

**NOTES**

**CDM NOTE**  
 These drawings have been produced with reference to the CDM Regulations 2015. Please note that these are pre-construction phase drawings and should be subject to further design risk management as required in accordance with Regulation 9

REV	DATE	REVISION NOTE	BY
PI	11.02.21	Cycleway/footway crossing amended to remove offset from main carriageway	NS

**PJA**  
 CLIENT  
 Seven House - High Street  
 Longbridge - Birmingham  
 B31 2UQ - Tel: 0121 475 0234  
 Birmingham - Bristol  
 Exeter - London - Reading  
 pja.co.uk

**Lidl Great Britain Ltd.**  
 PROJECT  
 Lidl  
 Holyhead Road  
 Coventry

**Proposed Access Vehicle Tracking**  
 DRAWING TITLE

**INFORMATION**  
 DRAWING ISSUE STATUS  
 PJA JOB No. SUB-CODE DRAWING NO. REVISION  
 05003 - Ci - SK003 - PI  
 Revision Letter: P - Prelim / A - Approval / T - Tender / C - Construction  
 BIM/DRAWING REFERENCE

SCALE	DRAWN	REVIEWED	DATE
A3 @ 1:250	NS	RMB	Feb. 21



## Appendix F TRICs outputs

**TRIP RATE CALCULATION SELECTION PARAMETERS:**

Land Use : 01 - RETAIL  
 Category : C - DISCOUNT FOOD STORES

**VEHICLES**Selected regions and areas:

**08 NORTH WEST**  
 CH CHESHIRE 2 days  
 GM GREATER MANCHESTER 1 days

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

**Primary Filtering 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: 1800 to 2635 (units: sqm)  
 Range Selected by User: 700 to 2703 (units: sqm)

Parking Spaces Range: All Surveys Included

Public Transport Provision:

Selection by: Include all surveys

Date Range: 01/01/12 to 23/06/19

*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:

Sunday 3 days

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

Selected survey types:

Manual count 3 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:

Edge of Town Centre 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:

Retail Zone 3

*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.*

**Secondary Filtering selection:**Use Class:

A1 3 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®.*

**Secondary Filtering selection (Cont.):**Population within 1 mile:

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

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

Population within 5 miles:

50,001 to 75,000	2 days
500,001 or More	1 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	1 days
1.1 to 1.5	2 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.*

Petrol filling station:

Included in the survey count	0 days
Excluded from count or no filling station	3 days

*This data displays the number of surveys within the selected set that include petrol filling station activity, and the number of surveys that do not.*

Travel Plan:

Yes	1 days
No	2 days

*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.*

PTAL Rating:

No PTAL Present	3 days
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*This data displays the number of selected surveys with PTAL Ratings.*

LIST OF SITES relevant to selection parameters

<p><b>1 CH-01-C-01 ALDI</b> LEICESTER STREET NORTHWICH</p> <p>Edge of Town Centre Retail Zone Total Gross floor area: 2010 sqm <i>Survey date: SUNDAY 09/06/19</i></p>	<p><b>CHESHIRE</b></p> <p><i>Survey Type: MANUAL</i></p>
<p><b>2 CH-01-C-02 LIDL</b> CHESTER WAY NORTHWICH</p> <p>Edge of Town Centre Retail Zone Total Gross floor area: 1800 sqm <i>Survey date: SUNDAY 09/06/19</i></p>	<p><b>CHESHIRE</b></p> <p><i>Survey Type: MANUAL</i></p>
<p><b>3 GM-01-C-10 ALDI</b> GREAT ANCOATS STREET MANCHESTER URBAN EXCHANGE Edge of Town Centre Retail Zone Total Gross floor area: 2635 sqm <i>Survey date: SUNDAY 25/09/16</i></p>	<p><b>GREATER MANCHESTER</b></p> <p><i>Survey Type: MANUAL</i></p>

*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 01 - RETAIL/C - DISCOUNT FOOD STORES

**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	2	1905	4.278	2	1905	2.808	2	1905	7.086
10:00 - 11:00	2	1905	9.843	<b>2</b>	<b>1905</b>	<b>10.341</b>	<b>2</b>	<b>1905</b>	<b>20.184</b>
11:00 - 12:00	3	2148	9.061	3	2148	8.332	3	2148	17.393
12:00 - 13:00	3	2148	9.046	3	2148	9.465	3	2148	18.511
13:00 - 14:00	<b>3</b>	<b>2148</b>	<b>9.977</b>	3	2148	8.673	3	2148	18.650
14:00 - 15:00	3	2148	7.277	3	2148	8.053	3	2148	15.330
15:00 - 16:00	3	2148	5.213	3	2148	6.191	3	2148	11.404
16:00 - 17:00	2	2323	2.110	2	2323	3.337	2	2323	5.447
17:00 - 18:00									
18:00 - 19:00									
19:00 - 20:00									
20:00 - 21:00									
21:00 - 22:00									
22:00 - 23:00									
23:00 - 24:00									
<b>Total Rates:</b>			56.805			57.200			114.005

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.

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**Parameter summary**

Trip rate parameter range selected: 1800 - 2635 (units: sqm)  
 Survey date range: 01/01/12 - 23/06/19  
 Number of weekdays (Monday-Friday): 0  
 Number of Saturdays: 0  
 Number of Sundays: 3  
 Surveys automatically removed from selection: 0  
 Surveys manually removed from selection: 0

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 01 - RETAIL/C - DISCOUNT FOOD STORES

**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	2	1905	0.000	2	1905	0.000	2	1905	0.000
10:00 - 11:00	2	1905	0.000	2	1905	0.000	2	1905	0.000
11:00 - 12:00	3	2148	0.000	3	2148	0.000	3	2148	0.000
12:00 - 13:00	3	2148	0.031	3	2148	0.031	3	2148	0.062
13:00 - 14:00	<b>3</b>	<b>2148</b>	<b>0.062</b>	<b>3</b>	<b>2148</b>	<b>0.062</b>	<b>3</b>	<b>2148</b>	<b>0.124</b>
14:00 - 15:00	3	2148	0.031	3	2148	0.031	3	2148	0.062
15:00 - 16:00	3	2148	0.000	3	2148	0.000	3	2148	0.000
16:00 - 17:00	2	2323	0.000	2	2323	0.000	2	2323	0.000
17:00 - 18:00									
18:00 - 19:00									
19:00 - 20:00									
20:00 - 21:00									
21:00 - 22:00									
22:00 - 23:00									
23:00 - 24:00									
<b>Total Rates:</b>			0.124			0.124			0.248

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.

TRIP RATE for Land Use 01 - RETAIL/C - DISCOUNT FOOD STORES

**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	2	1905	0.000	2	1905	0.000	2	1905	0.000
10:00 - 11:00	<b>2</b>	<b>1905</b>	<b>0.026</b>	<b>2</b>	<b>1905</b>	<b>0.026</b>	<b>2</b>	<b>1905</b>	<b>0.052</b>
11:00 - 12:00	3	2148	0.016	3	2148	0.016	3	2148	0.032
12:00 - 13:00	3	2148	0.000	3	2148	0.000	3	2148	0.000
13:00 - 14:00	3	2148	0.000	3	2148	0.000	3	2148	0.000
14:00 - 15:00	3	2148	0.016	3	2148	0.016	3	2148	0.032
15:00 - 16:00	3	2148	0.000	3	2148	0.000	3	2148	0.000
16:00 - 17:00	2	2323	0.000	2	2323	0.000	2	2323	0.000
17:00 - 18:00									
18:00 - 19:00									
19:00 - 20:00									
20:00 - 21:00									
21:00 - 22:00									
22:00 - 23:00									
23:00 - 24:00									
<b>Total Rates:</b>			<b>0.058</b>			<b>0.058</b>			<b>0.116</b>

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.



TRIP RATE for Land Use 01 - RETAIL/C - DISCOUNT FOOD STORES

**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	<b>2</b>	<b>1905</b>	<b>0.131</b>	2	1905	0.052	2	1905	0.183
10:00 - 11:00	2	1905	0.105	<b>2</b>	<b>1905</b>	<b>0.184</b>	<b>2</b>	<b>1905</b>	<b>0.289</b>
11:00 - 12:00	3	2148	0.078	3	2148	0.062	3	2148	0.140
12:00 - 13:00	3	2148	0.031	3	2148	0.016	3	2148	0.047
13:00 - 14:00	3	2148	0.031	3	2148	0.031	3	2148	0.062
14:00 - 15:00	3	2148	0.016	3	2148	0.031	3	2148	0.047
15:00 - 16:00	3	2148	0.016	3	2148	0.031	3	2148	0.047
16:00 - 17:00	2	2323	0.065	2	2323	0.129	2	2323	0.194
17:00 - 18:00									
18:00 - 19:00									
19:00 - 20:00									
20:00 - 21:00									
21:00 - 22:00									
22:00 - 23:00									
23:00 - 24:00									
<b>Total Rates:</b>			<b>0.473</b>			<b>0.536</b>			<b>1.009</b>

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.

TRIP RATE for Land Use 01 - RETAIL/C - DISCOUNT FOOD STORES

**CARS**

**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	2	1905	4.226	2	1905	2.782	2	1905	7.008
10:00 - 11:00	2	1905	9.633	<b>2</b>	<b>1905</b>	<b>10.105</b>	<b>2</b>	<b>1905</b>	<b>19.738</b>
11:00 - 12:00	3	2148	8.891	3	2148	8.192	3	2148	17.083
12:00 - 13:00	3	2148	8.798	3	2148	9.263	3	2148	18.061
13:00 - 14:00	<b>3</b>	<b>2148</b>	<b>9.744</b>	3	2148	8.441	3	2148	18.185
14:00 - 15:00	3	2148	7.013	3	2148	7.804	3	2148	14.817
15:00 - 16:00	3	2148	5.089	3	2148	6.005	3	2148	11.094
16:00 - 17:00	2	2323	2.110	2	2323	3.272	2	2323	5.382
17:00 - 18:00									
18:00 - 19:00									
19:00 - 20:00									
20:00 - 21:00									
21:00 - 22:00									
22:00 - 23:00									
23:00 - 24:00									
<b>Total Rates:</b>			55.504			55.864			111.368

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.

TRIP RATE for Land Use 01 - RETAIL/C - DISCOUNT FOOD STORES

**LGVS**

**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	2	1905	0.052	2	1905	0.026	2	1905	0.078
10:00 - 11:00	<b>2</b>	<b>1905</b>	<b>0.157</b>	<b>2</b>	<b>1905</b>	<b>0.184</b>	<b>2</b>	<b>1905</b>	<b>0.341</b>
11:00 - 12:00	3	2148	0.124	3	2148	0.109	3	2148	0.233
12:00 - 13:00	3	2148	0.109	3	2148	0.093	3	2148	0.202
13:00 - 14:00	3	2148	0.140	3	2148	0.109	3	2148	0.249
14:00 - 15:00	3	2148	0.155	3	2148	0.155	3	2148	0.310
15:00 - 16:00	3	2148	0.109	3	2148	0.124	3	2148	0.233
16:00 - 17:00	2	2323	0.000	2	2323	0.065	2	2323	0.065
17:00 - 18:00									
18:00 - 19:00									
19:00 - 20:00									
20:00 - 21:00									
21:00 - 22:00									
22:00 - 23:00									
23:00 - 24:00									
<b>Total Rates:</b>			<b>0.846</b>			<b>0.865</b>			<b>1.711</b>

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.

TRIP RATE for Land Use 01 - RETAIL/C - DISCOUNT FOOD STORES

**MOTOR CYCLES**

**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	2	1905	0.000	2	1905	0.000	2	1905	0.000
10:00 - 11:00	2	1905	0.026	2	1905	0.026	2	1905	0.052
11:00 - 12:00	3	2148	0.031	3	2148	0.016	3	2148	0.047
12:00 - 13:00	<b>3</b>	<b>2148</b>	<b>0.109</b>	<b>3</b>	<b>2148</b>	<b>0.078</b>	<b>3</b>	<b>2148</b>	<b>0.187</b>
13:00 - 14:00	3	2148	0.031	3	2148	0.062	3	2148	0.093
14:00 - 15:00	3	2148	0.062	3	2148	0.047	3	2148	0.109
15:00 - 16:00	3	2148	0.016	3	2148	0.062	3	2148	0.078
16:00 - 17:00	2	2323	0.000	2	2323	0.000	2	2323	0.000
17:00 - 18:00									
18:00 - 19:00									
19:00 - 20:00									
20:00 - 21:00									
21:00 - 22:00									
22:00 - 23:00									
23:00 - 24:00									
<b>Total Rates:</b>			<b>0.275</b>			<b>0.291</b>			<b>0.566</b>

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.

TRIP RATE for Land Use 01 - RETAIL/C - DISCOUNT FOOD STORES

**Light Vehicles (LV)**

**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	2	1905	0.000	2	1905	0.000	2	1905	0.000
10:00 - 11:00	2	1905	0.000	2	1905	0.000	2	1905	0.000
11:00 - 12:00	3	2148	0.000	3	2148	0.000	3	2148	0.000
12:00 - 13:00	3	2148	0.000	3	2148	0.000	3	2148	0.000
13:00 - 14:00	3	2148	0.000	3	2148	0.000	3	2148	0.000
14:00 - 15:00	3	2148	0.000	3	2148	0.000	3	2148	0.000
15:00 - 16:00	3	2148	0.000	3	2148	0.000	3	2148	0.000
16:00 - 17:00	2	2323	0.000	2	2323	0.000	2	2323	0.000
17:00 - 18:00									
18:00 - 19:00									
19:00 - 20:00									
20:00 - 21:00									
21:00 - 22:00									
22:00 - 23:00									
23:00 - 24:00									
<b>Total Rates:</b>			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.

TRIP RATE for Land Use 01 - RETAIL/C - DISCOUNT FOOD STORES

**Rigid Trucks - No Trailer (OGV1)**

**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	2	1905	0.000	2	1905	0.000	2	1905	0.000
10:00 - 11:00	2	1905	0.000	2	1905	0.000	2	1905	0.000
11:00 - 12:00	3	2148	0.000	3	2148	0.000	3	2148	0.000
12:00 - 13:00	3	2148	0.000	3	2148	0.000	3	2148	0.000
13:00 - 14:00	3	2148	0.000	3	2148	0.000	3	2148	0.000
14:00 - 15:00	3	2148	0.000	3	2148	0.000	3	2148	0.000
15:00 - 16:00	3	2148	0.000	3	2148	0.000	3	2148	0.000
16:00 - 17:00	2	2323	0.000	2	2323	0.000	2	2323	0.000
17:00 - 18:00									
18:00 - 19:00									
19:00 - 20:00									
20:00 - 21:00									
21:00 - 22:00									
22:00 - 23:00									
23:00 - 24:00									
<b>Total Rates:</b>			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.

TRIP RATE for Land Use 01 - RETAIL/C - DISCOUNT FOOD STORES

**Trucks Towing Trailers (OGV2)**

**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	2	1905	0.000	2	1905	0.000	2	1905	0.000
10:00 - 11:00	2	1905	0.000	2	1905	0.000	2	1905	0.000
11:00 - 12:00	3	2148	0.000	3	2148	0.000	3	2148	0.000
12:00 - 13:00	3	2148	0.000	3	2148	0.000	3	2148	0.000
13:00 - 14:00	3	2148	0.000	3	2148	0.000	3	2148	0.000
14:00 - 15:00	3	2148	0.000	3	2148	0.000	3	2148	0.000
15:00 - 16:00	3	2148	0.000	3	2148	0.000	3	2148	0.000
16:00 - 17:00	2	2323	0.000	2	2323	0.000	2	2323	0.000
17:00 - 18:00									
18:00 - 19:00									
19:00 - 20:00									
20:00 - 21:00									
21:00 - 22:00									
22:00 - 23:00									
23:00 - 24:00									
<b>Total Rates:</b>			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.

TRIP RATE for Land Use 01 - RETAIL/C - DISCOUNT FOOD STORES

**Buses**

**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	2	1905	0.000	2	1905	0.000	2	1905	0.000
10:00 - 11:00	2	1905	0.000	2	1905	0.000	2	1905	0.000
11:00 - 12:00	3	2148	0.000	3	2148	0.000	3	2148	0.000
12:00 - 13:00	3	2148	0.000	3	2148	0.000	3	2148	0.000
13:00 - 14:00	3	2148	0.000	3	2148	0.000	3	2148	0.000
14:00 - 15:00	3	2148	0.000	3	2148	0.000	3	2148	0.000
15:00 - 16:00	3	2148	0.000	3	2148	0.000	3	2148	0.000
16:00 - 17:00	2	2323	0.000	2	2323	0.000	2	2323	0.000
17:00 - 18:00									
18:00 - 19:00									
19:00 - 20:00									
20:00 - 21:00									
21:00 - 22:00									
22:00 - 23:00									
23:00 - 24:00									
<b>Total Rates:</b>			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.



TRIP RATE for Land Use 01 - RETAIL/C - DISCOUNT FOOD STORES

**Non-Motorised Vehicles (NMV)**

**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	2	1905	0.000	2	1905	0.000	2	1905	0.000
10:00 - 11:00	2	1905	0.000	2	1905	0.000	2	1905	0.000
11:00 - 12:00	3	2148	0.000	3	2148	0.000	3	2148	0.000
12:00 - 13:00	3	2148	0.000	3	2148	0.000	3	2148	0.000
13:00 - 14:00	3	2148	0.000	3	2148	0.000	3	2148	0.000
14:00 - 15:00	3	2148	0.000	3	2148	0.000	3	2148	0.000
15:00 - 16:00	3	2148	0.000	3	2148	0.000	3	2148	0.000
16:00 - 17:00	2	2323	0.000	2	2323	0.000	2	2323	0.000
17:00 - 18:00									
18:00 - 19:00									
19:00 - 20:00									
20:00 - 21:00									
21:00 - 22:00									
22:00 - 23:00									
23:00 - 24:00									
<b>Total Rates:</b>			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.

TRIP RATE for Land Use 01 - RETAIL/C - DISCOUNT FOOD STORES

**Cycles**

**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	2	1905	0.000	2	1905	0.000	2	1905	0.000
10:00 - 11:00	2	1905	0.000	2	1905	0.000	2	1905	0.000
11:00 - 12:00	3	2148	0.000	3	2148	0.000	3	2148	0.000
12:00 - 13:00	3	2148	0.000	3	2148	0.000	3	2148	0.000
13:00 - 14:00	3	2148	0.000	3	2148	0.000	3	2148	0.000
14:00 - 15:00	3	2148	0.000	3	2148	0.000	3	2148	0.000
15:00 - 16:00	3	2148	0.000	3	2148	0.000	3	2148	0.000
16:00 - 17:00	2	2323	0.000	2	2323	0.000	2	2323	0.000
17:00 - 18:00									
18:00 - 19:00									
19:00 - 20:00									
20:00 - 21:00									
21:00 - 22:00									
22:00 - 23:00									
23:00 - 24:00									
<b>Total Rates:</b>			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.

TRIP RATE for Land Use 01 - RETAIL/C - DISCOUNT FOOD STORES

**Scooters**

**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	2	1905	0.000	2	1905	0.000	2	1905	0.000
10:00 - 11:00	2	1905	0.000	2	1905	0.000	2	1905	0.000
11:00 - 12:00	3	2148	0.000	3	2148	0.000	3	2148	0.000
12:00 - 13:00	3	2148	0.000	3	2148	0.000	3	2148	0.000
13:00 - 14:00	3	2148	0.000	3	2148	0.000	3	2148	0.000
14:00 - 15:00	3	2148	0.000	3	2148	0.000	3	2148	0.000
15:00 - 16:00	3	2148	0.000	3	2148	0.000	3	2148	0.000
16:00 - 17:00	2	2323	0.000	2	2323	0.000	2	2323	0.000
17:00 - 18:00									
18:00 - 19:00									
19:00 - 20:00									
20:00 - 21:00									
21:00 - 22:00									
22:00 - 23:00									
23:00 - 24:00									
<b>Total Rates:</b>			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.

TRIP RATE for Land Use 01 - RETAIL/C - DISCOUNT FOOD STORES

**Non-Vehicular People Movements (NVPM)**

**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	2	1905	0.000	2	1905	0.000	2	1905	0.000
10:00 - 11:00	2	1905	0.000	2	1905	0.000	2	1905	0.000
11:00 - 12:00	3	2148	0.000	3	2148	0.000	3	2148	0.000
12:00 - 13:00	3	2148	0.000	3	2148	0.000	3	2148	0.000
13:00 - 14:00	3	2148	0.000	3	2148	0.000	3	2148	0.000
14:00 - 15:00	3	2148	0.000	3	2148	0.000	3	2148	0.000
15:00 - 16:00	3	2148	0.000	3	2148	0.000	3	2148	0.000
16:00 - 17:00	2	2323	0.000	2	2323	0.000	2	2323	0.000
17:00 - 18:00									
18:00 - 19:00									
19:00 - 20:00									
20:00 - 21:00									
21:00 - 22:00									
22:00 - 23:00									
23:00 - 24:00									
<b>Total Rates:</b>			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.

**TRIP RATE CALCULATION SELECTION PARAMETERS:**

Land Use : 01 - RETAIL  
 Category : C - DISCOUNT FOOD STORES

**VEHICLES**Selected regions and areas:

<b>02 SOUTH EAST</b>	
KC KENT	1 days
<b>05 EAST MIDLANDS</b>	
LN LINCOLNSHIRE	1 days
NR NORTHAMPTONSHIRE	1 days
<b>06 WEST MIDLANDS</b>	
WO WORCESTERSHIRE	1 days
<b>07 YORKSHIRE &amp; NORTH LINCOLNSHIRE</b>	
NY NORTH YORKSHIRE	1 days
<b>09 NORTH</b>	
NB NORTHUMBERLAND	1 days

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

**Secondary Filtering 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: 1407 to 2624 (units: sqm)  
 Range Selected by User: 700 to 2635 (units: sqm)

Parking Spaces Range: All Surveys Included

Public Transport Provision:

Selection by: Include all surveys

Date Range: 01/01/11 to 30/04/19

*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:

Monday	1 days
Tuesday	5 days

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

Selected survey types:

Manual count	6 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:

Edge of Town Centre	6
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*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
Built-Up Zone	2
No Sub Category	2

*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.*

**Secondary Filtering selection:**Use Class:

A1	6 days
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*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	1 days
10,001 to 15,000	3 days
20,001 to 25,000	1 days
25,001 to 50,000	1 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	1 days
25,001 to 50,000	1 days
50,001 to 75,000	1 days
75,001 to 100,000	1 days
125,001 to 250,000	2 days

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

Car ownership within 5 miles:

1.1 to 1.5	6 days
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*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.*

Petrol filling station:

Included in the survey count	0 days
Excluded from count or no filling station	6 days

*This data displays the number of surveys within the selected set that include petrol filling station activity, and the number of surveys that do not.*

Travel Plan:

Yes	2 days
No	4 days

*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.*

PTAL Rating:

No PTAL Present	6 days
-----------------	--------

*This data displays the number of selected surveys with PTAL Ratings.*

LIST OF SITES relevant to selection parameters

<b>1</b>	<b>KC-01-C-02</b>	<b>ALDI</b>		<b>KENT</b>
	WELL ROAD			
	MAIDSTONE			
	Edge of Town Centre			
	Built-Up Zone			
	Total Gross floor area:		1407 sqm	
	Survey date: <i>TUESDAY</i>		<i>27/11/12</i>	<i>Survey Type: MANUAL</i>
<b>2</b>	<b>LN-01-C-01</b>	<b>LIDL</b>		<b>LINCOLNSHIRE</b>
	RICHMOND DRIVE			
	SKEGNESS			
	Edge of Town Centre			
	Built-Up Zone			
	Total Gross floor area:		2398 sqm	
	Survey date: <i>TUESDAY</i>		<i>19/07/16</i>	<i>Survey Type: MANUAL</i>
<b>3</b>	<b>NB-01-C-01</b>	<b>LIDL</b>		<b>NORTHUMBERLAND</b>
	SCHALKSMUHLE ROAD			
	BEDLINGTON			
	Edge of Town Centre			
	No Sub Category			
	Total Gross floor area:		2450 sqm	
	Survey date: <i>MONDAY</i>		<i>12/06/17</i>	<i>Survey Type: MANUAL</i>
<b>4</b>	<b>NR-01-C-02</b>	<b>LIDL</b>		<b>NORTHAMPTONSHIRE</b>
	NEWTON ROAD			
	RUSHDEN			
	Edge of Town Centre			
	Residential Zone			
	Total Gross floor area:		2624 sqm	
	Survey date: <i>TUESDAY</i>		<i>19/07/16</i>	<i>Survey Type: MANUAL</i>
<b>5</b>	<b>NY-01-C-02</b>	<b>LIDL</b>		<b>NORTH YORKSHIRE</b>
	STATION ROAD			
	THIRSK			
	Edge of Town Centre			
	No Sub Category			
	Total Gross floor area:		1527 sqm	
	Survey date: <i>TUESDAY</i>		<i>11/10/11</i>	<i>Survey Type: MANUAL</i>
<b>6</b>	<b>WO-01-C-02</b>	<b>LIDL</b>		<b>WORCESTERSHIRE</b>
	WORCESTER ROAD			
	MALVERN			
	Edge of Town Centre			
	Residential Zone			
	Total Gross floor area:		1471 sqm	
	Survey date: <i>TUESDAY</i>		<i>26/06/18</i>	<i>Survey Type: MANUAL</i>

*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 01 - RETAIL/C - DISCOUNT FOOD STORES

**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	2	2511	0.159	2	2511	0.040	2	2511	0.199
07:00 - 08:00	5	2070	0.570	5	2070	0.222	5	2070	0.792
08:00 - 09:00	6	1980	2.290	6	1980	1.532	6	1980	3.822
09:00 - 10:00	6	1980	3.275	6	1980	2.896	6	1980	6.171
10:00 - 11:00	6	1980	3.696	6	1980	3.073	6	1980	6.769
11:00 - 12:00	6	1980	3.873	6	1980	3.848	6	1980	7.721
12:00 - 13:00	6	1980	3.528	6	1980	3.949	6	1980	7.477
13:00 - 14:00	6	1980	3.435	6	1980	3.999	6	1980	7.434
14:00 - 15:00	<b>6</b>	<b>1980</b>	<b>4.446</b>	6	1980	3.974	6	1980	8.420
15:00 - 16:00	6	1980	4.277	6	1980	4.067	6	1980	8.344
16:00 - 17:00	6	1980	4.395	<b>6</b>	<b>1980</b>	<b>4.782</b>	<b>6</b>	<b>1980</b>	<b>9.177</b>
17:00 - 18:00	6	1980	3.974	6	1980	4.201	6	1980	8.175
18:00 - 19:00	6	1980	3.098	6	1980	3.132	6	1980	6.230
19:00 - 20:00	6	1980	2.113	6	1980	2.383	6	1980	4.496
20:00 - 21:00	6	1980	1.347	6	1980	1.878	6	1980	3.225
21:00 - 22:00	5	2070	0.831	5	2070	1.217	5	2070	2.048
22:00 - 23:00	3	2491	0.027	3	2491	0.321	3	2491	0.348
23:00 - 24:00									
Total Rates:			45.334			45.514			90.848

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.



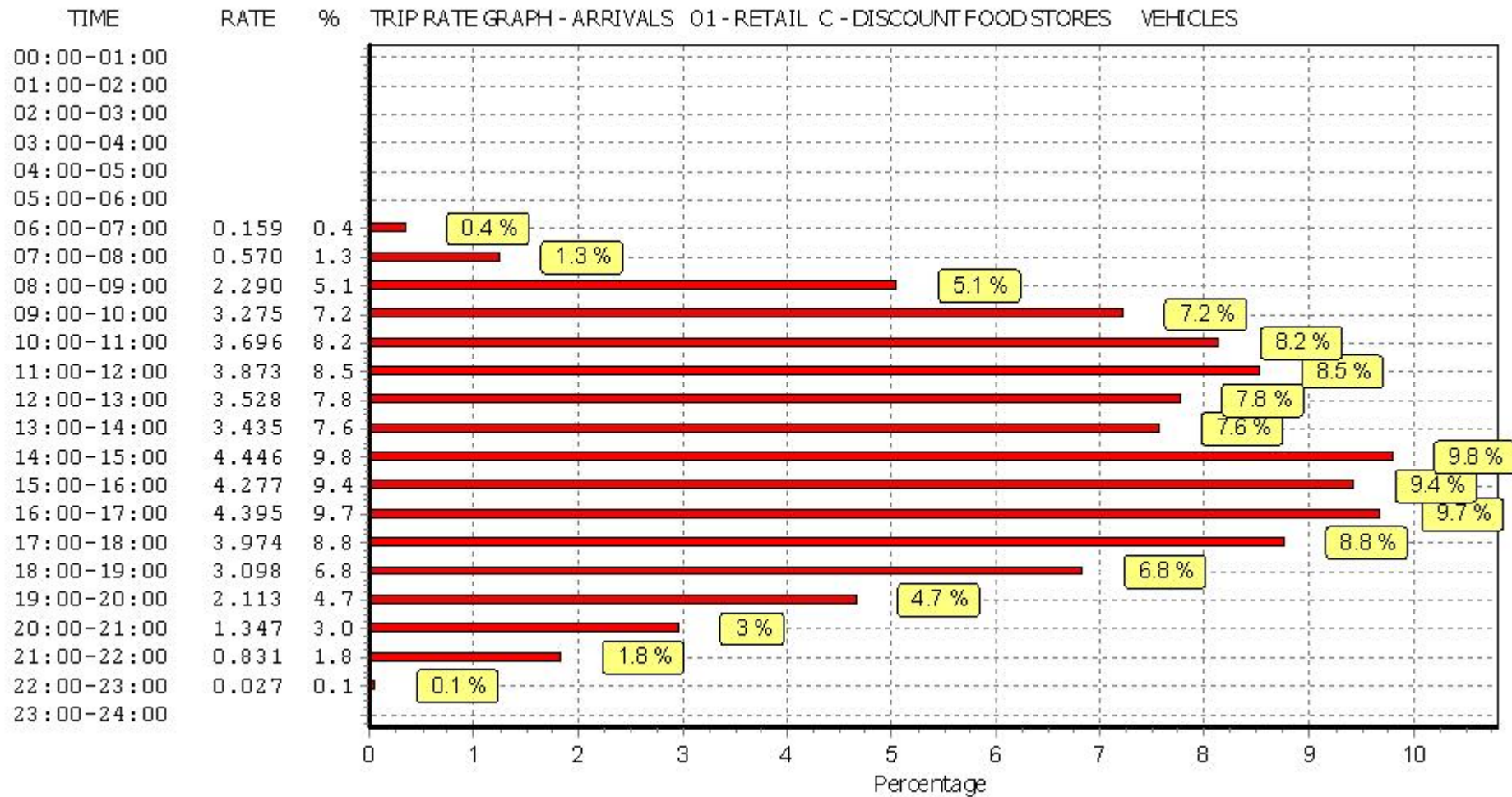
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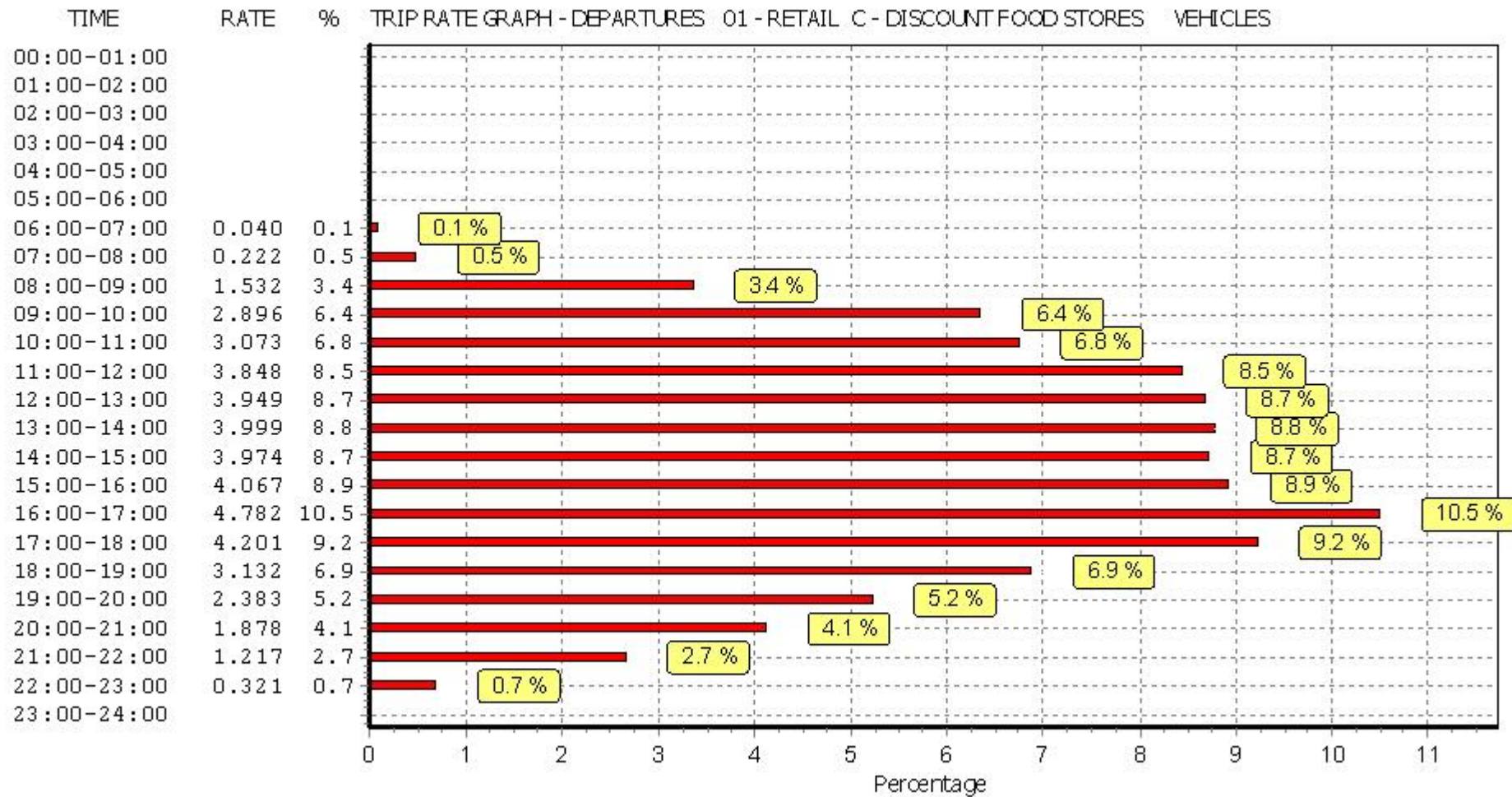
#### Parameter summary

Trip rate parameter range selected:	1407 - 2624 (units: sqm)
Survey date date range:	01/01/11 - 30/04/19
Number of weekdays (Monday-Friday):	6
Number of Saturdays:	0
Number of Sundays:	0
Surveys automatically removed from selection:	0
Surveys manually removed from selection:	0

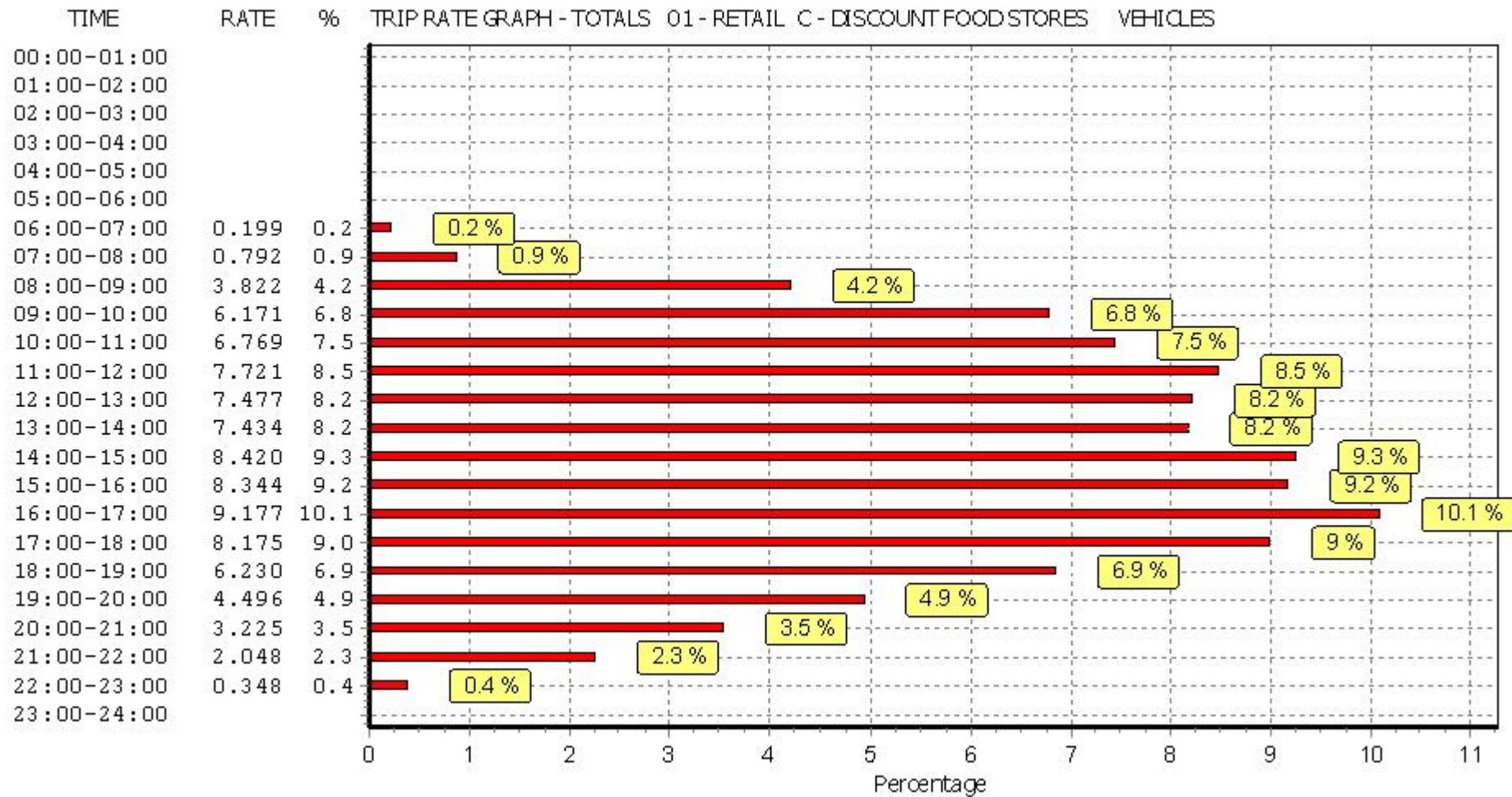
*This section displays a quick summary of some of the data filtering selections made by the TRICS® user. The trip rate calculation parameter range of all selected surveys is displayed first, followed by the range of minimum and maximum survey dates selected by the user. Then, the total number of selected 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.*



*This graph is a visual representation of the trip rate calculation results screen. The same time periods and trip rates are displayed, but in addition there is an additional column showing the percentage of the total trip rate by individual time period, allowing peak periods to be easily identified through observation. Note that the type of count and the selected direction is shown at the top of the graph.*



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TRIP RATE for Land Use 01 - RETAIL/C - DISCOUNT FOOD STORES

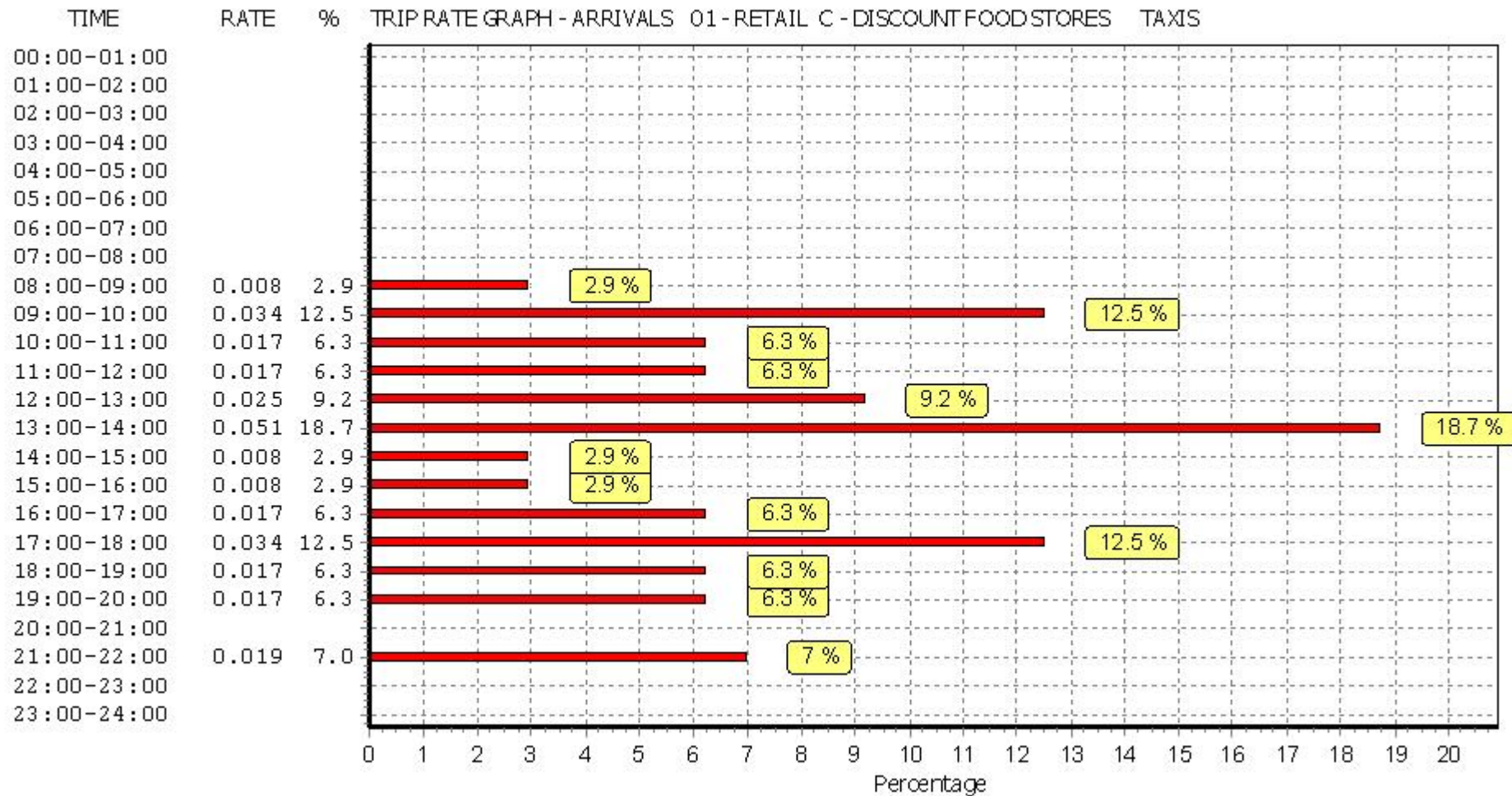
**TAXIS****Calculation factor: 100 sqm****BOLD print indicates peak (busiest) period**

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	2	2511	0.000	2	2511	0.000	2	2511	0.000
07:00 - 08:00	5	2070	0.000	5	2070	0.000	5	2070	0.000
08:00 - 09:00	6	1980	0.008	6	1980	0.008	6	1980	0.016
09:00 - 10:00	6	1980	0.034	6	1980	0.025	6	1980	0.059
10:00 - 11:00	6	1980	0.017	6	1980	0.008	6	1980	0.025
11:00 - 12:00	6	1980	0.017	6	1980	0.025	6	1980	0.042
12:00 - 13:00	6	1980	0.025	6	1980	0.025	6	1980	0.050
13:00 - 14:00	<b>6</b>	<b>1980</b>	<b>0.051</b>	<b>6</b>	<b>1980</b>	<b>0.051</b>	<b>6</b>	<b>1980</b>	<b>0.102</b>
14:00 - 15:00	6	1980	0.008	6	1980	0.017	6	1980	0.025
15:00 - 16:00	6	1980	0.008	6	1980	0.008	6	1980	0.016
16:00 - 17:00	6	1980	0.017	6	1980	0.008	6	1980	0.025
17:00 - 18:00	6	1980	0.034	6	1980	0.034	6	1980	0.068
18:00 - 19:00	6	1980	0.017	6	1980	0.025	6	1980	0.042
19:00 - 20:00	6	1980	0.017	6	1980	0.017	6	1980	0.034
20:00 - 21:00	6	1980	0.000	6	1980	0.000	6	1980	0.000
21:00 - 22:00	5	2070	0.019	5	2070	0.010	5	2070	0.029
22:00 - 23:00	3	2491	0.000	3	2491	0.000	3	2491	0.000
23:00 - 24:00									
Total Rates:			0.272			0.261			0.533

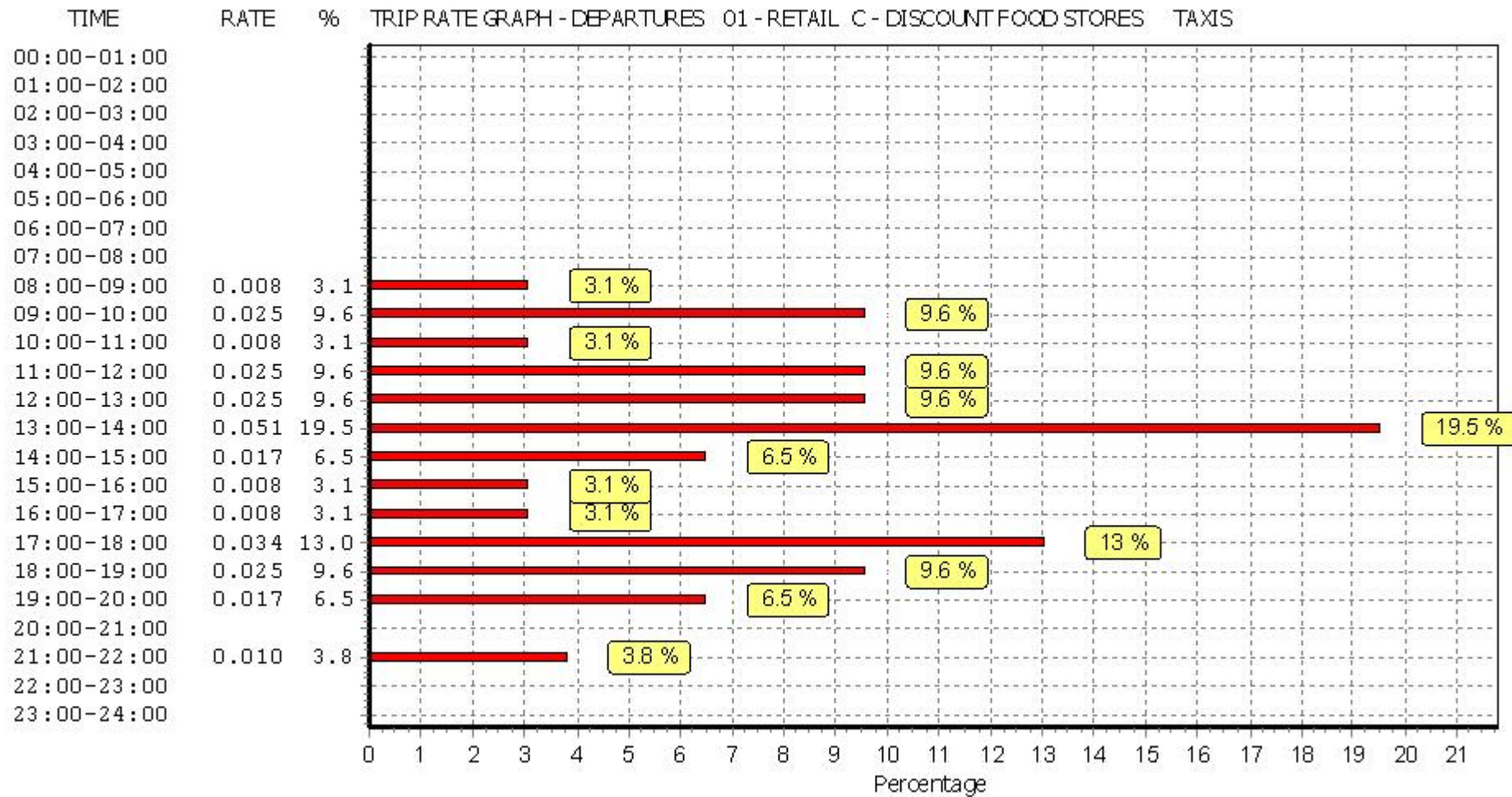
This section displays the trip rate results based on the selected set of surveys and the selected count type (shown just above the table). It is split by three main columns, representing arrivals trips, departures trips, and total trips (arrivals plus departures). Within each of these main columns are 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.

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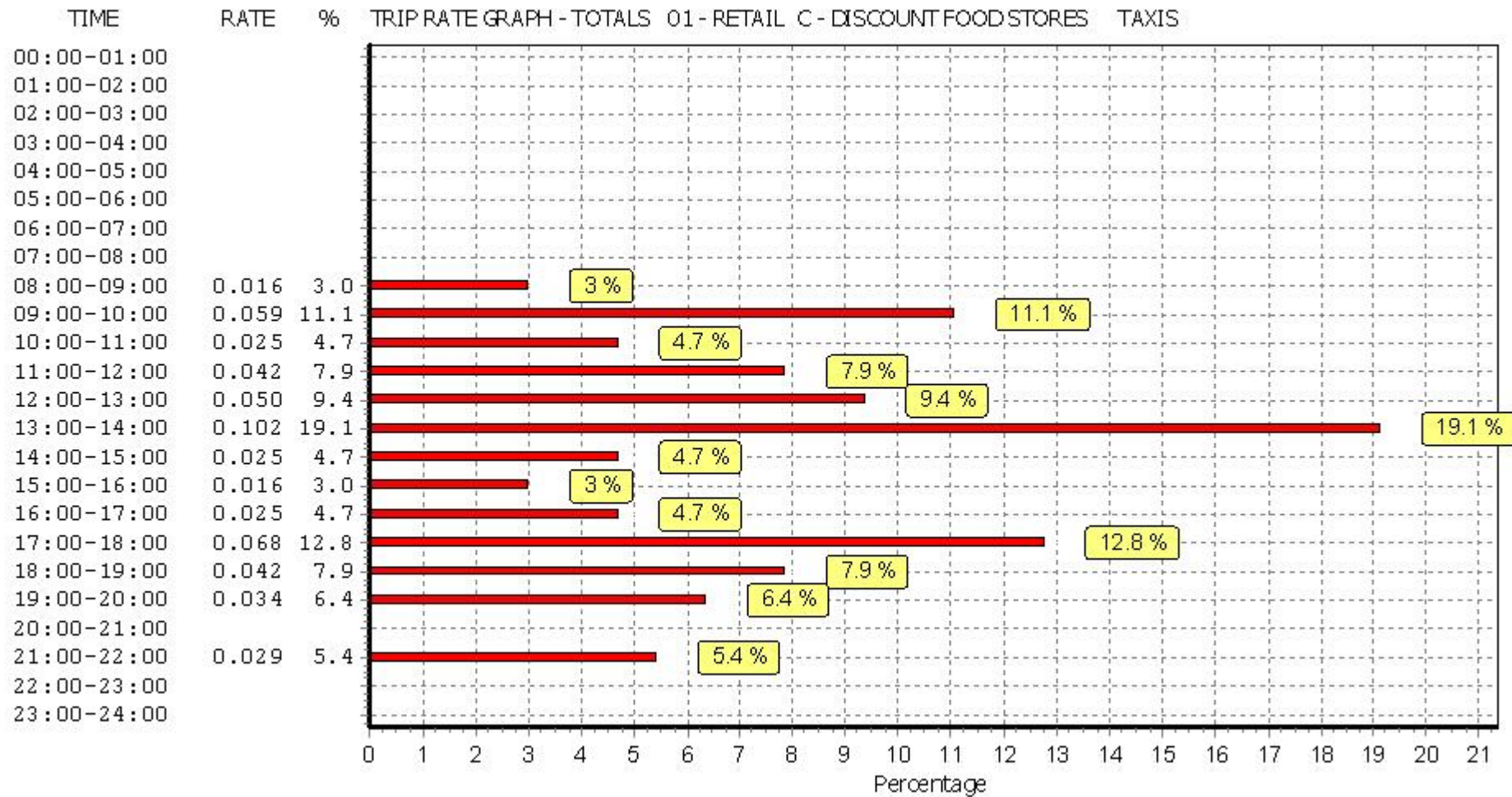




*This graph is a visual representation of the trip rate calculation results screen. The same time periods and trip rates are displayed, but in addition there is an additional column showing the percentage of the total trip rate by individual time period, allowing peak periods to be easily identified through observation. Note that the type of count and the selected direction is shown at the top of the graph.*



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TRIP RATE for Land Use 01 - RETAIL/C - DISCOUNT FOOD STORES

**OGVS**

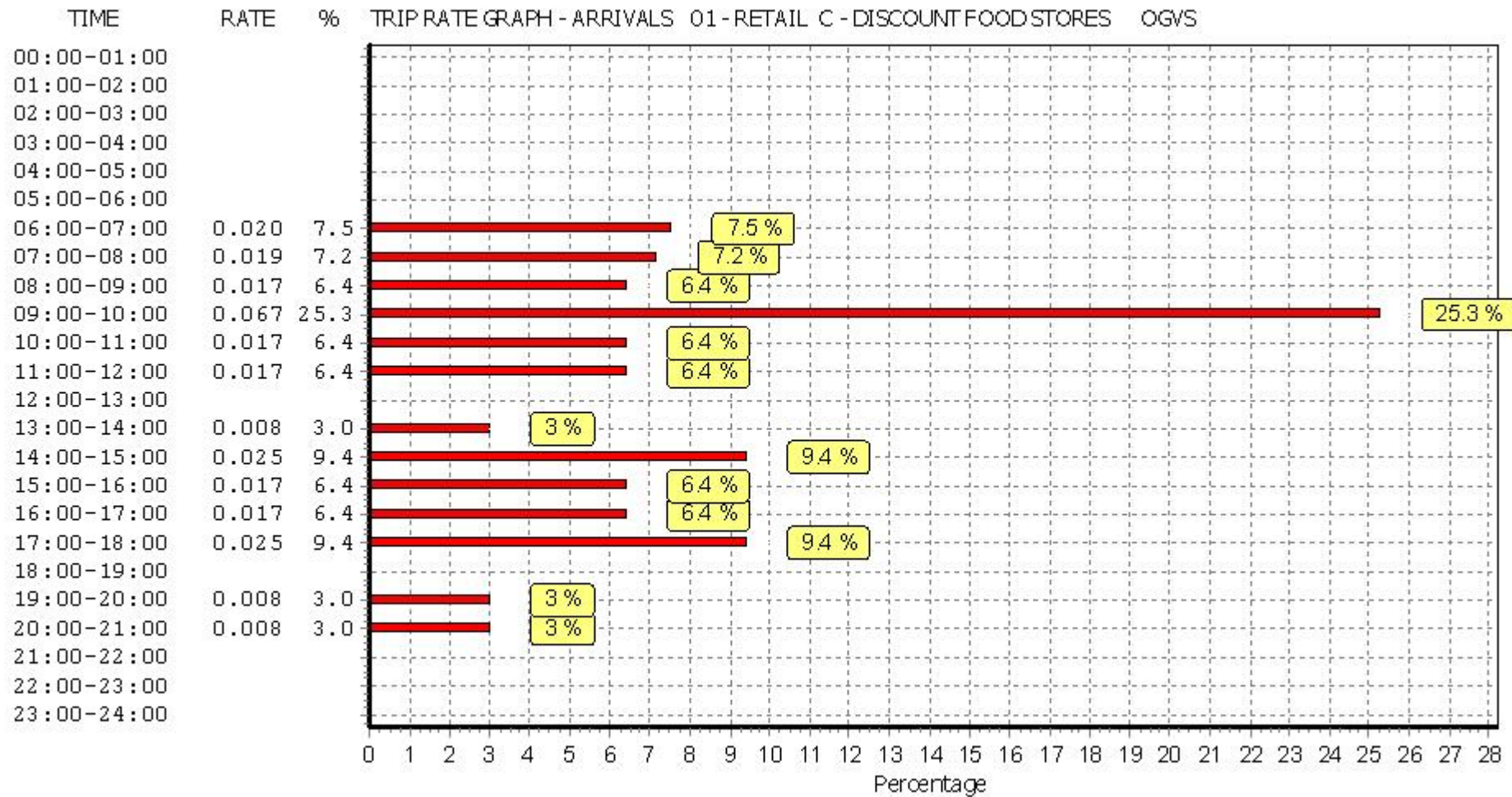
**Calculation factor: 100 sqm**

**BOLD print indicates peak (busiest) period**

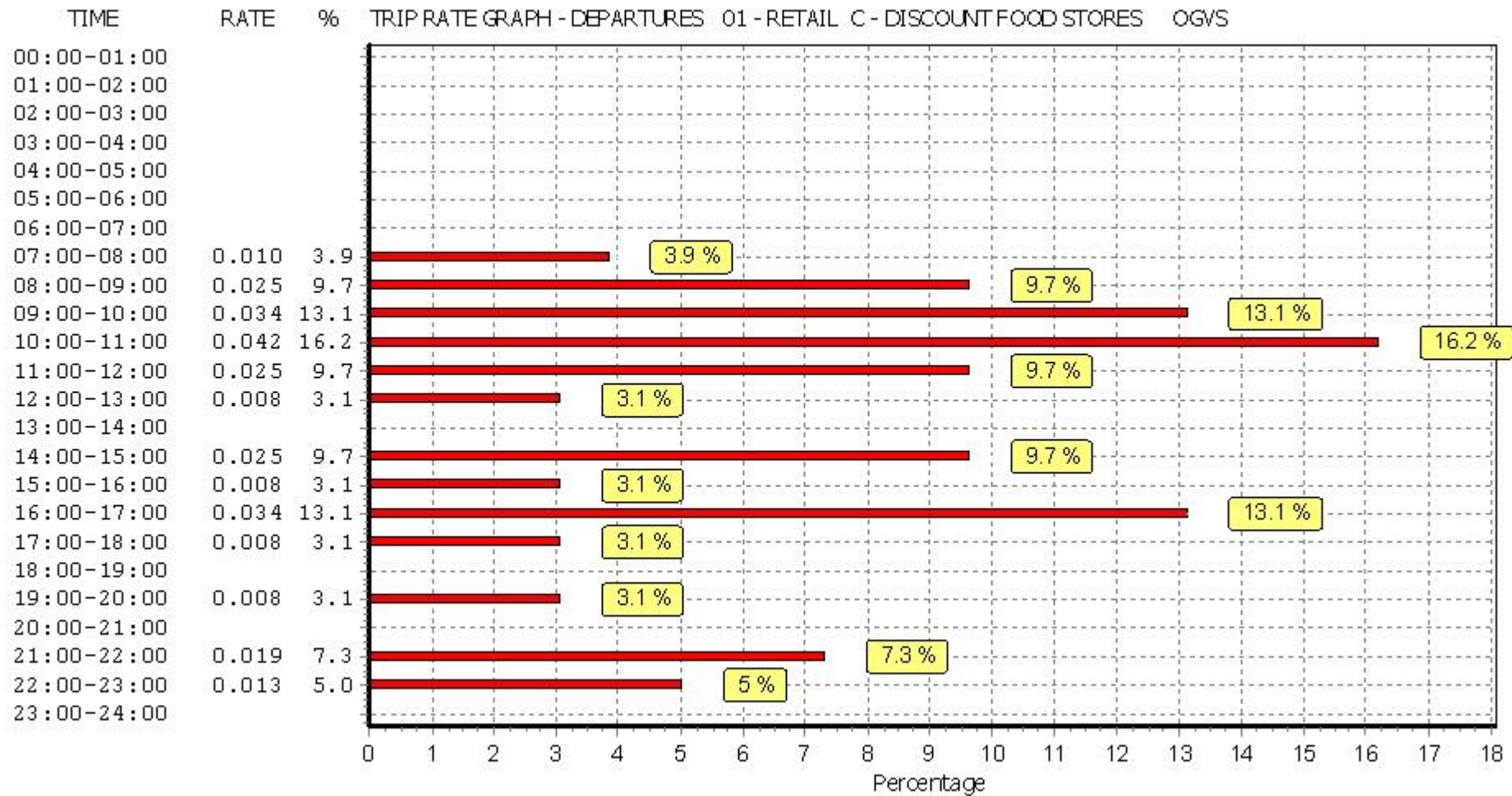
Time Range	ARRIVALS			DEPARTURES			TOTALS		
	No. Days	Ave. GFA	Trip Rate	No. Days	Ave. GFA	Trip Rate	No. Days	Ave. GFA	Trip Rate
00:00 - 01:00									
01:00 - 02:00									
02:00 - 03:00									
03:00 - 04:00									
04:00 - 05:00									
05:00 - 06:00									
06:00 - 07:00	2	2511	0.020	2	2511	0.000	2	2511	0.020
07:00 - 08:00	5	2070	0.019	5	2070	0.010	5	2070	0.029
08:00 - 09:00	6	1980	0.017	6	1980	0.025	6	1980	0.042
09:00 - 10:00	<b>6</b>	<b>1980</b>	<b>0.067</b>	6	1980	0.034	<b>6</b>	<b>1980</b>	<b>0.101</b>
10:00 - 11:00	6	1980	0.017	<b>6</b>	<b>1980</b>	<b>0.042</b>	6	1980	0.059
11:00 - 12:00	6	1980	0.017	6	1980	0.025	6	1980	0.042
12:00 - 13:00	6	1980	0.000	6	1980	0.008	6	1980	0.008
13:00 - 14:00	6	1980	0.008	6	1980	0.000	6	1980	0.008
14:00 - 15:00	6	1980	0.025	6	1980	0.025	6	1980	0.050
15:00 - 16:00	6	1980	0.017	6	1980	0.008	6	1980	0.025
16:00 - 17:00	6	1980	0.017	6	1980	0.034	6	1980	0.051
17:00 - 18:00	6	1980	0.025	6	1980	0.008	6	1980	0.033
18:00 - 19:00	6	1980	0.000	6	1980	0.000	6	1980	0.000
19:00 - 20:00	6	1980	0.008	6	1980	0.008	6	1980	0.016
20:00 - 21:00	6	1980	0.008	6	1980	0.000	6	1980	0.008
21:00 - 22:00	5	2070	0.000	5	2070	0.019	5	2070	0.019
22:00 - 23:00	3	2491	0.000	3	2491	0.013	3	2491	0.013
23:00 - 24:00									
<b>Total Rates:</b>			0.265			0.259			0.524

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.

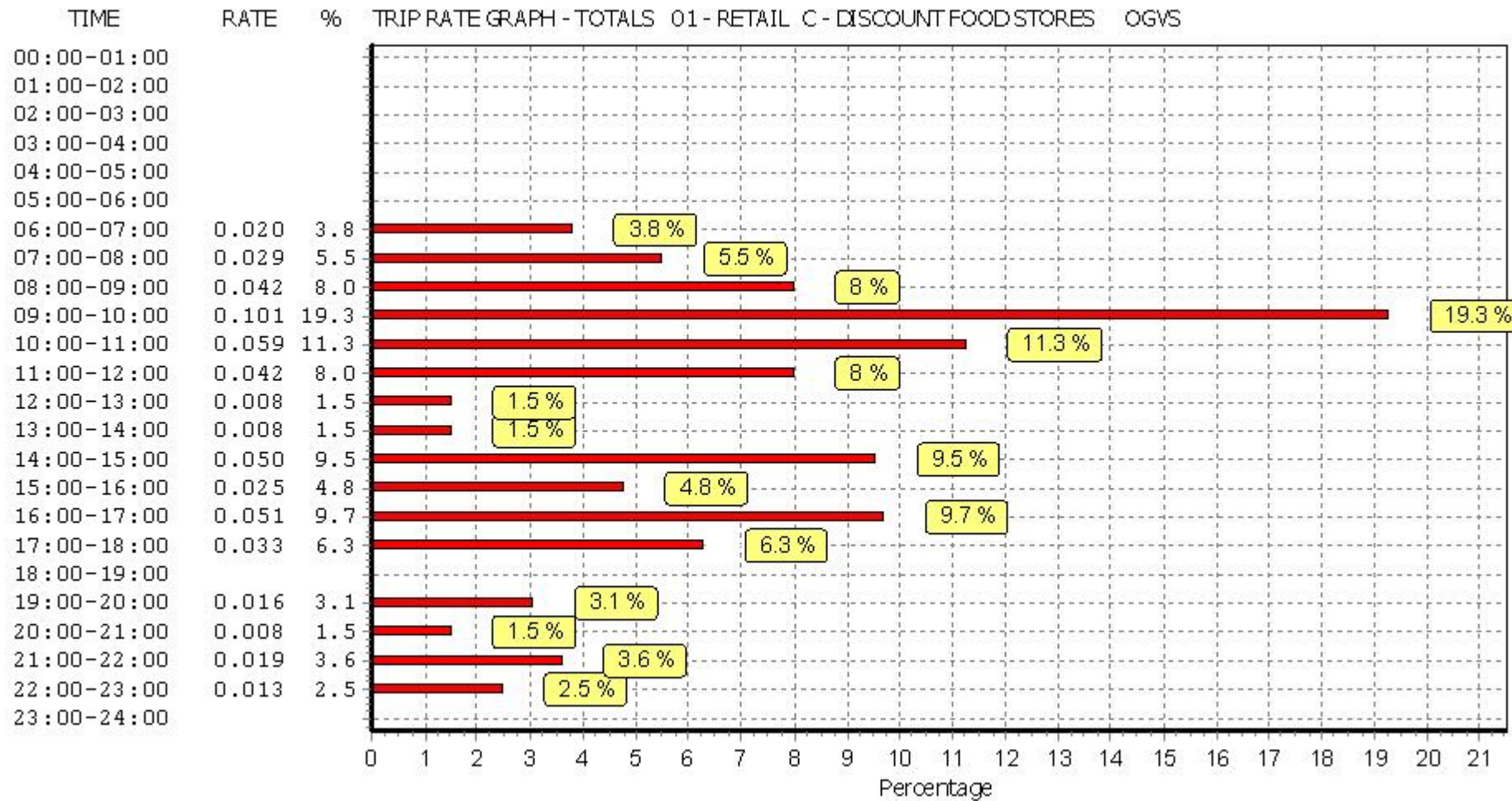
To obtain a trip rate, the average (mean) trip rate parameter value (TRP) is first calculated for all selected survey days that have count data available for the stated time period. The average (mean) number of arrivals, departures or totals (whichever applies) is also calculated (COUNT) for all selected 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.



*This graph is a visual representation of the trip rate calculation results screen. The same time periods and trip rates are displayed, but in addition there is an additional column showing the percentage of the total trip rate by individual time period, allowing peak periods to be easily identified through observation. Note that the type of count and the selected direction is shown at the top of the graph.*



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TRIP RATE for Land Use 01 - RETAIL/C - DISCOUNT FOOD STORES

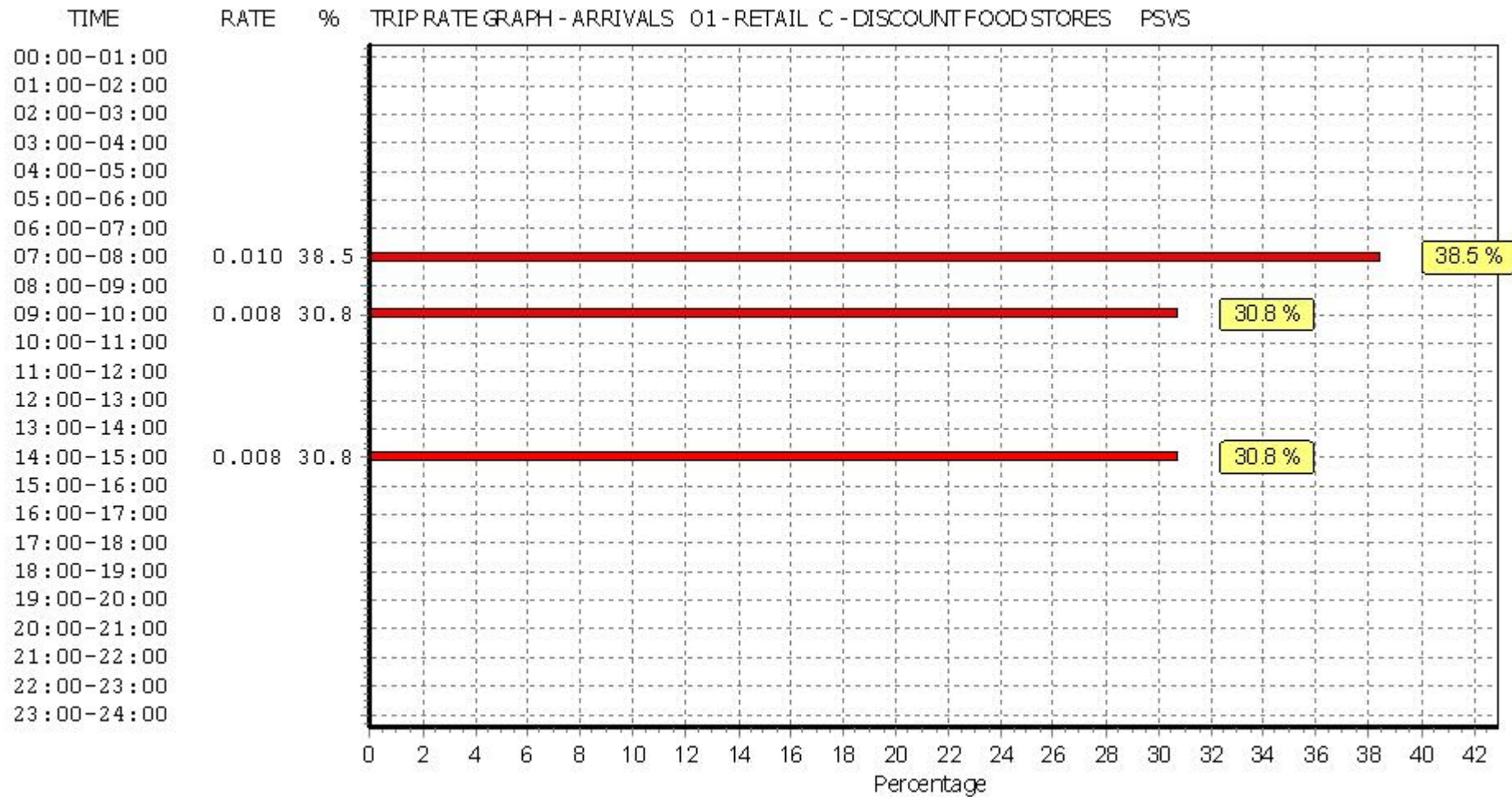
**PSVS****Calculation factor: 100 sqm****BOLD print indicates peak (busiest) period**

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	2	2511	0.000	2	2511	0.000	2	2511	0.000
07:00 - 08:00	<b>5</b>	<b>2070</b>	<b>0.010</b>	5	2070	0.000	5	2070	0.010
08:00 - 09:00	6	1980	0.000	6	1980	0.008	6	1980	0.008
09:00 - 10:00	6	1980	0.008	6	1980	0.000	6	1980	0.008
10:00 - 11:00	6	1980	0.000	6	1980	0.000	6	1980	0.000
11:00 - 12:00	6	1980	0.000	6	1980	0.000	6	1980	0.000
12:00 - 13:00	6	1980	0.000	6	1980	0.000	6	1980	0.000
13:00 - 14:00	6	1980	0.000	6	1980	0.000	6	1980	0.000
14:00 - 15:00	6	1980	0.008	<b>6</b>	<b>1980</b>	<b>0.017</b>	<b>6</b>	<b>1980</b>	<b>0.025</b>
15:00 - 16:00	6	1980	0.000	6	1980	0.000	6	1980	0.000
16:00 - 17:00	6	1980	0.000	6	1980	0.000	6	1980	0.000
17:00 - 18:00	6	1980	0.000	6	1980	0.000	6	1980	0.000
18:00 - 19:00	6	1980	0.000	6	1980	0.000	6	1980	0.000
19:00 - 20:00	6	1980	0.000	6	1980	0.000	6	1980	0.000
20:00 - 21:00	6	1980	0.000	6	1980	0.000	6	1980	0.000
21:00 - 22:00	5	2070	0.000	5	2070	0.000	5	2070	0.000
22:00 - 23:00	3	2491	0.000	3	2491	0.000	3	2491	0.000
23:00 - 24:00									
Total Rates:			0.026			0.025			0.051

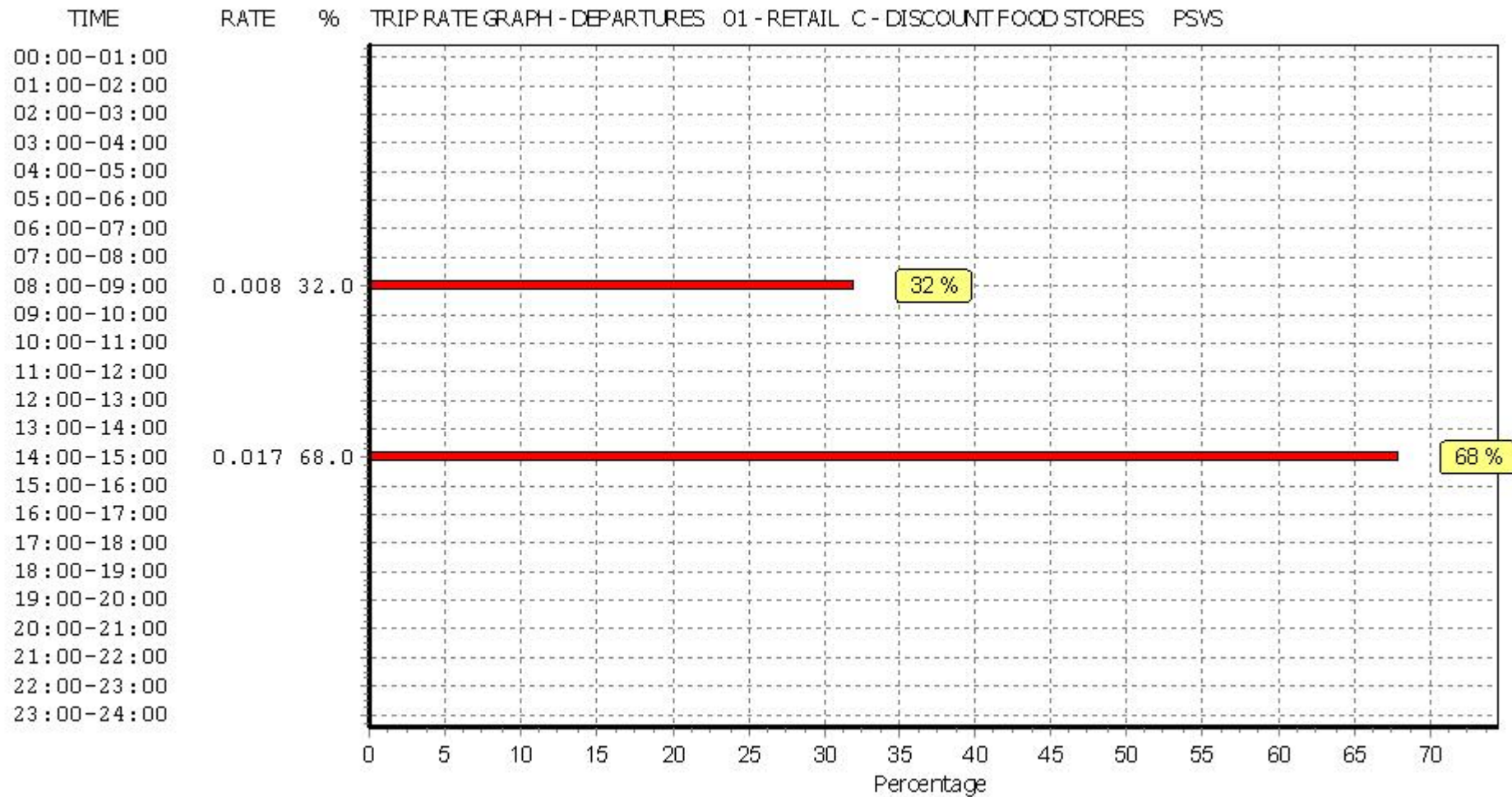
This section displays the trip rate results based on the selected set of surveys and the selected count type (shown just above the table). It is split by three main columns, representing arrivals trips, departures trips, and total trips (arrivals plus departures). Within each of these main columns are 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.

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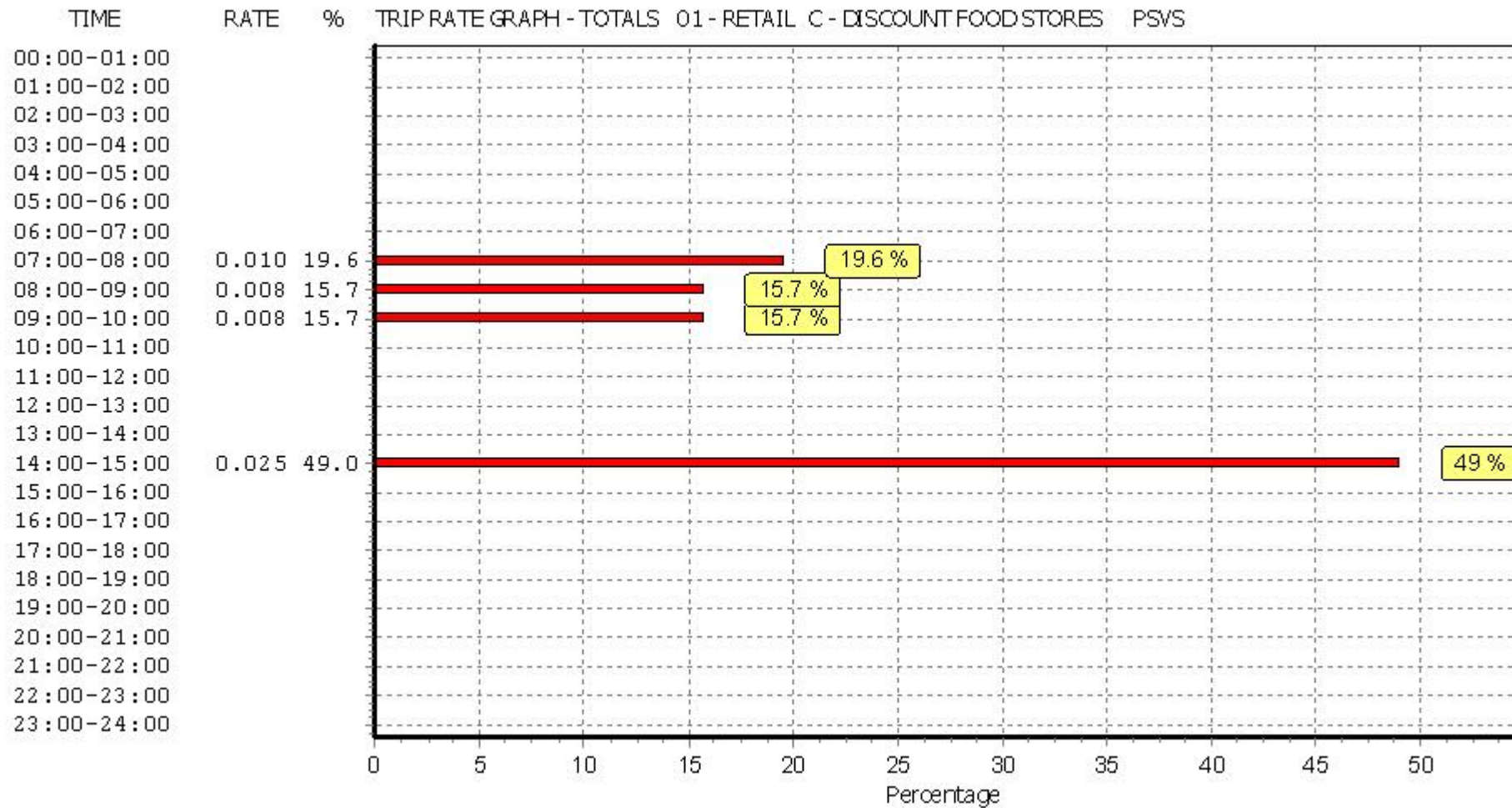




*This graph is a visual representation of the trip rate calculation results screen. The same time periods and trip rates are displayed, but in addition there is an additional column showing the percentage of the total trip rate by individual time period, allowing peak periods to be easily identified through observation. Note that the type of count and the selected direction is shown at the top of the graph.*



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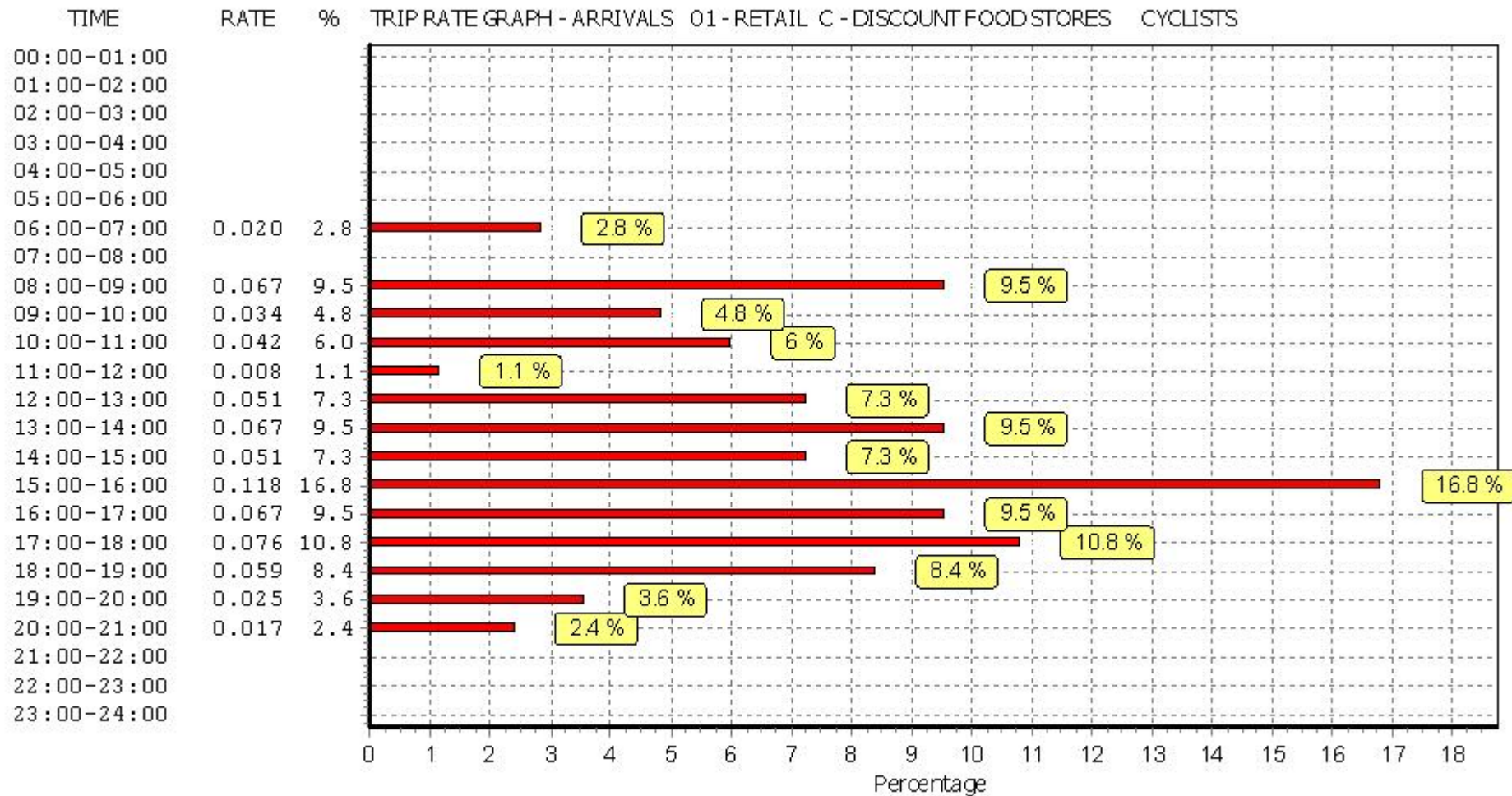
TRIP RATE for Land Use 01 - RETAIL/C - DISCOUNT FOOD STORES

**CYCLISTS****Calculation factor: 100 sqm****BOLD print indicates peak (busiest) period**

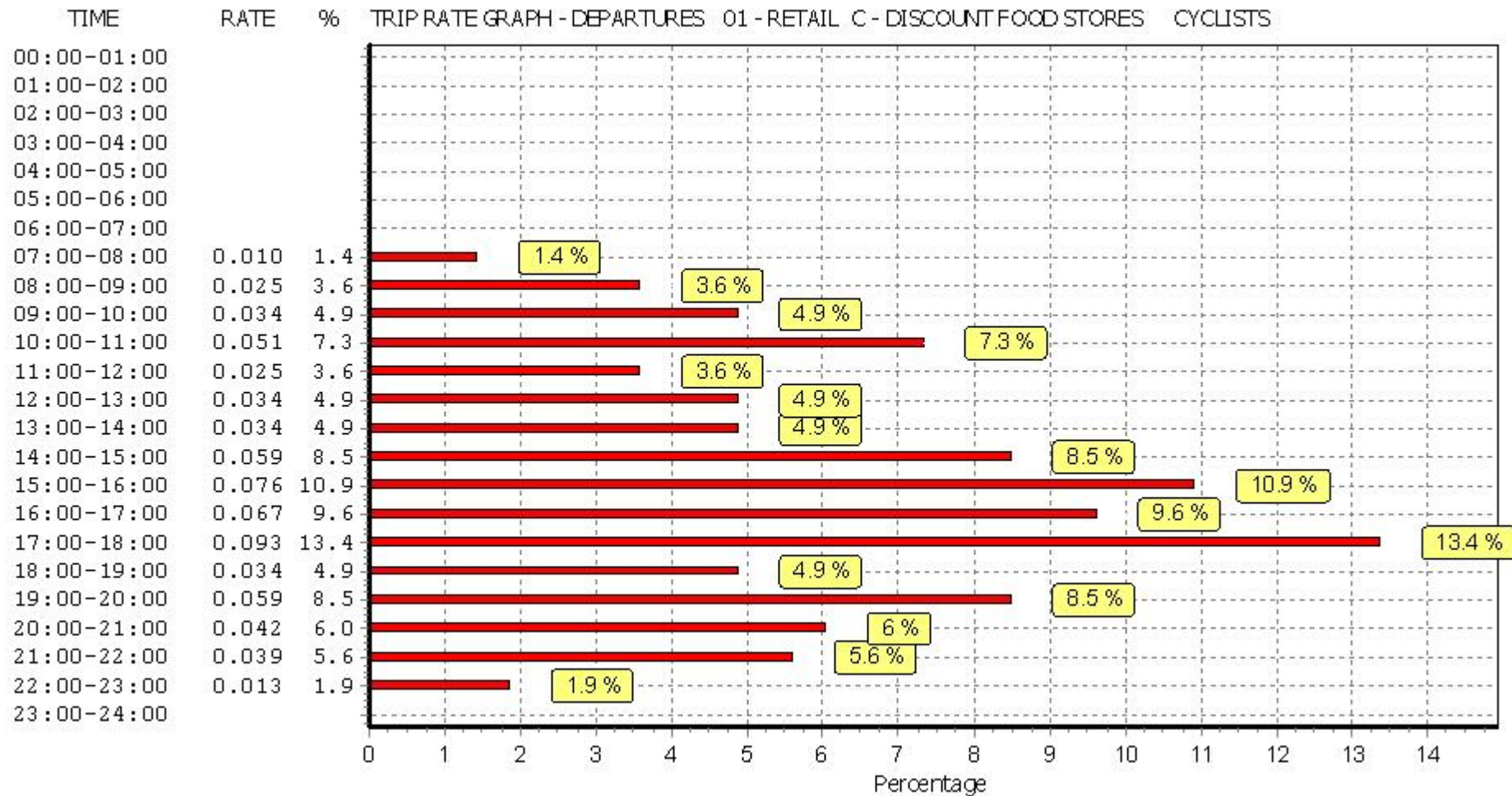
Time Range	ARRIVALS			DEPARTURES			TOTALS		
	No. Days	Ave. GFA	Trip Rate	No. Days	Ave. GFA	Trip Rate	No. Days	Ave. GFA	Trip Rate
00:00 - 01:00									
01:00 - 02:00									
02:00 - 03:00									
03:00 - 04:00									
04:00 - 05:00									
05:00 - 06:00									
06:00 - 07:00	2	2511	0.020	2	2511	0.000	2	2511	0.020
07:00 - 08:00	5	2070	0.000	5	2070	0.010	5	2070	0.010
08:00 - 09:00	6	1980	0.067	6	1980	0.025	6	1980	0.092
09:00 - 10:00	6	1980	0.034	6	1980	0.034	6	1980	0.068
10:00 - 11:00	6	1980	0.042	6	1980	0.051	6	1980	0.093
11:00 - 12:00	6	1980	0.008	6	1980	0.025	6	1980	0.033
12:00 - 13:00	6	1980	0.051	6	1980	0.034	6	1980	0.085
13:00 - 14:00	6	1980	0.067	6	1980	0.034	6	1980	0.101
14:00 - 15:00	6	1980	0.051	6	1980	0.059	6	1980	0.110
15:00 - 16:00	<b>6</b>	<b>1980</b>	<b>0.118</b>	6	1980	0.076	<b>6</b>	<b>1980</b>	<b>0.194</b>
16:00 - 17:00	6	1980	0.067	6	1980	0.067	6	1980	0.134
17:00 - 18:00	6	1980	0.076	<b>6</b>	<b>1980</b>	<b>0.093</b>	6	1980	0.169
18:00 - 19:00	6	1980	0.059	6	1980	0.034	6	1980	0.093
19:00 - 20:00	6	1980	0.025	6	1980	0.059	6	1980	0.084
20:00 - 21:00	6	1980	0.017	6	1980	0.042	6	1980	0.059
21:00 - 22:00	5	2070	0.000	5	2070	0.039	5	2070	0.039
22:00 - 23:00	3	2491	0.000	3	2491	0.013	3	2491	0.013
23:00 - 24:00									
Total Rates:			0.702			0.695			1.397

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.

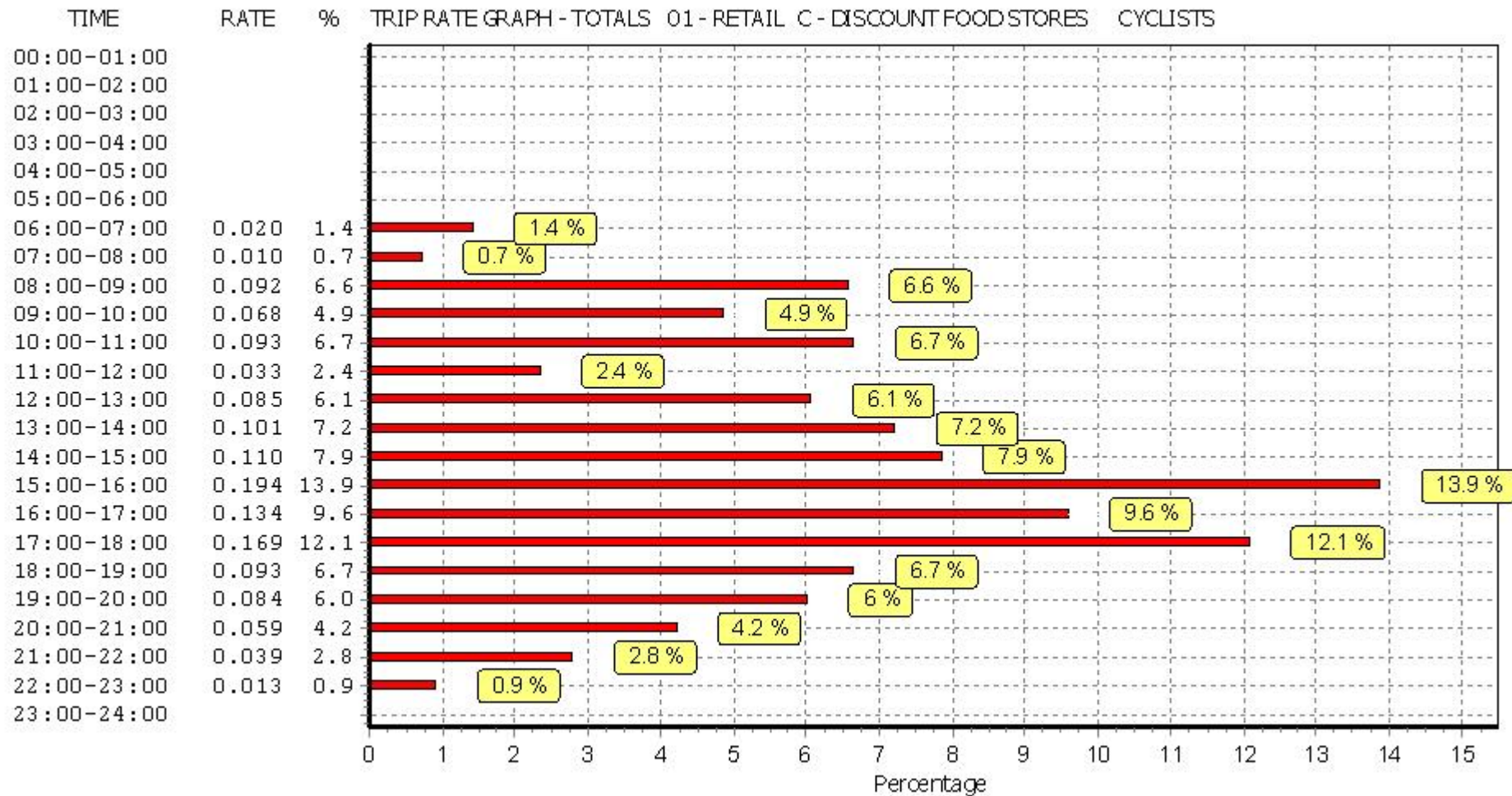
To obtain a trip rate, the average (mean) trip rate parameter value (TRP) is first calculated for all selected survey days that have count data available for the stated time period. The average (mean) number of arrivals, departures or totals (whichever applies) is also calculated (COUNT) for all selected 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.



*This graph is a visual representation of the trip rate calculation results screen. The same time periods and trip rates are displayed, but in addition there is an additional column showing the percentage of the total trip rate by individual time period, allowing peak periods to be easily identified through observation. Note that the type of count and the selected direction is shown at the top of the graph.*



*This graph is a visual representation of the trip rate calculation results screen. The same time periods and trip rates are displayed, but in addition there is an additional column showing the percentage of the total trip rate by individual time period, allowing peak periods to be easily identified through observation. Note that the type of count and the selected direction is shown at the top of the graph.*



*This graph is a visual representation of the trip rate calculation results screen. The same time periods and trip rates are displayed, but in addition there is an additional column showing the percentage of the total trip rate by individual time period, allowing peak periods to be easily identified through observation. Note that the type of count and the selected direction is shown at the top of the graph.*



## Appendix G Trip Distribution and Assignment Calculations





Area Name	Area Code	Travel Time (minutes)	2018 Population (LSOA)	Pop/Time	Percentage Draw	Pop/Time Weighted	Percentage Draw (Weighted)
Coventry 011C	E01009625	4.8	2,492	518	2%	518	2%
Coventry 012A	E01009622	4.4	1,972	449	2%	449	2%
Coventry 012C	E01009627	4.9	1,839	375	1%	375	1%
Coventry 012D	E01009628	2.9	1,734	601	2%	601	2%
Coventry 014A	E01009522	3.4	1,464	434	2%	434	2%
Coventry 014B	E01009529	4.9	1,601	329	1%	329	1%
Coventry 014C	E01009530	5.1	1,482	293	1%	293	1%
Coventry 014D	E01009645	2.9	1,586	538	2%	538	2%
Coventry 015E	E01009573	4.4	1,650	373	1%	373	1%
Coventry 015F	E01009574	4.6	1,740	374	1%	374	1%
Coventry 017A	E01009643	2.5	1,530	620	2%	620	2%
Coventry 017B	E01009644	3.2	1,800	561	2%	561	2%
Coventry 017C	E01009647	1.0	1,875	1,845	7%	1,845	7%
Coventry 017D	E01009648	1.6	1,567	1,010	4%	1,010	4%
Coventry 017E	E01009652	4.3	1,453	336	1%	336	1%
Coventry 017F	E01009653	3.9	1,603	416	2%	416	2%
Coventry 020A	E01009629	4.8	3,586	749	3%	749	3%
Coventry 020B	E01009630	3.0	1,913	647	3%	647	3%
Coventry 020C	E01009631	3.0	1,538	521	2%	521	2%
Coventry 020D	E01009632	3.4	2,367	695	3%	695	3%
Coventry 020E	E01009650	2.4	2,280	948	4%	948	4%
Coventry 022A	E01009646	4.2	1,580	373	1%	373	1%
Coventry 022D	E01009694	4.8	1,545	319	1%	319	1%
Coventry 023C	E01009635	5.2	5,198	995	4%	995	4%
Coventry 024C	E01009638	5.2	1,906	365	1%	365	1%
Coventry 024F	E01009641	5.2	4,791	917	4%	917	4%
Coventry 026A	E01009649	2.5	1,509	598	2%	598	2%
Coventry 026B	E01009684	5.8	1,566	270	1%	270	1%
Coventry 026C	E01009685	4.4	1,714	392	2%	392	2%
Coventry 026D	E01009686	5.0	1,812	366	1%	366	1%
Coventry 026E	E01009687	3.6	1,473	410	2%	410	2%
Coventry 028B	E01009634	5.2	2,612	500	2%	500	2%
Coventry 030A	E01009688	2.3	1,747	746	3%	746	3%
Coventry 030B	E01009689	3.8	2,032	538	2%	538	2%
Coventry 030C	E01009690	3.5	1,763	508	2%	508	2%
Coventry 030D	E01009691	4.0	1,585	395	2%	395	2%
Coventry 031A	E01009548	4.6	3,028	653	3%	653	3%
Coventry 031B	E01009553	4.0	2,837	705	3%	705	3%
Coventry 031C	E01009642	5.5	7,466	1,348	5%	1,348	5%
Coventry 031D	E01009651	2.3	2,144	924	4%	924	4%
Coventry 034A	E01009554	5.8	1,425	245	1%	245	1%
Coventry 034C	E01009556	5.2	1,676	321	1%	321	1%
Coventry 034E	E01009558	4.7	1,520	323	1%	323	1%
Coventry 037B	E01009549	5.1	1,915	376	1%	376	1%
Coventry 037C	E01009550	5.2	2,071	400	2%	400	2%
<b>TOTAL</b>			<b>95,987</b>	<b>25,619</b>	<b>100%</b>	<b>25,619</b>	<b>100%</b>

Route	%Distribution	AM			PM		
		Arrivals	Departures	Two-Way	Arrivals	Departures	Two-Way
A	27%	7	5	11	12	13	24
B	16%	4	3	7	7	7	14
C	16%	4	3	7	7	7	14
D	18%	5	3	8	8	8	16
E	17%	4	3	7	7	8	15
F	5%	1	1	2	2	2	5
<b>Total</b>	<b>100%</b>	<b>25</b>	<b>17</b>	<b>42</b>	<b>43</b>	<b>46</b>	<b>89</b>



Average Weekday AM Peak	Northbound	531	38%
	Southbound	854	62%
Average Weekday PM Peak	Northbound	976	56%
	Southbound	760	44%
Saturday Peak (13:00 - 14:00)	Northbound	731	47%
	Southbound	839	53%

Route	%Distribution	AM			%Distribution	PM			%Distribution	Saturday		
		Arrivals	Departures	Two-Way		Arrivals	Departures	Two-Way		Arrivals	Departures	Two-Way
Northbound	38%	7	4	11	56%	17	18	35	47%	21	21	42
Southbound	62%	11	7	18	44%	13	14	27	53%	24	24	49
<b>Total</b>	<b>100%</b>	<b>17</b>	<b>12</b>	<b>29</b>	<b>100%</b>	<b>30</b>	<b>32</b>	<b>62</b>	<b>100%</b>	<b>45</b>	<b>46</b>	<b>91</b>



Previous Route*	New Arrival Route	Departure Route (back to original route)
Moseley Avenue (Ahead)	Moseley Avenue (Left)	Left
Moseley Avenue (Right)	Moseley Avenue (Left)	Ahead
Four Pounds Avenue (Ahead)	Four Pounds Avenue (Right)	Right
Four Pounds Avenue (Left)	Four Pounds Avenue (Right)	Ahead
A4114 Holyhead Road (E) (Left)	A4114 Holyhead Road (E) (Ahead)	Right
A4114 Holyhead Road (E) (Right)	A4114 Holyhead Road (E) (Ahead)	Left

\*routes through junction that don't turn onto Holyhead Road (W) - accounted for by pass-by trips

Diverted trips at site access are all "new trips"  
Diverted trips beyond this junction are not new trips.

**Weekday AM Peak**



**Weekday PM Peak**



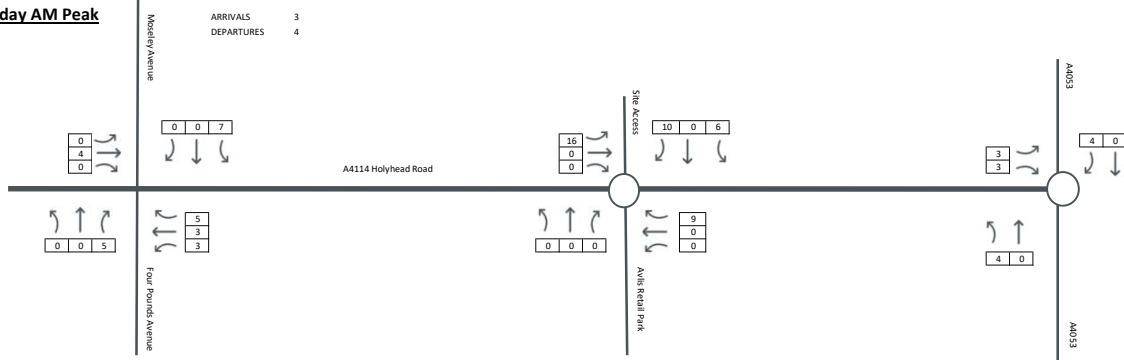
**Saturday Peak**



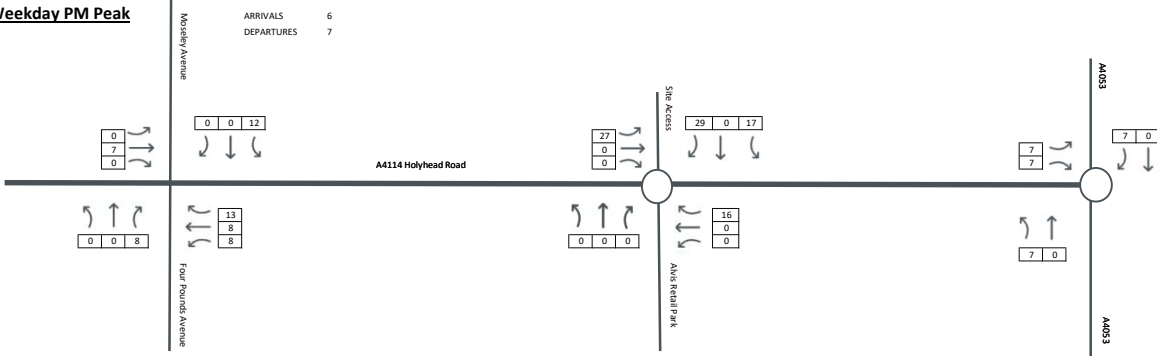




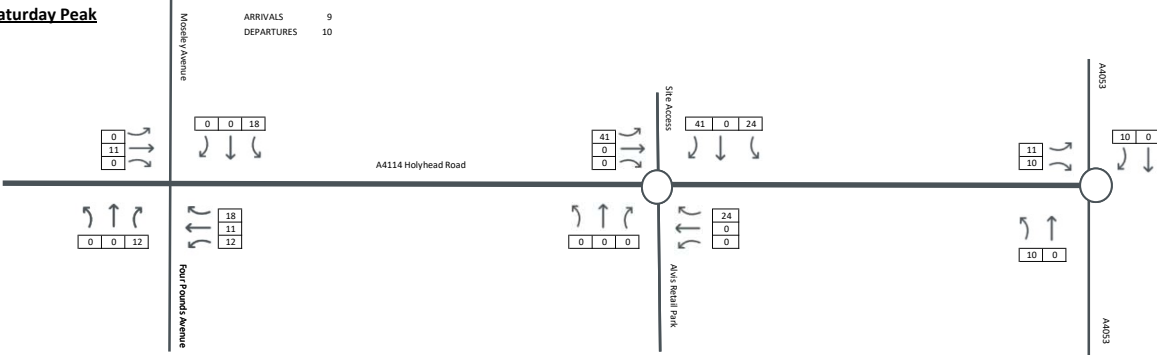
**Weekday AM Peak**



**Weekday PM Peak**

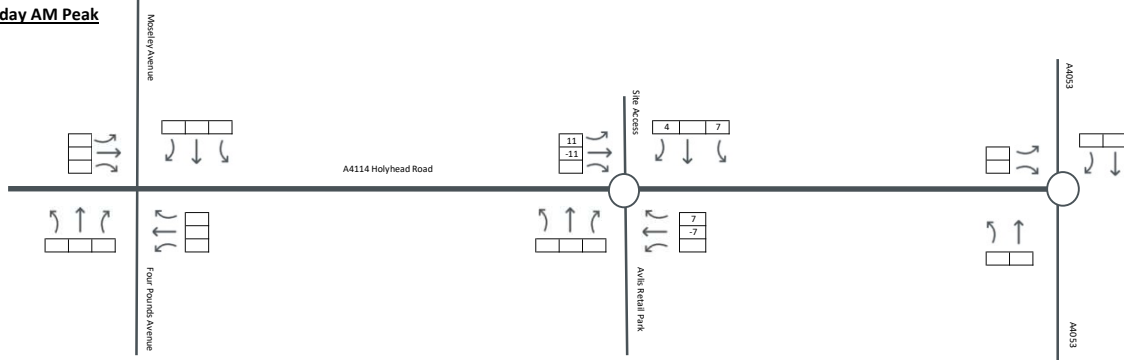


**Saturday Peak**

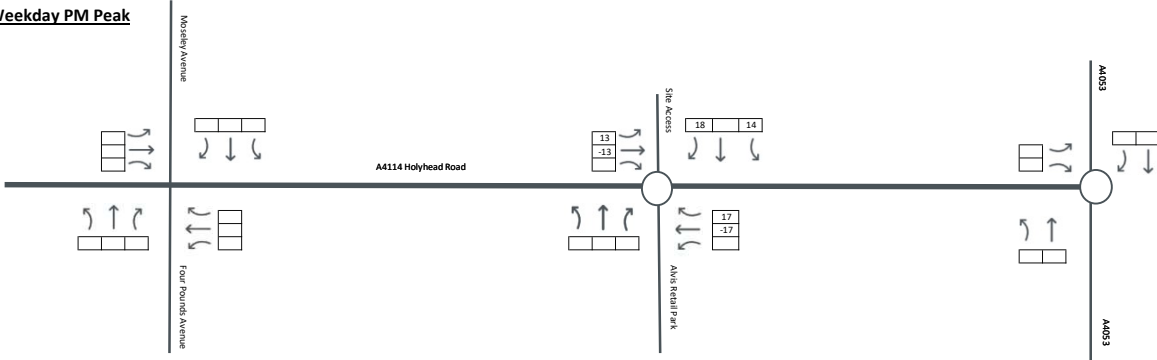




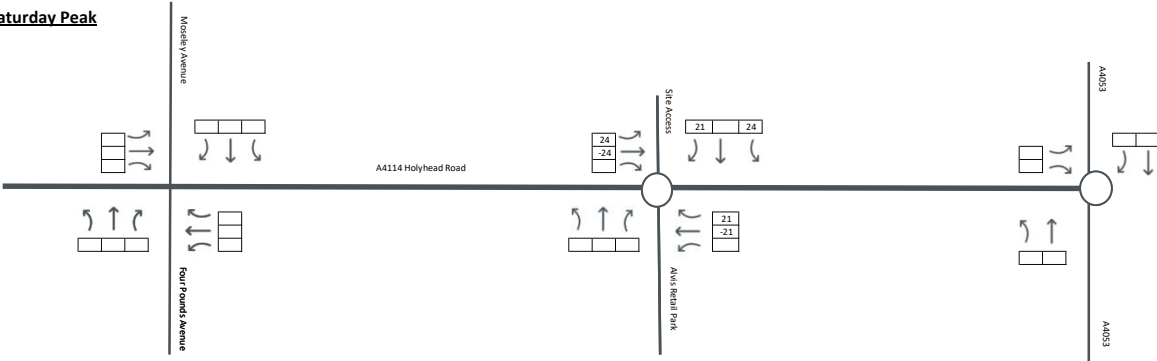
**Weekday AM Peak**



**Weekday PM Peak**

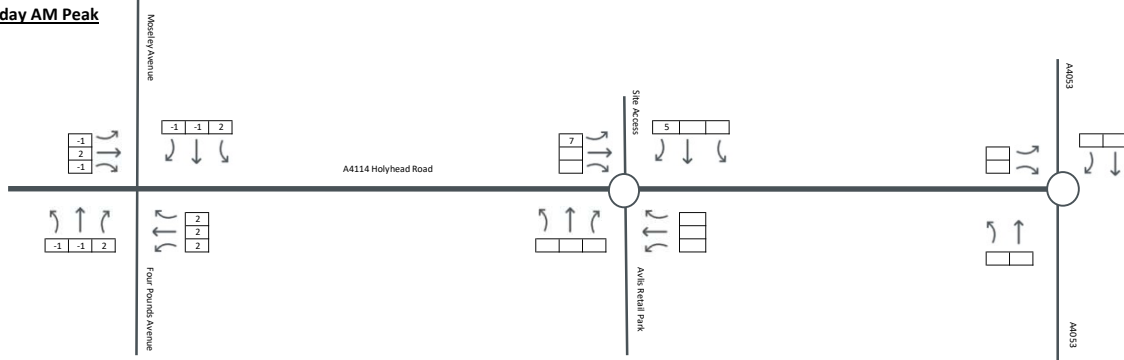


**Saturday Peak**

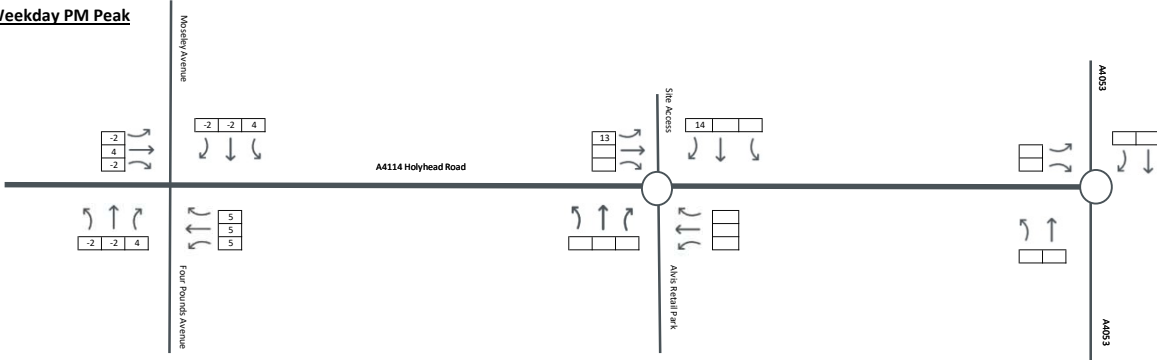




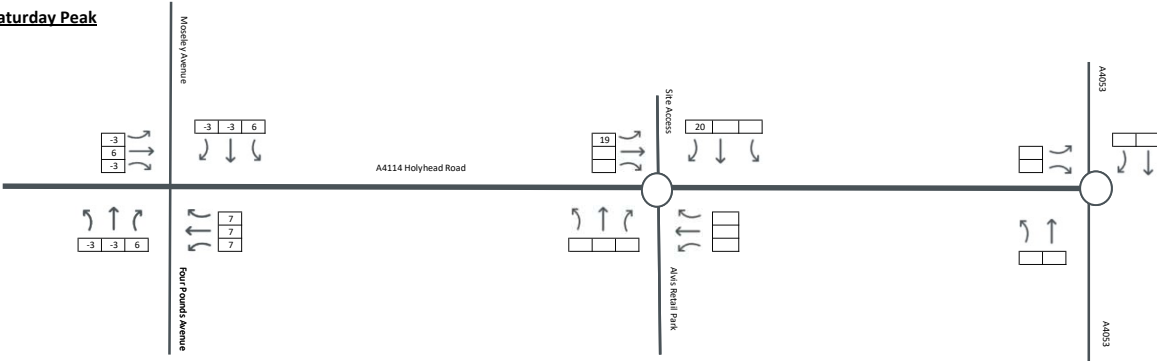
**Weekday AM Peak**



**Weekday PM Peak**



**Saturday Peak**





## Appendix H

## Junction Capacity Modelling Outputs

Junctions 9
ARCADY 9 - Roundabout Module
Version: 9.5.0.6896 © Copyright TRL Limited, 2018
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**Filename:** Holyhead Road - Site Access Roundabout Junction - Lane SIm.j9  
**Path:** C:\PJA\Phil Jones Associates\SharedData - 05003 Lidl, Holyhead Road\3. Technical\3.2 Modelling  
**Report generation date:** 12/08/2020 09:24:45

- »Proposed Roundabout Arrangement - 2022 Existing , PM
- »Proposed Roundabout Arrangement - 2022 Opening Year , PM
- »Proposed Roundabout Arrangement - 2027 Future Year , PM
- »Proposed Roundabout Arrangement - 2027 Sensitivity, PM

**Summary of junction performance**

PM				
	Queue (PCU)	Delay (s)	RFC	LOS
Proposed Roundabout Arrangement [Lane Simulation] - 2022 Existing				
Arm 1	0.1	6.00		A
Arm 2	7.7	25.24		D
Arm 3	0.4	4.98		A
Arm 4	5.8	25.62		D
Proposed Roundabout Arrangement [Lane Simulation] - 2022 Opening Year				
Arm 1	0.2	6.64		A
Arm 2	10.0	31.13		D
Arm 3	0.4	5.14		A
Arm 4	9.8	38.71		E
Proposed Roundabout Arrangement [Lane Simulation] - 2027 Future Year				
Arm 1	0.2	6.55		A
Arm 2	16.9	51.76		F
Arm 3	0.4	5.29		A
Arm 4	15.7	59.58		F
Proposed Roundabout Arrangement [Lane Simulation] - 2027 Sensitivity				
Arm 1	0.3	6.91		A
Arm 2	19.7	57.59		F
Arm 3	0.4	5.37		A
Arm 4	19.3	71.66		F

There are warnings associated with one or more model runs - see the 'Data Errors and Warnings' tables for each Analysis or Demand Set.

Values shown are the highest values encountered over all time segments. Delay is the maximum value of average delay per arriving vehicle. Arm and junction delays are averages for all movements, including movements with zero delay.

## File summary

### File Description

<b>Title</b>	Holyhead Road/Site Access Roundabout
<b>Location</b>	Holyhead Road, Coventry
<b>Site number</b>	05003
<b>Date</b>	10/08/2020
<b>Version</b>	
<b>Status</b>	(new file)
<b>Identifier</b>	
<b>Client</b>	Lidl
<b>Jobnumber</b>	05003
<b>Enumerator</b>	PJA\Lianne Brook
<b>Description</b>	

### Units

Distance units	Speed units	Traffic units input	Traffic units results	Flow units	Average delay units	Total delay units	Rate of delay units
m	kph	PCU	PCU	perHour	s	-Min	perMin

### Analysis Options

Vehicle length (m)	Calculate Queue Percentiles	Calculate detailed queueing delay	Calculate residual capacity	RFC Threshold	Average Delay threshold (s)	Queue threshold (PCU)
5.75				0.85	36.00	20.00

### Lane Simulation options

Criteria type	Stop criteria (%)	Stop criteria time (s)	Stop criteria number of trials	Random seed	Results refresh speed (s)	Individual vehicle animation number of trials	Average animation capture interval (s)	Use quick response	Do flow sampling	Suppress automatic lane creation	Last run random seed	Last run number of trials	Last run time taken (s)
Delay	1.00	100000	100000	-1	3	1	60	✓			154518264	272	23.62

### Demand Set Summary

ID	Scenario name	Time Period name	Traffic profile type	Start time (HH:mm)	Finish time (HH:mm)	Time period length (min)	Time segment length (min)	Run automatically
D1	2022 Existing	PM	FLAT	17:00	18:00	60	15	✓
D2	2022 Opening Year	PM	FLAT	17:00	18:00	60	15	✓
D3	2027 Future Year	PM	FLAT	17:00	18:00	60	15	✓
D4	2027 Sensitivity	PM	FLAT	17:00	18:00	60	15	✓

### Analysis Set Details

ID	Name	Use Lane Simulation	Include in report	Network flow scaling factor (%)	Network capacity scaling factor (%)
A1	Proposed Roundabout Arrangement	✓	✓	100.000	100.000

# Proposed Roundabout Arrangement - 2022

## Existing , PM

### Data Errors and Warnings

Severity	Area	Item	Description
Warning	Lane Simulation	A1 - Proposed Roundabout Arrangement [Lane Simulation]	This analysis set uses Lane Simulation mode. This is provided as an investigative tool and the user should apply judgement when interpreting the results.
Warning	Geometry	Arm 4 - Roundabout Geometry	Effective flare length is over 30m, which is outside the normal range. Treat capacities with increasing caution.

## Junction Network

### Junctions

Junction	Name	Junction type	Use circulating lanes	Arm order	Junction Delay (s)	Junction LOS
1	Holyhead Road/Site Access	Standard Roundabout		1, 2, 3, 4	22.87	C

### Junction Network Options

Driving side	Lighting
Left	Normal/unknown

## Arms

### Arms

Arm	Name	Description
1	Site Access	
2	Holyhead Road East	
3	Four Pounds Avenue	
4	Holyhead Road West	

### Roundabout Geometry

Arm	V - Approach road half-width (m)	E - Entry width (m)	I' - Effective flare length (m)	R - Entry radius (m)	D - Inscribed circle diameter (m)	PHI - Conflict (entry) angle (deg)	Exit only
1	3.25	6.00	2.6	15.0	42.0	33.5	
2	3.80	9.00	24.0	80.0	42.0	15.0	
3	6.00	8.50	10.0	65.0	42.0	14.0	
4	3.80	6.80	32.0	13.5	42.0	33.5	

### Slope / Intercept / Capacity

#### Roundabout Slope and Intercept used in model

Arm	Final slope	Final intercept (PCU/hr)
1	0.518	1141
2	0.776	2267
3	0.810	2439
4	0.643	1785

The slope and intercept shown above include any corrections and adjustments.

### Lane Simulation: Arm options

Arm	Lane capacity source	Traffic considering secondary lanes (%)
1	Evenly split	10.00
2	Evenly split	10.00
3	Evenly split	10.00
4	Evenly split	10.00

### Lanes

Arm	Side	Lane level	Lane	Destination arms	Has limited storage	Storage (PCU)	Has bottleneck	Minimum capacity (PCU/hr)	Maximum capacity (PCU/hr)	Signalised
1	Entry	1	1	1, 2, 3, 4		Infinity		0	99999	
	Exit	1	1			Infinity				
2	Entry	1	1	3	✓	4.00		0	99999	
			2	1, 2, 4	✓	4.00		0	99999	
	Exit	1	1	(1, 2, 3, 4)		Infinity				
			1			Infinity				
3	Entry	1	1	4		Infinity		0	99999	
			2	2		Infinity		0	99999	
	Exit	1	1			Infinity				
			1			Infinity				
4	Entry	1	1	1, 2	✓	4.00		0	99999	
			2	3	✓	4.00		0	99999	
	Exit	1	1	(1, 2, 3, 4)		Infinity				
			1			Infinity				

### Entry Lane slope and intercept

Arm	Side	Lane level	Lane	Final slope	Final intercept (PCU/hr)
1	Entry	1	1	0.518	1141
2	Entry	1	1	0.388	1133
			2	0.388	1133
3	Entry	1	1	0.405	1219
			2	0.405	1219
4	Entry	1	1	0.321	892
			2	0.321	892

### Summary of Entry Lane allowed movements

Arm	Lane Level	Lane	Destination arm			
			1	2	3	4
1	1	1	✓	✓	✓	✓
2	1	1			✓	
		2	✓	✓		✓
3	1	1	✓	✓	✓	✓
		2		✓		
4	1	1	✓	✓		
		2			✓	
	2	1	✓	✓	✓	✓

## Traffic Demand

### Demand Set Details

ID	Scenario name	Time Period name	Traffic profile type	Start time (HH:mm)	Finish time (HH:mm)	Time period length (min)	Time segment length (min)	Run automatically
D1	2022 Existing	PM	FLAT	17:00	18:00	60	15	✓



Vehicle mix varies over turn	Vehicle mix varies over entry	Vehicle mix source	PCU Factor for a HV (PCU)
✓	✓	HV Percentages	2.00

### Demand overview (Traffic)

Arm	Linked arm	Profile type	Use O-D data	Average Demand (PCU/hr)	Scaling Factor (%)
1		FLAT	✓	63	100.000
2		FLAT	✓	1036	100.000
3		FLAT	✓	200	100.000
4		FLAT	✓	812	100.000

## Origin-Destination Data

### Demand (PCU/hr)

	To				
	1	2	3	4	
From	1	0	29	0	34
	2	12	0	100	924
	3	0	100	0	100
	4	12	700	100	0

## Vehicle Mix

### Heavy Vehicle Percentages

	To				
	1	2	3	4	
From	1	0	0	0	0
	2	0	0	0	4
	3	0	0	0	0
	4	0	4	0	0

## Results

### Results Summary for whole modelled period

Arm	Max Delay (s)	Max Queue (PCU)	Max LOS	Average Demand (PCU/hr)	Total Junction Arrivals (PCU)
1	6.00	0.1	A	63	63
2	25.24	7.7	D	1037	1037
3	4.98	0.4	A	203	203
4	25.62	5.8	D	815	815

### Main Results for each time segment

#### 17:00 - 17:15

Arm	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Circulating flow (PCU/hr)	Throughput (PCU/hr)	Average throughput (PCU/hr)	Throughput (exit side) (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
1	63	16	910	63	64	25	0.0	0.1	5.699	A
2	1032	258	135	1024	1011	838	0.0	6.8	20.577	C
3	209	52	960	210	202	200	0.0	0.3	4.975	A
4	818	205	119	817	796	1051	0.0	5.8	22.808	C

**17:15 - 17:30**

Arm	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Circulating flow (PCU/hr)	Throughput (PCU/hr)	Average throughput (PCU/hr)	Throughput (exit side) (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
1	65	16	900	65	63	24	0.1	0.1	5.997	A
2	1050	263	136	1042	1033	829	6.8	7.7	25.239	D
3	201	50	978	201	200	200	0.3	0.4	4.977	A
4	807	202	111	813	817	1067	5.8	5.1	24.712	C

**17:30 - 17:45**

Arm	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Circulating flow (PCU/hr)	Throughput (PCU/hr)	Average throughput (PCU/hr)	Throughput (exit side) (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
1	61	15	913	61	65	24	0.1	0.1	5.837	A
2	1035	259	137	1036	1036	838	7.7	6.6	24.116	C
3	204	51	967	204	202	206	0.4	0.2	4.946	A
4	825	206	113	824	812	1058	5.1	5.8	25.620	D

**17:45 - 18:00**

Arm	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Circulating flow (PCU/hr)	Throughput (PCU/hr)	Average throughput (PCU/hr)	Throughput (exit side) (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
1	65	16	898	64	63	23	0.1	0.1	5.935	A
2	1033	258	136	1036	1032	826	6.6	7.0	24.158	C
3	197	49	972	198	201	200	0.2	0.3	4.974	A
4	810	203	110	811	812	1060	5.8	5.7	25.205	D

## Lane Results

Lane Level notation: Lane Level 1 is always closest to the junction.

### Lanes: Main Results for each time segment

**17:00 - 17:15**

Arm	Side	Lane level	Lane	Destination arms	Total Demand (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Average throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
1	Entry	1	1	1, 2, 3, 4	63	670	0.094	63	64	0.0	0.1	5.699	A
	Exit	1	1		25			25	24	0.0	0.0	0.000	A
2	Entry	1	1	3	100	1081	0.093	100	98	0.0	0.1	3.825	A
			2	1, 2, 4	923	1081	0.854	924	913	0.0	2.7	10.445	B
	Exit	1	1	(1, 2, 3, 4)	1032			1023	1022	0.0	4.0	10.758	B
			1		838			838	814	0.0	0.0	0.000	A
3	Entry	1	1	4	104	831	0.125	104	102	0.0	0.1	4.909	A
			2	2	106	831	0.127	106	100	0.0	0.1	5.042	A
	Exit	1	1		200			200	197	0.0	0.0	0.000	A
4	Entry	1	1	1, 2	717	854	0.840	717	696	0.0	2.6	12.838	B
			2	3	100	854	0.117	100	99	0.0	0.1	4.757	A
	Exit	1	1	(1, 2, 3, 4)	818			817	807	0.0	3.1	10.950	B
			1		1051			1051	1038	0.0	0.0	0.000	A

**17:15 - 17:30**

Arm	Side	Lane level	Lane	Destination arms	Total Demand (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Average throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
1	Entry	1	1	1, 2, 3, 4	65	675	0.096	65	63	0.1	0.1	5.997	A
	Exit	1	1		24			24	24	0.0	0.0	0.000	A
2	Entry	1	1	3	99	1081	0.091	99	98	0.1	0.1	3.797	A
			2	1, 2, 4	944	1081	0.874	943	935	2.7	2.8	10.813	B
	Exit	1	1	(1, 2, 3, 4)	1050			1043	1034	4.0	4.7	15.101	C
3	Entry	1	1	4	101	823	0.123	101	100	0.1	0.2	5.003	A
			2	2	100	823	0.122	100	101	0.1	0.2	4.950	A
	Exit	1	1		200			200	200	0.0	0.0	0.000	A
4	Entry	1	1	1, 2	711	856	0.830	712	715	2.6	2.5	13.118	B
			2	3	102	856	0.119	101	102	0.1	0.1	4.911	A
		2	1	(1, 2, 3, 4)	807			813	817	3.1	2.4	12.665	B
	Exit	1	1		1067			1067	1056	0.0	0.0	0.000	A

**17:30 - 17:45**

Arm	Side	Lane level	Lane	Destination arms	Total Demand (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Average throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
1	Entry	1	1	1, 2, 3, 4	61	669	0.091	61	65	0.1	0.1	5.837	A
	Exit	1	1		24			24	24	0.0	0.0	0.000	A
2	Entry	1	1	3	101	1080	0.093	101	101	0.1	0.1	3.717	A
			2	1, 2, 4	935	1080	0.865	935	936	2.8	2.8	10.829	B
	Exit	1	1	(1, 2, 3, 4)	1035			1035	1036	4.7	3.7	14.020	B
3	Entry	1	1	4	102	828	0.124	102	100	0.2	0.1	4.973	A
			2	2	102	828	0.123	102	102	0.2	0.1	4.919	A
	Exit	1	1		206			206	202	0.0	0.0	0.000	A
4	Entry	1	1	1, 2	720	856	0.841	719	710	2.5	2.5	13.005	B
			2	3	105	856	0.122	105	101	0.1	0.1	4.914	A
		2	1	(1, 2, 3, 4)	825			824	812	2.4	3.1	13.645	B
	Exit	1	1		1058			1058	1059	0.0	0.0	0.000	A

**17:45 - 18:00**

Arm	Side	Lane level	Lane	Destination arms	Total Demand (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Average throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
1	Entry	1	1	1, 2, 3, 4	65	676	0.095	64	63	0.1	0.1	5.935	A
	Exit	1	1		23			23	24	0.0	0.0	0.000	A
2	Entry	1	1	3	99	1080	0.092	99	100	0.1	0.1	3.684	A
			2	1, 2, 4	937	1080	0.867	937	932	2.8	2.8	10.798	B
	Exit	1	1	(1, 2, 3, 4)	1033			1036	1032	3.7	4.1	14.120	B
3	Entry	1	1	4	99	826	0.120	99	101	0.1	0.2	4.885	A
			2	2	98	826	0.119	98	100	0.1	0.1	5.065	A
	Exit	1	1		200			200	200	0.0	0.0	0.000	A
4	Entry	1	1	1, 2	711	857	0.830	710	712	2.5	2.7	13.022	B
			2	3	102	857	0.118	101	101	0.1	0.2	4.873	A
		2	1	(1, 2, 3, 4)	810			813	813	3.1	2.8	13.298	B
	Exit	1	1		1060			1060	1055	0.0	0.0	0.000	A

# Proposed Roundabout Arrangement - 2022 Opening Year , PM

## Data Errors and Warnings

Severity	Area	Item	Description
Warning	Lane Simulation	A1 - Proposed Roundabout Arrangement [Lane Simulation]	This analysis set uses Lane Simulation mode. This is provided as an investigative tool and the user should apply judgement when interpreting the results.
Warning	Geometry	Arm 4 - Roundabout Geometry	Effective flare length is over 30m, which is outside the normal range. Treat capacities with increasing caution.

## Junction Network

### Junctions

Junction	Name	Junction type	Use circulating lanes	Arm order	Junction Delay (s)	Junction LOS
1	Holyhead Road/Site Access	Standard Roundabout		1, 2, 3, 4	30.47	D

### Junction Network Options

Driving side	Lighting
Left	Normal/unknown

## Traffic Demand

### Demand Set Details

ID	Scenario name	Time Period name	Traffic profile type	Start time (HH:mm)	Finish time (HH:mm)	Time period length (min)	Time segment length (min)	Run automatically
D2	2022 Opening Year	PM	FLAT	17:00	18:00	60	15	✓

Vehicle mix varies over turn	Vehicle mix varies over entry	Vehicle mix source	PCU Factor for a HV (PCU)
✓	✓	HV Percentages	2.00

### Demand overview (Traffic)

Arm	Linked arm	Profile type	Use O-D data	Average Demand (PCU/hr)	Scaling Factor (%)
1		FLAT	✓	115	100.000
2		FLAT	✓	1052	100.000
3		FLAT	✓	200	100.000
4		FLAT	✓	852	100.000

## Origin-Destination Data

### Demand (PCU/hr)

		To			
		1	2	3	4
From	1	0	43	0	72
	2	45	0	100	907
	3	0	100	0	100
	4	65	687	100	0

## Vehicle Mix

### Heavy Vehicle Percentages

	To				
	1	2	3	4	
From	1	0	0	0	0
	2	0	0	0	4
	3	0	0	0	0
	4	0	4	0	0

## Results

### Results Summary for whole modelled period

Arm	Max Delay (s)	Max Queue (PCU)	Max LOS	Average Demand (PCU/hr)	Total Junction Arrivals (PCU)
1	6.64	0.2	A	114	114
2	31.13	10.0	D	1052	1052
3	5.14	0.4	A	198	198
4	38.71	9.8	E	858	858

### Main Results for each time segment

#### 17:00 - 17:15

Arm	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Circulating flow (PCU/hr)	Throughput (PCU/hr)	Average throughput (PCU/hr)	Throughput (exit side) (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
1	115	29	881	115	119	113	0.0	0.2	6.163	A
2	1053	263	171	1046	1022	826	0.0	8.8	24.776	C
3	198	49	1020	197	200	196	0.0	0.3	4.970	A
4	864	216	146	848	819	1072	0.0	8.3	28.624	D

#### 17:15 - 17:30

Arm	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Circulating flow (PCU/hr)	Throughput (PCU/hr)	Average throughput (PCU/hr)	Throughput (exit side) (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
1	116	29	886	116	115	112	0.2	0.2	6.644	A
2	1059	265	171	1054	1046	831	8.8	10.0	31.126	D
3	194	49	1026	195	199	198	0.3	0.3	5.142	A
4	866	217	144	855	853	1077	8.3	9.8	38.710	E

#### 17:30 - 17:45

Arm	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Circulating flow (PCU/hr)	Throughput (PCU/hr)	Average throughput (PCU/hr)	Throughput (exit side) (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
1	115	29	874	116	114	110	0.2	0.2	6.392	A
2	1048	262	167	1046	1051	822	10.0	8.3	28.248	D
3	204	51	1020	203	200	194	0.3	0.4	5.012	A
4	838	210	145	839	856	1078	9.8	8.1	37.290	E

#### 17:45 - 18:00

Arm	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Circulating flow (PCU/hr)	Throughput (PCU/hr)	Average throughput (PCU/hr)	Throughput (exit side) (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
1	110	28	889	110	111	111	0.2	0.2	6.253	A
2	1046	261	169	1040	1042	831	8.3	8.7	28.007	D
3	198	49	1009	199	203	200	0.4	0.3	5.059	A
4	863	216	148	853	852	1060	8.1	8.5	34.918	D

## Lane Results

Lane Level notation: Lane Level 1 is always closest to the junction.

### Lanes: Main Results for each time segment

#### 17:00 - 17:15

Arm	Side	Lane level	Lane	Destination arms	Total Demand (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Average throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
1	Entry	1	1	1, 2, 3, 4	115	685	0.168	115	119	0.0	0.2	6.163	A
	Exit	1	1		113			113	107	0.0	0.0	0.000	A
2	Entry	1	1	3	97	1067	0.091	97	99	0.0	0.1	3.773	A
			2	1, 2, 4	950	1067	0.890	948	923	0.0	3.2	11.069	B
	Exit	1	1	(1, 2, 3, 4)	1053			1047	1035	0.0	5.6	14.380	B
3	Entry	1	1	4	100	806	0.123	99	100	0.0	0.1	4.987	A
			2	2	98	806	0.122	98	100	0.0	0.2	4.952	A
	Exit	1	1		196			196	194	0.0	0.0	0.000	A
4	Entry	1	1	1, 2	749	845	0.886	749	724	0.0	2.9	13.691	B
			2	3	100	845	0.118	99	95	0.0	0.2	5.007	A
	Exit	1	1	(1, 2, 3, 4)	864			848	831	0.0	5.3	15.882	C
			1	1		1072			1072	1052	0.0	0.0	0.000

#### 17:15 - 17:30

Arm	Side	Lane level	Lane	Destination arms	Total Demand (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Average throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
1	Entry	1	1	1, 2, 3, 4	116	683	0.170	116	115	0.2	0.2	6.644	A
	Exit	1	1		112			112	108	0.0	0.0	0.000	A
2	Entry	1	1	3	99	1067	0.093	98	99	0.1	0.2	3.771	A
			2	1, 2, 4	956	1067	0.895	955	947	3.2	3.1	11.400	B
	Exit	1	1	(1, 2, 3, 4)	1059			1054	1046	5.6	6.7	20.482	C
3	Entry	1	1	4	96	804	0.120	97	98	0.1	0.1	5.238	A
			2	2	98	804	0.122	98	101	0.2	0.2	5.049	A
	Exit	1	1		198			198	200	0.0	0.0	0.000	A
4	Entry	1	1	1, 2	756	846	0.893	755	752	2.9	3.1	14.504	B
			2	3	99	846	0.117	100	101	0.2	0.1	5.149	A
	Exit	1	1	(1, 2, 3, 4)	866			855	854	5.3	6.6	25.350	D
			1	1		1077			1077	1073	0.0	0.0	0.000

#### 17:30 - 17:45

Arm	Side	Lane level	Lane	Destination arms	Total Demand (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Average throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
1	Entry	1	1	1, 2, 3, 4	115	689	0.167	116	114	0.2	0.2	6.392	A
	Exit	1	1		110			110	112	0.0	0.0	0.000	A
2	Entry	1	1	3	97	1068	0.090	97	99	0.2	0.1	3.864	A
			2	1, 2, 4	948	1068	0.888	949	952	3.1	3.0	11.275	B
	Exit	1	1	(1, 2, 3, 4)	1048			1045	1050	6.7	5.2	17.699	C
3	Entry	1	1	4	103	806	0.128	102	100	0.1	0.2	4.960	A
			2	2	101	806	0.125	100	100	0.2	0.2	5.064	A
	Exit	1	1		194			194	201	0.0	0.0	0.000	A
4	Entry	1	1	1, 2	742	846	0.877	742	754	3.1	3.0	14.492	B
			2	3	97	846	0.115	97	102	0.1	0.1	5.000	A
	Exit	1	1	(1, 2, 3, 4)	838			839	856	6.6	5.0	23.965	C
			1	1		1078			1078	1077	0.0	0.0	0.000

17:45 - 18:00

Arm	Side	Lane level	Lane	Destination arms	Total Demand (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Average throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
1	Entry	1	1	1, 2, 3, 4	110	681	0.162	110	111	0.2	0.2	6.253	A
	Exit	1	1		111			111	111	0.0	0.0	0.000	A
2	Entry	1	1	3	99	1068	0.093	98	99	0.1	0.1	3.751	A
			2	1, 2, 4	942	1068	0.882	942	943	3.0	3.0	11.209	B
	Exit	1	1	(1, 2, 3, 4)	1046			1041	1042	5.2	5.6	17.611	C
			1		831			831	833	0.0	0.0	0.000	A
3	Entry	1	1	4	96	811	0.118	96	100	0.2	0.1	5.043	A
			2	2	102	811	0.126	103	103	0.2	0.1	5.074	A
	Exit	1	1		200			200	199	0.0	0.0	0.000	A
4	Entry	1	1	1, 2	751	845	0.889	751	752	3.0	3.0	14.406	B
			2	3	102	845	0.120	102	100	0.1	0.1	5.049	A
		2	1	(1, 2, 3, 4)	863			853	852	5.0	5.3	21.763	C
	Exit	1	1		1060			1060	1064	0.0	0.0	0.000	A

# Proposed Roundabout Arrangement - 2027 Future Year , PM

## Data Errors and Warnings

Severity	Area	Item	Description
Warning	Lane Simulation	A1 - Proposed Roundabout Arrangement [Lane Simulation]	This analysis set uses Lane Simulation mode. This is provided as an investigative tool and the user should apply judgement when interpreting the results.
Last Run	Lane Simulation	Arm 2 - Lane Simulation	Arm 2: Queue at end of modelled period is greater than 10 PCU. Delay is likely to have been underestimated.
Last Run	Lane Simulation	Arm 4 - Lane Simulation	Arm 4: Queue at end of modelled period is greater than 10 PCU. Delay is likely to have been underestimated.
Warning	Geometry	Arm 4 - Roundabout Geometry	Effective flare length is over 30m, which is outside the normal range. Treat capacities with increasing caution.

## Junction Network

### Junctions

Junction	Name	Junction type	Use circulating lanes	Arm order	Junction Delay (s)	Junction LOS
1	Holyhead Road/Site Access	Standard Roundabout		1, 2, 3, 4	48.57	E

### Junction Network Options

Driving side	Lighting
Left	Normal/unknown

## Traffic Demand

### Demand Set Details

ID	Scenario name	Time Period name	Traffic profile type	Start time (HH:mm)	Finish time (HH:mm)	Time period length (min)	Time segment length (min)	Run automatically
D3	2027 Future Year	PM	FLAT	17:00	18:00	60	15	✓

Vehicle mix varies over turn	Vehicle mix varies over entry	Vehicle mix source	PCU Factor for a HV (PCU)
✓	✓	HV Percentages	2.00

### Demand overview (Traffic)

Arm	Linked arm	Profile type	Use O-D data	Average Demand (PCU/hr)	Scaling Factor (%)
1		FLAT	✓	115	100.000
2		FLAT	✓	1104	100.000
3		FLAT	✓	200	100.000
4		FLAT	✓	892	100.000

## Origin-Destination Data

### Demand (PCU/hr)

		To			
		1	2	3	4
From	1	0	43	0	72
	2	45	0	100	959
	3	0	100	0	100
	4	65	727	100	0



## Vehicle Mix

### Heavy Vehicle Percentages

From	To			
	1	2	3	4
1	0	0	0	0
2	0	0	0	4
3	0	0	0	0
4	0	4	0	0

## Results

### Results Summary for whole modelled period

Arm	Max Delay (s)	Max Queue (PCU)	Max LOS	Average Demand (PCU/hr)	Total Junction Arrivals (PCU)
1	6.55	0.2	A	115	115
2	51.76	16.9	F	1096	1096
3	5.29	0.4	A	197	197
4	59.58	15.7	F	894	894

### Main Results for each time segment

#### 17:00 - 17:15

Arm	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Circulating flow (PCU/hr)	Throughput (PCU/hr)	Average throughput (PCU/hr)	Throughput (exit side) (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
1	114	29	919	114	115	107	0.0	0.1	6.103	A
2	1089	272	170	1091	1062	863	0.0	11.2	30.692	D
3	199	50	1065	198	201	196	0.0	0.4	5.159	A
4	896	224	144	883	853	1119	0.0	10.9	35.254	E

#### 17:15 - 17:30

Arm	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Circulating flow (PCU/hr)	Throughput (PCU/hr)	Average throughput (PCU/hr)	Throughput (exit side) (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
1	115	29	921	116	115	109	0.1	0.2	6.465	A
2	1095	274	172	1102	1089	864	11.2	13.9	44.263	E
3	199	50	1075	198	203	200	0.4	0.3	5.291	A
4	898	225	145	885	878	1128	10.9	14.8	53.555	F

#### 17:30 - 17:45

Arm	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Circulating flow (PCU/hr)	Throughput (PCU/hr)	Average throughput (PCU/hr)	Throughput (exit side) (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
1	115	29	923	115	115	104	0.2	0.2	6.549	A
2	1106	277	168	1090	1095	871	13.9	16.9	50.900	F
3	193	48	1063	193	201	195	0.3	0.3	5.232	A
4	887	222	142	885	889	1114	14.8	15.0	59.576	F

**17:45 - 18:00**

Arm	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Circulating flow (PCU/hr)	Throughput (PCU/hr)	Average throughput (PCU/hr)	Throughput (exit side) (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
1	115	29	921	115	114	110	0.2	0.2	6.466	A
2	1093	273	170	1103	1105	866	16.9	15.5	51.765	F
3	197	49	1077	197	196	196	0.3	0.3	5.227	A
4	895	224	143	888	886	1131	15.0	15.7	58.018	F

## Lane Results

Lane Level notation: Lane Level 1 is always closest to the junction.

### Lanes: Main Results for each time segment

**17:00 - 17:15**

Arm	Side	Lane level	Lane	Destination arms	Total Demand (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Average throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
1	Entry	1	1	1, 2, 3, 4	114	666	0.172	114	115	0.0	0.1	6.103	A
	Exit	1	1		107			107	106	0.0	0.0	0.000	A
2	Entry	1	1	3	97	1067	0.091	97	98	0.0	0.1	3.896	A
			2	1, 2, 4	992	1067	0.929	994	964	0.0	3.2	11.472	B
	Exit	1	1	(1, 2, 3, 4)	1089			1089	1075	0.0	7.9	19.879	C
			1	1		863			863	835	0.0	0.0	0.000
3	Entry	1	1	4	98	788	0.124	97	101	0.0	0.2	5.185	A
			2	2	101	788	0.129	101	99	0.0	0.2	5.133	A
	Exit	1	1		196			196	194	0.0	0.0	0.000	A
4	Entry	1	1	1, 2	784	846	0.927	784	756	0.0	3.2	14.259	B
			2	3	99	846	0.117	99	96	0.0	0.1	4.984	A
	Exit	1	1	(1, 2, 3, 4)	896			884	866	0.0	7.6	21.964	C
			1	1		1119			1119	1095	0.0	0.0	0.000

**17:15 - 17:30**

Arm	Side	Lane level	Lane	Destination arms	Total Demand (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Average throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
1	Entry	1	1	1, 2, 3, 4	115	665	0.174	116	115	0.1	0.2	6.465	A
	Exit	1	1		109			109	110	0.0	0.0	0.000	A
2	Entry	1	1	3	101	1066	0.095	101	99	0.1	0.1	3.732	A
			2	1, 2, 4	1001	1066	0.938	1001	990	3.2	3.4	12.110	B
	Exit	1	1	(1, 2, 3, 4)	1095			1102	1090	7.9	10.3	32.942	D
			1	1		864			864	859	0.0	0.0	0.000
3	Entry	1	1	4	100	784	0.128	100	102	0.2	0.1	5.351	A
			2	2	98	784	0.126	99	101	0.2	0.1	5.230	A
	Exit	1	1		200			200	196	0.0	0.0	0.000	A
4	Entry	1	1	1, 2	788	846	0.931	787	781	3.2	3.4	15.265	C
			2	3	97	846	0.115	98	97	0.1	0.1	5.108	A
	Exit	1	1	(1, 2, 3, 4)	898			885	879	7.6	11.3	39.471	E
			1	1		1128			1128	1119	0.0	0.0	0.000

## 17:30 - 17:45

Arm	Side	Lane level	Lane	Destination arms	Total Demand (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Average throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
1	Entry	1	1	1, 2, 3, 4	115	663	0.173	115	115	0.2	0.2	6.549	A
	Exit	1	1		104			104	110	0.0	0.0	0.000	A
2	Entry	1	1	3	99	1068	0.093	99	100	0.1	0.1	3.906	A
			2	1, 2, 4	995	1068	0.931	992	995	3.4	3.5	12.220	B
	Exit	1	1	(1, 2, 3, 4)	1106			1093	1095	10.3	13.3	39.437	E
			1		871			871	871	0.0	0.0	0.000	A
3	Entry	1	1	4	94	789	0.119	94	99	0.1	0.1	5.170	A
			2	2	99	789	0.125	99	102	0.1	0.1	5.293	A
	Exit	1	1		195			195	199	0.0	0.0	0.000	A
4	Entry	1	1	1, 2	788	847	0.931	789	790	3.4	3.2	15.342	C
			2	3	96	847	0.114	96	99	0.1	0.1	5.079	A
	Exit	1	1	(1, 2, 3, 4)	887			884	889	11.3	11.6	45.390	E
			1		1114			1114	1121	0.0	0.0	0.000	A

## 17:45 - 18:00

Arm	Side	Lane level	Lane	Destination arms	Total Demand (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Average throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
1	Entry	1	1	1, 2, 3, 4	115	665	0.174	115	114	0.2	0.2	6.466	A
	Exit	1	1		110			110	110	0.0	0.0	0.000	A
2	Entry	1	1	3	99	1067	0.092	99	98	0.1	0.1	3.846	A
			2	1, 2, 4	1003	1067	0.940	1004	1006	3.5	3.3	12.210	B
	Exit	1	1	(1, 2, 3, 4)	1093			1101	1104	13.3	12.1	40.444	E
			1		866			866	865	0.0	0.0	0.000	A
3	Entry	1	1	4	100	783	0.128	100	98	0.1	0.2	5.157	A
			2	2	97	783	0.124	97	98	0.1	0.2	5.296	A
	Exit	1	1		196			196	196	0.0	0.0	0.000	A
4	Entry	1	1	1, 2	789	846	0.933	790	789	3.2	3.3	15.228	C
			2	3	98	846	0.116	97	98	0.1	0.2	5.142	A
	Exit	1	1	(1, 2, 3, 4)	895			887	887	11.6	12.2	44.176	E
			1		1131			1131	1131	0.0	0.0	0.000	A

# Proposed Roundabout Arrangement - 2027 Sensitivity, PM

## Data Errors and Warnings

Severity	Area	Item	Description
Warning	Lane Simulation	A1 - Proposed Roundabout Arrangement [Lane Simulation]	This analysis set uses Lane Simulation mode. This is provided as an investigative tool and the user should apply judgement when interpreting the results.
Last Run	Lane Simulation	Arm 2 - Lane Simulation	Arm 2: Queue at end of modelled period is greater than 10 PCU. Delay is likely to have been underestimated.
Last Run	Lane Simulation	Arm 4 - Lane Simulation	Arm 4: Queue at end of modelled period is greater than 10 PCU. Delay is likely to have been underestimated.
Warning	Geometry	Arm 4 - Roundabout Geometry	Effective flare length is over 30m, which is outside the normal range. Treat capacities with increasing caution.

## Junction Network

### Junctions

Junction	Name	Junction type	Use circulating lanes	Arm order	Junction Delay (s)	Junction LOS
1	Holyhead Road/Site Access	Standard Roundabout		1, 2, 3, 4	55.80	F

### Junction Network Options

Driving side	Lighting
Left	Normal/unknown

## Traffic Demand

### Demand Set Details

ID	Scenario name	Time Period name	Traffic profile type	Start time (HH:mm)	Finish time (HH:mm)	Time period length (min)	Time segment length (min)	Run automatically
D4	2027 Sensitivity	PM	FLAT	17:00	18:00	60	15	✓

Vehicle mix varies over turn	Vehicle mix varies over entry	Vehicle mix source	PCU Factor for a HV (PCU)
✓	✓	HV Percentages	2.00

### Demand overview (Traffic)

Arm	Linked arm	Profile type	Use O-D data	Average Demand (PCU/hr)	Scaling Factor (%)
1		FLAT	✓	129	100.000
2		FLAT	✓	1112	100.000
3		FLAT	✓	200	100.000
4		FLAT	✓	905	100.000

## Origin-Destination Data

### Demand (PCU/hr)

		To			
		1	2	3	4
From	1	0	48	0	81
	2	53	0	100	959
	3	0	100	0	100
	4	78	727	100	0

## Vehicle Mix

### Heavy Vehicle Percentages

From	To			
	1	2	3	4
1	0	0	0	0
2	0	0	0	4
3	0	0	0	0
4	0	4	0	0

## Results

### Results Summary for whole modelled period

Arm	Max Delay (s)	Max Queue (PCU)	Max LOS	Average Demand (PCU/hr)	Total Junction Arrivals (PCU)
1	6.91	0.3	A	129	129
2	57.59	19.7	F	1114	1114
3	5.37	0.4	A	198	198
4	71.66	19.3	F	903	903

### Main Results for each time segment

#### 17:00 - 17:15

Arm	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Circulating flow (PCU/hr)	Throughput (PCU/hr)	Average throughput (PCU/hr)	Throughput (exit side) (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
1	129	32	909	128	133	133	0.0	0.2	6.488	A
2	1117	279	180	1096	1056	857	0.0	13.1	32.067	D
3	191	48	1080	190	199	197	0.0	0.4	5.207	A
4	912	228	145	897	853	1125	0.0	12.5	37.634	E

#### 17:15 - 17:30

Arm	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Circulating flow (PCU/hr)	Throughput (PCU/hr)	Average throughput (PCU/hr)	Throughput (exit side) (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
1	129	32	917	130	129	128	0.2	0.2	6.889	A
2	1112	278	181	1110	1101	866	13.1	15.9	49.180	E
3	203	51	1087	201	201	204	0.4	0.4	5.324	A
4	899	225	154	891	893	1134	12.5	16.2	59.777	F

#### 17:30 - 17:45

Arm	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Circulating flow (PCU/hr)	Throughput (PCU/hr)	Average throughput (PCU/hr)	Throughput (exit side) (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
1	131	33	915	130	128	131	0.2	0.3	6.905	A
2	1109	277	181	1103	1097	864	15.9	17.4	54.918	F
3	205	51	1086	206	206	198	0.4	0.3	5.369	A
4	911	228	153	894	899	1140	16.2	17.5	66.439	F

**17:45 - 18:00**

Arm	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Circulating flow (PCU/hr)	Throughput (PCU/hr)	Average throughput (PCU/hr)	Throughput (exit side) (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
1	128	32	906	128	129	128	0.3	0.3	6.741	A
2	1119	280	175	1102	1102	859	17.4	19.7	57.586	F
3	195	49	1077	195	202	200	0.3	0.3	5.285	A
4	891	223	148	886	890	1123	17.5	19.3	71.665	F

## Lane Results

Lane Level notation: Lane Level 1 is always closest to the junction.

### Lanes: Main Results for each time segment

**17:00 - 17:15**

Arm	Side	Lane level	Lane	Destination arms	Total Demand (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Average throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
1	Entry	1	1	1, 2, 3, 4	129	671	0.192	128	133	0.0	0.2	6.488	A
	Exit	1	1		133			133	126	0.0	0.0	0.000	A
2	Entry	1	1	3	98	1063	0.092	99	96	0.0	0.1	3.807	A
			2	1, 2, 4	998	1063	0.939	998	960	0.0	3.4	11.481	B
	Exit	1	1	(1, 2, 3, 4)	1117			1097	1070	0.0	9.7	21.228	C
			1	1		857			857	832	0.0	0.0	0.000
3	Entry	1	1	4	98	782	0.125	98	99	0.0	0.2	5.229	A
			2	2	93	782	0.119	92	100	0.0	0.2	5.185	A
	Exit	1	1		197			197	191	0.0	0.0	0.000	A
4	Entry	1	1	1, 2	800	846	0.946	799	758	0.0	3.5	14.513	B
			2	3	97	846	0.115	98	95	0.0	0.1	4.944	A
	Exit	1	1	(1, 2, 3, 4)	912			897	867	0.0	8.9	24.145	C
			1	1		1125			1125	1092	0.0	0.0	0.000

**17:15 - 17:30**

Arm	Side	Lane level	Lane	Destination arms	Total Demand (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Average throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
1	Entry	1	1	1, 2, 3, 4	129	667	0.193	130	129	0.2	0.2	6.889	A
	Exit	1	1		128			128	131	0.0	0.0	0.000	A
2	Entry	1	1	3	105	1063	0.098	103	100	0.1	0.2	3.863	A
			2	1, 2, 4	1007	1063	0.947	1007	1000	3.4	3.5	12.330	B
	Exit	1	1	(1, 2, 3, 4)	1112			1111	1102	9.7	12.1	37.631	E
			1	1		866			866	866	0.0	0.0	0.000
3	Entry	1	1	4	101	779	0.130	100	101	0.2	0.2	5.209	A
			2	2	102	779	0.130	100	100	0.2	0.2	5.439	A
	Exit	1	1		204			204	198	0.0	0.0	0.000	A
4	Entry	1	1	1, 2	790	843	0.937	790	795	3.5	3.5	15.545	C
			2	3	102	843	0.121	101	97	0.1	0.2	5.148	A
	Exit	1	1	(1, 2, 3, 4)	899			892	893	8.9	12.5	45.363	E
			1	1		1134			1134	1129	0.0	0.0	0.000

## 17:30 - 17:45

Arm	Side	Lane level	Lane	Destination arms	Total Demand (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Average throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
1	Entry	1	1	1, 2, 3, 4	131	668	0.196	130	128	0.2	0.3	6.905	A
	Exit	1	1		131			131	129	0.0	0.0	0.000	A
2	Entry	1	1	3	100	1063	0.094	99	99	0.2	0.1	3.974	A
			2	1, 2, 4	1004	1063	0.944	1004	997	3.5	3.3	12.152	B
	Exit	1	1	(1, 2, 3, 4)	1109			1104	1096	12.1	13.9	43.539	E
			1		864			864	873	0.0	0.0	0.000	A
3	Entry	1	1	4	105	779	0.135	105	103	0.2	0.1	5.367	A
			2	2	100	779	0.129	101	103	0.2	0.1	5.372	A
	Exit	1	1		198			198	198	0.0	0.0	0.000	A
4	Entry	1	1	1, 2	796	843	0.944	795	800	3.5	3.5	15.736	C
			2	3	98	843	0.117	98	99	0.2	0.1	5.113	A
		2	1	(1, 2, 3, 4)	911			894	898	12.5	14.0	51.898	F
	Exit	1	1		1140			1140	1130	0.0	0.0	0.000	A

## 17:45 - 18:00

Arm	Side	Lane level	Lane	Destination arms	Total Demand (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Average throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
1	Entry	1	1	1, 2, 3, 4	128	672	0.191	128	129	0.3	0.3	6.741	A
	Exit	1	1		128			128	130	0.0	0.0	0.000	A
2	Entry	1	1	3	104	1065	0.097	104	100	0.1	0.1	3.804	A
			2	1, 2, 4	999	1065	0.938	998	1002	3.3	3.5	12.436	B
	Exit	1	1	(1, 2, 3, 4)	1119			1103	1103	13.9	16.1	46.123	E
			1		859			859	863	0.0	0.0	0.000	A
3	Entry	1	1	4	99	783	0.126	99	104	0.1	0.1	5.203	A
			2	2	96	783	0.123	96	98	0.1	0.2	5.373	A
	Exit	1	1		200			200	197	0.0	0.0	0.000	A
4	Entry	1	1	1, 2	790	845	0.935	790	794	3.5	3.5	15.874	C
			2	3	97	845	0.115	96	96	0.1	0.1	4.895	A
		2	1	(1, 2, 3, 4)	891			887	890	14.0	15.6	57.247	F
	Exit	1	1		1123			1123	1133	0.0	0.0	0.000	A