

Technical Note

Project Number: T24544

Project: Croxley Green

Title: TN3 – All Modes Travel Demand

Date: 01/09/2025

Prepared By: GM

Distribution List: TfL, Herts CC, National Highways

Floor 1B
4 Temple Row
Birmingham
B2 5HG

Background

- 1.1 Hub Transport Planning Ltd has been commissioned by Richborough Estates to provide transport advice to support the planning application for a residential-led mixed-use development on land to the north of Little Green Lane, Croxley Green (planning application reference 24/2073/OUT).
- 1.2 Consultation responses have been received from the various highway authorities. All of the transport authorities have asked that the development looks to maximise travel by sustainable modes of travel including; improving active travel routes, cycle parking, bus access, potential contribution towards step-free access at Croxley Station.
- 1.3 The latest response from Transport for London (TfL) has requested a 'full multi-modal trip assessment' to be provided.

Purpose of this Note

- 1.4 The purpose of this note is to provide a full multi-modal trip assessment for the proposed development based on a TRICS trip rate assessment of the proposed development in order that TfL can consider the likely development impact on the transport network for which they are responsible and, if appropriate, indicate a fair and reasonable contribution towards step-free access at Croxley Station along with scheme details, costings, and details of funding for the proposal..

Active and Sustainable Measures

- 1.5 The following measures are currently proposed to assist active and sustainable travel at the site:
 - Inclusion of a Beryl Bikes scheme within the development Square.
 - Provision of a shared footway/cycleway around the site.
 - Provision of a new footway/cycleway via Canterbury Way/Dover Way/Links Way to Croxley Danes School.
 - New footpath connections to Little Green Lane and towards Little Green Junior School.
 - Potential improvements to signage via Rousebarn Lane, via Cassiobury Farm and Fishery, towards Gade Avenue, and Watford Station.
 - A new bus service from the site to access both Watford and Croxley Stations.

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Proposed Bus Service

- 1.6 The public transport team at Hertfordshire County Council (HCC) has provided a detailed routing and timetable for a bus service between the site and local facilities/transport hubs. Several options were presented, and the development team considers that the most appropriate level of service frequency is the highest quality service proposed. A potential routing and timetable for the service is presented below.

Watford - Croxley Green - Rickmansworth																										22
Monday to Saturday																										
Watford Junction Railway Station (Stop 5)		07:00	07:30	08:00	08:30	09:00	09:30	10:00	10:30	11:00	11:30	12:00	12:30	13:00	13:30	14:00	14:30	15:00	15:30	16:00	16:30	17:00	17:30	18:00	18:30	
Watford, Beechen Grove (Stop M)		07:03	07:33	08:03	08:33	09:03	09:33	10:03	10:33	11:03	11:33	12:03	12:33	13:03	13:33	14:03	14:33	15:03	15:33	16:03	16:33	17:03	17:33	18:03	18:33	
Watford, High Street (Stop F)	06:36	07:06	07:36	08:06	08:36	09:06	09:36	10:06	10:36	11:06	11:36	12:06	12:36	13:06	13:36	14:06	14:36	15:06	15:36	16:06	16:36	17:06	17:36	18:06	18:36	
Watford Metropolitan Station	06:41	07:11	07:41	08:11	08:41	09:11	09:41	10:11	10:41	11:11	11:41	12:11	12:41	13:11	13:41	14:11	14:41	15:11	15:41	16:11	16:41	17:11	17:41	18:11	18:41	
Croxley Green, Two Bridges (Stop C)	06:45	07:15	07:45	08:15	08:45	09:15	09:45	10:15	10:45	11:15	11:45	12:15	12:45	13:15	13:45	14:15	14:45	15:15	15:45	16:15	16:45	17:15	17:45	18:15	18:45	
Croxley Green, Little Green Lane Estate	06:50	07:20	07:50	08:20	08:50	09:20	09:50	10:20	10:50	11:20	11:50	12:20	12:50	13:20	13:50	14:20	14:50	15:20	15:50	16:20	16:50	17:20	17:50	18:20	18:50	
Croxley Green, Repton Way/Owens Way	06:55	07:25	07:55	08:25	08:55	09:25	09:55	10:25	10:55	11:25	11:55	12:25	12:55	13:25	13:55	14:25	14:55	15:25	15:55	16:25	16:55	17:25	17:55	18:25	18:55	
Rickmansworth Railway Station (Stop A)	07:06	07:36	08:06	08:36	09:06	09:36	10:06	10:36	11:06	11:36	12:06	12:36	13:06	13:36	14:06	14:36	15:06	15:36	16:06	16:36	17:06	17:36	18:06	18:36	19:06	
Miles	6.2	7.3	7.3	7.3	7.3	7.3	7.3	7.3	7.3	7.3	7.3	7.3	7.3	7.3	7.3	7.3	7.3	7.3	7.3	7.3	7.3	7.3	7.3	7.3	7.3	
Rickmansworth Railway Station (Stop A)	06:45	07:15	07:45	08:15	08:45	09:15	09:45	10:15	10:45	11:15	11:45	12:15	12:45	13:15	13:45	14:15	14:45	15:15	15:45	16:15	16:45	17:15	17:45	18:15		
Croxley Green, Repton Way/Owens Way	06:55	07:25	07:55	08:25	08:55	09:25	09:55	10:25	10:55	11:25	11:55	12:25	12:55	13:25	13:55	14:25	14:55	15:25	15:55	16:25	16:55	17:25	17:55	18:25		
Croxley Green, Little Green Lane Estate	07:00	07:30	08:00	08:30	09:00	09:30	10:00	10:30	11:00	11:30	12:00	12:30	13:00	13:30	14:00	14:30	15:00	15:30	16:00	16:30	17:00	17:30	18:00	18:30		
Croxley Green, Two Bridges (Stop A)	07:04	07:34	08:04	08:34	09:04	09:34	10:04	10:34	11:04	11:34	12:04	12:34	13:04	13:34	14:04	14:34	15:04	15:34	16:04	16:34	17:04	17:34	18:04	18:34		
Watford Metropolitan Station	07:07	07:37	08:07	08:37	09:07	09:37	10:07	10:37	11:07	11:37	12:07	12:37	13:07	13:37	14:07	14:37	15:07	15:37	16:07	16:37	17:07	17:37	18:07	18:37		
Watford, Town Hall (Stop W)	07:11	07:41	08:11	08:41	09:11	09:41	10:11	10:41	11:11	11:41	12:11	12:41	13:11	13:41	14:11	14:41	15:11	15:41	16:11	16:41	17:11	17:41	18:11	18:41		
Watford, High Street (Stop B)	07:14	07:44	08:14	08:44	09:14	09:44	10:14	10:44	11:14	11:44	12:14	12:44	13:14	13:44	14:14	14:44	15:14	15:44	16:14	16:44	17:14	17:44	18:14			
Watford, Clarendon Road (Stop S)	07:17	07:47	08:17	08:47	09:17	09:47	10:17	10:47	11:17	11:47	12:17	12:47	13:17	13:47	14:17	14:47	15:17	15:47	16:17	16:47	17:17	17:47	18:17			
Watford Junction Railway Station (Stop 5)	07:20	07:50	08:20	08:50	09:20	09:50	10:20	10:50	11:20	11:50	12:20	12:50	13:20	13:50	14:20	14:50	15:20	15:50	16:20	16:50	17:20	17:50	18:20			
Miles	7.5	7.5	7.5	7.5	7.5	7.5	7.5	7.5	7.5	7.5	7.5	7.5	7.5	7.5	7.5	7.5	7.5	7.5	7.5	7.5	7.5	7.5	7.5	7.5	6.0	

- 1.7 The route serves Watford Junction Railway Station, Watford, Watford Metropolitan Station, Croxley Green development and estate to the south, close to Croxley Station, and on to Rickmansworth Railway Station.

Multi-Modal Trip Assessment

- 1.8 The proposals to improve active and sustainable travel from the site will undoubtedly greatly enhance the active and sustainable travel options from the site. Whilst adopting this vision-led approach and recognising the potential for improved active and sustainable transport modal shift, capacity analysis within the Transport Assessment provides a robust assessment based on 'traditional' trip rates and sensitivity analysis based on potential model shift.

Residential trips

- 1.9 The revised Transport Assessment Rev C (TA) includes multi-modal trip rates for the proposed residential development, and it is those trip rates that are considered in this Technical Note. The TRICS output is included here as **Appendix A** and summarised for peak hour movements in **Table 1**.
- 1.10 Peak hour analysis is considered the most appropriate measure for consideration of the likely impact of the development on active travel and public transport infrastructure and services.

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Table 1 – TRICS Analysis - Trip Rates and Forecast Trips by Mode – Peak Hours

Mode	Peak Period	Trip Rate (per dwelling)		Trips (600 Dwellings)		Total
		In	Out	In	Out	
Cycle	AM	0.003	0.013	2	8	10
	PM	0.011	0.005	7	3	10
Walk	AM	0.029	0.120	17	72	89
	PM	0.044	0.034	26	20	46
Taxis	AM	0.005	0.005	3	3	6
	PM	0.002	0.002	1	1	2
OGVs	AM	0.002	0.002	1	1	2
	PM	0.001	0.001	1	1	2
Bus/Tram Passengers	AM	0.003	0.023	2	14	16
	PM	0.013	0.004	8	2	10
Rail Passengers	AM	0.000	0.004	0	2	2
	PM	0.004	0.000	2	0	2
Coach Passengers	AM	0.000	0.004	0	2	2
	PM	0.001	0.000	1	0	1
Public Transport Users	AM	0.003	0.031	2	19	21
	PM	0.017	0.004	10	2	12
Cars	AM	0.119	0.343	71	206	277
	PM	0.293	0.154	176	92	268
LGVs	AM	0.015	0.026	9	16	25
	PM	0.032	0.014	19	8	27
Motorcycles	AM	0.000	0.002	0	1	1
	PM	0.004	0.002	2	1	3
Total People	AM	0.211	0.800	127	480	607
	PM	0.570	0.286	342	172	514

- 1.11 Based solely on the TRICS data outlined above, the residential element of the development is forecast to generate just 21 public transport trips in the AM peak hour and 12 public transport trips in the PM peak hour.
- 1.12 We consider that such forecasts are too low for the location of the development and the available and proposed level of public transport services that will be available at the site. It is not possible to get a number of sites in the TRICS database to fully reflect the active/sustainable travel network available to residents. It was for that reason that Census data was utilised to establish the observed use of the public transport network in a nearby mid-super output area (MSOA) from the Census data.

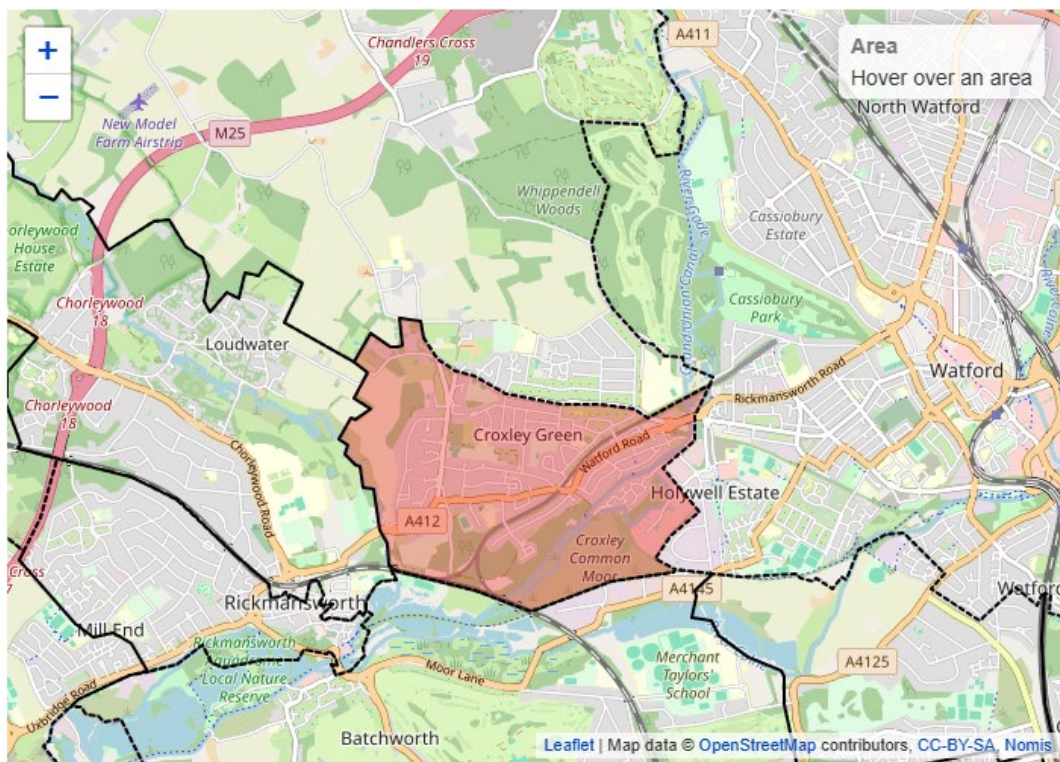
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Other Uses

- 1.13 We have already established with Hertfordshire County Council (HCC) as the Local Highway Authority (LHA) that trips to/from the other uses on site; small scale local retail, doctors' surgery, and primary school will be very local to the development and will primarily be undertaken internal to the site or via short distance journeys from surrounding areas. These uses will not impact upon the use of Croxley Station.

Census Data - Potential Use of Public Transport

- 1.14 The proposals to improve active and sustainable travel from the site will undoubtedly greatly enhance the active and sustainable travel options from the site. Whilst adopting this vision-led approach and recognising the potential for improved active and sustainable transport modal shift, capacity analysis within the Transport Assessment provides a robust assessment based on 'traditional' trip rates and sensitivity analysis based on potential model shift.
- 1.15 When considering the potential use of the underground network we have examined 2011 Census data for the Croxley area, the 2021 Census data being unduly influenced by the Covid epidemic.
- 1.16 Two MSOAs were considered as a proxy for the prediction of public transport usage at the development site; MSOA E02004958: Three Rivers 003 and MSOA E02004961: Three Rivers 006. Although the development lies within Three Rivers 003 this MSOA is largely rural and not considered an appropriate proxy. Therefore, the MSOA Three Rivers 006, which lies just to the south (highlighted below), has been used as the most appropriate proxy. The observed multi-modal transport use in that area is provided in **Appendix B**.



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- 1.17 The spreadsheet indicates that underground, metro, light rail, or tram accounted for 17% of typical JTW trips in this area based on the 2011 Census. The JTW Census indicates 0% working from home, for whatever reason, and that figure would certainly be much higher at the present day. The 17% figure also includes rail trips. For these reasons 17% may be a slightly high initial estimate of use of the underground for the proposed development but, as we are looking to promote such use by improving bus, walk, and cycle links locally, including towards the Underground stations, the 17% figure would seem a good target for the site.
- 1.18 Taking 17% as forecast/target use of the Underground, we would have 0.17×600 homes $\times$ working population per dwelling = demand for underground use. Assuming 1.5 working adults per dwelling, that gives 153 trips for JTW purposes. It is reasonable to assume that these trips will be split equally between Croxley Station and Watford Station, especially as our proposed bus service will run to both stations and there is little difference in walk times to the stations; i.e. we might expect about 76 trips from the development per peak hour at each station.
- 1.19 As an alternative, and on the same assumptions as above, if the 17% figure was applied to the 'total people' forecasted from TRICS data we arrive at 103 AM trips on the underground and 87 PM trips. A maximum of 52 underground trips from the development at either station in any peak hour.
- 1.20 We welcome the thoughts of TfL in respect of these forecasts, and we look forward to receiving the previously requested details/plans in relation to; existing use of Croxley Station, the proposals for step-free access, costing information, the proposed funding sources for the step-free access proposal, and likely timescales for implementation.
- 1.21 For completeness, based on the TRICS multimodal outputs, one would expect no more than 16 bus based trips in any peak hour. Of course, the development will be providing a half-hourly bus service that directly links the site to Watford and Rickmansworth and important transport interchanges. We fully expect the public transport proposals, linked to existing public transport and allied with active travel modes, to lead to a 15% reduction in standard trip rates/forecasts for use of the single-occupancy private car.
- 1.22 The development proposal is already demonstrating a high level of commitment to public transport and active travel enhancement. The promoter welcomes the opportunity to contribute to proposed improvements at Croxley Station in a fair and proportionate way.

Appendix A

TRICS Output

Calculation Reference: AUDIT-141301-250506-0534

TRIP RATE CALCULATION SELECTION PARAMETERS:

Land Use : 03 - RESIDENTIAL
Category : M - MIXED PRIVATE/AFFORDABLE HOUSING
MULTI-MODAL TOTAL VEHICLES

Selected regions and areas:

02	SOUTH EAST	
	ES EAST SUSSEX	2 days
	HC HAMPSHIRE	5 days
	HF HERTFORDSHIRE	1 days
	SC SURREY	1 days
	WS WEST SUSSEX	2 days
03	SOUTH WEST	
	WL WILTSHIRE	1 days
04	EAST ANGLIA	
	NF NORFOLK	4 days
06	WEST MIDLANDS	
	WK WARWICKSHIRE	1 days

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

Primary Filtering selection:

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

Parameter: No of Dwellings
 Actual Range: 208 to 544 (units:)
 Range Selected by User: 200 to 800 (units:)

Parking Spaces Range: All Surveys Included

Parking Spaces per Dwelling Range: All Surveys Included

Bedrooms per Dwelling Range: All Surveys Included

Percentage of dwellings privately owned: All Surveys Included

Public Transport Provision:

Selection by: Include all surveys

Date Range: 01/01/16 to 26/06/24

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

Selected survey days:

Monday	1 days
Tuesday	4 days
Wednesday	7 days
Thursday	4 days
Friday	1 days

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

Selected survey types:

Manual count	17 days
Directional ATC Count	0 days

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

Selected Locations:

Suburban Area (PPS6 Out of Centre)	1
Edge of Town	13
Neighbourhood Centre (PPS6 Local Centre)	3

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

Selected Location Sub Categories:

Residential Zone	11
Village	2
Out of Town	2
No Sub Category	2

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

Inclusion of Servicing Vehicles Counts:

Servicing vehicles Included	6 days - Selected
Servicing vehicles Excluded	16 days - Selected

Secondary Filtering selection:

Use Class:

C3 17 days

This data displays the number of surveys per Use Class classification within the selected set. The Use Classes Order (England) 2020 has been used for this purpose, which can be found within the Library module of TRICS®.

Population within 500m Range:

All Surveys Included

Population within 1 mile:

1,001 to 5,000	2 days
5,001 to 10,000	4 days
10,001 to 15,000	9 days
20,001 to 25,000	2 days

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

Population within 5 miles:

5,001 to 25,000	2 days
25,001 to 50,000	2 days
50,001 to 75,000	6 days
100,001 to 125,000	1 days
125,001 to 250,000	4 days
250,001 to 500,000	2 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	4 days
1.1 to 1.5	12 days
1.6 to 2.0	1 days

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

Travel Plan:

Yes	15 days
No	2 days

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

PTAL Rating:

No PTAL Present	17 days
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This data displays the number of selected surveys with PTAL Ratings.

LIST OF SITES relevant to selection parameters

1	ES-03-M-11	MIXED HOUSES & FLATS	EAST SUSSEX
	HEMPSTEAD LANE		
	HAILSHAM		
	UPPER HORSEBRIDGE		
	Edge of Town		
	Residential Zone		
	Total No of Dwellings:	354	
	Survey date: WEDNESDAY	13/07/16	Survey Type: MANUAL
2	ES-03-M-21	MIXED HOUSES & FLATS	EAST SUSSEX
	NEW ROAD		
	HAILSHAM		
	HELLINGLY		
	Edge of Town		
	Residential Zone		
	Total No of Dwellings:	392	
	Survey date: MONDAY	28/03/22	Survey Type: MANUAL
3	HC-03-M-11	MIXED HOUSES & FLATS	HAMPSHIRE
	ALDERMASTON ROAD		
	BASINGSTOKE		
	Edge of Town		
	No Sub Category		
	Total No of Dwellings:	238	
	Survey date: THURSDAY	07/03/19	Survey Type: MANUAL
4	HC-03-M-17	MIXED HOUSES & FLATS	HAMPSHIRE
	RAWLINGS LANE		
	ALTON		
	Edge of Town		
	Residential Zone		
	Total No of Dwellings:	275	
	Survey date: WEDNESDAY	12/10/22	Survey Type: MANUAL
5	HC-03-M-19	MIXED HOUSES & FLATS	HAMPSHIRE
	WINCHESTER ROAD		
	BASINGSTOKE		
	Edge of Town		
	Residential Zone		
	Total No of Dwellings:	286	
	Survey date: TUESDAY	27/06/23	Survey Type: MANUAL
6	HC-03-M-20	MIXED HOUSES & FLATS	HAMPSHIRE
	DAIRY ROAD		
	ANDOVER		
	Edge of Town		
	Residential Zone		
	Total No of Dwellings:	314	
	Survey date: TUESDAY	28/11/23	Survey Type: MANUAL
7	HC-03-M-22	MIXED HOUSES & FLATS	HAMPSHIRE
	HAVANT ROAD		
	HAVANT		
	BEDHAMPTON		
	Edge of Town		
	Residential Zone		
	Total No of Dwellings:	248	
	Survey date: THURSDAY	07/03/24	Survey Type: MANUAL

LIST OF SITES relevant to selection parameters (Cont.)

8	HF-03-M-06 THIEVES LANE HERTFORD	MIXED HOUSES & FLATS	HERTFORDSHIRE
	Edge of Town Residential Zone Total No of Dwellings: 208 Survey date: TUESDAY 12/03/24		Survey Type: MANUAL
9	NF-03-M-02 CAWSTON ROAD AYLSHAM	MIXED HOUSES	NORFOLK
	Edge of Town Out of Town Total No of Dwellings: 250 Survey date: TUESDAY 17/09/19		Survey Type: MANUAL
10	NF-03-M-14 NORWICH COMMON WYMONDHAM	MIXED HOUSES & FLATS	NORFOLK
	Edge of Town Residential Zone Total No of Dwellings: 321 Survey date: THURSDAY 19/09/19		Survey Type: MANUAL
11	NF-03-M-46 DEREHAM ROAD NORWICH	MIXED HOUSES & FLATS	NORFOLK
	Edge of Town No Sub Category Total No of Dwellings: 338 Survey date: WEDNESDAY 15/09/21		Survey Type: MANUAL
12	NF-03-M-62 CAWSTON ROAD AYLSHAM	MIXED HOUSES	NORFOLK
	Edge of Town Out of Town Total No of Dwellings: 250 Survey date: WEDNESDAY 21/09/22		Survey Type: MANUAL
13	SC-03-M-15 HERSHAM ROAD WALTON-ON-THAMES HERSHAM Neighbourhood Centre (PPS6 Local Centre) Residential Zone Total No of Dwellings: 296 Survey date: WEDNESDAY 26/06/24	MIXED HOUSES & FLATS	SURREY
14	WK-03-M-01 BIRMINGHAM ROAD STRATFORD UPON AVON	MIXED HOUSES & FLATS	WARWICKSHIRE
	Edge of Town Residential Zone Total No of Dwellings: 395 Survey date: FRIDAY 29/06/18		Survey Type: MANUAL

LIST OF SITES relevant to selection parameters (Cont.)

15	WL-03-M-04	MIXED HOUSES & FLATS	WILTSHIRE
	WARNEFORD CRESCENT		
	NEAR SALISBURY		
	LONGHEDGE		
	Neighbourhood Centre (PPS6 Local Centre)		
	Village		
	Total No of Dwellings:		544
	Survey date: THURSDAY		18/11/21
			Survey Type: MANUAL
16	WS-03-M-16	MIXED FLATS & HOUSES	WEST SUSSEX
	BROYLE ROAD		
	CHICHESTER		
	Suburban Area (PPS6 Out of Centre)		
	Residential Zone		
	Total No of Dwellings:		252
	Survey date: WEDNESDAY		21/03/18
			Survey Type: MANUAL
17	WS-03-M-27	MIXED HOUSES	WEST SUSSEX
	COPTHORNE WAY		
	NEAR CRAWLEY		
	COPTHORNE		
	Neighbourhood Centre (PPS6 Local Centre)		
	Village		
	Total No of Dwellings:		292
	Survey date: WEDNESDAY		22/11/23
			Survey Type: MANUAL

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

MANUALLY DESELECTED SITES

Site Ref	Reason for Deselection
HC-03-M-14	COVID
KC-03-M-04	COVID

TRIP RATE for Land Use 03 - RESIDENTIAL/M - MIXED PRIVATE/AFFORDABLE HOUSING
MULTI-MODAL TOTAL VEHICLES
 Calculation factor: 1 DWELLS
 BOLD print indicates peak (busiest) period
 Total People to Total Vehicles ratio (all time periods and directions): 1.72

Time Range	ARRIVALS			DEPARTURES			TOTALS		
	No. Days	Ave. DWELLS	Trip Rate	No. Days	Ave. DWELLS	Trip Rate	No. Days	Ave. DWELLS	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	17	309	0.085	17	309	0.300	17	309	0.385
08:00 - 09:00	17	309	0.143	17	309	0.381	17	309	0.524
09:00 - 10:00	17	309	0.132	17	309	0.152	17	309	0.284
10:00 - 11:00	17	309	0.109	17	309	0.131	17	309	0.240
11:00 - 12:00	17	309	0.125	17	309	0.126	17	309	0.251
12:00 - 13:00	17	309	0.144	17	309	0.134	17	309	0.278
13:00 - 14:00	17	309	0.140	17	309	0.146	17	309	0.286
14:00 - 15:00	17	309	0.148	17	309	0.178	17	309	0.326
15:00 - 16:00	17	309	0.264	17	309	0.172	17	309	0.436
16:00 - 17:00	17	309	0.287	17	309	0.174	17	309	0.461
17:00 - 18:00	17	309	0.333	17	309	0.173	17	309	0.506
18:00 - 19:00	17	309	0.288	17	309	0.146	17	309	0.434
19:00 - 20:00									
20:00 - 21:00									
21:00 - 22:00									
22:00 - 23:00									
23:00 - 24:00									
Total Rates:			2.198			2.213			4.411

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

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

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Parameter summary

Trip rate parameter range selected:

208 - 544 (units:)

Survey date date range:

01/01/16 - 26/06/24

Number of weekdays (Monday-Friday):

17

Number of Saturdays:

0

Number of Sundays:

0

Surveys automatically removed from selection:

3

Surveys manually removed from selection:

2

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 03 - RESIDENTIAL/M - MIXED PRIVATE/AFFORDABLE HOUSING
 MULTI-MODAL TAXIS
 Calculation factor: 1 DWELLS
 BOLD print indicates peak (busiest) period

Time Range	ARRIVALS			DEPARTURES			TOTALS		
	No. Days	Ave. DWELLS	Trip Rate	No. Days	Ave. DWELLS	Trip Rate	No. Days	Ave. DWELLS	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	17	309	0.006	17	309	0.006	17	309	0.012
08:00 - 09:00	17	309	0.005	17	309	0.005	17	309	0.010
09:00 - 10:00	17	309	0.003	17	309	0.002	17	309	0.005
10:00 - 11:00	17	309	0.002	17	309	0.002	17	309	0.004
11:00 - 12:00	17	309	0.002	17	309	0.002	17	309	0.004
12:00 - 13:00	17	309	0.002	17	309	0.002	17	309	0.004
13:00 - 14:00	17	309	0.002	17	309	0.002	17	309	0.004
14:00 - 15:00	17	309	0.003	17	309	0.003	17	309	0.006
15:00 - 16:00	17	309	0.004	17	309	0.004	17	309	0.008
16:00 - 17:00	17	309	0.004	17	309	0.004	17	309	0.008
17:00 - 18:00	17	309	0.002	17	309	0.002	17	309	0.004
18:00 - 19:00	17	309	0.002	17	309	0.002	17	309	0.004
19:00 - 20:00									
20:00 - 21:00									
21:00 - 22:00									
22:00 - 23:00									
23:00 - 24:00									
Total Rates:			0.037			0.036			0.073

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 03 - RESIDENTIAL/M - MIXED PRIVATE/AFFORDABLE HOUSING
 MULTI-MODAL OGVS
 Calculation factor: 1 DWELLS
 BOLD print indicates peak (busiest) period

Time Range	ARRIVALS			DEPARTURES			TOTALS		
	No. Days	Ave. DWELLS	Trip Rate	No. Days	Ave. DWELLS	Trip Rate	No. Days	Ave. DWELLS	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	17	309	0.002	17	309	0.001	17	309	0.003
08:00 - 09:00	17	309	0.002	17	309	0.002	17	309	0.004
09:00 - 10:00	17	309	0.002	17	309	0.003	17	309	0.005
10:00 - 11:00	17	309	0.002	17	309	0.002	17	309	0.004
11:00 - 12:00	17	309	0.002	17	309	0.002	17	309	0.004
12:00 - 13:00	17	309	0.001	17	309	0.002	17	309	0.003
13:00 - 14:00	17	309	0.001	17	309	0.001	17	309	0.002
14:00 - 15:00	17	309	0.001	17	309	0.001	17	309	0.002
15:00 - 16:00	17	309	0.001	17	309	0.001	17	309	0.002
16:00 - 17:00	17	309	0.001	17	309	0.001	17	309	0.002
17:00 - 18:00	17	309	0.001	17	309	0.001	17	309	0.002
18:00 - 19:00	17	309	0.000	17	309	0.000	17	309	0.000
19:00 - 20:00									
20:00 - 21:00									
21:00 - 22:00									
22:00 - 23:00									
23:00 - 24:00									
Total Rates:			0.016			0.017			0.033

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 03 - RESIDENTIAL/M - MIXED PRIVATE/AFFORDABLE HOUSING
 MULTI-MODAL PSVS
 Calculation factor: 1 DWELLS
 BOLD print indicates peak (busiest) period

Time Range	ARRIVALS			DEPARTURES			TOTALS		
	No. Days	Ave. DWELLS	Trip Rate	No. Days	Ave. DWELLS	Trip Rate	No. Days	Ave. DWELLS	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	17	309	0.001	17	309	0.001	17	309	0.002
08:00 - 09:00	17	309	0.002	17	309	0.002	17	309	0.004
09:00 - 10:00	17	309	0.000	17	309	0.000	17	309	0.000
10:00 - 11:00	17	309	0.000	17	309	0.000	17	309	0.000
11:00 - 12:00	17	309	0.001	17	309	0.001	17	309	0.002
12:00 - 13:00	17	309	0.001	17	309	0.001	17	309	0.002
13:00 - 14:00	17	309	0.000	17	309	0.000	17	309	0.000
14:00 - 15:00	17	309	0.001	17	309	0.000	17	309	0.001
15:00 - 16:00	17	309	0.001	17	309	0.001	17	309	0.002
16:00 - 17:00	17	309	0.001	17	309	0.002	17	309	0.003
17:00 - 18:00	17	309	0.000	17	309	0.000	17	309	0.000
18:00 - 19:00	17	309	0.000	17	309	0.000	17	309	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			0.008			0.016

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 03 - RESIDENTIAL/M - MIXED PRIVATE/AFFORDABLE HOUSING
MULTI-MODAL CYCLISTS
Calculation factor: 1 DWELLS
BOLD print indicates peak (busiest) period

Time Range	ARRIVALS			DEPARTURES			TOTALS		
	No. Days	Ave. DWELLS	Trip Rate	No. Days	Ave. DWELLS	Trip Rate	No. Days	Ave. DWELLS	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	17	309	0.002	17	309	0.010	17	309	0.012
08:00 - 09:00	17	309	0.003	17	309	0.013	17	309	0.016
09:00 - 10:00	17	309	0.003	17	309	0.004	17	309	0.007
10:00 - 11:00	17	309	0.002	17	309	0.002	17	309	0.004
11:00 - 12:00	17	309	0.003	17	309	0.004	17	309	0.007
12:00 - 13:00	17	309	0.004	17	309	0.003	17	309	0.007
13:00 - 14:00	17	309	0.002	17	309	0.003	17	309	0.005
14:00 - 15:00	17	309	0.003	17	309	0.004	17	309	0.007
15:00 - 16:00	17	309	0.013	17	309	0.004	17	309	0.017
16:00 - 17:00	17	309	0.007	17	309	0.004	17	309	0.011
17:00 - 18:00	17	309	0.011	17	309	0.005	17	309	0.016
18:00 - 19:00	17	309	0.007	17	309	0.005	17	309	0.012
19:00 - 20:00									
20:00 - 21:00									
21:00 - 22:00									
22:00 - 23:00									
23:00 - 24:00									
Total Rates:			0.060			0.061			0.121

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

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 03 - RESIDENTIAL/M - MIXED PRIVATE/AFFORDABLE HOUSING
 MULTI-MODAL VEHICLE OCCUPANTS
 Calculation factor: 1 DWELLS
 BOLD print indicates peak (busiest) period

Time Range	ARRIVALS			DEPARTURES			TOTALS		
	No. Days	Ave. DWELLS	Trip Rate	No. Days	Ave. DWELLS	Trip Rate	No. Days	Ave. DWELLS	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	17	309	0.098	17	309	0.430	17	309	0.528
08:00 - 09:00	17	309	0.175	17	309	0.636	17	309	0.811
09:00 - 10:00	17	309	0.169	17	309	0.210	17	309	0.379
10:00 - 11:00	17	309	0.139	17	309	0.182	17	309	0.321
11:00 - 12:00	17	309	0.160	17	309	0.169	17	309	0.329
12:00 - 13:00	17	309	0.188	17	309	0.181	17	309	0.369
13:00 - 14:00	17	309	0.194	17	309	0.199	17	309	0.393
14:00 - 15:00	17	309	0.200	17	309	0.233	17	309	0.433
15:00 - 16:00	17	309	0.455	17	309	0.236	17	309	0.691
16:00 - 17:00	17	309	0.433	17	309	0.245	17	309	0.678
17:00 - 18:00	17	309	0.497	17	309	0.243	17	309	0.740
18:00 - 19:00	17	309	0.420	17	309	0.208	17	309	0.628
19:00 - 20:00									
20:00 - 21:00									
21:00 - 22:00									
22:00 - 23:00									
23:00 - 24:00									
Total Rates:			3.128			3.172			6.300

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 03 - RESIDENTIAL/M - MIXED PRIVATE/AFFORDABLE HOUSING
MULTI-MODAL PEDESTRIANS
Calculation factor: 1 DWELLS
BOLD print indicates peak (busiest) period

Time Range	ARRIVALS			DEPARTURES			TOTALS		
	No. Days	Ave. DWELLS	Trip Rate	No. Days	Ave. DWELLS	Trip Rate	No. Days	Ave. DWELLS	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	17	309	0.020	17	309	0.038	17	309	0.058
08:00 - 09:00	17	309	0.029	17	309	0.120	17	309	0.149
09:00 - 10:00	17	309	0.037	17	309	0.026	17	309	0.063
10:00 - 11:00	17	309	0.020	17	309	0.020	17	309	0.040
11:00 - 12:00	17	309	0.022	17	309	0.024	17	309	0.046
12:00 - 13:00	17	309	0.029	17	309	0.031	17	309	0.060
13:00 - 14:00	17	309	0.028	17	309	0.027	17	309	0.055
14:00 - 15:00	17	309	0.028	17	309	0.035	17	309	0.063
15:00 - 16:00	17	309	0.099	17	309	0.045	17	309	0.144
16:00 - 17:00	17	309	0.053	17	309	0.033	17	309	0.086
17:00 - 18:00	17	309	0.044	17	309	0.034	17	309	0.078
18:00 - 19:00	17	309	0.039	17	309	0.037	17	309	0.076
19:00 - 20:00									
20:00 - 21:00									
21:00 - 22:00									
22:00 - 23:00									
23:00 - 24:00									
Total Rates:			0.448			0.470			0.918

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 03 - RESIDENTIAL/M - MIXED PRIVATE/AFFORDABLE HOUSING
 MULTI-MODAL BUS/TRAM PASSENGERS
 Calculation factor: 1 DWELLS
 BOLD print indicates peak (busiest) period

Time Range	ARRIVALS			DEPARTURES			TOTALS		
	No. Days	Ave. DWELLS	Trip Rate	No. Days	Ave. DWELLS	Trip Rate	No. Days	Ave. DWELLS	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	17	309	0.003	17	309	0.027	17	309	0.030
08:00 - 09:00	17	309	0.003	17	309	0.023	17	309	0.026
09:00 - 10:00	17	309	0.004	17	309	0.006	17	309	0.010
10:00 - 11:00	17	309	0.006	17	309	0.007	17	309	0.013
11:00 - 12:00	17	309	0.006	17	309	0.008	17	309	0.014
12:00 - 13:00	17	309	0.006	17	309	0.006	17	309	0.012
13:00 - 14:00	17	309	0.007	17	309	0.007	17	309	0.014
14:00 - 15:00	17	309	0.010	17	309	0.007	17	309	0.017
15:00 - 16:00	17	309	0.018	17	309	0.005	17	309	0.023
16:00 - 17:00	17	309	0.023	17	309	0.008	17	309	0.031
17:00 - 18:00	17	309	0.013	17	309	0.004	17	309	0.017
18:00 - 19:00	17	309	0.010	17	309	0.004	17	309	0.014
19:00 - 20:00									
20:00 - 21:00									
21:00 - 22:00									
22:00 - 23:00									
23:00 - 24:00									
Total Rates:			0.109			0.112			0.221

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 03 - RESIDENTIAL/M - MIXED PRIVATE/AFFORDABLE HOUSING
 MULTI-MODAL TOTAL RAIL PASSENGERS
 Calculation factor: 1 DWELLS
 BOLD print indicates peak (busiest) period

Time Range	ARRIVALS			DEPARTURES			TOTALS		
	No. Days	Ave. DWELLS	Trip Rate	No. Days	Ave. DWELLS	Trip Rate	No. Days	Ave. DWELLS	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	17	309	0.000	17	309	0.005	17	309	0.005
08:00 - 09:00	17	309	0.000	17	309	0.004	17	309	0.004
09:00 - 10:00	17	309	0.000	17	309	0.000	17	309	0.000
10:00 - 11:00	17	309	0.000	17	309	0.002	17	309	0.002
11:00 - 12:00	17	309	0.000	17	309	0.001	17	309	0.001
12:00 - 13:00	17	309	0.001	17	309	0.001	17	309	0.002
13:00 - 14:00	17	309	0.001	17	309	0.001	17	309	0.002
14:00 - 15:00	17	309	0.000	17	309	0.001	17	309	0.001
15:00 - 16:00	17	309	0.001	17	309	0.000	17	309	0.001
16:00 - 17:00	17	309	0.002	17	309	0.000	17	309	0.002
17:00 - 18:00	17	309	0.004	17	309	0.000	17	309	0.004
18:00 - 19:00	17	309	0.004	17	309	0.000	17	309	0.004
19:00 - 20:00									
20:00 - 21:00									
21:00 - 22:00									
22:00 - 23:00									
23:00 - 24:00									
Total Rates:			0.013			0.015			0.028

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 03 - RESIDENTIAL/M - MIXED PRIVATE/AFFORDABLE HOUSING
 MULTI-MODAL COACH PASSENGERS
 Calculation factor: 1 DWELLS
 BOLD print indicates peak (busiest) period

Time Range	ARRIVALS			DEPARTURES			TOTALS		
	No. Days	Ave. DWELLS	Trip Rate	No. Days	Ave. DWELLS	Trip Rate	No. Days	Ave. DWELLS	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	17	309	0.000	17	309	0.001	17	309	0.001
08:00 - 09:00	17	309	0.000	17	309	0.004	17	309	0.004
09:00 - 10:00	17	309	0.000	17	309	0.000	17	309	0.000
10:00 - 11:00	17	309	0.000	17	309	0.000	17	309	0.000
11:00 - 12:00	17	309	0.000	17	309	0.000	17	309	0.000
12:00 - 13:00	17	309	0.000	17	309	0.000	17	309	0.000
13:00 - 14:00	17	309	0.000	17	309	0.000	17	309	0.000
14:00 - 15:00	17	309	0.000	17	309	0.000	17	309	0.000
15:00 - 16:00	17	309	0.003	17	309	0.000	17	309	0.003
16:00 - 17:00	17	309	0.001	17	309	0.000	17	309	0.001
17:00 - 18:00	17	309	0.001	17	309	0.000	17	309	0.001
18:00 - 19:00	17	309	0.000	17	309	0.000	17	309	0.000
19:00 - 20:00									
20:00 - 21:00									
21:00 - 22:00									
22:00 - 23:00									
23:00 - 24:00									
Total Rates:			0.005			0.005			0.010

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 03 - RESIDENTIAL/M - MIXED PRIVATE/AFFORDABLE HOUSING
 MULTI-MODAL PUBLIC TRANSPORT USERS
 Calculation factor: 1 DWELLS
 BOLD print indicates peak (busiest) period

Time Range	ARRIVALS			DEPARTURES			TOTALS		
	No. Days	Ave. DWELLS	Trip Rate	No. Days	Ave. DWELLS	Trip Rate	No. Days	Ave. DWELLS	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	17	309	0.003	17	309	0.033	17	309	0.036
08:00 - 09:00	17	309	0.003	17	309	0.031	17	309	0.034
09:00 - 10:00	17	309	0.004	17	309	0.006	17	309	0.010
10:00 - 11:00	17	309	0.006	17	309	0.008	17	309	0.014
11:00 - 12:00	17	309	0.006	17	309	0.009	17	309	0.015
12:00 - 13:00	17	309	0.007	17	309	0.007	17	309	0.014
13:00 - 14:00	17	309	0.008	17	309	0.008	17	309	0.016
14:00 - 15:00	17	309	0.010	17	309	0.009	17	309	0.019
15:00 - 16:00	17	309	0.022	17	309	0.005	17	309	0.027
16:00 - 17:00	17	309	0.026	17	309	0.008	17	309	0.034
17:00 - 18:00	17	309	0.017	17	309	0.004	17	309	0.021
18:00 - 19:00	17	309	0.014	17	309	0.004	17	309	0.018
19:00 - 20:00									
20:00 - 21:00									
21:00 - 22:00									
22:00 - 23:00									
23:00 - 24:00									
Total Rates:			0.126			0.132			0.258

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 03 - RESIDENTIAL/M - MIXED PRIVATE/AFFORDABLE HOUSING
 MULTI-MODAL TOTAL PEOPLE
 Calculation factor: 1 DWELLS
 BOLD print indicates peak (busiest) period
 Total People to Total Vehicles ratio (all time periods and directions): 1.72

Time Range	ARRIVALS			DEPARTURES			TOTALS		
	No. Days	Ave. DWELLS	Trip Rate	No. Days	Ave. DWELLS	Trip Rate	No. Days	Ave. DWELLS	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	17	309	0.123	17	309	0.510	17	309	0.633
08:00 - 09:00	17	309	0.211	17	309	0.800	17	309	1.011
09:00 - 10:00	17	309	0.213	17	309	0.246	17	309	0.459
10:00 - 11:00	17	309	0.166	17	309	0.212	17	309	0.378
11:00 - 12:00	17	309	0.190	17	309	0.206	17	309	0.396
12:00 - 13:00	17	309	0.227	17	309	0.221	17	309	0.448
13:00 - 14:00	17	309	0.232	17	309	0.237	17	309	0.469
14:00 - 15:00	17	309	0.241	17	309	0.280	17	309	0.521
15:00 - 16:00	17	309	0.588	17	309	0.290	17	309	0.878
16:00 - 17:00	17	309	0.518	17	309	0.290	17	309	0.808
17:00 - 18:00	17	309	0.570	17	309	0.286	17	309	0.856
18:00 - 19:00	17	309	0.480	17	309	0.253	17	309	0.733
19:00 - 20:00									
20:00 - 21:00									
21:00 - 22:00									
22:00 - 23:00									
23:00 - 24:00									
Total Rates:			3.759			3.831			7.590

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 03 - RESIDENTIAL/M - MIXED PRIVATE/AFFORDABLE HOUSING
 MULTI-MODAL CARS
 Calculation factor: 1 DWELLS
 BOLD print indicates peak (busiest) period

Time Range	ARRIVALS			DEPARTURES			TOTALS		
	No. Days	Ave. DWELLS	Trip Rate	No. Days	Ave. DWELLS	Trip Rate	No. Days	Ave. DWELLS	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	17	309	0.066	17	309	0.256	17	309	0.322
08:00 - 09:00	17	309	0.119	17	309	0.343	17	309	0.462
09:00 - 10:00	17	309	0.111	17	309	0.128	17	309	0.239
10:00 - 11:00	17	309	0.087	17	309	0.109	17	309	0.196
11:00 - 12:00	17	309	0.101	17	309	0.105	17	309	0.206
12:00 - 13:00	17	309	0.121	17	309	0.110	17	309	0.231
13:00 - 14:00	17	309	0.117	17	309	0.123	17	309	0.240
14:00 - 15:00	17	309	0.127	17	309	0.158	17	309	0.285
15:00 - 16:00	17	309	0.237	17	309	0.150	17	309	0.387
16:00 - 17:00	17	309	0.247	17	309	0.152	17	309	0.399
17:00 - 18:00	17	309	0.293	17	309	0.154	17	309	0.447
18:00 - 19:00	17	309	0.264	17	309	0.129	17	309	0.393
19:00 - 20:00									
20:00 - 21:00									
21:00 - 22:00									
22:00 - 23:00									
23:00 - 24:00									
Total Rates:			1.890			1.917			3.807

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 03 - RESIDENTIAL/M - MIXED PRIVATE/AFFORDABLE HOUSING
 MULTI-MODAL LGVS
 Calculation factor: 1 DWELLS
 BOLD print indicates peak (busiest) period

Time Range	ARRIVALS			DEPARTURES			TOTALS		
	No. Days	Ave. DWELLS	Trip Rate	No. Days	Ave. DWELLS	Trip Rate	No. Days	Ave. DWELLS	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	17	309	0.010	17	309	0.035	17	309	0.045
08:00 - 09:00	17	309	0.015	17	309	0.026	17	309	0.041
09:00 - 10:00	17	309	0.014	17	309	0.018	17	309	0.032
10:00 - 11:00	17	309	0.017	17	309	0.018	17	309	0.035
11:00 - 12:00	17	309	0.019	17	309	0.016	17	309	0.035
12:00 - 13:00	17	309	0.019	17	309	0.018	17	309	0.037
13:00 - 14:00	17	309	0.019	17	309	0.018	17	309	0.037
14:00 - 15:00	17	309	0.016	17	309	0.015	17	309	0.031
15:00 - 16:00	17	309	0.019	17	309	0.015	17	309	0.034
16:00 - 17:00	17	309	0.032	17	309	0.015	17	309	0.047
17:00 - 18:00	17	309	0.032	17	309	0.014	17	309	0.046
18:00 - 19:00	17	309	0.018	17	309	0.012	17	309	0.030
19:00 - 20:00									
20:00 - 21:00									
21:00 - 22:00									
22:00 - 23:00									
23:00 - 24:00									
Total Rates:			0.230			0.220			0.450

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 03 - RESIDENTIAL/M - MIXED PRIVATE/AFFORDABLE HOUSING
MULTI-MODAL MOTOR CYCLES
Calculation factor: 1 DWELLS
BOLD print indicates peak (busiest) period

Time Range	ARRIVALS			DEPARTURES			TOTALS		
	No. Days	Ave. DWELLS	Trip Rate	No. Days	Ave. DWELLS	Trip Rate	No. Days	Ave. DWELLS	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	17	309	0.000	17	309	0.002	17	309	0.002
08:00 - 09:00	17	309	0.000	17	309	0.002	17	309	0.002
09:00 - 10:00	17	309	0.000	17	309	0.001	17	309	0.001
10:00 - 11:00	17	309	0.001	17	309	0.001	17	309	0.002
11:00 - 12:00	17	309	0.000	17	309	0.001	17	309	0.001
12:00 - 13:00	17	309	0.000	17	309	0.001	17	309	0.001
13:00 - 14:00	17	309	0.001	17	309	0.001	17	309	0.002
14:00 - 15:00	17	309	0.001	17	309	0.000	17	309	0.001
15:00 - 16:00	17	309	0.002	17	309	0.001	17	309	0.003
16:00 - 17:00	17	309	0.001	17	309	0.001	17	309	0.002
17:00 - 18:00	17	309	0.004	17	309	0.002	17	309	0.006
18:00 - 19:00	17	309	0.003	17	309	0.003	17	309	0.006
19:00 - 20:00									
20:00 - 21:00									
21:00 - 22:00									
22:00 - 23:00									
23:00 - 24:00									
Total Rates:			0.013			0.016			0.029

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 B

JTW Census Data by Mode

WU03EW - Location of usual residence and place of work by method of travel to work (MSOA level)

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population All usual residents aged 16 and over in employment the week before the census
units Persons
date 2011
usual residence E02004961 : Three Rivers 006 (2011 super output area - middle layer)

place of work : 2011 census merged local authority district	All categories: Method of travel to work (2001 specification)	Work mainly at or from home	Underground, metro, light rail or tram	Train	Bus, minibus or coach	Taxi	Motorcycle, scooter or moped	Driving a car or van	Passenger in a car or van	Bicycle	On foot	Other method of travel to work
TOTALS	3,864	0	673	113	110	8	37	2,395	143	77	306	2
Percentages	100	0	17	3	3	0	1	62	4	2	8	0

In order to protect against disclosure of personal information, records have been swapped between different geographic areas. Some counts will be affected, particularly small counts at the lowest geographies.