## Appendix D

TRICS Data Report

## TRI P RATE CALCULATI ON SELECTI ON PARAMETERS:

| Land Use : 04 - EDUCATION |  |
| :--- | :--- |
| Category : A - PRIMARY |  |
| VEHI CLES |  |
| Selected regions and areas: |  |
| $\mathbf{0 2}$ | SOUTH EAST |
|  | SC SURREY |
| $\mathbf{0 4}$ | EAST ANGLIA |
|  | SF SUFFOLK |
| $\mathbf{0 5}$ | EAST MIDLANDS |
|  | NR NORTHAMPTONSHIRE |
| $\mathbf{1 1}$ | SCOTLAND |
|  | DU DUNDE CITY |
| $\mathbf{1 3}$ | FA FALKIRK |
| MUNSTER | 1 days |
|  | LI LIMERICK |

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

## Filtering Stage $\mathbf{2}$ selection:

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

| Parameter: | Number of pupils |
| :--- | :--- |
| Actual Range: | 400 to 800 (units: ) |
| Range Selected by User: | 400 to 1000 (units: ) |

Public Transport Provision:
Selection by: Include all surveys
Date Range: $\quad 01 / 01 / 07$ to $18 / 11 / 13$
This data displays the range of survey dates selected. Only surveys that were conducted within this date range are included in the trip rate calculation.

Selected survey days:

| Monday | 2 days |
| :--- | :--- |
| Wednesday | 2 days |
| Thursday | 1 days |
| Friday | 1 days |

This data displays the number of selected surveys by day of the week.
Selected survey types:

| Manual count | 6 days |
| :--- | :--- |
| Directional ATC Count | 0 days |

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

## Selected Locations:

Suburban Area (PPS6 Out of Centre) 4
Edge of Town 1
Neighbourhood Centre (PPS6 Local Centre) 1
This data displays the number of surveys per main location category within the selected set. The main location categories consist of Free Standing, Edge of Town, Suburban Area, Neighbourhood Centre, Edge of Town Centre, Town Centre and Not Known.

Selected Location Sub Categories:
Residential Zone 5
Village 1
This data displays the number of surveys per location sub-category within the selected set. The location sub-categories consist of Commercial Zone, Industrial Zone, Development Zone, Residential Zone, Retail Zone, Built-Up Zone, Village, Out

## Filtering Stage $\mathbf{3}$ selection:

Use Class:
D1 6 days

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

Population within 1 mile:

| 1,001 to 5,000 | 1 days |
| :--- | :--- |
| 5,001 to 10,000 | 1 days |
| 10,001 to 15,000 | 1 days |
| 15,001 to 20,000 | 1 days |
| 20,001 to 25,000 | 1 days |
| 25,001 to 50,000 | 1 days |

This data displays the number of selected surveys within stated 1-mile radii of population.
Population within 5 miles:
75,001 to 100,000
3 days
125,001 to 250,000
3 days

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

| 0.6 to 1.0 | 3 days |
| :--- | :--- |
| 1.1 to 1.5 | 3 days |

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

Travel Plan:

| Yes | 1 days |
| :--- | :--- |
| No | 5 days |

This data displays the number of surveys within the selected set that were undertaken at sites with Travel Plans in place, and the number of surveys that were undertaken at sites without Travel Plans.

## LIST OF SITES relevant to selection parameters

1 DU-04-A-01 PRI MARY SCHOOL
DUNDEE CITY
FALKLAND CRESCENT
BROUGHTY FERRY
DUNDEE
Suburban Area (PPS6 Out of Centre)
Residential Zone
Total Number of pupils: 412 Survey date: MONDAY 21/05/12
2 FA-04-A-03 PRIMARY SCHOOL
GLENDEVON DRIVE
MADDISTON
FALKIRK
Edge of Town
Residential Zone
Total Number of pupils:
452 Survey date: MONDAY 03/06/13
3 LI-04-A-01 PRIMARY SCHOOL
CORBALLY ROAD
LIMERICK
Suburban Area (PPS6 Out of Centre)
Residential Zone
Total Number of pupils:
800
Survey date: FRIDAY 24/06/11
Survey Type: MANUAL
4 NR-04-A-02 PRIMARY SCHOOL
DAYRELL ROAD
NORTHAMPTON
Suburban Area (PPS6 Out of Centre)
Residential Zone
Total Number of pupils: 400
Survey date: WEDNESDAY 26/11/0
5 SC-04-A-01 PRIMARY SCHOOL
SCHOOL LANE
PIRBRIGHT
NEAR WOKING
Neighbourhood Centre (PPS6 Local Centre)
Village
Total Number of pupils:
414
Survey date: THURSDAY 22/11/12
6 SF-04-A-02 PRIMARY SCHOOL
SIDEGATE LANE
IPSWICH
Suburban Area (PPS6 Out of Centre)
Residential Zone
Total Number of pupils:
Survey date: WEDNESDAY
657
21/05/08 Survey Type: MANUAL
This section provides a list of all survey sites and days in the selected set. For each individual survey site, it displays a unique site reference code and site address, the selected trip rate calculation parameter and its value, the day of the week and date of each survey, and whether the survey was a manual classified count or an ATC count.

## TRIP RATE for Land Use 04 - EDUCATION/A - PRIMARY

## VEHI CLES

Calculation factor: 1 PUPI LS
BOLD print indicates peak (busiest) period

| Time Range | ARRIVALS |  |  | DEPARTURES |  |  | TOTALS |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | No. Days | Ave. PUPILS | Trip Rate | No. Days | Ave. PUPILS | Trip Rate | No. Days | Ave. PUPILS | 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 | 6 | 523 | 0.028 | 6 | 523 | 0.005 | 6 | 523 | 0.033 |
| 08:00-09:00 | 6 | 523 | 0.158 | 6 | 523 | 0.080 | 6 | 523 | 0.238 |
| 09:00-10:00 | 6 | 523 | 0.040 | 6 | 523 | 0.057 | 6 | 523 | 0.097 |
| 10:00-11:00 | 6 | 523 | 0.013 | 6 | 523 | 0.009 | 6 | 523 | 0.022 |
| 11:00-12:00 | 6 | 523 | 0.014 | 6 | 523 | 0.017 | 6 | 523 | 0.031 |
| 12:00-13:00 | 6 | 523 | 0.023 | 6 | 523 | 0.022 | 6 | 523 | 0.045 |
| 13:00-14:00 | 6 | 523 | 0.024 | 6 | 523 | 0.022 | 6 | 523 | 0.046 |
| 14:00-15:00 | 6 | 523 | 0.049 | 6 | 523 | 0.033 | 6 | 523 | 0.082 |
| 15:00-16:00 | 6 | 523 | 0.062 | 6 | 523 | 0.099 | 6 | 523 | 0.161 |
| 16:00-17:00 | 6 | 523 | 0.031 | 6 | 523 | 0.074 | 6 | 523 | 0.105 |
| 17:00-18:00 | 6 | 523 | 0.017 | 6 | 523 | 0.027 | 6 | 523 | 0.044 |
| 18:00-19:00 | 5 | 547 | 0.025 | 5 | 547 | 0.018 | 5 | 547 | 0.043 |
| 19:00-20:00 |  |  |  |  |  |  |  |  |  |
| 20:00-21:00 |  |  |  |  |  |  |  |  |  |
| 21:00-22:00 |  |  |  |  |  |  |  |  |  |
| 22:00-23:00 |  |  |  |  |  |  |  |  |  |
| 23:00-24:00 |  |  |  |  |  |  |  |  |  |
| Total Rates: |  |  | 0.484 |  |  | 0.463 |  |  | 0.947 |

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:
400-800 (units: )
Survey date date range:
01/01/07-18/11/13
Number of weekdays (Monday-Friday):
6
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.

TMME
00:00-01:00 01:00-02:00 02:00-03:00 03:00-04:00 04:00-05:00 05:00-06:00 06:00-07:00 07:00-08:00 08:00-09:00 09:00-10:00 10:00-11:00 11:00-12:00 12:00-13:00 13:00-14:00 14:00-15:00 15:00-16:00 16:00-17:00 17:00-18:00 18:00-19:00 19:00-20:00 20:00-21:00 21:00-22:00 22:00-23:00 23:00-24:00

RATE \% TRIPRATEGRAPH-ARRIVALS 04-EDUCATION A-PRIMARY VEHIQLES


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

TMME
00:00-01:00 01:00-02:00 02:00-03:00 03:00-04:00 04:00-05:00 05:00-06:00 06:00-07:00 07:00-08:00 08:00-09:00 09:00-10:00 10:00-11:00 11:00-12:00 12:00-13:00 13:00-14:00 14:00-15:00 15:00-16:00 16:00-17:00 17:00-18:00 18:00-19:00 19:00-20:00 20:00-21:00 21:00-22:00 22:00-23:00 23:00-24:00

RATE \% TRIPRATEGRAPH-DEPARTLRES O4-EDUCATION A-PRIMARY VBICLES


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

TME
00:00-01:00 01:00-02:00 02:00-03:00 03:00-04:00 04:00-05:00 05:00-06:00 06:00-07:00 07:00-08:00 08:00-09:00 09:00-10:00 10:00-11:00 11:00-12:00 12:00-13:00 13:00-14:00 14:00-15:00 15:00-16:00 16:00-17:00 17:00-18:00 18:00-19:00 19:00-20:00 20:00-21:00 21:00-22:00 22:00-23:00 23:00-24:00

RATE \% TRIPRATEGRAPH-TOTALS 04-EDUCATION A-PRIMARY VEHCLES


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

## TRIP RATE for Land Use 04 - EDUCATION/A - PRIMARY

## TAXIS

Calculation factor: 1 PUPI LS
BOLD print indicates peak (busiest) period

| Time Range | ARRIVALS |  |  | DEPARTURES |  |  | TOTALS |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | No. Days | Ave. PUPILS | Trip Rate | No. Days | Ave. PUPILS | Trip Rate | No. Days | Ave. PUPILS | 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 | 6 | 523 | 0.000 | 6 | 523 | 0.000 | 6 | 523 | 0.000 |
| 08:00-09:00 | 6 | 523 | 0.004 | 6 | 523 | 0.003 | 6 | 523 | 0.007 |
| 09:00-10:00 | 6 | 523 | 0.000 | 6 | 523 | 0.002 | 6 | 523 | 0.002 |
| 10:00-11:00 | 6 | 523 | 0.000 | 6 | 523 | 0.000 | 6 | 523 | 0.000 |
| 11:00-12:00 | 6 | 523 | 0.001 | 6 | 523 | 0.000 | 6 | 523 | 0.001 |
| 12:00-13:00 | 6 | 523 | 0.001 | 6 | 523 | 0.001 | 6 | 523 | 0.002 |
| 13:00-14:00 | 6 | 523 | 0.000 | 6 | 523 | 0.001 | 6 | 523 | 0.001 |
| 14:00-15:00 | 6 | 523 | 0.001 | 6 | 523 | 0.001 | 6 | 523 | 0.002 |
| 15:00-16:00 | 6 | 523 | 0.001 | 6 | 523 | 0.002 | 6 | 523 | 0.003 |
| 16:00-17:00 | 6 | 523 | 0.000 | 6 | 523 | 0.000 | 6 | 523 | 0.000 |
| 17:00-18:00 | 6 | 523 | 0.000 | 6 | 523 | 0.000 | 6 | 523 | 0.000 |
| 18:00-19:00 | 5 | 547 | 0.000 | 5 | 547 | 0.000 | 5 | 547 | 0.000 |
| 19:00-20:00 |  |  |  |  |  |  |  |  |  |
| 20:00-21:00 |  |  |  |  |  |  |  |  |  |
| 21:00-22:00 |  |  |  |  |  |  |  |  |  |
| 22:00-23:00 |  |  |  |  |  |  |  |  |  |
| 23:00-24:00 |  |  |  |  |  |  |  |  |  |
| Total Rates: |  |  | 0.008 |  |  | 0.010 |  |  | 0.018 |

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

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## Parameter summary

Trip rate parameter range selected:
400-800 (units: )
Survey date date range:
01/01/07-18/11/13
Number of weekdays (Monday-Friday):
6
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 ${ }^{\circledR}$ 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.

TME
00:00-01:00 01:00-02:00 02:00-03:00 03:00-04:00 04: 00-05:00 05:00-06:00 06:00-07:00 07:00-08:00 08:00-09:00 09:00-10:00 10:00-11:00 11:00-12:00 12:00-13:00 13:00-14:00 14:00-15:00 15:00-16:00 16:00-17:00 17:00-18:00 18:00-19:00 19:00-20:00 20:00-21:00 21:00-22:00 22:00-23:00 23:00-24:00

RATE \% TRIPRATEGRAPH-ARRIVALS O4-EDUCATION A-PRIMARY TAXIS


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

TMME
00:00-01:00 01:00-02:00 02:00-03:00 03:00-04:00 04: 00-05:00 05:00-06:00 06:00-07:00 07:00-08:00 08:00-09:00 09:00-10:00 10:00-11:00 11:00-12:00 12:00-13:00 13:00-14:00 14:00-15:00 15:00-16:00 16:00-17:00 17:00-18:00 18:00-19:00 19:00-20:00 20:00-21:00 21:00-22:00 22:00-23:00 23:00-24:00

RATE \% TRIPRATEGRAPH-DEPARTURES O4-EDUCATION A-PRIMARY TAXIS


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

## TME

RATE \% TRIPRATEGRAPH-TOTALS 04-EDUCATION A-PRIMARY TAXIS
00:00-01:00 01:00-02:00 02:00-03:00 03:00-04:00 04: 00-05:00 05:00-06:00 06:00-07:00 07:00-08:00 08:00-09:00 09:00-10:00 10:00-11:00 11: 00-12:00 12:00-13:00 13:00-14:00 14:00-15:00 15:00-16:00 16:00-17:00 17:00-18:00 18:00-19:00 19:00-20:00 20:00-21:00 21:00-22:00 22:00-23:00 23:00-24:00


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

TRIP RATE for Land Use 04 - EDUCATION/A - PRIMARY
OGVS
Calculation factor: 1 PUPI LS
BOLD print indicates peak (busiest) period

|  | ARRIVALS |  |  | DEPARTURES |  |  | TOTALS |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Time Range | No. Days | Ave. PUPILS | Trip Rate | $\begin{aligned} & \text { No. } \\ & \text { Days } \end{aligned}$ | Ave. PUPILS | Trip Rate | No. Days | Ave. PUPILS | 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 | 6 | 523 | 0.000 | 6 | 523 | 0.000 | 6 | 523 | 0.000 |
| 08:00-09:00 | 6 | 523 | 0.000 | 6 | 523 | 0.000 | 6 | 523 | 0.000 |
| 09:00-10:00 | 6 | 523 | 0.000 | 6 | 523 | 0.000 | 6 | 523 | 0.000 |
| 10:00-11:00 | 6 | 523 | 0.000 | 6 | 523 | 0.000 | 6 | 523 | 0.000 |
| 11:00-12:00 | 6 | 523 | 0.000 | 6 | 523 | 0.000 | 6 | 523 | 0.000 |
| 12:00-13:00 | 6 | 523 | 0.000 | 6 | 523 | 0.000 | 6 | 523 | 0.000 |
| 13:00-14:00 | 6 | 523 | 0.000 | 6 | 523 | 0.000 | 6 | 523 | 0.000 |
| 14:00-15:00 | 6 | 523 | 0.000 | 6 | 523 | 0.000 | 6 | 523 | 0.000 |
| 15:00-16:00 | 6 | 523 | 0.000 | 6 | 523 | 0.000 | 6 | 523 | 0.000 |
| 16:00-17:00 | 6 | 523 | 0.000 | 6 | 523 | 0.000 | 6 | 523 | 0.000 |
| 17:00-18:00 | 6 | 523 | 0.000 | 6 | 523 | 0.000 | 6 | 523 | 0.000 |
| 18:00-19:00 | 5 | 547 | 0.000 | 5 | 547 | 0.000 | 5 | 547 | 0.000 |
| 19:00-20:00 |  |  |  |  |  |  |  |  |  |
| 20:00-21:00 |  |  |  |  |  |  |  |  |  |
| 21:00-22:00 |  |  |  |  |  |  |  |  |  |
| 22:00-23:00 |  |  |  |  |  |  |  |  |  |
| 23:00-24:00 |  |  |  |  |  |  |  |  |  |
| Total Rates: |  |  | 0.000 |  |  | 0.000 |  |  | 0.000 |

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

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

## Parameter summary

Trip rate parameter range selected:
400-800 (units: )
Survey date date range:
Number of weekdays (Monday-Friday):
01/01/07-18/11/13
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.

TIME RATE \% TRIPRATEGRAPH-ARRIVALSFORSITE:FA-O4-A-03 OGVS
00:00-01:00 01:00-02:00 02:00-03:00 03:00-04:00 04:00-05:00 05:00-06:00 06:00-07:00 07:00-08:00 08:00-09:00 09:00-10:00 10:00-11:00 11:00-12:00 12:00-13:00 13:00-14:00 14:00-15:00 15:00-16:00 16:00-17:00 17:00-18:00 18:00-19:00 19:00-20:00 20:00-21:00 21:00-22:00 22:00-23:00 23:00-24:00 02:00-03:00 8:00-19:00


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

TIME RATE \% TRIPRATEGRAPH-DEPARTURESFORSITE: FA-04-A-03 OGVS
00:00-01:00 01:00-02:00 02:00-03:00 03:00-04:00 04:00-05:00 05:00-06:00 06:00-07:00 07:00-08:00 08:00-09:00 09:00-10:00 10:00-11:00 11:00-12:00 12:00-13:00 13:00-14:00 14:00-15:00 15:00-16:00 16:00-17:00 17:00-18:00 18:00-19:00 19:00-20:00 20:00-21:00 21:00-22:00 22:00-23:00 23:00-24:00


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

TIME RATE \% TRIPRATEGRAPH-TOTALSFOR SITE: FA-O4-A-03 OGVS
00:00-01:00 01:00-02:00 02:00-03:00 03:00-04:00 04:00-05:00 05:00-06:00 06:00-07:00 07:00-08:00 08:00-09:00 09:00-10:00 10:00-11:00 11:00-12:00 12:00-13:00 13:00-14:00 14:00-15:00 15:00-16:00 16:00-17:00 17:00-18:00 18:00-19:00 19:00-20:00 20:00-21:00 21:00-22:00 22:00-23:00 23:00-24:00


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

TRIP RATE for Land Use 04 - EDUCATION/A - PRIMARY
PSVS
Calculation factor: 1 PUPI LS
BOLD print indicates peak (busiest) period

|  | ARRIVALS |  |  | DEPARTURES |  |  | TOTALS |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Time Range | No. Days | Ave. PUPILS | Trip Rate | No. Days | Ave. PUPILS | Trip Rate | No. Days | Ave. PUPILS | 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 | 6 | 523 | 0.000 | 6 | 523 | 0.000 | 6 | 523 | 0.000 |
| 08:00-09:00 | 6 | 523 | 0.000 | 6 | 523 | 0.000 | 6 | 523 | 0.000 |
| 09:00-10:00 | 6 | 523 | 0.000 | 6 | 523 | 0.000 | 6 | 523 | 0.000 |
| 10:00-11:00 | 6 | 523 | 0.000 | 6 | 523 | 0.000 | 6 | 523 | 0.000 |
| 11:00-12:00 | 6 | 523 | 0.001 | 6 | 523 | 0.001 | 6 | 523 | 0.002 |
| 12:00-13:00 | 6 | 523 | 0.000 | 6 | 523 | 0.000 | 6 | 523 | 0.000 |
| 13:00-14:00 | 6 | 523 | 0.001 | 6 | 523 | 0.001 | 6 | 523 | 0.002 |
| 14:00-15:00 | 6 | 523 | 0.001 | 6 | 523 | 0.000 | 6 | 523 | 0.001 |
| 15:00-16:00 | 6 | 523 | 0.001 | 6 | 523 | 0.001 | 6 | 523 | 0.002 |
| 16:00-17:00 | 6 | 523 | 0.000 | 6 | 523 | 0.000 | 6 | 523 | 0.000 |
| 17:00-18:00 | 6 | 523 | 0.000 | 6 | 523 | 0.000 | 6 | 523 | 0.000 |
| 18:00-19:00 | 5 | 547 | 0.000 | 5 | 547 | 0.000 | 5 | 547 | 0.000 |
| 19:00-20:00 |  |  |  |  |  |  |  |  |  |
| 20:00-21:00 |  |  |  |  |  |  |  |  |  |
| 21:00-22:00 |  |  |  |  |  |  |  |  |  |
| 22:00-23:00 |  |  |  |  |  |  |  |  |  |
| 23:00-24:00 |  |  |  |  |  |  |  |  |  |
| Total Rates: |  |  | 0.004 |  |  | 0.003 |  |  | 0.007 |

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:
400-800 (units: )
Survey date date range:
Number of weekdays (Monday-Friday):
01/01/07-18/11/13
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.

TME
00:00-01:00 01:00-02:00 02:00-03:00 03:00-04:00 04:00-05:00 05:00-06:00 06:00-07:00 07:00-08:00 08:00-09:00 09:00-10:00 10:00-11:00 11:00-12:00 12:00-13:00 13:00-14:00 14:00-15:00 15:00-16:00 16:00-17:00 17:00-18:00 18:00-19:00 19:00-20:00 20:00-21:00 21:00-22:00 22:00-23:00 23:00-24:00

RATE \% TRIPRATEGRAPH - ARRIVALSFOR SITE: FA-04-A-03 PSVS


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

TME
00:00-01:00 01:00-02:00 02:00-03:00 03:00-04:00 04: 00-05:00 05:00-06:00 06:00-07:00 07:00-08:00 08:00-09:00 09:00-10:00 10:00-11:00 11:00-12:00 12:00-13:00 13:00-14:00 14:00-15:00 15:00-16:00 16:00-17:00 17:00-18:00 18:00-19:00 19:00-20:00 20:00-21:00 21:00-22:00 22:00-23:00 23:00-24:00

RATE \% TRIPRATE GRAPH-DEPARTLRESFOR SITE: FA-04-A-03 PSVS


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

TME
00:00-01:00 01:00-02:00 02:00-03:00 03:00-04:00 04:00-05:00 05:00-06:00 06:00-07:00 07:00-08:00 08:00-09:00 09:00-10:00 10:00-11:00 11:00-12:00 12:00-13:00 13:00-14:00 14:00-15:00 15:00-16:00 16:00-17:00 17:00-18:00 18:00-19:00 19:00-20:00 20:00-21:00 21:00-22:00 22:00-23:00 23:00-24:00

RATE \% TRIPRATE GRAPH-TOTALSFOR SITE: FA-O4-A-03 PSVS


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

TRIP RATE for Land Use 04 - EDUCATION/A - PRIMARY
CYCLI STS

## Calculation factor: 1 PUPI LS

BOLD print indicates peak (busiest) period

| Time Range | ARRIVALS |  |  | DEPARTURES |  |  | TOTALS |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | No. Days | Ave. PUPILS | Trip Rate | No. Days | Ave. PUPILS | Trip Rate | No. Days | Ave. PUPILS | 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 | 6 | 523 | 0.002 | 6 | 523 | 0.000 | 6 | 523 | 0.002 |
| 08:00-09:00 | 6 | 523 | 0.004 | 6 | 523 | 0.001 | 6 | 523 | 0.005 |
| 09:00-10:00 | 6 | 523 | 0.001 | 6 | 523 | 0.001 | 6 | 523 | 0.002 |
| 10:00-11:00 | 6 | 523 | 0.000 | 6 | 523 | 0.001 | 6 | 523 | 0.001 |
| 11:00-12:00 | 6 | 523 | 0.000 | 6 | 523 | 0.000 | 6 | 523 | 0.000 |
| 12:00-13:00 | 6 | 523 | 0.000 | 6 | 523 | 0.000 | 6 | 523 | 0.000 |
| 13:00-14:00 | 6 | 523 | 0.000 | 6 | 523 | 0.000 | 6 | 523 | 0.000 |
| 14:00-15:00 | 6 | 523 | 0.000 | 6 | 523 | 0.000 | 6 | 523 | 0.000 |
| 15:00-16:00 | 6 | 523 | 0.002 | 6 | 523 | 0.001 | 6 | 523 | 0.003 |
| 16:00-17:00 | 6 | 523 | 0.000 | 6 | 523 | 0.004 | 6 | 523 | 0.004 |
| 17:00-18:00 | 6 | 523 | 0.000 | 6 | 523 | 0.001 | 6 | 523 | 0.001 |
| 18:00-19:00 | 5 | 547 | 0.000 | 5 | 547 | 0.000 | 5 | 547 | 0.000 |
| 19:00-20:00 |  |  |  |  |  |  |  |  |  |
| 20:00-21:00 |  |  |  |  |  |  |  |  |  |
| 21:00-22:00 |  |  |  |  |  |  |  |  |  |
| 22:00-23:00 |  |  |  |  |  |  |  |  |  |
| 23:00-24:00 |  |  |  |  |  |  |  |  |  |
| Total Rates: |  |  | 0.009 |  |  | 0.009 |  |  | 0.018 |

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:
400-800 (units: )
Survey date date range:
Number of weekdays (Monday-Friday):
01/01/07-18/11/13
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.

TME
00:00-01:00 01:00-02:00 02:00-03:00 03:00-04:00 04:00-05:00 05:00-06:00 06:00-07:00 07:00-08:00 08:00-09:00 09:00-10:00 10:00-11:00 11:00-12:00 12:00-13:00 13:00-14:00 14:00-15:00 15:00-16:00 16:00-17:00 17:00-18:00 18:00-19:00 19:00-20:00 20:00-21:00 21:00-22:00 22:00-23:00 23:00-24:00

RATE \% TRIPRATEGRAPH-ARRIVALS 04-EDUCATION A-PRIMARY CYCLSTS


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

TME
00:00-01:00 01:00-02:00 02:00-03:00 03:00-04:00 04: 00-05:00 05:00-06:00 06:00-07:00 07:00-08:00 08:00-09:00 09:00-10:00 10:00-11:00 11:00-12:00 12:00-13:00 13:00-14:00 14:00-15:00 15:00-16:00 16:00-17:00 17:00-18:00 18:00-19:00 19:00-20:00 20:00-21:00 21:00-22:00 22:00-23:00 23:00-24:00

RATE \% TRIPRATEGRAPH-DEPARTLRES O4-EDUCATION A-PRIMARY CYCUSTS


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

## TME

RATE \% TRIPRATEGRAPH-TOTALS 04-EUUCATION A -PRIMARY CYCLISTS
00:00-01:00 01:00-02:00 02:00-03:00 03:00-04:00 04: 00-05:00 05:00-06:00 06:00-07:00 07:00-08:00 08:00-09:00 09:00-10:00 10:00-11:00 11:00-12:00 12:00-13:00 13:00-14:00 14:00-15:00 15:00-16:00 16:00-17:00 17:00-18:00 18:00-19:00 19:00-20:00 20:00-21:00 21:00-22:00 22:00-23:00 23:00-24:00


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

## Appendix E

## Car Occupancy Levels

## Average group size for travel to school

We have considered a number of schools across the South East specifically in Surrey and Kent. This has found that an average occupancy level of 1.5 is consistent across the South East and and can be applied in East Sussex.

## Surrey example

TA and STP supporting that application, is shown in the extract from the STP below.

## How students and staff currently travel to school

Date of survey 06/11/2014

| Means of transport | Number of <br> students | Percentage | Number <br> of staff | Percentage |
| :--- | :--- | :--- | :--- | :--- |
| Walk | 176 | 31 | 17 | 17 |
| Walking Bus | 35 | 6 | 2 | 2 |
| Cycle |  |  |  |  |
| Micro-Scooter | 48 | 8 |  |  |
| Park' ${ }^{\prime}$ Stride | 163 | 29 |  |  |
| Car share ${ }^{*}$ |  |  | 80 | 79 |
| Car passenger | 10 | 2 | 1 | 1 |
| Car driver | 132 | 23 | 1 | 1 |
| Train | 5 | 1 |  |  |
| Taxi | 569 | 100 | 101 | 100 |
| Public Bus | School Bus |  |  |  |
| Other | Total no. of <br> respondents |  |  |  |

* NB - car sharing means travelling in the car with people who live at a different address to you.

Student response rate:100\% Staff response rate: 100\%
The $8 \%$ recorded as 'car share', however, does not translate into an escort ratio of 1.08 . The $8 \%$ must be considered in relation to the $29 \%$ recorded as car passenger, and the consequent total by car of $37 \%$ of all pupils. The average group size (escort ratio) for those travelling by car would therefore be 37/29 = 1.28.

However, that figure itself is an under-estimate of the true escort ratio across the whole school population due to the way the travel data is categorised. As is normal in STPs, those recorded as car sharing in all the examples referred to by SCC (including the Bishop David Brown school) specifically excludes all siblings from the same household who car share with each other (see standard definition at foot of extract table above). The figure for car share only includes children from different families sharing. This somewhat anomalous approach leads to a significant under-recording of the true extent of
car sharing across all pupils, and therefore to a significant over-estimate of the consequential number of car vehicle journeys involved.

Nationally, 2011 Census shows the following:

- $47 \%$ of families 1 with dependent children 2 have 1 dependent child;
- $39 \%$ of families with dependent children have 2 dependent children;
- $14 \%$ of families with dependent children have $3+$ dependent children.

Locally the figures are $42 \%$ @ 1 child, $42 \%$ @ 2 children, and 16\% at 3+.

The total number of dependent children per 100 families with dependent children in Woking is therefore $42+(42 * 2)+(16 * 3)=174$ (of whom 132 , or $76 \%$, of the total are from families with more than 1 dependent children, and 42 or $24 \%$ from families with only 1 dependent child). Overall, the average number of dependent children in all families with 1 or more dependent children $=1.74$. More simply put, the average family sending children to school sends 1.74 children.

It follows therefore that, if all siblings from a family with more than 1 dependent child travelled to/from school with each other, the escort ratio across all children attending school would also $=1.74$. That is certainly likely to be the norm for children travelling to school by car. Two influences would determine to what extent a figure of 1.74 is achieved at any particular Primary or Secondary school:

- The proportion of siblings attending the same school - Schools Admissions policy favours and prioritises 'siblings' even above 'home-school distance'. Given the competition for school places, and the 'hassle' of transporting children to different schools (which is one stated reason for sibling priority), it is very unlikely that a family would not take advantage of the 'siblings priority' when seeking a school place for second and subsequent siblings.
- The average 'school years gap' between siblings which would determine the proportion of siblings who could attend the same school - For a 7-year-group secondary school, a typical 2 year school years gap means that for only 5 of the 7 years would two siblings be of secondary school age and for only 3 of the 7 years would three siblings be of secondary school age. Using the above 2011 Census data for Woking, the total number of secondary school age dependent children per 100 families would be:

$$
(42 * 1)+(42 * 2 * 5 / 7)+(16 * 2 * 2 / 7)+(16 * 3 * 3 / 7)=131.71
$$

Of which 42 (32\%) would be single children and 89.71 (68\%) would be siblings. The average travelling group size (across the whole school population) resulting only from siblings travelling together would therefore be 1.32. For families with siblings, the average travelling group size

[^0]would be 89.71/ $(42+16)=1.55$; for families with only one dependent child, the average travelling group size would be 1.0

Combining the two 'markets':

- The $68 \%$ of all 100 pupils that are siblings would have an average travelling group size of 1.55;
- The $32 \%$ of all 100 pupils who are not siblings could (according to the Bishop David Brown school example) have a car share component giving an average travelling group size of 1.28;
- The overall school population average travelling group size (i.e. the escort ratio) would therefore be (68\%*1.55) $+(32 \% * 1.28)=1.464$.

The extent of car sharing amongst different families would be a key target for the proposed STP, and a better result than achieved at Bishop David Brown School would be expected.

## Kent example

## Average group size for travel to school by car

Inevitably, some children travel to/from school by car. This creates vehicular travel and parking demands. Important in determining the number of trips and parking requirement is the escort ratio - the average number of pupils travelling in a group by car to/from school, excluding the person doing the escorting (e.g. parent).
In School Travel Plans the \% recorded as 'car share' does not translate directly into an escort ratio. If taken as such, this can substantially under-estimate the true escort ratio across the whole school population due to the way the STP travel data is categorised. In STPs, those recorded as car sharing specifically excludes all siblings from the same household who car share with each other. The STP figure for car share only includes sharing by children from different families.
Because car sharing amongst siblings is very different from car sharing between families, this somewhat anomalous approach significantly under-records the true extent of car sharing across all pupils, and therefore can lead to a significant over-estimate of the consequential number of car vehicle journeys involved for a given school population.
Nationally, 2011 Census shows the following:

| FAMILIES WITH DEPENDENT CHILDREN3 AGED 0-11 (UK TOTALS - 2011 CENSUS) |  |  |  |  |
| :--- | :--- | :--- | :--- | :--- |
|  | TOTAL | TOTAL WITH AT LEAST 1 <br> CHILD AGED 5 OR MORE |  |  |
| \% TOTAL |  |  |  |  |
| $\mathbf{1 ~ C H I L D ~ A G E D ~ 5 - 1 1 ~}$ | 810729 | 810729 | 810729 | $21 \%$ |
| $\mathbf{2}$ CHILDREN YOUNGEST <br> $\mathbf{0 - 4}$ | 1131967 | 792377 (Note 1) | $\}$ <br> $\}$ 1908797 | $49.5 \%$ |
| $\mathbf{2}$ CHILDREN YOUNGEST <br> $\mathbf{5 - 1 1}$ | 1116420 | 1116420 |  |  |
| $\mathbf{3}$ CHILDREN YOUNGEST <br> $\mathbf{0 - 4}$ | 664556 | 664556 (Note 1) | $\}$ |  |
| $\mathbf{3}$ CHILDREN YOUNGEST <br> $\mathbf{5 - 1 1}$ | 476689 | 476689 | 1141245 | $29.5 \%$ |
| TOTAL | 4200361 | 3860771 | 3860771 | $100 \%$ |

[^1]Note 1: Assumes average age gap between siblings $=2$ years

Locally in Medway the 2011 Census shows very similar proportions:

| FAMILIES WITH DEPENDENT CHILDREN AGED 0-11 (MEDWAY - 2011 CENSUS) |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: |
|  | TOTAL | TOTAL WITH AT LEAST 1 CHILD AGED 5 OR MORE |  | \% TOTAL |
| 1 CHILD AGED 5-11 | 3464 | 3464 | 3464 | 20\% |
| 2 CHILDREN YOUNGEST $0-4$ | 5203 | 3642 (Note 1) | $\begin{aligned} & \} \\ & \} \\ & \hline \end{aligned}$ | 51\% |
| 2 CHILDREN YOUNGEST 5-11 | 5239 | 5239 |  |  |
| 3 CHILDREN YOUNGEST 0-4 | 2961 | 2961 (Note 1) | $\begin{aligned} & \} \\ & \} 5154 \end{aligned}$ | 29\% |
| 3 CHILDREN YOUNGEST 5-11 | 2193 | 2193 |  |  |
| TOTAL | 19060 | 17499 | 17499 | 100\% |

Note 1: Assumes average age gap between siblings $=2$ years

The total number of dependent children aged 5 or more per 100 relevant families (i.e. with at least 1 child aged 5 or more) in Medway is therefore $20+(51 * 2)+(29 * 3)=209$, i.e. an average of 2.09 children per family.

Converting this to an average escort ratio for siblings travelling to school by car depends on the following:

- Whether siblings would travel together - this is certainly likely to be the norm for children travelling to school by car;
- The proportion of primary school age siblings attending the same school - Schools Admissions policy favours and prioritises 'siblings' even above 'home-school distance'. Given the competition for school places, and the 'hassle' of transporting children to different schools (which is one stated reason for the sibling priority policy), it is very unlikely that a family would not take advantage of the 'siblings priority' when seeking a school place for second and subsequent siblings.
- The average 'school years gap' between siblings which would determine the proportion of siblings who would be of the right age that they could attend the same primary school - For a 7-year-group primary school, a typical 2 year school years gap means that for only 5 of the 7 years would two siblings be of primary school age and for only 3 of the 7 years would three siblings be of primary school age. Using the above 2011 Census data for Medway, the total number of primary school age dependent children per 100 families would be:

$$
(20 * 1)+(51 * 2 * 5 / 7)+(29 * 2 * 2 / 7)+(29 * 3 * 3 / 7)=146.71
$$

The average travelling group size (across the whole primary school population) resulting only from siblings travelling together would therefore be 1.47. For families with siblings, the average travelling
group size would be 1.58; for families with only one dependent child, the average travelling group size would be 1.0.

STPs typically record between-family car share of $10 \%$ or more. Combining the two 'markets':

- The $80 \%$ of all 100 pupils that are siblings would have an average travelling group size of 1.58;
- The $20 \%$ of all 100 pupils who are not siblings could typically have a car share component giving an average travelling group size of 1.10;
- The overall school population average travelling group size (i.e. the escort ratio) would therefore be $(80 \% * 1.58)+(20 \% * 1.10)=1.484$.

The extent of car sharing between different families would be a key target for any STP, and a better result than assumed could be expected.

In light of the above, the assumption that the overall escort ratio (taking both siblings and non-siblings into account) would be 1.5 is considered robust and achievable.


[^0]:    1 Single or multiple adults in any relationship, with children
    2 Dependent children are those living with their parent(s) and either (a) aged under 16, or (b) aged 16 to 18 in full-time education, excluding children aged 16 to 18 who have a spouse, partner or child living in the household

[^1]:    3 Dependent children are those living with their parent(s) and either (a) aged under 16, or (b) aged 16 to 18 in full-time education, excluding children aged 16 to 18 who have a spouse, partner or child living in the household

