
	No. Days	Ave. GFA	Trip Rate	No. Days	Ave. GFA	Trip Rate	No. Days	Ave. GFA	Trip Rate
00:00 - 01:00									
01:00 - 02:00									
02:00 - 03:00									
03:00 - 04:00									
04:00 - 05:00									
05:00 - 06:00									
06:00 - 07:00									
07:00 - 08:00									
08:00 - 09:00									
09:00 - 10:00									
10:00 - 11:00	7	813	0.018	7	813	0.000	7	813	0.018
11:00 - 12:00	7	813	0.123	7	813	0.018	7	813	0.141
12:00 - 13:00	7	813	0.176	7	813	0.000	7	813	0.176
13:00 - 14:00	7	813	0.070	7	813	0.070	7	813	0.140
14:00 - 15:00	7	813	0.053	7	813	0.053	7	813	0.106
15:00 - 16:00	7	813	0.000	7	813	0.123	7	813	0.123
16:00 - 17:00	7	813	0.000	7	813	0.000	7	813	0.000
17:00 - 18:00	7	813	0.018	7	813	0.070	7	813	0.088
18:00 - 19:00	7	813	0.000	7	813	0.018	7	813	0.018
19:00 - 20:00	7	813	0.000	7	813	0.000	7	813	0.000
20:00 - 21:00	7	813	0.000	7	813	0.053	7	813	0.053
21:00 - 22:00	7	813	0.000	7	813	0.000	7	813	0.000
22:00 - 23:00	7	813	0.000	7	813	0.000	7	813	0.000
23:00 - 24:00	7	813	0.000	7	813	0.000	7	813	0.000
Total Rates:			0.458			0.405			0.863

This section displays the trip rate results based on the selected set of surveys and the selected count type (shown just above the table). It is split by three main columns, representing arrivals trips, departures trips, and total trips (arrivals plus departures). Within each of these main columns are three sub-columns. These display the number of survey days where count data is included (per time period), the average value of the selected trip rate calculation parameter (per time period), and the trip rate result (per time period). Total trip rates (the sum of the column) are also displayed at the foot of the table.

To obtain a trip rate, the average (mean) trip rate parameter value (TRP) is first calculated for all selected survey days that have count data available for the stated time period. The average (mean) number of arrivals, departures or totals (whichever applies) is also calculated (COUNT) for all selected survey days that have count data available for the stated time period. Then, the average count is divided by the average trip rate parameter value, and multiplied by the stated calculation factor (shown just above the table and abbreviated here as FACT). So, the method is: COUNT/TRP*FACT. Trip rates are then rounded to 3 decimal places.

Parameter summary

Trip rate parameter range selected: 285 - 1400 (units: sqm)
 Survey date date range: 01/01/07 - 25/05/14
 Number of weekdays (Monday-Friday): 7
 Number of Saturdays: 0
 Number of Sundays: 0
 Surveys manually removed from selection: 1

This section displays a quick summary of some of the data filtering selections made by the TRICS® user. The trip rate calculation parameter range of all selected surveys is displayed first, followed by the range of minimum and maximum survey dates selected by the user. Then, the total number of selected weekdays and weekend days in the selected set of surveys are show. Finally, the number of survey days that have been manually removed from the selected set outside of the standard filtering procedure are displayed.

TRIP RATE for Land Use 06 - HOTEL, FOOD & DRINK/C - PUB/RESTAURANT
 MULTI-MODAL TOTAL PEOPLE
 Calculation factor: 100 sqm
 BOLD print indicates peak (busiest) period

Time Range	ARRIVALS			DEPARTURES			TOTALS		
	No. Days	Ave. GFA	Trip Rate	No. Days	Ave. GFA	Trip Rate	No. Days	Ave. GFA	Trip Rate
00:00 - 01:00									
01:00 - 02:00									
02:00 - 03:00									
03:00 - 04:00									
04:00 - 05:00									
05:00 - 06:00									
06:00 - 07:00									
07:00 - 08:00									
08:00 - 09:00									
09:00 - 10:00									
10:00 - 11:00	7	813	0.527	7	813	0.334	7	813	0.861
11:00 - 12:00	7	813	2.496	7	813	0.808	7	813	3.304
12:00 - 13:00	7	813	6.854	7	813	2.443	7	813	9.297
13:00 - 14:00	7	813	5.325	7	813	5.149	7	813	10.474
14:00 - 15:00	7	813	2.707	7	813	6.169	7	813	8.876
15:00 - 16:00	7	813	2.601	7	813	2.742	7	813	5.343
16:00 - 17:00	7	813	3.761	7	813	2.320	7	813	6.081
17:00 - 18:00	7	813	5.641	7	813	3.761	7	813	9.402
18:00 - 19:00	7	813	7.487	7	813	5.167	7	813	12.654
19:00 - 20:00	7	813	6.749	7	813	6.221	7	813	12.970
20:00 - 21:00	7	813	4.886	7	813	5.308	7	813	10.194
21:00 - 22:00	7	813	2.267	7	813	4.886	7	813	7.153
22:00 - 23:00	7	813	0.826	7	813	3.831	7	813	4.657
23:00 - 24:00	7	813	0.228	7	813	3.076	7	813	3.304
Total Rates:			52.355			52.215			104.570

This section displays the trip rate results based on the selected set of surveys and the selected count type (shown just above the table). It is split by three main columns, representing arrivals trips, departures trips, and total trips (arrivals plus departures). Within each of these main columns are three sub-columns. These display the number of survey days where count data is included (per time period), the average value of the selected trip rate calculation parameter (per time period), and the trip rate result (per time period). Total trip rates (the sum of the column) are also displayed at the foot of the table.

To obtain a trip rate, the average (mean) trip rate parameter value (TRP) is first calculated for all selected survey days that have count data available for the stated time period. The average (mean) number of arrivals, departures or totals (whichever applies) is also calculated (COUNT) for all selected survey days that have count data available for the stated time period. Then, the average count is divided by the average trip rate parameter value, and multiplied by the stated calculation factor (shown just above the table and abbreviated here as FACT). So, the method is: COUNT/TRP*FACT. Trip rates are then rounded to 3 decimal places.

Parameter summary

Trip rate parameter range selected: 285 - 1400 (units: sqm)
 Survey date date range: 01/01/07 - 25/05/14
 Number of weekdays (Monday-Friday): 7
 Number of Saturdays: 0
 Number of Sundays: 0
 Surveys manually removed from selection: 1

This section displays a quick summary of some of the data filtering selections made by the TRICS® user. The trip rate calculation parameter range of all selected surveys is displayed first, followed by the range of minimum and maximum survey dates selected by the user. Then, the total number of selected weekdays and weekend days in the selected set of surveys are shown. Finally, the number of survey days that have been manually removed from the selected set outside of the standard filtering procedure are displayed.

Appendix 2

Full Set of Tables for Peak Period Vehicle Trips at Each Site Access Location

Updated TN/08 Table 2.1 – Number of Vehicular Trips at Site Accesses 0700-0800

AM Peak 0700-0800										
Access	Units/sqm	Trip Rate		Trips		Discounts/ Internal Trips	Total Trips			
		Arrival	Departure	Arrival	Departure		Arrival	Departure		
Mill Lane	150 Dwellings	0.127	0.380	19	57	0%	19	57		
Mill Lane/ Blackbrook Avenue	700 Dwellings Primary School (up to 420 pupils)	0.127	0.380	89	266	5%	85	253		
		0.057	0.023	24	10	0%	24	10		
	330 Dwellings	0.127	0.380	42	125	5%	40	119		
	Food Store (2,000sqm)	1.801	1.082	36	22	60%	14*	9*		
Poplars Ave. (Central)	Local Centre (600sqm) Family Pub/ Restaurant (1,600sqm)	4.257	3.792	26	23	70%	8	7		
	100-Bed Care Home	-	-	-	-	-	-	-		
		0.075	0.083	8	8	0%	8	8		
Poplars Ave. (West)	Employment (7,500sqm)	0.688	0.164	52	12	0%	52	12		
Birch Avenue	20 Dwellings	0.127	0.380	3	8	0%	3	8		
Grasmere Avenue	Sports Pitches and Community Facilities	-	-	0	0	0%	0	0		
Total				299	531	-	253	483		
							736			

*Pass-by trips account for 10%

Updated TN/08 Table 2.2 – Number of Vehicular Trips at Site Accesses 0800-0900

AM Peak 0800-0900										
Access	Units/sqm	Trip Rate		Trips		Discounts/ Internal Trips	Total Trips			
		Arrival	Departure	Arrival	Departure		Arrival	Departure		
Mill Lane	150 Dwellings	0.225	0.523	34	79	0%	34	79		
Mill Lane/ Blackbrook Avenue	700 Dwellings Primary School (up to 420 pupils)	0.225	0.523	158	366	20%	126	293		
	330 Dwellings	0.225	0.523	74	173	20%	59	138		
	Food Store (2,000sqm)	4.615	3.030	92	61	60%	37*	24*		
Poplars Ave. (Central)	Local Centre (600sqm) Family Pub/ Restaurant (1,600sqm)	5.025	4.780	30	29	70%	9	9		
	100-Bed Care Home	0.068	0.068	7	7	0%	7	7		
Poplars Ave. (West)	Employment (7,500sqm)	0.919	0.514	69	39	0%	69	39		
Birch Avenue	20 Dwellings	0.225	0.523	5	11	0%	5	11		
Grasmere Avenue	Sports Pitches and Community Facilities	-	-	10	5	0%	10	5		
Total				592	849	-	384	625		
								1,009		

*Pass-by trips account for 10%

Updated TN/08 Table 2.3 - Number of Vehicular Trips at Site Accesses 0900-0930

AM Peak 0900-0930										
Access	Units/sqm	Trip Rate		Trips		Discounts/ Internal Trips	Total Trips			
		Arrival	Departure	Arrival	Departure		Arrival	Departure		
Mill Lane	150 Dwellings	0.109	0.147	16	22	0%	16	22		
Mill Lane/ Blackbrook Avenue	700 Dwellings Primary School (up to 420 pupils)	0.109	0.147	76	103	30%	53	72		
	330 Dwellings	0.109	0.147	36	49	30%	25	34		
	Food Store (2,000sqm)	3.368	2.554	67	51	60%	27*	20*		
Poplars Ave. (Central)	Local Centre (600sqm) Family Pub/ Restaurant (1,600sqm)	2.851	2.601	17	16	70%	5	5		
	100-Bed Care Home	0.045	0.019	5	2	0%	5	2		
Poplars Ave. (West)	Employment (7,500sqm)	0.354	0.272	27	20	0%	27	20		
Birch Avenue	20 Dwellings	0.109	0.147	2	3	0%	2	3		
Grasmere Avenue	Sports Pitches and Community Facilities	-	-	3	5	0%	3	5		
Total				259	283	-	166	186		
								352		

*Pass-by trips account for 10%

Updated TN/08 Table 2.4 - Number of Vehicular Trips at Site Accesses 1600-1700

PM Peak 1600-1700										
Access	Units/sqm	Trip Rate		Trips		Discounts/ Internal Trips	Total Trips			
		Arrival	Departure	Arrival	Departure		Arrival	Departure		
Mill Lane	150 Dwellings	0.419	0.248	63	37	0%	63	37		
Mill Lane/ Blackbrook Avenue	700 Dwellings	0.419	0.248	293	174	20%	234	139		
	Primary School (up to 420 pupils)	0.116	0.165	49	69	50%	25	35		
Poplars Ave. (Central)	330 Dwellings	0.419	0.248	138	82	20%	110	66		
	Food Store (2,000sqm)	8.121	7.697	162	154	60%	65*	62*		
	Local Centre (600sqm)	5.735	5.828	34	35	70%	10	11		
	Family Pub/ Restaurant (1,600sqm)	1.828	1.195	15	10	25%	11	8		
Poplars Ave. (West)	100-Bed Care Home	0.068	0.053	7	5	0%	7	5		
Birch Avenue	Employment (7,500sqm)	0.473	0.668	36	50	0%	36	50		
	20 Dwellings	0.419	0.248	8	5	0%	8	5		
Grasmere Avenue	Sports Pitches and Community Facilities	-	-	8	7	0%	8	7		
Total				813	628	-	577	425		
								1,002		

*Pass-by trips account for 10%

Updated TN/08 Table 2.5 - Number of Vehicular Trips at Site Accesses 1700-1800

PM Peak 1700-1800										
Access	Units/sqm	Trip Rate		Trips		Discounts/ Internal Trips	Total Trips			
		Arrival	Departure	Arrival	Departure		Arrival	Departure		
Mill Lane	150 Dwellings	0.495	0.307	74	46	0%	74	46		
Mill Lane/ Blackbrook Avenue	700 Dwellings Primary School (up to 420 pupils)	0.495	0.307	347	215	20%	278	172		
	330 Dwellings	0.495	0.307	163	101	20%	130	81		
	Food Store (2,000sqm)	9.056	9.550	181	191	60%	72*	76*		
Poplars Ave. (Central)	Local Centre (600sqm) Family Pub/ Restaurant (1,600sqm)	6.039	6.495	36	39	70%	11	12		
	100-Bed Care Home	0.083	0.113	8	11	0%	8	11		
Poplars Ave. (West)	Employment (7,500sqm)	0.262	0.621	20	47	0%	20	47		
Birch Avenue	20 Dwellings	0.495	0.307	10	6	0%	10	6		
Grasmere Avenue	Sports Pitches and Community Facilities	-	-	7	8	0%	7	8		
Total				888	706	-	637	484		
							1,121			

*Pass-by trips account for 10%

Updated TN/08 Table 2.6 - Number of Vehicular Trips at Site Accesses 1800-1830

PM Peak 1800-1830										
Access	Units/sqm	Trip Rate		Trips		Discounts/ Internal Trips	Total Trips			
		Arrival	Departure	Arrival	Departure		Arrival	Departure		
Mill Lane	150 Dwellings	0.182	0.137	27	21	0%	27	21		
Mill Lane/ Blackbrook Avenue	700 Dwellings	0.182	0.137	127	96	20%	102	77		
	Primary School (up to 420 pupils)	0.020	0.015	8	6	50%	4	3		
Poplars Ave. (Central)	330 Dwellings	0.182	0.137	60	45	20%	48	36		
	Food Store (2,000sqm)	3.554	4.251	71	85	60%	28*	34*		
	Local Centre (600sqm)	2.910	3.049	18	18	70%	5	5		
	Family Pub/ Restaurant (1,600sqm)	1.512	1.257	12	10	25%	9	8		
Poplars Ave. (West)	100-Bed Care Home	0.049	0.053	5	5	0%	5	5		
Birch Avenue	Employment (7,500sqm)	0.067	0.216	5	16	0%	5	16		
	20 Dwellings	0.182	0.137	4	3	0%	4	3		
Grasmere Avenue	Sports Pitches and Community Facilities	-	-	10	5	0%	10	5		
Total				347	310	-	247	213		
							460			

*Pass-by trips account for 10%