## Appendix 53

HTp/1107/TN/10 - Committed Developments

# HighgateTransportation 

Land at Peel Hall, Warrington<br>Technical Note on Committed Developments (HTp/1107/TN/10)

## April 2016

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### 1.0 Introduction

1.1 This Technical Note has been prepared by Highgate Transportation Limited on behalf of Satnam Millennium Limited to identify the local committed developments within Warrington, as set out and agreed by Warrington Borough Council highway officers, that are to be accounted for within the traffic impact assessment work associated with the Peel Hall site.
1.2 These committed developments are as follows:
i. Land at Benson Road, Birchwood (ref: 2015/26220).
ii. Birchwood Shopping Centre (ref: 2015/25880).
iii. Birchwood Park (ref: 2015/26044, 2014/23358 and 2008/12744).
iv. Calver Park (ref: 2015/26685 and 2013/22533).
1.3 The corresponding vehicular trip numbers over the peak periods of 0700 to 0930 and 1600 to 1830, and subsequent trip loading locations for each site identified are set out in Section 3.0 of this report for ease of inserting into the VISSIM model.
1.4 It should be noted that the application for the $B \& Q$ extension at Winwick (ref: 2015/26628) for a click-and-collect area and storeroom and relocation of the garden centre area, which was granted on 12/02/16, has not been included within the identified committed developments as there will be no net change to the store's overall GFA and it is therefore considered that there would be very little, if any, impact on the local highway network during peak hours as a result of this development.
1.5 It was agreed that due to the location of the Omega development from the Peel Hall site it would not need to be accounted for separately within the modelling, over and above the local growth rates that are to be applied (HTp Technical Note TN/07).
1.6 It is concluded that the identified committed developments, associated trip rates and subsequent trip loading provided in this Technical Note (HTp/1107/TN/10) are appropriate.

### 2.0 Committed Developments

2.1 The committed developments, planning application reference numbers, planning history and descriptions are provided in Table 2.1 below.
2.2 The location of each site in relation to the proposed Peel Hall development is illustrated on Figure 1.

Table 2.1 - Committed Developments for Consideration

| Development Planning Reference and Decision Date | Proposal Description | Location Description |
| :---: | :---: | :---: |
| Land at Benson Road, Birchwood (2015/26220) Granted 01/12/15 | Proposed outline application with all matters reserved to create a new build two storey office block of up to 2,400 sqm, with supplemental parking and a link bridge to existing building. | Land at Benson Road, Birchwood, Warrington, WA3 7PQ |
| Birchwood Shopping Centre (2015/25880) Granted 27/10/15 | Application for Outline Planning Permission with all matters reserved apart from access and layout, for the demolition of existing buildings and construction of proposed mixed use extensions to Birchwood Shopping Centre (Use Classes A1/A3/D1) with associated access, servicing, car parking, signage and associated works. <br> Demolition of $2,565 \mathrm{sqm}$ B1, replaced with $4,907 \mathrm{sqm}$ A1, A3, A5, D1 (a variance of 2,342 sqm ) and 116 additional car parking spaces. | Birchwood Shopping Centre, Benson Road, Birchwood, Warrington, WA3 7PQ. |
| Birchwood Park (2015/26044) Granted 29/10/15 | Outline planning application: Demolition of some existing buildings and erection of new buildings for a combination of offices (B1); light and general industrial (B1/B2); warehousing development (B8) and ancillary retail/financial and professional services/nonresidential institutions/assembly and leisure (A1/A2/D1/D2) floor space. <br> B1 91,235sqm, B2/B8 40,215sqm and A1/A2/D1/D2 1,000sqm proposed. Change from other applications: B1 -8,036sqm, B2/B8 $+21,365 \mathrm{sqm}, \quad \mathrm{A} 1 / \mathrm{A} 2 / \mathrm{D} 1 / \mathrm{D} 2 \quad-4,000 \mathrm{sqm}$. Therefore an overall increase in floor area of 9,329sqm. <br> Current total net floor space B1 48,413 sqm, B2/B8 7,365sqm. | Eastern edge of Birchwood Park plots 107, 300, 501-502, 611-612, 701-702 and Quadrant, Warrington, WA3 6AE. |


| (2014/23358) <br> Granted 12/08/14 | Full Planning (Major) - Proposed construction of seven units for general industry and/or warehouse/distribution (Use Classes B2 and/or B8). <br> 12,225sqm proposed. <br> B1 91,375sqm, B2/B8 6,625sqm, A1/A2/D1/D2 5,000sqm | The Quadrant (plot 711-717), Cavendish Avenue, Birchwood Park, Warrington. |
| :---: | :---: | :---: |
| (2012/19696) Granted 24/07/12 | Application to extend time limit for implementation of permission 2006/07641 (offices, industrial and warehousing development) | Birchwood Business Park, Warrington, WA3 6BU. |
| $\begin{aligned} & (2008 / 12744) \\ & \text { Granted 04/07/08 } \end{aligned}$ | Outline application for the erection of an office building (use class B1), associated access and car parking (matters of appearance, landscaping, layout, and scale reserved). Shall not exceed 7,896 sqm. <br> (Previous floor space granted under permission A00/41159 of 1,428 sqm shall not be implemented). | Site 1 (plot 107), Dalton Avenue, Birchwood Park, Warrington. |
| (2003) A01/43317 <br> Granted 05/09/03 | Outline application for offices, light and general. <br> B1 84,500sqm, B2/B8 13,500sqm, A1/A2/D1/D2 5,000sqm | Birchwood Park, Birchwood, Warrington, WA3 6BU. |
| Calver Park (2015/26685) Granted 03/02/16 | Variation of Condition (Major) - Proposed variation of Condition 14 (Increase the restriction on care sales floor space) on previously approved application 2013/22533. Increase in motor sales from 1,933sqm (2 car showrooms) to 4,200sqm (1 large car showroom). Therefore a reduction in B2/B8 floor space of $2,267 \mathrm{sqm}$, down to 13,974 sqm from 16,214 sqm. Overall GFA remains at 18,147sqm. | Calver Park, Calver Park Road, Warrington, WA2 8TL. |
| (2013/22533) <br> Granted 07/08/14 | Outline Permission - outline application with all matters reserved excluding access for vehicle and ancillary uses (sui generis), light industry (use class B1(c)), general industrial (B2), storage/distribution (B8), including ancillary office and trade counter (up to 20\% floor space for goods assembled or manufactured on the premises) and associated access, parking, fencing and landscaping. (The planning application is accompanied by an environmental statement). <br> Motor vehicle sales of up to 1,933 sqm and light industry (B1c), general industrial (B2) and storage and distribution (B8) of up to 18,147sqm (including ancillary office) overall. | Calver Park, Calver Park Road, Warrington. |

2.3 In summary, the development proposals at Benson Road and Birchwood Park result in the provision of additional GFA and subsequent traffic generation above current operational levels. The trip rates and loading associated with these new developments are set out in Section 3.0, based on the 2015 Transport Assessments that accompanied the respective planning applications.
2.4 At Birchwood Shopping Centre the proposed changes to the development profile to replace 2,565 sqm GFA of B1 land uses with 4,907 sqm GFA A1, A3, A5 and D1 land uses results in lower forecast AM peak hour trips but higher PM trip rates during the weekday. This is supported by an associated increase in car parking provision. The net vehicle trips and loading for these changes are also set out in the following Section 3.0, based on the 2015 Transport Assessment.
2.5 At Calver Park, the proposed floor area also remains the same with the increase in motor sales GFA offset by a reduction in proposed B2/B8 GFA. The 2015 TA set out that the proposed increase in motor sales floor area would not create an increase in the level of weekday peak hour vehicle trips above the agreed motor sales floor area, which would have been for two car showrooms at a GFA of circa 967sqm each, due to the nature of both the more recent (2015) and previously proposed (2013) permissions. The trip rates and loading associated with the Calver Park site development will therefore be set out with reference to both the 2015 and 2013 Transport Assessment in Section 3.0, as it is understood that no element of this application has yet to be built/become operational.

### 3.0 Trip Rates and Loading

3.1 The Transport Statements/Transport Assessments that supported each of the planning applications for the committed developments highlighted for inclusion within the Peel Hall modelling have been reviewed, alongside the accompanying highway officer's consultation response and the resulting Decision Notice for each application.
3.2 The number of weekday peak hour vehicular trips associated with each of the committed developments is discussed in turn below, with the number of arrival and departure trips over the peak periods of 0700 to 0930 and 1600 to 1830 tabulated for ease of reference.
3.3 The trip rates are set out in the accompanying Appendices $\mathbf{1}$ to $\mathbf{4}$ at the end of this report.

## Land at Benson Road, Birchwood (2015/26220)

3.4 The number of peak period vehicular trips expected to arise from the proposed 2,400sqm GFA office extension are summarised in Table 3.1 below and the TRICS trip rate report extract from the Optima Transport Statement (dated September 2015) is contained in Appendix 1.

Table 3.1 - Land at Benson Road Peak Period Vehicle Trips Summary

| Hour | TRIPS |  |
| :---: | :---: | :---: |
|  | Arrival | Departure |
| $\mathbf{0 7 0 0 - 0 8 0 0}$ | 15 | 2 |
| $\mathbf{0 8 0 0 - 0 9 0 0}$ | 37 | 6 |
| $\mathbf{0 9 0 0} \mathbf{0 9 3 0}$ | 12 | 3 |
|  |  |  |
| $\mathbf{1 6 0 0 - 1 7 0 0}$ | 6 | 23 |
| $\mathbf{1 7 0 0 - 1 8 0 0}$ | 4 | 29 |
| $\mathbf{1 8 0 0} \mathbf{- 1 8 3 0}$ | 1 | 6 |

3.5 The Optima Transport Statement set out that the number of trips arising from the proposed office extension, "Are not considered to be material and their impact onto access points onto the local road network will be further diluted by the fact that (there) are numerous access points onto the local highway network. It is therefore not considered necessary or appropriate to undertake highway capacity assessments. The approach has been agreed with Warrington Highways as set out in their consultation response in which they have confirmed that a Transport Assessment is not necessary but that a Transport Statement is sufficient to support the application" (paragraph 5.1.6). No traffic surveys were submitted as part of this application.
3.6 The vehicle trips for this committed development at Benson Road will need to be loaded onto the highway network by the AECOM gravity model as there is not enough information in the supporting Transport Statement to distribute the traffic manually. The following points should be noted for vehicles leaving the committed development site (and reversed for arrival trips):
i. Departure trips originate from the Benson Road junction with Dewhurst Road opposite the railway station.
ii. Vehicle trips with destinations to the west and south will all go through the Birchwood Interchange and take the A574 west along Birchwood Way.
iii. Vehicle trips with destinations to the north may go through the Birchwood Interchange and take the A574 north along Birchwood Park Avenue into Warrington Road, or take the A574 east to the M62 junction 11. However, the latter movements may be along Ordnance Way running parallel to Birchwood Way to avoid the Birchwood Interchange.
iv. Vehicle trips with destinations to the east may go through the Birchwood Interchange and take the A574 east along Birchwood Way, but are likely to travel along Ordnance Way as (iii) above, to avoid the Birchwood Interchange.
v. All trips travelling through Birchwood Interchange will arrive from the south via Oakwood Gate.

## Birchwood Shopping Centre (2015/25880)

3.7 The number of accumulated peak period vehicular trips expected to arise from the Birchwood Shopping Centre proposals to demolish 2,565 sqm of B1 office development and replace with $4,907 \mathrm{sqm}$ of A1, A3 A5 and D1 land uses and additional parking are summarised in Table 3.2 below. The breakdown of the floor areas used in the calculations are as follows:
i. A1 non-food 1,958 GFA.
ii. A1 Food 899 GFA.
iii. A3 and A5 1,681 GFA.
iv. D1 369 GFA.
v. B1-2,565 GFA.
3.8 The TRICS trip rate report extract from the TPS Transport Assessment (dated May 2015) is contained in Appendix 2.

Table 3.2 - Birchwood Shopping Centre Peak Period Vehicle Trips Summary

| Hour | TRIPS |  |
| :---: | :---: | :---: |
|  | Arrival | Departure |
| $\mathbf{0 7 0 0 - 0 8 0 0}$ | -1 | 6 |
| $\mathbf{0 8 0 0 - 0 9 0 0}$ | -17 | 17 |
| $\mathbf{0 9 0 0} \mathbf{- 0 9 3 0}$ | 33 | 29 |
|  |  |  |
| $\mathbf{1 6 0 0 - 1 7 0 0}$ | 104 | 82 |
| $\mathbf{1 7 0 0 - 1 8 0 0}$ | 124 | 73 |
| $\mathbf{1 8 0 0} \mathbf{- 1 8 3 0}$ | 73 | 75 |

3.9 The TPS Assessments sets out that the trip rates used are robust as, "Whilst it is proposed to increase the floor area of restaurant facilities, these facilities are principally ancillary to the shopping centre and it is not envisaged that these would generate trips in their own right. Consequently, the trip generation comparison, and resulting traffic generation, is a robust assessment. The robustness of the assessment is enhanced further given the propensity for linked trips between different retail opportunities on a large site such as Birchwood Shopping Centre; this is not taken into consideration at this stage" (paragraph 5.3).
3.10 The vehicle trips for this committed development at Birchwood Shopping Centre will need to be loaded onto the highway network by the AECOM gravity model, noting the points set out in paragraph 3.6.

## Birchwood Park (2015/26044)

3.11 As set out in Table $\mathbf{2 . 1}$ earlier in this report and the Vectos Transport Assessment (dated June 2015), Birchwood Park is an existing thriving business park. A proportion of the committed development land within the planning application consists of existing commercial and industrial buildings that are in use, vacant land that has been previously cleared of structures, and some planting and landscaped areas.
3.12 The number of peak period vehicular trips expected to arise from the Birchwood Park proposals of 91,235 square metres of $B 1$ office development and 40,215 square metres of B2/B8 warehouse development (for the land parcels set out in Table 2.1) have been discounted based on the vehicle trip generation of the current operational land uses on site of 48,413 square metres GFA B1 and 7,365 square metres GFA B2/B8 i.e. what we can expect is already on the local highway network.
3.13 Therefore the resultant vehicular trips arising from the additional 42,822 square metres GFA B1 and 32,850 square metres GFA B2/B8 proposed are summarised in Table 3.3 below and the TRICS trip rate report from the Vectos Transport Assessment is contained in Appendix 3 for reference.

Table 3.3 - Birchwood Park Peak Period Vehicle Trips Summary

| Hour | TRIPS |  |
| :---: | :---: | :---: |
|  | Arrival | Departure |
| $\mathbf{0 7 0 0 - 0 8 0 0}$ | 330 | 37 |
| $\mathbf{0 8 0 0 - 0 9 0 0}$ | 745 | 89 |
| $\mathbf{0 9 0 0} \mathbf{- 0 9 3 0}$ | 283 | 56 |
|  |  |  |
| $\mathbf{1 6 0 0 - 1 7 0 0}$ | 97 | 480 |
| $\mathbf{1 7 0 0 - 1 8 0 0}$ | 79 | 648 |
| $\mathbf{1 8 0 0} \mathbf{- 1 8 3 0}$ | 30 | 267 |

3.14 It can be noted that the A1/A2/D1/D2 land uses have been considered as ancillary to the proposed development based on previously agreed traffic impact analysis by Warrington Borough Council (WBC). These trip rates have therefore not been taken into consideration.
3.15 In terms of accounting for HGV trips within the VISSIM model, the WBC highways consultation response to this application sets out that a maximum of 16 OGV trip movements may occur as a result of this development within any one hour during the day. It should be noted that the reference OGV in TRICS refers to a mix of HGV and other large commercial vehicles. As the majority of HGV movements are coordinated outside of peak hours by the Birchwood Park operators, it is therefore not considered that additional trip breakdowns will be needed for input of data into the VISSIM model in any event.
3.16 Given the spread in location of the units across the Birchwood Park set out in this approved planning application, and the route choice options available, it was concluded in the TA and agreed by WBC that the impact on any one junction would be minimal.
3.17 The vehicle trips for this committed development at Birchwood Shopping Centre will need to be loaded onto the local highway network appropriately and distributed by the AECOM gravity model.

## Calver Park (2015/22533)

3.18 The 2013 application was for an overall site GFA of 18,147 square metres and included two car show rooms at circa 967 square metres GFA each. The variation of condition application was for a larger car showroom area totalling 4,200sqm GFA to be operated by a single known user, with the remaining proposed floor space GFA of 13,947 split between B2 and B8 land uses; a total reduction of 2,267 square metres GFA in these land uses from the original application.
3.19 The number of peak period vehicular trips expected to arise from the new car showroom are summarised in Table 3.4 below, based on the TRICS report from the iprt Transport Planning Group Transport Statement (dated September 2015) for larger car showrooms, which is contained in Appendix 4.

Table 3.4 - Calver Park Car Showroom Peak Period Vehicle Trips Summary (4,200sqm)

| Hour | TRIPS |  |
| :---: | :---: | :---: |
|  | Arrival | Departure |
| $\mathbf{0 7 0 0 - 0 8 0 0}$ | 10 | 4 |
| $\mathbf{0 8 0 0 - 0 9 0 0}$ | 30 | 16 |
| $\mathbf{0 9 0 0 - 0 9 3 0}$ | 15 | 9 |
|  |  |  |
| $\mathbf{1 6 0 0 - 1 7 0 0}$ | 13 | 22 |
| $\mathbf{1 7 0 0 - 1 8 0 0}$ | 15 | 20 |
| $\mathbf{1 8 0 0 - 1 8 3 0}$ | 2 | 9 |

3.20 Tables 3.5 and 3.6 below set out the reduction in $B 2$ and $B 8$ respectively to enable the total trip generation of the site to be calculated. The TRICS reports are also contained in Appendix 4.

Table 3.5 - Calver Park B2 Peak Period Vehicle Trips Summary (6,973.5sqm)

| Hour | TRIPS |  |
| :---: | :---: | :---: |
|  | Arrival | Departure |
| $\mathbf{0 7 0 0 - 0 8 0 0}$ | 33 | 4 |
| $\mathbf{0 8 0 0 - 0 9 0 0}$ | 38 | 10 |
| $\mathbf{0 9 0 0 - 0 9 3 0}$ | 10 | 6 |
|  |  |  |
| $\mathbf{1 6 0 0 - 1 7 0 0}$ | 12 | 39 |
| $\mathbf{1 7 0 0 - 1 8 0 0}$ | 4 | 40 |
| $\mathbf{1 8 0 0 - 1 8 3 0}$ | 0 | 5 |

Table 3.6 - Calver Park B8 Peak Period Vehicle Trips Summary (6,973.5sqm)

| Hour | TRIPS |  |
| :---: | :---: | :---: |
|  | Arrival | Departure |
| $\mathbf{0 7 0 0 - 0 8 0 0}$ | 15 | 9 |
| $\mathbf{0 8 0 0 - 0 9 0 0}$ | 25 | 52 |
| $\mathbf{0 9 0 0 - 0 9 3 0}$ | 8 | 10 |
|  |  |  |
| $\mathbf{1 6 0 0 - 1 7 0 0}$ | 12 | 18 |
| $\mathbf{1 7 0 0 - 1 8 0 0}$ | 10 | 18 |
| $\mathbf{1 8 0 0 - 1 8 3 0}$ | 1 | 8 |

3.21 Table 3.7 sets out the total expected vehicular trip numbers resulting from the proposed land uses on the Calver Park site as a result of the variation of condition application, taken from Table 3.4 to $\mathbf{3 . 6}$.

Table 3.7 - Calver Park Peak Period Vehicle Trips Summary (All Trips)

| Hour | TRIPS |  |
| :---: | :---: | :---: |
|  | Arrival | Departure |
| $\mathbf{0 7 0 0 - 0 8 0 0}$ | 58 | 17 |
| $\mathbf{0 8 0 0 - 0 9 0 0}$ | 93 | 78 |
| $\mathbf{0 9 0 0} \mathbf{- 0 9 3 0}$ | 33 | 25 |
|  |  |  |
| $\mathbf{1 6 0 0} \mathbf{- 1 7 0 0}$ | 37 | 79 |
| $\mathbf{1 7 0 0 - 1 8 0 0}$ | 29 | 78 |
| $\mathbf{1 8 0 0} \mathbf{- 1 8 3 0}$ | 3 | 22 |

3.22 The vehicle trips for this committed development will need to be loaded onto the local highway network and distributed by the AECOM gravity model. However, it can be noted from the iprt Transport Statement (paragraph 3.10) that in the AM peak, "...at most $60 \%$ of the development trips travel towards Cromwell Avenue from the site access on Calver Park Road, with the remaining $40 \%$ travelling north" to Mill Lane and over the M62, with more of a $50: 50$ split in the PM peak hour.

### 4.0 Summary and Conclusion

4.1 This Technical Note has been prepared by Highgate Transportation and summarises the committed developments to be included within the modelling for the Peel Hall site. The location of these committed developments in respect of the Peel Hall site is illustrated on Figure 1.
4.2 The committed development sites agreed with Warrington Borough Council highway officers for inclusion in the modelling are as follows:
i. Land at Benson Road Birchwood (ref: 2015/26220).

Proposed outline application with all matters reserved to create a new build two storey office block of up to 2,400 sqm, with supplemental parking and a link bridge to existing building.
ii. Birchwood Shopping Centre (ref: 2015/25880).

Application for Outline Planning Permission with all matters reserved apart from access and layout, for the demolition of existing buildings and construction of proposed mixed use extensions to Birchwood Shopping Centre (Use Classes A1/A3/D1) with associated access, servicing, car parking, signage and associated works.

Demolition of 2,565sqm B1, replaced with 2,342sqm A1, A3, A5, D1 and 116 additional car parking spaces.
iii. Birchwood Park (ref: 2015/26044, 2014/23358 and 2008/12744).

Outline planning application: Demolition of some existing buildings and erection of new buildings for a combination of offices (B1); light and general industrial (B1/B2); warehousing development (B8) and ancillary retail/financial and professional services/non-residential institutions/assembly and leisure (A1/A2/D1/D2) floor space.

B1 91,235sqm, B2/B8 40,215sqm and A1/A2/D1/D2 1,000sqm proposed. Change from other applications: B1-8,036sqm, B2/B8 21,365sqm, A1/A2/D1/D2 $4,000 \mathrm{sqm}$; an increase in floor area of $9,329 \mathrm{sqm}$ (of $B 2 / B 8$ ).

Current total net floor space B1 48,413 sqm, B2/B8 7,365sqm.
iv. Calver Park (ref: 2015/26685 and 2013/22533).

Variation of Condition (Major) - Proposed variation of Condition 14 (Increase the restriction on care sales floor space) on previously approved application 2013/22533.

Increase in motor sales from 1,933sqm (2 car showrooms) to 4,200sqm (1 large car showroom); a reduction in B2/B8 floor space of 2,267sqm, down to 13,974sqm from 16,214sqm. Overall GFA remains at 18,147sqm.
4.3 The peak hour trip rates for the proposed development profiles have been taken from the relevant Transport Assessment for each of the planning applications, taking into the account the associated highway officer consultation responses and Decision Notices. The expected level of vehicle trips for each development are summarised in the tables contained in Section 3.0 for the peak periods of 0700-0930 and 1600-1830 to assist with the VISSIM modelling.
4.4 The loading and distribution of vehicle trips on the network associated with each of these four committed developments will be carried out by AECOM based on their gravity model.
4.5 It is concluded that the identified committed developments, associated trip rates and subsequent vehicle trips in this Technical Note are appropriate.

## Figure 1

## Location of Committed Developments



## Appendix 1

TRICS Data for Land at Benson Road, Birchwood

TRIP RATE for Land Use 02 - EMPLOYMENT/A - OFFICE
VEHICLES
Calculation factor: $\mathbf{1 0 0}$ 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 |
| 00:00-00:30 |  |  |  |  |  |  |  |  |  |
| 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 | 17 | 4703 | 0.189 | 17 | 4703 | 0.024 | 17 | 4703 | 0.213 |
| 07:30-08:00 | 17 | 4703 | 0.452 | 17 | 4703 | 0.056 | 17 | 4703 | 0.508 |
| 08:00-08:30 | 17 | 4703 | 0.749 | 17 | 4703 | 0.110 | 17 | 4703 | 0.859 |
| 08:30-09:00 | 17 | 4703 | 0.798 | 17 | 4703 | 0.151 | 17 | 4703 | 0.949 |
| 09:00-09:30 | 17 | 4703 | 0.480 | 17 | 4703 | 0.131 | 17 | 4703 | 0.611 |
| 09:30-10:00 | 17 | 4703 | 0.336 | 17 | 4703 | 0.156 | 17 | 4703 | 0.492 |
| 10:00-10:30 | 17 | 4703 | 0.211 | 17 | 4703 | 0.121 | 17 | 4703 | 0.332 |
| 10:30-11:00 | 17 | 4703 | 0.154 | 17 | 4703 | 0.143 | 17 | 4703 | 0.297 |
| 11:00-11:30 | 17 | 4703 | 0.144 | 17 | 4703 | 0.160 | 17 | 4703 | 0.304 |
| 11:30-12:00 | 17 | 4703 | 0.149 | 17 | 4703 | 0.138 | 17 | 4703 | 0.287 |
| 12:00-12:30 | 17 | 4703 | 0.124 | 17 | 4703 | 0.180 | 17 | 4703 | 0.304 |
| 12:30-13:00 | 17 | 4703 | 0.163 | 17 | 4703 | 0.188 | 17 | 4703 | 0.351 |
| 13:00-13:30 | 17 | 4703 | 0.151 | 17 | 4703 | 0.205 | 17 | 4703 | 0.356 |
| 13:30-14:00 | 17 | 4703 | 0.196 | 17 | 4703 | 0.170 | 17 | 4703 | 0.366 |
| 14:00-14:30 | 17 | 4703 | 0.130 | 17 | 4703 | 0.129 | 17 | 4703 | 0.259 |
| 14:30-15:00 | 17 | 4703 | 0.121 | 17 | 4703 | 0.161 | 17 | 4703 | 0.282 |
| 15:00-15:30 | 17 | 4703 | 0.103 | 17 | 4703 | 0.136 | 17 | 4703 | 0.239 |
| 15:30-16:00 | 17 | 4703 | 0.113 | 17 | 4703 | 0.185 | 17 | 4703 | 0.298 |
| 16:00-16:30 | 17 | 4703 | 0.130 | 17 | 4703 | 0.484 | 17 | 4703 | 0.614 |
| 16:30-17:00 | 17 | 4703 | 0.104 | 17 | 4703 | 0.472 | 17 | 4703 | 0.576 |
| 17:00-17:30 | 17 | 4703 | 0.116 | 17 | 4703 | 0.777 | 17 | 4703 | 0.893 |
| 17:30-18:00 | 17 | 4703 | 0.056 | 17 | 4703 | 0.438 | 17 | 4703 | 0.494 |
| 18:00-18:30 | 17 | 4703 | 0.028 | 17 | 4703 | 0.249 | 17 | 4703 | 0.277 |
| 18:30-19:00 | 17 | 4703 | 0.016 | 17 | 4703 | 0.135 | 17 | 4703 | 0.151 |
| 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 |  |  |  |  |  |  |  |  |  |
| $\begin{array}{lll}\text { Total Rates: } & 5.213 & 5.099\end{array}$ |  |  |  |  |  |  |  |  |  |

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.

## Appendix 2

TRICS Data for Birchwood Shopping Centre

## TRIP RATE for Land Use 01 - RETAIL/G - OTHER INDIVIDUAL NON-FOOD SUPERSTORE

VEHI CLES
Calculation factor: $\mathbf{1 0 0}$ sqm

## BOLD print indicates peak (busiest) period

|  | ARRIVALS |  |  | DEPARTURES |  |  | TOTALS |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Time Range | 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 | 1 | 714 | 0.140 | 1 | 714 | 0.000 | 1 | 714 | 0.140 |
| 08:00-09:00 | 4 | 2068 | 0.193 | 4 | 2068 | 0.036 | 4 | 2068 | 0.229 |
| 09:00-10:00 | 4 | 2068 | 1.692 | 4 | 2068 | 0.979 | 4 | 2068 | 2.671 |
| 10:00-11:00 | 4 | 2068 | 2.430 | 4 | 2068 | 1.910 | 4 | 2068 | 4.340 |
| 11:00-12:00 | 4 | 2068 | 2.671 | 4 | 2068 | 2.309 | 4 | 2068 | 4.980 |
| 12:00-13:00 | 4 | 2068 | 2.587 | 4 | 2068 | 2.514 | 4 | 2068 | 5.101 |
| 13:00-14:00 | 4 | 2068 | 3.046 | 4 | 2068 | 2.816 | 4 | 2068 | 5.862 |
| 14:00-15:00 | 4 | 2068 | 2.611 | 4 | 2068 | 2.744 | 4 | 2068 | 5.355 |
| 15:00-16:00 | 4 | 2068 | 2.212 | 4 | 2068 | 2.635 | 4 | 2068 | 4.847 |
| 16:00-17:00 | 4 | 2068 | 1.571 | 4 | 2068 | 2.019 | 4 | 2068 | 3.590 |
| 17:00-18:00 | 4 | 2068 | 1.680 | 4 | 2068 | 1.765 | 4 | 2068 | 3.445 |
| 18:00-19:00 | 4 | 2068 | 0.834 | 4 | 2068 | 1.088 | 4 | 2068 | 1.922 |
| 19:00-20:00 | 4 | 2068 | 0.399 | 4 | 2068 | 0.737 | 4 | 2068 | 1.136 |
| 20:00-21:00 | 3 | 1591 | 0.000 | 3 | 1591 | 0.126 | 3 | 1591 | 0.126 |
| 21:00-22:00 |  |  |  |  |  |  |  |  |  |
| 22:00-23:00 |  |  |  |  |  |  |  |  |  |
| 23:00-24:00 |  |  |  |  |  |  |  |  |  |
| Total Rates: |  |  | 22.066 |  |  | 21.678 |  |  | 43.744 |

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

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

## Parameter summary

Trip rate parameter range selected:
Survey date date range:
Number of weekdays (Monday-Friday):
Number of Saturdays:
Number of Sundays:
Surveys manually removed from selection:

714-3500 (units: sqm)
01/01/06-22/10/11
4
0
0
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.

## TRIP RATE for Land Use 01 - RETAIL/A - FOOD SUPERSTORE

## VEHI CLES

## 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 | 7 | 3297 | 1.413 | 7 | 3297 | 0.966 | 7 | 3297 | 2.379 |
| 08:00-09:00 | 7 | 3297 | 3.605 | 7 | 3297 | 2.479 | 7 | 3297 | 6.084 |
| 09:00-10:00 | 7 | 3297 | 5.282 | 7 | 3297 | 4.130 | 7 | 3297 | 9.412 |
| 10:00-11:00 | 7 | 3297 | 6.101 | 7 | 3297 | 5.174 | 7 | 3297 | 11.275 |
| 11:00-12:00 | 7 | 3297 | 6.608 | 7 | 3297 | 6.474 | 7 | 3297 | 13.082 |
| 12:00-13:00 | 7 | 3297 | 6.478 | 7 | 3297 | 6.626 | 7 | 3297 | 13.104 |
| 13:00-14:00 | 7 | 3297 | 6.348 | 7 | 3297 | 6.244 | 7 | 3297 | 12.592 |
| 14:00-15:00 | 7 | 3297 | 6.227 | 7 | 3297 | 6.461 | 7 | 3297 | 12.688 |
| 15:00-16:00 | 7 | 3297 | 6.171 | 7 | 3297 | 6.504 | 7 | 3297 | 12.675 |
| 16:00-17:00 | 7 | 3297 | 6.695 | 7 | 3297 | 6.626 | 7 | 3297 | 13.321 |
| 17:00-18:00 | 7 | 3297 | 7.085 | 7 | 3297 | 7.475 | 7 | 3297 | 14.560 |
| 18:00-19:00 | 7 | 3297 | 5.451 | 7 | 3297 | 6.444 | 7 | 3297 | 11.895 |
| 19:00-20:00 | 7 | 3297 | 4.463 | 7 | 3297 | 4.914 | 7 | 3297 | 9.377 |
| 20:00-21:00 | 6 | 3300 | 2.420 | 6 | 3300 | 3.304 | 6 | 3300 | 5.724 |
| 21:00-22:00 | 6 | 3300 | 0.914 | 6 | 3300 | 1.672 | 6 | 3300 | 2.586 |
| 22:00-23:00 | 1 | 4212 | 0.024 | 1 | 4212 | 0.214 | 1 | 4212 | 0.238 |
| 23:00-24:00 |  |  |  |  |  |  |  |  |  |
| Total Rates: |  |  | 75.285 |  |  | 75.707 |  |  | 150.992 |

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

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

## Parameter summary

Trip rate parameter range selected:
Survey date date range:
Number of weekdays (Monday-Friday):
Number of Saturdays:
Number of Sundays: 0
Surveys manually removed from selection:

1700-5000 (units: sqm)
01/01/06-19/07/13
7
0
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.

TRIP RATE for Land Use 06 - HOTEL, FOOD \& DRINK/B - RESTAURANTS
VEHI CLES
Calculation factor: $\mathbf{1 0 0}$ 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 | 1 | 865 | 0.000 | 1 | 865 | 0.000 | 1 | 865 | 0.000 |
| 08:00-09:00 | 1 | 865 | 0.000 | 1 | 865 | 0.000 | 1 | 865 | 0.000 |
| 09:00-10:00 | 1 | 865 | 0.809 | 1 | 865 | 0.000 | 1 | 865 | 0.809 |
| 10:00-11:00 | 12 | 700 | 0.417 | 12 | 700 | 0.179 | 12 | 700 | 0.596 |
| 11:00-12:00 | 14 | 684 | 0.533 | 14 | 684 | 0.324 | 14 | 684 | 0.857 |
| 12:00-13:00 | 15 | 672 | 1.449 | 15 | 672 | 0.496 | 15 | 672 | 1.945 |
| 13:00-14:00 | 15 | 672 | 1.658 | 15 | 672 | 1.350 | 15 | 672 | 3.008 |
| 14:00-15:00 | 15 | 672 | 1.092 | 15 | 672 | 1.668 | 15 | 672 | 2.760 |
| 15:00-16:00 | 15 | 672 | 1.112 | 15 | 672 | 1.291 | 15 | 672 | 2.403 |
| 16:00-17:00 | 16 | 648 | 1.003 | 16 | 648 | 0.868 | 16 | 648 | 1.871 |
| 17:00-18:00 | 16 | 648 | 1.745 | 16 | 648 | 1.041 | 16 | 648 | 2.786 |
| 18:00-19:00 | 16 | 648 | 2.044 | 16 | 648 | 1.600 | 16 | 648 | 3.644 |
| 19:00-20:00 | 16 | 648 | 2.420 | 16 | 648 | 2.227 | 16 | 648 | 4.647 |
| 20:00-21:00 | 16 | 648 | 1.697 | 16 | 648 | 2.034 | 16 | 648 | 3.731 |
| 21:00-22:00 | 16 | 648 | 1.089 | 16 | 648 | 1.841 | 16 | 648 | 2.930 |
| 22:00-23:00 | 15 | 634 | 0.642 | 15 | 634 | 1.557 | 15 | 634 | 2.199 |
| 23:00-24:00 | 14 | 615 | 0.151 | 14 | 615 | 0.604 | 14 | 615 | 0.755 |
| Total Rates: |  |  | 17.861 |  |  | 17.080 |  |  | 34.941 |

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

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

## Parameter summary

Trip rate parameter range selected:
178-2400 (units: sqm)
Survey date date range:
01/01/07-19/10/14
Number of weekdays (Monday-Friday):
16
Number of Saturdays: 0
Number of Sundays: 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.

## TRIP RATE for Land Use 05 - HEALTH/E - CLINICS

## VEHI CLES

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 | 1 | 17 | 5.882 | 1 | 17 | 5.882 | 1 | 17 | 11.764 |
| 07:00-08:00 | 6 | 756 | 0.397 | 6 | 756 | 0.022 | 6 | 756 | 0.419 |
| 08:00-09:00 | 8 | 603 | 2.426 | 8 | 603 | 0.912 | 8 | 603 | 3.338 |
| 09:00-10:00 | 8 | 603 | 3.649 | 8 | 603 | 3.069 | 8 | 603 | 6.718 |
| 10:00-11:00 | 8 | 603 | 2.944 | 8 | 603 | 3.276 | 8 | 603 | 6.220 |
| 11:00-12:00 | 8 | 603 | 2.136 | 8 | 603 | 2.281 | 8 | 603 | 4.417 |
| 12:00-13:00 | 8 | 603 | 2.115 | 8 | 603 | 1.783 | 8 | 603 | 3.898 |
| 13:00-14:00 | 8 | 603 | 1.410 | 8 | 603 | 1.555 | 8 | 603 | 2.965 |
| 14:00-15:00 | 7 | 678 | 2.275 | 7 | 678 | 2.106 | 7 | 678 | 4.381 |
| 15:00-16:00 | 7 | 678 | 2.443 | 7 | 678 | 2.422 | 7 | 678 | 4.865 |
| 16:00-17:00 | 7 | 678 | 1.516 | 7 | 678 | 2.696 | 7 | 678 | 4.212 |
| 17:00-18:00 | 7 | 678 | 0.821 | 7 | 678 | 1.790 | 7 | 678 | 2.611 |
| 18:00-19:00 | 7 | 678 | 0.084 | 7 | 678 | 0.295 | 7 | 678 | 0.379 |
| 19:00-20:00 | 2 | 114 | 0.441 | 2 | 114 | 0.441 | 2 | 114 | 0.882 |
| 20:00-21:00 |  |  |  |  |  |  |  |  |  |
| 21:00-22:00 |  |  |  |  |  |  |  |  |  |
| 22:00-23:00 |  |  |  |  |  |  |  |  |  |
| 23:00-24:00 |  |  |  |  |  |  |  |  |  |
| Total Rates: |  |  | 28.539 |  |  | 28.530 |  |  | 57.069 |

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

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

## Parameter summary

Trip rate parameter range selected:
Survey date date range:
Number of weekdays (Monday-Friday):
Number of Saturdays:
Number of Sundays:
Surveys manually removed from selection:

## 17-4000 (units: sqm)

01/01/07-10/06/13
8
0
0

This section displays a quick summary of some of the data filtering selections made by the TRICS ${ }^{\circledR}$ 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/A - OFFICE
VEHI CLES
Calculation factor: $\mathbf{1 0 0}$ sqm

## BOLD print indicates peak (busiest) period



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.

## Appendix 3

TRICS Data for Birchwood Park

TRIP RATE for Land Use 02 - EMPLOYMENT/A - OfFICE
VEHI CLES
Calculation factor: 100 sqm
BOLD print indicates peak (busiest) period

| Time Range | ARRIVALS |  |  | DEPARTURES |  |  | TOTALS |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | No. Days | Ave. GFA | Trip Rate | No. Days | Ave. <br> GFA | Trip Rate | No. Days | Ave. GFA | Trip Rate |
| 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 | 1 | 19974 | 0.000 | 1 | 19974 | 0.005 | 1 | 19974 | 0.005 |
| 05:30-06:00 | 1 | 19974 | 0.020 | 1 | 19974 | 0.005 | 1 | 19974 | 0.025 |
| 06:00-06:30 |  | 19974 | 0.070 | 1 | 19974 | 0.005 | 1 | 19974 | 0.075 |
| 06:30-07:00 |  | 19974 | 0.105 | 1 | 19974 | 0.025 | 1 | 19974 | 0.130 |
| 07:00-07:30 25 |  | 5803 | 0.233 | 25 | 5803 | 0.025 | 25 | 5803 | 0.258 |
| 07:30-08:00 | 25 | 5803 | 0.538 | 25 | 5803 | 0.061 | 25 | 5803 | 0.599 |
| 08:00-08:30 | 25 | 5803 | 0.863 | 25 | 5803 | 0.091 | 25 | 5803 | 0.954 |
| 08:30-09:00 | 25 | 5803 | 0.877 | 25 | 5803 | 0.116 | 25 | 5803 | 0.993 |
| 09:00-09:30 | 25 | 5803 | 0.661 | 25 | 5803 | 0.131 | 25 | 5803 | 0.792 |
| 09:30-10:00 | 25 | 5803 | 0.376 | 25 | 5803 | 0.141 | 25 | 5803 | 0.517 |
| 10:00-10:30 | 25 | 5803 | 0.247 | 25 | 5803 | 0.144 | 25 | 5803 | 0.391 |
| 10:30-11:00 | 25 | 5803 | 0.217 | 25 | 5803 | 0.130 | 25 | 5803 | 0.347 |
| 11:00-11:30 | 25 | 5803 | 0.172 | 25 | 5803 | 0.157 | 25 | 5803 | 0.329 |
| 11:30-12:00 | 25 | 5803 | 0.166 | 25 | 5803 | 0.168 | 25 | 5803 | 0.334 |
| 12:00-12:30 | 25 | 5803 | 0.144 | 25 | 5803 | 0.207 | 25 | 5803 | 0.351 |
| 12:30-13:00 | 25 | 5803 | 0.192 | 25 | 5803 | 0.219 | 25 | 5803 | 0.411 |
| 13:00-13:30 | 25 | 5803 | 0.231 | 25 | 5803 | 0.209 | 25 | 5803 | 0.440 |
| 13:30-14:00 | 25 | 5803 | 0.225 | 25 | 5803 | 0.161 | 25 | 5803 | 0.386 |
| 14:00-14:30 | 25 | 5803 | 0.197 | 25 | 5803 | 0.159 | 25 | 5803 | 0.356 |
| 14:30-15:00 | 25 | 5803 | 0.159 | 25 | 5803 | 0.201 | 25 | 5803 | 0.360 |
| 15:00-15:30 | 25 | 5803 | 0.125 | 25 | 5803 | 0.236 | 25 | 5803 | 0.361 |
| 15:30-16:00 | 25 | 5803 | 0.139 | 25 | 5803 | 0.280 | 25 | 5803 | 0.419 |
| 16:00-16:30 | 25 | 5803 | 0.128 | 25 | 5803 | 0.523 | 25 | 5803 | 0.651 |
| 16:30-17:00 | 25 | 5803 | 0.099 | 25 | 5803 | 0.616 | 25 | 5803 | 0.715 |
| 17:00-17:30 | 25 | 5803 | 0.114 | 25 | 5803 | 0.891 | 25 | 5803 | 1.005 |
| 17:30-18:00 | 25 | 5803 | 0.070 | 25 | 5803 | 0.623 | 25 | 5803 | 0.693 |
| 18:00-18:30 | 25 | 5803 | 0.041 | 25 | 5803 | 0.363 | 25 | 5803 | 0.404 |
| 18:30-19:00 | 25 | 5803 | 0.017 | 25 | 5803 | 0.183 | 25 | 5803 | 0.200 |
| 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: |  | 6.426 |  |  | 6.075 |  |  |  | 12.501 |

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

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

## Parameter summary

Trip rate parameter range selected:
Survey date date range:
Number of weekdays (Monday-Friday):
Number of Saturdays:
Number of Sundays:
Surveys manually removed from selection:

645-19974 (units: sqm)
01/01/05-24/09/13

## 25

0
0
5

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/C - INDUSTRIAL UNIT

VEHI CLES
Calculation factor: $\mathbf{1 0 0}$ sqm

## BOLD print indicates peak (busiest) period

|  | ARRIVALS |  |  | DEPARTURES |  |  | TOTALS |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Time Range | No. Days | Ave. GFA | Trip Rate | No. Days | Ave. GFA | Trip Rate | No. Days | Ave. GFA | Trip 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 | 1 | 11375 | 0.000 | 1 | 11375 | 0.000 | 1 | 11375 | 0.000 |
| 06:30-07:00 | 1 | 11375 | 0.018 | 1 | 11375 | 0.000 | 1 | 11375 | 0.018 |
| 07:00-07:30 | 15 | 12655 | 0.073 | 15 | 12655 | 0.042 | 15 | 12655 | 0.115 |
| 07:30-08:00 | 15 | 12655 | 0.185 | 15 | 12655 | 0.040 | 15 | 12655 | 0.225 |
| 08:00-08:30 | 15 | 12655 | 0.241 | 15 | 12655 | 0.037 | 15 | 12655 | 0.278 |
| 08:30-09:00 | 15 | 12655 | 0.172 | 15 | 12655 | 0.036 | 15 | 12655 | 0.208 |
| 09:00-09:30 | 15 | 12655 | 0.081 | 15 | 12655 | 0.036 | 15 | 12655 | 0.117 |
| 09:30-10:00 | 15 | 12655 | 0.055 | 15 | 12655 | 0.037 | 15 | 12655 | 0.092 |
| 10:00-10:30 | 15 | 12655 | 0.043 | 15 | 12655 | 0.043 | 15 | 12655 | 0.086 |
| 10:30-11:00 | 15 | 12655 | 0.040 | 15 | 12655 | 0.033 | 15 | 12655 | 0.073 |
| 11:00-11:30 | 15 | 12655 | 0.039 | 15 | 12655 | 0.028 | 15 | 12655 | 0.067 |
| 11:30-12:00 | 15 | 12655 | 0.044 | 15 | 12655 | 0.040 | 15 | 12655 | 0.084 |
| 12:00-12:30 | 15 | 12655 | 0.043 | 15 | 12655 | 0.066 | 15 | 12655 | 0.109 |
| 12:30-13:00 | 15 | 12655 | 0.050 | 15 | 12655 | 0.058 | 15 | 12655 | 0.108 |
| 13:00-13:30 | 15 | 12655 | 0.087 | 15 | 12655 | 0.072 | 15 | 12655 | 0.159 |
| 13:30-14:00 | 15 | 12655 | 0.131 | 15 | 12655 | 0.057 | 15 | 12655 | 0.188 |
| 14:00-14:30 | 15 | 12655 | 0.070 | 15 | 12655 | 0.170 | 15 | 12655 | 0.240 |
| 14:30-15:00 | 15 | 12655 | 0.075 | 15 | 12655 | 0.067 | 15 | 12655 | 0.142 |
| 15:00-15:30 | 15 | 12655 | 0.048 | 15 | 12655 | 0.089 | 15 | 12655 | 0.137 |
| 15:30-16:00 | 15 | 12655 | 0.043 | 15 | 12655 | 0.077 | 15 | 12655 | 0.120 |
| 16:00-16:30 | 15 | 12655 | 0.031 | 15 | 12655 | 0.073 | 15 | 12655 | 0.104 |
| 16:30-17:00 | 15 | 12655 | 0.043 | 15 | 12655 | 0.150 | 15 | 12655 | 0.193 |
| 17:00-17:30 | 15 | 12655 | 0.025 | 15 | 12655 | 0.127 | 15 | 12655 | 0.152 |
| 17:30-18:00 | 15 | 12655 | 0.023 | 15 | 12655 | 0.205 | 15 | 12655 | 0.228 |
| 18:00-18:30 | 15 | 12655 | 0.025 | 15 | 12655 | 0.095 | 15 | 12655 | 0.120 |
| 18:30-19:00 | 15 | 12655 | 0.024 | 15 | 12655 | 0.062 | 15 | 12655 | 0.086 |
| 19:00-19:30 | 1 | 11375 | 0.000 | 1 | 11375 | 0.062 | 1 | 11375 | 0.062 |
| 19:30-20:00 | 1 | 11375 | 0.018 | 1 | 11375 | 0.062 | 1 | 11375 | 0.080 |
| 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: |  |  | 1.727 |  |  | 1.864 |  |  | 3.591 |

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

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

## Parameter summary

Trip rate parameter range selected:
Survey date date range:
Number of weekdays (Monday-Friday):
645-43325 (units: sqm)

Number of Saturdays: 01/01/05-12/07/13

Number of Sundays:
15
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.

## Appendix 4

TRICS Data for Calver Park

## TRIP RATE for Land Use 14 - CAR SHOW ROOMS/A - CAR SHOW ROOMS

## VEHI CLES

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

|  | ARRIVALS |  |  | DEPARTURES |  |  | TOTALS |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Time Range | 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 | 3 | 4141 | 0.258 | 3 | 4141 | 0.089 | 3 | 4141 | 0.347 |
| 08:00-09:00 | 3 | 4141 | 0.708 | 3 | 4141 | 0.370 | 3 | 4141 | 1.078 |
| 09:00-10:00 | 3 | 4141 | 0.700 | 3 | 4141 | 0.419 | 3 | 4141 | 1.119 |
| 10:00-11:00 | 3 | 4141 | 0.427 | 3 | 4141 | 0.346 | 3 | 4141 | 0.773 |
| 11:00-12:00 | 3 | 4141 | 0.427 | 3 | 4141 | 0.410 | 3 | 4141 | 0.837 |
| 12:00-13:00 | 3 | 4141 | 0.475 | 3 | 4141 | 0.499 | 3 | 4141 | 0.974 |
| 13:00-14:00 | 3 | 4141 | 0.435 | 3 | 4141 | 0.435 | 3 | 4141 | 0.870 |
| 14:00-15:00 | 3 | 4141 | 0.443 | 3 | 4141 | 0.459 | 3 | 4141 | 0.902 |
| 15:00-16:00 | 3 | 4141 | 0.467 | 3 | 4141 | 0.459 | 3 | 4141 | 0.926 |
| 16:00-17:00 | 3 | 4141 | 0.314 | 3 | 4141 | 0.531 | 3 | 4141 | 0.845 |
| 17:00-18:00 | 3 | 4141 | 0.346 | 3 | 4141 | 0.467 | 3 | 4141 | 0.813 |
| 18:00-19:00 | 3 | 4141 | 0.080 | 3 | 4141 | 0.435 | 3 | 4141 | 0.515 |
| 19:00-20:00 | 1 | 3324 | 0.000 | 1 | 3324 | 0.602 | 1 | 3324 | 0.602 |
| 20:00-21:00 |  |  |  |  |  |  |  |  |  |
| 21:00-22:00 |  |  |  |  |  |  |  |  |  |
| 22:00-23:00 |  |  |  |  |  |  |  |  |  |
| 23:00-24:00 |  |  |  |  |  |  |  |  |  |
| Total Rates: |  |  | 5.080 |  |  | 5.521 |  |  | 10.601 |

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

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

## Parameter summary

Trip rate parameter range selected:
Survey date date range:
Number of weekdays (Monday-Friday):
Number of Saturdays:
Number of Sundays:
Surveys manually removed from selection:

3324-5700 (units: sqm)
01/01/07-24/09/13
3
0
0
1

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

TRIP RATE for Land Use 02 - EMPLOYMENT/C - INDUSTRIAL UNIT
VEHI CLES
Calculation factor: $\mathbf{1 0 0}$ sqm
BOLD print indicates peak (busiest) period

|  | ARRIVALS |  |  | DEPARTURES |  |  | TOTALS |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Time Range | No. Days | Ave. GFA | Trip Rate | No. Days | Ave. GFA | Trip Rate | No. Days | Ave. GFA | Trip 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 | 12 | 1961 | 0.119 | 12 | 1961 | 0.030 | 12 | 1961 | 0.149 |
| 07:30-08:00 | 12 | 1961 | 0.348 | 12 | 1961 | 0.025 | 12 | 1961 | 0.373 |
| 08:00-08:30 | 12 | 1961 | 0.259 | 12 | 1961 | 0.047 | 12 | 1961 | 0.306 |
| 08:30-09:00 | 12 | 1961 | 0.280 | 12 | 1961 | 0.098 | 12 | 1961 | 0.378 |
| 09:00-09:30 | 12 | 1961 | 0.136 | 12 | 1961 | 0.089 | 12 | 1961 | 0.225 |
| 09:30-10:00 | 12 | 1961 | 0.153 | 12 | 1961 | 0.106 | 12 | 1961 | 0.259 |
| 10:00-10:30 | 12 | 1961 | 0.115 | 12 | 1961 | 0.123 | 12 | 1961 | 0.238 |
| 10:30-11:00 | 12 | 1961 | 0.102 | 12 | 1961 | 0.085 | 12 | 1961 | 0.187 |
| 11:00-11:30 | 12 | 1961 | 0.102 | 12 | 1961 | 0.076 | 12 | 1961 | 0.178 |
| 11:30-12:00 | 12 | 1961 | 0.076 | 12 | 1961 | 0.076 | 12 | 1961 | 0.152 |
| 12:00-12:30 | 12 | 1961 | 0.076 | 12 | 1961 | 0.127 | 12 | 1961 | 0.203 |
| 12:30-13:00 | 12 | 1961 | 0.110 | 12 | 1961 | 0.149 | 12 | 1961 | 0.259 |
| 13:00-13:30 | 12 | 1961 | 0.132 | 12 | 1961 | 0.115 | 12 | 1961 | 0.247 |
| 13:30-14:00 | 12 | 1961 | 0.144 | 12 | 1961 | 0.089 | 12 | 1961 | 0.233 |
| 14:00-14:30 | 12 | 1961 | 0.136 | 12 | 1961 | 0.102 | 12 | 1961 | 0.238 |
| 14:30-15:00 | 12 | 1961 | 0.136 | 12 | 1961 | 0.132 | 12 | 1961 | 0.268 |
| 15:00-15:30 | 12 | 1961 | 0.081 | 12 | 1961 | 0.127 | 12 | 1961 | 0.208 |
| 15:30-16:00 | 12 | 1961 | 0.123 | 12 | 1961 | 0.157 | 12 | 1961 | 0.280 |
| 16:00-16:30 | 12 | 1961 | 0.106 | 12 | 1961 | 0.204 | 12 | 1961 | 0.310 |
| 16:30-17:00 | 12 | 1961 | 0.059 | 12 | 1961 | 0.348 | 12 | 1961 | 0.407 |
| 17:00-17:30 | 12 | 1961 | 0.025 | 12 | 1961 | 0.353 | 12 | 1961 | 0.378 |
| 17:30-18:00 | 12 | 1961 | 0.025 | 12 | 1961 | 0.221 | 12 | 1961 | 0.246 |
| 18:00-18:30 | 11 | 1694 | 0.000 | 11 | 1694 | 0.075 | 11 | 1694 | 0.075 |
| 18:30-19:00 | 11 | 1694 | 0.005 | 11 | 1694 | 0.043 | 11 | 1694 | 0.048 |
| 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: |  |  | 2.848 |  |  | 2.997 |  |  | 5.845 |

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 02 - EMPLOYMENT/F - WAREHOUSING (COMMERCIAL)
VEHI CLES
Calculation factor: $\mathbf{1 0 0}$ sqm
BOLD print indicates peak (busiest) period

|  | ARRIVALS |  |  | DEPARTURES |  |  | TOTALS |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Time Range | No. Days | Ave. GFA | Trip Rate | No. Days | Ave. GFA | Trip Rate | No. Days | Ave. GFA | Trip 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 | 7 | 2405 | 0.071 | 7 | 2405 | 0.048 | 7 | 2405 | 0.119 |
| 07:30-08:00 | 8 | 2198 | 0.148 | 8 | 2198 | 0.080 | 8 | 2198 | 0.228 |
| 08:00-08:30 | 8 | 2198 | 0.165 | 8 | 2198 | 0.051 | 8 | 2198 | 0.216 |
| 08:30-09:00 | 8 | 2198 | 0.188 | 8 | 2198 | 0.097 | 8 | 2198 | 0.285 |
| 09:00-09:30 | 8 | 2198 | 0.108 | 8 | 2198 | 0.148 | 8 | 2198 | 0.256 |
| 09:30-10:00 | 8 | 2198 | 0.074 | 8 | 2198 | 0.091 | 8 | 2198 | 0.165 |
| 10:00-10:30 | 8 | 2198 | 0.080 | 8 | 2198 | 0.063 | 8 | 2198 | 0.143 |
| 10:30-11:00 | 8 | 2198 | 0.074 | 8 | 2198 | 0.085 | 8 | 2198 | 0.159 |
| 11:00-11:30 | 8 | 2198 | 0.080 | 8 | 2198 | 0.074 | 8 | 2198 | 0.154 |
| 11:30-12:00 | 8 | 2198 | 0.097 | 8 | 2198 | 0.057 | 8 | 2198 | 0.154 |
| 12:00-12:30 | 8 | 2198 | 0.114 | 8 | 2198 | 0.125 | 8 | 2198 | 0.239 |
| 12:30-13:00 | 8 | 2198 | 0.125 | 8 | 2198 | 0.057 | 8 | 2198 | 0.182 |
| 13:00-13:30 | 8 | 2198 | 0.119 | 8 | 2198 | 0.131 | 8 | 2198 | 0.250 |
| 13:30-14:00 | 8 | 2198 | 0.097 | 8 | 2198 | 0.080 | 8 | 2198 | 0.177 |
| 14:00-14:30 | 8 | 2198 | 0.114 | 8 | 2198 | 0.136 | 8 | 2198 | 0.250 |
| 14:30-15:00 | 8 | 2198 | 0.125 | 8 | 2198 | 0.097 | 8 | 2198 | 0.222 |
| 15:00-15:30 | 8 | 2198 | 0.080 | 8 | 2198 | 0.142 | 8 | 2198 | 0.222 |
| 15:30-16:00 | 8 | 2198 | 0.119 | 8 | 2198 | 0.108 | 8 | 2198 | 0.227 |
| 16:00-16:30 | 8 | 2198 | 0.091 | 8 | 2198 | 0.125 | 8 | 2198 | 0.216 |
| 16:30-17:00 | 8 | 2198 | 0.080 | 8 | 2198 | 0.131 | 8 | 2198 | 0.211 |
| 17:00-17:30 | 8 | 2198 | 0.091 | 8 | 2198 | 0.148 | 8 | 2198 | 0.239 |
| 17:30-18:00 | 8 | 2198 | 0.045 | 8 | 2198 | 0.114 | 8 | 2198 | 0.159 |
| 18:00-18:30 | 8 | 2198 | 0.017 | 8 | 2198 | 0.108 | 8 | 2198 | 0.125 |
| 18:30-19:00 | 8 | 2198 | 0.000 | 8 | 2198 | 0.040 | 8 | 2198 | 0.040 |
| 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: |  |  | 2.302 |  |  | 2.336 |  |  | 4.638 |

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.

