

Hall Farm

Introduction

The Thames Valley Science Park has been the subject of a number of planning applications and consented developments. The Phase 1 development was consented in 2016 and was completed in 2018.

Consented Schemes

The supporting TA for the planning application utilised the trip rates shown in the table below for Research and Development, reproduced from the supporting documentation.

Table 1 Co n	sented Schemes.	Transport	Assessment	Trip	Rate
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	AM Peak Hour (0800-0900)			PM Peak Hour (1700-1800)		
	In	Out	Two Way	In	Out	Two Way
Predicted TVSP Vehicular Trip Rates (vehs per 100 sqm GFA)	1.22	0.08	1.30	0.09	1.01	1.10
Predicted TVSP Vehicular trips (75,690 sqm)	923	61	984	68	764	833

These rates were further utilised to support the Phase 2 application of the Science Park, for which WBC have granted outline consent.

In November/December 2018 (26/11/2018 to 02/12/2018), the TV Science Park was the subject of a set of traffic surveys over 5 days, which provided the trip rates set out below. These surveys were for Travel Plan monitoring purposes and were also accepted as part of the consented Shinfield Studios application.

Table 2 Consented Schemes. Trip Rates Derived from Survey Data

	AM Peak Hour (0800-0900)			PM Peak Hour (1700-1800)		
	In	Out	Two Way	In	Out	Two Way
Surveyed TVSP Vehicular Trip Rates (vehs per 100 sqm GFA)	1.07	0.08	1.15	0.06	0.87	0.93

As can be seen the actual surveyed results are lower than those which were previously used as a theoretical exercise in the previous forecast modelling.

The data suggests that the previously agreed R&D trip rates are slightly higher than those observed on site. Therefore there is scope to review the trip rates to be used in the latest modelling.

Cine Village Proposals

In addition to the science park consents, the original R&D rates have been utilised by WBC to determine the likely impact of the temporary and new Cine Village Scheme, in that the original rates



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(1.3 per 100sqm in the AM Peak Hour) were used as comparison to the new rates based on surveys at existing film studios, as shown in the table below.

Table 3Cine Village Trip Rates

Surveyed Vehicular Trip Rates	ļ	AM Peak Hou	r	PM Peak Hour (1700-1800)			
(Per 100sqm)	In	Out	Two Way	In	(1700-1800) Out	Two Way	
Shepperton Studios	0.25	0.08	0.33	0.08	0.32	0.40	
Pinewood Studios	0.45	0.09	0.54	0.09	0.37	0.46	

The Cine Village planning applications used the higher Pinewood Studios rates to define the trips generated by the film studio operation. These were compared to those previous used for the Science Park and it was shown that the new Cine Village would generate less trips than the consented R&D Science Park.

TRICS Review

WBC have undertaken a brief TRICS review using Business Parks as the defining land use, for sites surveyed between 2014 and 2019. This took into account 18 sites outside of London. This land use would include traditional B1 office as well as some R&D, as such the trip rates would be expected to be higher. Indeed the B1 rate in WSTM4 is 1.7 per 100sqm for the AM Peak Hour.

Table 4	B1	Office	and	R&D	TRICS	Trip	Rates
---------	-----------	--------	-----	-----	-------	------	-------

	AM Peak Hour (8-9)			PM Peak Hour (17-18)		
	In	Out	Two Way	In	Out	Two Way
B1 and	1.24	0.15	1.39	0.103	0.900	1.003
R&D Rates						

The range of sites captured in the WBC sift of sites includes two sites described as Science Park and Tech Park. If only these two sites are considered, the trip rates drop from those shown above to values which lie between the actual and forecast rates for TVSP, as per the table below.

The TRICS outputs are appended to this note.

Table 5 R&D TRICS Trip Rates

	AM Peak Hour (8-9)			PM Peak Hour (17-18)		
	In	Out	Two Way	In	Out	Two Way
R&D Rates	1.138	0.118	1.256	0.054	0.803	0.857

Recommendation

The data suggests that a development with a higher level of traditional B1 content would support a higher trip rate than R&D or a Science/Tech Park. This is verified in that WBC have to date used the



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lower R&D rates for Phase 1 and 2 of the TVSP and gone onto use the same data to validate the Cine Valley proposals.

Given that TVSP has been surveyed, then it offers the most realistic trip rates for the location and nature of the land use. To build in a level of robustness the surveyed data (presented in Table 2) has been averaged with the two TRICS database Science & Tech Park sites (trip rates data presented in Table 5) to establish an appropriate trip rate for the Hall Farm employment site, which is summarised in Table 6.

It is acknowledged that averaging Table 2 results with Table 5 results may not be mathematically correct, and the better approach would be to use individual site trip rates to derive the average. However, due to weighting applied within TRICS it is not possible to fully replicate the average trip rates produced by TRICS (Table 5) from individual site data and therefore a reliance is usually placed on TRICS to produce site averages.

Considering Table 5 trip rates (the average across R&D sites produced by TRICS) and Table 2 (November 2018 survey) trip rates are relatively similar, the impact of the method adopted will be negligible.

Table 6 Proposed Hall Farm R&D Trip Rates

	AM Peak Hour (8-9)			PM Peak Hour (17-18)			
	In	Out	Two Way	Out	In	Two Way	
Revised	1.104	0.099	1.203	0.057	0.837	0.894	
R&D Rates							

Appendix A R&D TRICS Trip Rates. TRICS Outputs

TRICS 7.9.	1 300322 B20.41	Database right of TF	RICS Consortium	Limited, 2022. All rights reserved	Thursday 26/05/22
Deter Deett	A	nahana Daidan Hawar	Deceller		Page 1
Peter Brett	Associates Cave	rsnam Bridge House	Reading		Licence No: 706701
				Calculation Reference: A	AUDIT-706701-220526-0557
TRI	P RATE CALCULA	ATION SELECTION PA	ARAMETERS:		
Lan	d Use : 02 - El	MPLOYMENT			
Cat	egory : B - BU	SINESS PARK			
ТО	TAL VEHICLES	>			
<u>Sel</u>	EAST ANGUA	<u>areas:</u>			
04	CA CAMBRIE	OGESHIRE		1 davs	
06	WEST MIDLAN	IDS			
	WK WARWIC	KSHIRE		1 days	
Thi	is section displays t	the number of survey c	days per TRICS®	sub-region in the selected set	
Pri	mary Filtering se	lection:			
Thi. are	is data displays the included in the trip	chosen trip rate paran o rate calculation.	neter and its sei	ected range. Only sites that fall within	the parameter range
Par	ameter	Gross floor area			
Acti	ual Range:	56520 to 14268	7 (units: sqm)		
Rar	nge Selected by Use	er: 975 to 142687 (units: sqm)		
Parl	king Spaces Range	: All Surveys Inclu	ided		
Pub	lic Transport Provis	sion:			
Sele	ection by:		In	clude all surveys	
Dat	e Range: 0	1/01/14 to 25/09/19			
Thi. inci	is data displays the luded in the trip rat	range of survey dates te calculation.	selected. Only s	surveys that were conducted within this	s date range are
Cal					
<u>Sen</u> Mor	<u>ecied survey days:</u> dnesday	,	1 days		
Frid	lay		1 days		
Thi	's data displays the	number of selected su	rveys by day of	the week.	
Sel	ected survey types	<u>;</u>	0.4		
Mar	IUAL COUNT		2 days		
DIFE			u uays		
Thi. up	's data displays the to the overall num	number of manual cla ber of surveys in the s	essified surveys a elected set. Man	and the number of unclassified ATC sur rual surveys are undertaken using staff,	veys, the total adding whilst ATC surveys
are	undertaking using	machines.			-
Sel	lected Locations:				
Edg	je of Town		2		
Thi. con Noi	s data displays the psist of Free Standi t Known.	number of surveys pe ing, Edge of Town, Sub	er main location o Durban Area, Neig	category within the selected set. The m ghbourhood Centre, Edge of Town Cent	nain location categories tre, Town Centre and
Sel	ected Location Sub	Categories:			
Out	of Town		1		
No	Sub Category		1		
Thi. cori Out	's data displays the nsist of Commercial t of Town, High Str	number of surveys pe I Zone, Industrial Zone eet and No Sub Catego	or location sub-ca o, Development 2 ory.	ategory within the selected set. The loc Zone, Residential Zone, Retail Zone, Bu	ation sub-categories vilt-Up Zone, Village,

Reading

LIST OF SITES relevant to selection parameters

Peter Brett Associates

Caversham Bridge House

1	CA-02-B-03 MILTON ROAD CAMBRIDGE	SCIENCE PARK		CAMBRI DGESHI RE
2	Edge of Town No Sub Category Total Gross floor are <i>Survey date:</i> WK-02-B-01 GALLOWS HILL WARWICK	a: <i>FRIDAY</i> BUSI NESS/TECH.	142687 sqm <i>06/10/17</i> PARK	<i>Survey Type: MANUAL</i> WARWICKSHIRE
	Edge of Town Out of Town Total Gross floor are <i>Survey date:</i>	a: WEDNESDAY	56520 sqm <i>25/09/19</i>	Survey Type: MANUAL

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

MANUALLY DESELECTED SITES

Site Ref	Reason for Deselection
CA-02-B-02	Deselecting to filter for Science/Tech parks
CH-02-B-01	Deselecting to filter for Science/Tech parks
DV-02-B-01	Deselecting to filter for Science/Tech parks
EX-02-B-01	Deselecting to filter for Science/Tech parks
EX-02-B-02	Deselecting to filter for Science/Tech parks
GM-02-B-04	Deselecting to filter for Science/Tech parks
LE-02-B-01	Deselecting to filter for Science/Tech parks
LN-02-B-02	Deselecting to filter for Science/Tech parks
ST-02-B-04	Deselecting to filter for Science/Tech parks
TW-02-B-05	Deselecting to filter for Science/Tech parks
TW-02-B-06	Deselecting to filter for Science/Tech parks
WG-02-B-02	Deselecting to filter for Science/Tech parks
WM-02-B-03	Deselecting to filter for Science/Tech parks
WO-02-B-02	Deselecting to filter for Science/Tech parks
WY-02-B-02	Deselecting to filter for Science/Tech parks
WY-02-B-03	Deselecting to filter for Science/Tech parks

Trip

Rate

No.

Days

Peter Brett Associates Caversham Bridge House Reading

No.

Days

Time Range

00:00 - 00:30 00:30 - 01:00 01:00 - 01:30 02:00 - 02:30 02:30 - 03:30 03:30 - 03:30 03:30 - 04:00 04:00 - 04:30 04:30 - 05:00 05:00 - 05:30 05:30 - 06:00

TRIP RATE for Land Use 02 - EMPLOYMENT/B - BUSINESS PARK TOTAL VEHICLES Calculation factor: 100 sqm BOLD print indicates peak (busiest) period

ARRIVALS

Ave.

GFA

06:00 - 06:30 06:30 - 07:00 07:00 - 07:30 2 99604 0.308 2 99604 0.032 2 99604 0.340 0.592 07:30 - 08:00 2 99604 0.529 2 99604 0.063 2 99604 99604 99604 99604 08:00 - 08:30 2 0.651 2 0.066 2 0.717 08:30 - 09:00 99604 2 99604 2 99604 0.539 2 0.487 0.052 09:00 - 09:30 2 99604 0.259 2 99604 0.041 2 99604 0.300 09:30 - 10:00 99604 2 2 0.165 99604 0.037 2 99604 0.202 10:00 - 10:30 2 2 99604 0.061 2 99604 0.030 99604 0.091 10:30 - 11:00 2 99604 0.050 2 99604 0.028 2 99604 0.078 99604 99604 11:00 - 11:30 2 0.044 2 99604 2 0.079 0.035 0.050 11:30 - 12:00 2 99604 2 99604 0.051 2 99604 0.101 12:00 - 12:30 2 2 2 99604 99604 99604 0.163 0.065 0.098 12:30 - 13:00 2 99604 0.081 2 99604 0.093 2 99604 0.174 13:00 - 13:30 2 99604 0.097 2 99604 0.072 2 99604 0.169 13:30 - 14:00 2 99604 0.068 2 99604 0.050 2 99604 0.118 14:00 - 14:30 2 99604 2 99604 2 99604 0.114 0.053 0.061 14:30 - 15:00 2 99604 2 99604 2 99604 0.117 0.027 0.090 15:00 - 15:30 2 2 99604 0.028 2 99604 0.171 99604 0.199 15:30 - 16:00 2 99604 0.035 2 99604 0.212 2 99604 0.247 2 99604 0.297 2 99604 0.324 16:00 - 16:30 0.027 2 99604 0.031 2 16:30 - 17:00 2 99604 2 99604 0.299 99604 0.330 17:00 - 17:30 2 99604 2 99<u>604</u> 2 0.027 0.410 99604 0.437 17:30 - 18:00 2 99604 0.027 2 99604 0.393 2 99604 0.420 18:00 - 18:30 2 99604 0.019 2 99604 0.343 2 99604 0.362 99604 0.018 18:30 - 19:00 2 2 99604 0.256 2 99604 0.274 19:00 - 19:30 19:30 - 20:00 20:00 - 20:30 20:30 - 21:00 21:00 - 21:30 21:30 - 22:00 22:00 - 22:30 22:30 - 23:00 23:00 - 23:30 23:30 - 24:00 3.207 **Total Rates:** 3.280 6.487 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

DEPARTURES

Ave.

GFA

Trip

Rate

No.

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

TOTALS

Ave.

GFA

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Parameter summary

Trip rate parameter range selected:	56520 - 142687 (units: sqm)
Survey date date range:	01/01/14 - 25/09/19
Number of weekdays (Monday-Friday):	2
Number of Saturdays:	0
Number of Sundays:	0
Surveys automatically removed from selection:	1
Surveys manually removed from selection:	16

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

TRIP RATE for Land Use 02 - EMPLOYMENT/B - BUSINESS PARK TAXIS Calculation factor: 100 sqm BOLD print indicates peak (busiest) period

	ARRIVALS		[DEPARTURES		TOTALS			
	No.	Ave.	Trip	No.	Ave.	Trip	No.	Ave.	Trip
Time Range	Days	GFA	Rate	Days	GFA	Rate	Days	GFA	Rate
00:00 - 00:30									
00:30 - 01:00									
01:00 - 01:30									
01:30 - 02:00									
02:00 - 02:30									
02:30 - 03:00									
03:00 - 03:30									
03:30 - 04:00									
04:00 - 04:30									
04:30 - 05:00									
05:00 - 05:30									
05:30 - 06:00									
06:00 - 06:30									
06:30 - 07:00									
07:00 - 07:30	2	99604	0.001	2	99604	0.001	2	99604	0.002
07:30 - 08:00	2	99604	0.004	2	99604	0.004	2	99604	0.008
08:00 - 08:30	2	99604	0.005	2	99604	0.003	2	99604	0.008
08:30 - 09:00	2	99604	0.007	2	99604	0.006	2	99604	0.013
09:00 - 09:30	2	99604	0.008	2	99604	0.009	2	99604	0.017
09:30 - 10:00	2	99604	0.006	2	99604	0.005	2	99604	0.011
10:00 - 10:30	2	99604	0.002	2	99604	0.005	2	99604	0.007
10:30 - 11:00	2	99604	0.003	2	99604	0.002	2	99604	0.005
11:00 - 11:30	2	99604	0.002	2	99604	0.002	2	99604	0.004
11:30 - 12:00	2	99604	0.001	2	99604	0.001	2	99604	0.002
12:00 - 12:30	2	99604	0.002	2	99604	0.002	2	99604	0.004
12:30 - 13:00	2	99604	0.002	2	99604	0.002	2	99604	0.004
13:00 - 13:30	2	99604	0.001	2	99604	0.002	2	99604	0.003
13:30 - 14:00	2	99604	0.001	2	99604	0.000	2	99604	0.001
14:00 - 14:30	2	99604	0.002	2	99604	0.001	2	99604	0.003
14:30 - 15:00	2	99604	0.001	2	99604	0.001	2	99604	0.002
15:00 - 15:30	2	99604	0.001	2	99604	0.001	2	99604	0.002
15:30 - 16:00	2	99604	0.001	2	99604	0.002	2	99604	0.003
16:00 - 16:30	2	99604	0.002	2	99604	0.002	2	99604	0.004
16:30 - 17:00	2	99604	0.001	2	99604	0.001	2	99604	0.002
17:00 - 17:30	2	99604	0.002	2	99604	0.001	2	99604	0.003
17:30 - 18:00	2	99604	0.001	2	99604	0.002	2	99604	0.003
18:00 - 18:30	2	99604	0.003	2	99604	0.002	2	99604	0.005
18:30 - 19:00	2	99604	0.003	2	99604	0.002	2	99604	0.005
19:00 - 19:30									
19:30 - 20:00									
20:00 - 20:30									
20:30 - 21:00									
21:00 - 21:30									
21:30 - 22:00									
22:00 - 22:30									
22:30 - 23:00									
23:00 - 23:30									
23:30 - 24:00									
Total Rates:			0.062			0.059			0.121

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.

TRIP RATE for Land Use 02 - EMPLOYMENT/B - BUSINESS PARK OGVS Calculation factor: 100 sqm BOLD print indicates peak (busiest) period

	ARRIVALS		[DEPARTURES		TOTALS			
	No.	Ave.	Trip	No.	Ave.	Trip	No.	Ave.	Trip
Time Range	Days	GFA	Rate	Days	GFA	Rate	Days	GFA	Rate
00:00 - 00:30							-		
00:30 - 01:00									
01:00 - 01:30									
01:30 - 02:00									
02:00 - 02:30									
02:30 - 03:00									
03:00 - 03:30									
03:30 - 04:00									
04:00 - 04:30									
04:30 - 05:00									
05:00 - 05:30									
05:30 - 06:00									
06:00 - 06:30									
06:30 - 07:00									
07:00 - 07:30	2	99604	0.002	2	99604	0.002	2	99604	0.004
07:30 - 08:00	2	99604	0.004	2	99604	0.004	2	99604	0.008
08:00 - 08:30	2	99604	0.000	2	99604	0.001	2	99604	0.001
08:30 - 09:00	2	99604	0.001	2	99604	0.000	2	99604	0.001
09:00 - 09:30	2	99604	0.001	2	99604	0.001	2	99604	0.002
09.30 - 10.00	2	99604	0.001	2	99604	0,000	2	99604	0.001
10:00 - 10:30	2	99604	0.001	2	99604	0.001	2	99604	0.002
10:30 - 11:00	2	99604	0.001	2	99604	0.001	2	99604	0.002
11.00 - 11.30	2	99604	0.002	2	99604	0.001	2	99604	0.003
11:30 - 12:00	2	99604	0.000	2	99604	0.000	2	99604	0.000
12:00 - 12:30	2	99604	0.000	2	99604	0.000	2	99604	0.000
12:30 - 13:00	2	99604	0.001	2	99604	0.001	2	99604	0.002
13:00 - 13:30	2	99604	0.001	2	99604	0.001	2	99604	0.002
13:30 - 14:00	2	99604	0.000	2	99604	0.001	2	99604	0.001
14.00 - 14.30	2	99604	0.001	2	99604	0,000	2	99604	0.001
14:30 - 15:00	2	99604	0.001	2	99604	0.000	2	99604	0.001
15:00 - 15:30	2	99604	0.001	2	99604	0.001	2	99604	0.002
15:30 - 16:00	2	99604	0,000	2	99604	0,000	2	99604	0.000
16:00 - 16:30	2	99604	0.001	2	99604	0.000	2	99604	0.001
16:30 - 17:00	2	99604	0.000	2	99604	0.000	2	99604	0.000
17:00 - 17:30	2	99604	0,000	2	99604	0,000	2	99604	0,000
17:30 - 18:00	2	99604	0.000	2	99604	0.001	2	99604	0.001
18:00 - 18:30	2	99604	0.000	2	99604	0.001	2	99604	0.001
18:30 - 19:00	2	99604	0,000	2	99604	0.001	2	99604	0.001
19:00 - 19:30	2	77001	0.000	£	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	0.001	2	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	0.001
19:30 - 20:00									
20:00 - 20:30									
20:30 - 21:00									
21:00 - 21:30									
21:30 - 22:00									
22:00 - 22:30									
22:30 - 23:00									
23:00 - 23:30									
23:30 - 24:00									
Total Rates:			0.019			0.018			0.037

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.

TRIP RATE for Land Use 02 - EMPLOYMENT/B - BUSINESS PARK

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

	ARRIVALS		[DEPARTURES		TOTALS			
	No.	Ave.	Trip	No.	Ave.	Trip	No.	Ave.	Trip
Time Range	Days	GFA	Rate	Days	GFA	Rate	Days	GFA	Rate
00:00 - 00:30				,			,		
00:30 - 01:00									
01:00 - 01:30									
01:30 - 02:00									
02:00 - 02:30									
02:30 - 03:00									
03:00 - 03:30									
03:30 - 04:00									
04:00 - 04:30									
04:30 - 05:00									
05:00 - 05:30									
05:30 - 06:00									
06:00 - 06:30									
06:30 - 07:00									
07:00 - 07:30	2	99604	0.001	2	99604	0.001	2	99604	0.002
07:30 - 08:00	2	99604	0.002	2	99604	0.002	2	99604	0.004
08:00 - 08:30	2	99604	0.003	2	99604	0.003	2	99604	0.006
08:30 - 09:00	2	99604	0.001	2	99604	0.001	2	99604	0.002
09:00 - 09:30	2	99604	0.002	2	99604	0.002	2	99604	0.004
09:30 - 10:00	2	99604	0.002	2	99604	0.001	2	99604	0.003
10:00 - 10:30	2	99604	0.002	2	99604	0.002	2	99604	0.004
10:30 - 11:00	2	99604	0.001	2	99604	0.001	2	99604	0.002
11:00 - 11:30	2	99604	0.002	2	99604	0.001	2	99604	0.003
11:30 - 12:00	2	99604	0.001	2	99604	0.002	2	99604	0.003
12:00 - 12:30	2	99604	0.001	2	99604	0.001	2	99604	0.002
12:30 - 13:00	2	99604	0.001	2	99604	0.001	2	99604	0.002
13:00 - 13:30	2	99604	0.001	2	99604	0.001	2	99604	0.002
13:30 - 14:00	2	99604	0.001	2	99604	0.001	2	99604	0.002
14:00 - 14:30	2	99604	0.001	2	99604	0.001	2	99604	0.002
14:30 - 15:00	2	99604	0.001	2	99604	0.001	2	99604	0.002
15:00 - 15:30	2	99604	0.001	2	99604	0.001	2	99604	0.002
15:30 - 16:00	2	99604	0.002	2	99604	0.001	2	99604	0.003
16:00 - 16:30	2	99604	0.001	2	99604	0.002	2	99604	0.003
16:30 - 17:00	2	99604	0.003	2	99604	0.002	2	99604	0.005
17:00 - 17:30	2	99604	0.002	2	99604	0.002	2	99604	0.004
17:30 - 18:00	2	99604	0.001	2	99604	0.002	2	99604	0.003
18:00 - 18:30	2	99604	0.001	2	99604	0.001	2	99604	0.002
18:30 - 19:00	2	99604	0.001	2	99604	0.002	2	99604	0.003
19:00 - 19:30									
19:30 - 20:00									
20:00 - 20:30									
20:30 - 21:00									
21:00 - 21:30									
21:30 - 22:00									
22:00 - 22:30									
22:30 - 23:00									
23:00 - 23:30									
23:30 - 24:00									
Total Rates:			0.035		I	0.035			0.070

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.

> TRIP RATE for Land Use 02 - EMPLOYMENT/B - BUSINESS PARK **CYCLISTS** Calculation factor: 100 sqm BOLD print indicates peak (busiest) period

> > ARRIVALS

	NO.	Ave.	inp j	INO.	Ave.	inp j	INO.	Ave.	пр
Time Range	Days	GFA	Rate	Days	GFA	Rate	Days	GFA	Rate
00:00 - 00:30				_					
00:30 - 01:00									
01:00 - 01:30									
01:30 - 02:00									
02:00 - 02:30									
02:30 - 03:00									
03:00 - 03:30									
03:30 - 04:00									
04:00 - 04:30									
04:30 - 05:00									
05:00 - 05:30									
05:30 - 06:00									
06:00 - 06:30									
06:30 - 07:00									
07:00 - 07:30	2	99604	0.020	2	99604	0.003	2	99604	0.023
07:30 - 08:00	2	99604	0.020	2	99604	0.003	2	99604	0.023
07:00 - 08:00	2	99604	0.047	2	99604	0.007	2	99604	0.034
08:30 09:00	2	99604	0.072	2	99604	0.010	2	99604	0.002
00:00 09:00	2	99604	0.070	2	99604	0.007	2	99604	0.003
09:00 - 09:30	2	99004	0.030	2	99004	0.000	2	99004	0.004
10:00 10:20	2	99004	0.043	2	99004	0.010	2	99004	0.000
10:00 - 10:30	2	99604	0.020	2	99604	0.010	2	99004	0.030
11.00 11.20	2	99004	0.022	2	99604	0.006	2	99004	0.030
11:00 - 11:30	2	99604	0.011	2	99604	0.000	2	99604	0.017
11:30 - 12:00	2	99604	0.012	2	99604	0.009	2	99604	0.021
12:00 - 12:30	2	99604	0.015	2	99604	0.015	2	99604	0.030
12:30 - 13:00	2	99604	0.012	2	99604	0.015	2	99604	0.027
13:00 - 13:30	2	99604	0.018	2	99604	0.017	2	99604	0.035
13:30 - 14:00	2	99604	0.014	2	99604	0.011	2	99604	0.025
14:00 - 14:30	2	99604	0.009	2	99604	0.009	2	99604	0.018
14:30 - 15:00	2	99604	0.008	2	99604	0.013	2	99604	0.021
15:00 - 15:30	2	99604	0.015	2	99604	0.024	2	99604	0.039
15:30 - 16:00	2	99604	0.010	2	99604	0.017	2	99604	0.027
16:00 - 16:30	2	99604	0.011	2	99604	0.035	2	99604	0.046
16:30 - 17:00	2	99604	0.013	2	99604	0.050	2	99604	0.063
17:00 - 17:30	2	99604	0.013	2	99604	0.067	2	99604	0.080
17:30 - 18:00	2	99604	0.010	2	99604	0.056	2	99604	0.066
18:00 - 18:30	2	99604	0.013	2	99604	0.047	2	99604	0.060
18:30 - 19:00	2	99604	0.007	2	99604	0.031	2	99604	0.038
19:00 - 19:30									
19:30 - 20:00									
20:00 - 20:30									
20:30 - 21:00									
21:00 - 21:30									
21:30 - 22:00									
22:00 - 22:30									
22:30 - 23:00									
23:00 - 23:30									
23:30 - 24:00									
Total Rates:			0.547			0.485			1.032
This section above the ta plus departs	o displays the able). It is sp ures). Within	trip rate resu lit by three m each of these	ilts based on nain columns nain colum	the selected , representin , representing	l set of surve og arrivals tri sub-column	eys and the so ips, departure is These disp	elected count es trips, and to lay the number	t type (showi total trips (ai ber of survey	n just rrivals : davs

DEPARTURES

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.

Licence No: 706701

TOTALS

TRIP RATE for Land Use 02 - EMPLOYMENT/B - BUSINESS PARK CARS Calculation factor: 100 sqm BOLD print indicates peak (busiest) period

	ARRIVALS		[DEPARTURES		TOTALS			
	No.	Ave.	Trip	No.	Ave.	Trip	No.	Ave.	Trip
Time Range	Days	GFA	Rate	Days	GFA	Rate	Days	GFA	Rate
00:00 - 00:30									
00:30 - 01:00									
01:00 - 01:30									
01:30 - 02:00									
02:00 - 02:30									
02:30 - 03:00									
03:00 - 03:30									
03:30 - 04:00									
04:00 - 04:30									
04:30 - 05:00									
05:00 - 05:30									
05:30 - 06:00									
06:00 - 06:30									
06:30 - 07:00									
07:00 - 07:30	2	99604	0.295	2	99604	0.024	2	99604	0.319
07:30 - 08:00	2	99604	0.507	2	99604	0.049	2	99604	0.556
08:00 - 08:30	2	99604	0.631	2	99604	0.054	2	99604	0.685
08.30 - 09.00	2	99604	0 471	2	99604	0.042	2	99604	0.513
00.00 - 09.30	2	99604	0.47	2	99604	0.042	2	99604	0.313
09:30 - 10:00	2	99604	0.242	2	99604	0.020	2	99604	0.270
10:00 - 10:30	2	99604	0.131	2	99604	0.020	2	99604	0.177
10:30 - 11:00	2	99604	0.040	2	99604	0.010	2	99604	0.000
11:00 11:30	2	99604	0.040	2	99604	0.020	2	99604	0.000
11:30 12:00	2	99604	0.032	2	99604	0.020	2	99604	0.035
12:00 12:30	2	99004	0.045	2	99004	0.042	2	99604	0.003
12:00 - 12:00	2	99004	0.030	2	99004	0.092	2	99004	0.140
12.30 - 13.00	2	99004	0.071	2	99004	0.084	2	99004	0.155
13:30 14:00	2	99004	0.000	2	99004	0.004	2	99604	0.132
13.30 - 14.00	2	99004	0.003	2	99004	0.044	2	99004	0.107
14.00 - 14.30	2	99004	0.040	<u> </u>	99004	0.030	2	99004	0.102
15:00 15:20	2	99004	0.019	2	99004	0.080	2	99004	0.099
15:20 16:00	2	99004	0.022	2	99004	0.130	2	99004	0.100
16:00 16:20	2	99004	0.028	2	99004	0.200	2	99004	0.234
16.20 17.00	2	99004	0.021	2	99004	0.288	2	99004	0.309
17.00 17.20	2	99004	0.025	2	99004	0.289	2	99004	0.314
17.00 - 17.30	2	99004	0.021	2	99004	0.400	2	99004	0.421
19.00 19.20	2	99004	0.022	2	99004	0.380	2	99004	0.402
10.00 - 10.30	2	99004	0.010	2	99004	0.335	2	99004	0.331
10.00 10.20	2	99004	0.014	Z	99004	0.247	Z	99004	0.201
19.00 - 19.30									
19.30 - 20.00									
20.00 - 20.30									
20.30 - 21.00									
21.00 - 21.30									
21:30 - 22:00									
22:00 - 22:30									
22:30 - 23:00									
23:00 - 23:30									
23:30 - 24:00			0.070			0.05.1			(
Total Rates:			2.972			3.054			6.026

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.

TRIP RATE for Land Use 02 - EMPLOYMENT/B - BUSINESS PARK LGVS Calculation factor: 100 sqm BOLD print indicates peak (busiest) period

	ARRIVALS			DEPARTURES	5	TOTALS			
	No.	Ave.	Trip	No.	Ave.	Trip	No.	Ave.	Trip
Time Range	Days	GFA	Rate	Days	GFA	Rate	Days	GFA	Rate
00:00 - 00:30									
00:30 - 01:00									
01:00 - 01:30									
01:30 - 02:00									
02:00 - 02:30									
02:30 - 03:00									
03:00 - 03:30									
03:30 - 04:00									
04:00 - 04:30									
04:30 - 05:00									
05:00 - 05:30									
05:30 - 06:00									
06:00 - 06:30									
06:30 - 07:00									
07:00 - 07:30	2	99604	0.007	2	99604	0.004	2	99604	0.011
07:30 - 08:00	2	99604	0.009	2	99604	0.003	2	99604	0.012
08:00 - 08:30	2	99604	0.008	2	99604	0.005	2	99604	0.013
08:30 - 09:00	2	99604	0.007	2	99604	0.004	2	99604	0.011
09:00 - 09:30	2	99604	0.004	2	99604	0.002	2	99604	0.006
09:30 - 10:00	2	99604	0.005	2	99604	0.004	2	99604	0.009
10:00 - 10:30	2	99604	0.007	2	99604	0.005	2	99604	0.012
10:30 - 11:00	2	99604	0.006	2	99604	0.005	2	99604	0.011
11:00 - 11:30	2	99604	0.008	2	99604	0.006	2	99604	0.014
11:30 - 12:00	2	99604	0.005	2	99604	0.005	2	99604	0.010
12:00 - 12:30	2	99604	0.007	2	99604	0.004	2	99604	0.011
12:30 - 13:00	2	99604	0.005	2	99604	0.006	2	99604	0.011
13:00 - 13:30	2	99604	0.006	2	99604	0.004	2	99604	0.010
13:30 - 14:00	2	99604	0.005	2	99604	0.005	2	99604	0.010
14:00 - 14:30	2	99604	0.004	2	99604	0.003	2	99604	0.007
14:30 - 15:00	2	99604	0.005	2	99604	0.008	2	99604	0.013
15:00 - 15:30	2	99604	0.003	2	99604	0.009	2	99604	0.012
15:30 - 16:00	2	99604	0.005	2	99604	0.004	2	99604	0.009
16:00 - 16:30	2	99604	0.003	2	99604	0.005	2	99604	0.008
16:30 - 17:00	2	99604	0.002	2	99604	0.006	2	99604	0.008
17:00 - 17:30	2	99604	0.002	2	99604	0.003	2	99604	0.005
17:30 - 18:00	2	99604	0.003	2	99604	0.005	2	99604	0.008
18:00 - 18:30	2	99604	0.000	2	99604	0.004	2	99604	0.004
18:30 - 19:00	2	99604	0.001	2	99604	0.005	2	99604	0.006
19:00 - 19:30									
19:30 - 20:00									
20:00 - 20:30									
20:30 - 21:00									
21:00 - 21:30									
21:30 - 22:00									
22:00 - 22:30									
22:30 - 23:00									
23:00 - 23:30									
23:30 - 24:00									
Total Rates:			0.117			0.114			0.231

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.

> TRIP RATE for Land Use 02 - EMPLOYMENT/B - BUSINESS PARK MOTOR CYCLES Calculation factor: 100 sqm BOLD print indicates peak (busiest) period

	ARRIVALS		[DEPARTURES		TOTALS			
	No.	Ave.	Trip	No.	Ave.	Trip	No.	Ave.	Trip
Time Range	Days	GFA	Rate	Days	GFA	Rate	Days	GFA	Rate
00:00 - 00:30									
00:30 - 01:00									
01:00 - 01:30									
01:30 - 02:00									
02:00 - 02:30									
02:30 - 03:00									
03:00 - 03:30									
03:30 - 04:00									
04:00 - 04:30									
04:30 - 05:00									
05:00 - 05:30									
05:30 - 06:00									
06:00 - 06:30									
06:30 - 07:00									
07:00 - 07:30	2	99604	0.003	2	99604	0.001	2	99604	0.004
07:30 - 08:00	2	99604	0.004	2	99604	0.002	2	99604	0.006
08:00 - 08:30	2	99604	0.005	2	99604	0.001	2	99604	0.006
08:30 - 09:00	2	99604	0.001	2	99604	0.000	2	99604	0.001
09:00 - 09:30	2	99604	0.002	2	99604	0.001	2	99604	0.003
09:30 - 10:00	2	99604	0.001	2	99604	0.001	2	99604	0.002
10:00 - 10:30	2	99604	0.002	2	99604	0.000	2	99604	0.002
10:30 - 11:00	2	99604	0.001	2	99604	0.000	2	99604	0.001
11:00 - 11:30	2	99604	0.001	2	99604	0.000	2	99604	0.001
11:30 - 12:00	2	99604	0.001	2	99604	0.002	2	99604	0.003
12:00 - 12:30	2	99604	0.001	2	99604	0.000	2	99604	0.001
12:30 - 13:00	2	99604	0.001	2	99604	0.001	2	99604	0.002
13:00 - 13:30	2	99604	0.001	2	99604	0.001	2	99604	0.002
13:30 - 14:00	2	99604	0.000	2	99604	0.001	2	99604	0.001
14:00 - 14:30	2	99604	0.001	2	99604	0.000	2	99604	0.001
14:30 - 15:00	2	99604	0.001	2	99604	0.001	2	99604	0.002
15:00 - 15:30	2	99604	0.002	2	99604	0.002	2	99604	0.004
15:30 - 16:00	2	99604	0.001	2	99604	0.001	2	99604	0.002
16:00 - 16:30	2	99604	0.001	2	99604	0.002	2	99604	0.003
16:30 - 17:00	2	99604	0.000	2	99604	0.001	2	99604	0.001
17:00 - 17:30	2	99604	0.001	2	99604	0.005	2	99604	0.006
17:30 - 18:00	2	99604	0.000	2	99604	0.004	2	99604	0.004
18:00 - 18:30	2	99604	0.000	2	99604	0.001	2	99604	0.001
18:30 - 19:00	2	99604	0.001	2	99604	0.000	2	99604	0.001
19:00 - 19:30									
19:30 - 20:00									
20:00 - 20:30									
20:30 - 21:00									
21:00 - 21:30									
21:30 - 22:00									
22:00 - 22:30									
22:30 - 23:00									
23:00 - 23:30									
23:30 - 24:00									
Total Rates:			0.032		I	0.028		1	0.060
This spatian	- diamina the	trip rata raa	the beard as	- + +	+ - F - · · · · ·	and an al the a	alastad sau	at town of the second	in inst

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.

Licence No: 706701