



City of York Model

LOCAL PLAN MODELLING REVIEW





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1 INTRODUCTION

1.1 CONTEXT

The Draft Local Plan (DLP) for the City of York was submitted for independent examination in May 2018. The Draft Local Plan provides the framework to guide and promote development within the City of York from 2017 to 2033.

Accompanying the DLP, the City of York Council has undertaken transport modelling, to assess the transport impacts of the Plan. The transport modelling uses the City of York (Transport) Model (CoYM), a bespoke highway and public transport model originally developed by Halcrow. The CoYM forecasts the impact of the land use changes promoted by the DLP upon transport usage, including the impact on the use of the highway network. The CoYM forecasts these impacts for the year 2033, the latest year described by the DLP.

The forecasting undertaken by the City of York Council has included six forecast growth scenarios for the year 2033. Each of these scenarios aims to represent the cumulative impact of the Local Plan development trips on the highway network but have used a different method to forecast traffic growth by combining Department for Transport, National Trip End Model (NTEM) forecasts with up to date local development data.

1.2 BRIEF

WSP was commissioned by the City of York Council to review the transport forecasts that underpin the DLP developments. This report describes the review undertaken by WSP, and its conclusions.

The focus of the WSP review has been to consider:

- The appropriateness of the CoYM model structure and the robustness of key inputs into the forecasting, such as trip rates and mode share;
- The approach to developing the forecast scenarios and the way NTEM and local development data has been combined to derive forecast levels of traffic growth;
- The conclusions made by SYSTRA, on behalf of Highway England, in their review of the forecast scenarios; and
- The extent and mitigation of modelling risks going forward.

1.3 REPORT STRUCTURE

Following this introduction this report is structured as follows:

- **Chapter 2** contains a review of the structure of CoYM;
- **Chapter 3** sets out the findings of the review of the CoYM trip rates;
- **Chapter 4** provides the findings from the review of modal splits in CoYM;
- **Chapter 5** reviews the approach to forecasting and application of NTEM growth; and
- **Chapter 6** sets out the conclusions and recommendations from the review.

Some additional data is also provided within Appendices.

2 OVERVIEW OF TRANSPORT MODEL STRUCTURE

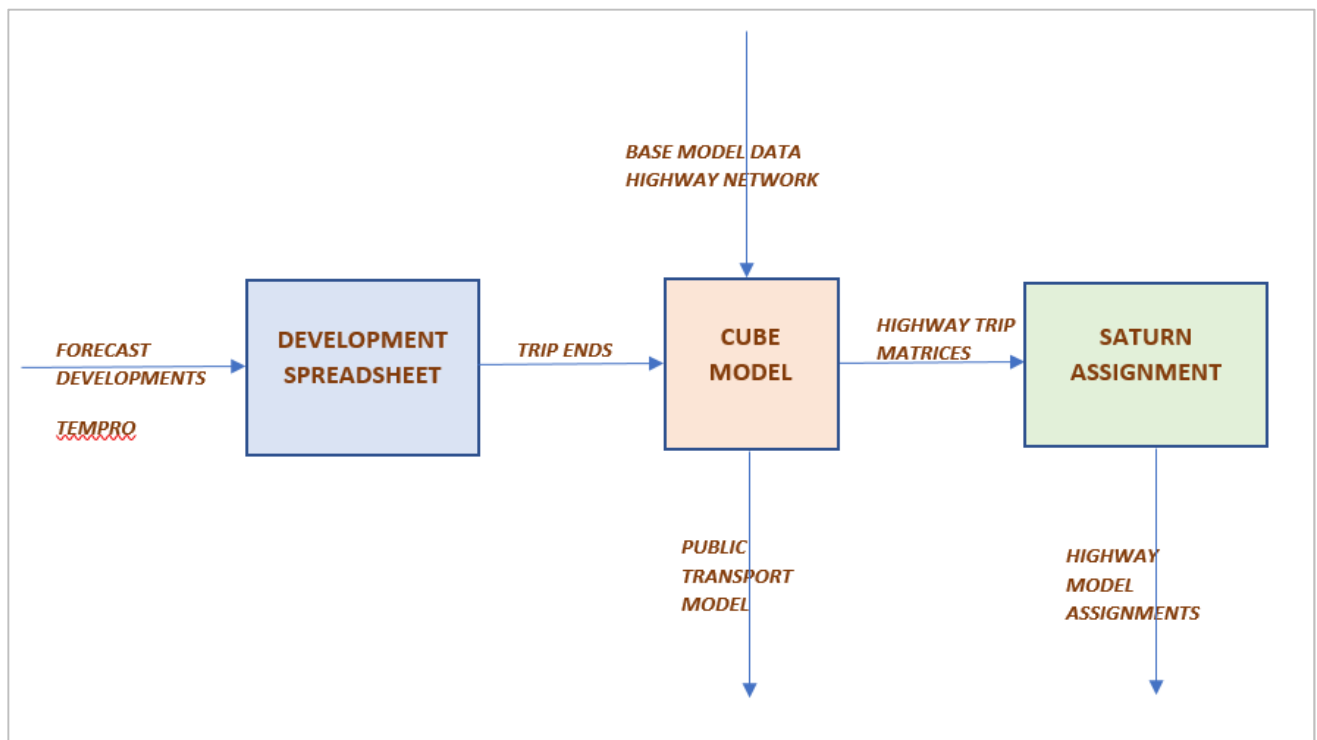
2.1 INTRODUCTION

CoYM is a bespoke model that combines elements from several modelling tools, with the three main components as follows:

1. The Development Spreadsheet;
2. The CUBE Transport Model; and
3. The SATURN Highway Assignment Model.

The three components of the model are related to each other as shown in Figure 2-1 and discussed in the subsequent text.

Figure 2-1 - Outline of York Model Structure



2.2 DEVELOPMENT SPREADSHEET

The Development Spreadsheet is a tool that converts forecast development data into a format that can be used in the CUBE Model.

The following data is manually input into the Development Spreadsheet:

- Number of houses for each housing development;
- Gross Floor area and land use type for each employment based development;
- Person Trips generated by different types of land use;
- Mode splits for different land use types; and
- Model “Donor” zones for copying trip distribution patterns from (i.e. the connection between origins and destinations of trips) for the new developments.

The Development Spreadsheet has several inbuilt macros (data processing programs) which calculate trip ends (totals trips into or out of a model zone) due to developments as well as general background traffic growth. The Development Spreadsheet provides output files containing the forecast trip ends, as well as an output file that includes information on the “Donor” zones, all of which are then input into the CUBE model.

2.3 CUBE TRANSPORT MODEL

CUBE is an integrated modelling platform that contains a suite of sub-programs for modelling travel choices. The CUBE model is at the core of CoYM, and contains the bulk of the modelling processes and data. The CUBE model contains data on the highway networks and on the public transport system (such as services and frequencies). The CUBE model also contains base year model data (for a base year of 2016), including the base year matrices, generalised costs and transport networks.

The CUBE model receives as inputs the output data from the Development Spreadsheet and uses the above data to create forecast person trip demand matrices. These person trip demand matrices are then divided into different modes, including the highway vehicle modes and the public transport modes. The public transport trips are then assigned by the CUBE model onto a public transport network model. The highway vehicle trips are converted into a trip matrix format that is compatible with the SATURN highway assignment program.

2.4 SATURN ASSIGNMENT MODEL

SATURN is a suite of programs that are used to model highway traffic. In particular, SATURN includes an assignment program, that determines the routes undertaken by vehicles (expressed in Passenger Car Units, PCU) on the road network. The final output of the SATURN assignment includes the traffic flows and behaviour at junctions (queuing and delay) of the vehicles using the highway network within the modelled area.

2.5 STRUCTURE OF MODEL CHOICE MECHANISMS

CoYM deals with a series of transport choices faced by a traveller: from a travel need arising in a user, through to the resultant trip being undertaken by the same user. These choices are assumed to be made in sequence and determined by the relative (travel) cost of one choice over another. The choice mechanisms included within the CoYM are described below.

2.5.1 TRIP GENERATION (FREQUENCY)

Trip Generation is the initial choice made, i.e. to undertake a trip. Trip generation determines both the number of trips and the purpose of these trips (e.g. for commuting, business or leisure). The CoYM determines total trips generated based on a combination of: i) the pre-existing trips in the model from the base year, ii) the Trip End Model Program (TEMPro) trip growth; and iii) the trips forecast to be generated by the new developments, i.e. from the Local Plan.

The pre-existing trips from the base year model are included within the CUBE model at the beginning of the forecasting process. The additional forecast trips due to TEMPro growth and trips generated by the Local Plan developments are calculated within the Development Spreadsheet.

The output of the trip generation process is the trip-ends, i.e. the number of trips originating from, and the number of trips destined to, each location (represented by a model zone).

2.5.2 MODE CHOICE

The CoYM also models the traveller's choice of travel mode, with initial mode splits determined by:

- For residential trips (i.e. those that start or end at home): mode splits have been calculated within a bespoke modelling tool, the Model Assessment Trip Tool (MATT).
- Mode splits for the employment trip ends are obtained from the TRICS database. These mode splits from MATT and TRICS have been input into the Development Spreadsheet, which divides the forecast trips between the modes.

Further modelling of transfer between modes is undertaken within the CUBE model, using generalised costs (monetary values of time and distance) and mode choice algorithms. The outputs of this process are matrices for public transport and for highway users (the latter further divided into Park and Ride users). The CUBE model assigns the public transport matrix to a public transport network, whilst the highway user matrices are assigned using SATURN.

2.5.3 TRIP DISTRIBUTION

Trip distribution refers to the connection between trip origins and trip destinations. Each origin trip end is connected to a destination trip end.

The trip distribution for the pre-existing base year trip ends is assumed to be the same as in the base year. Each new forecast trip due to background trip growth is assumed to have the same trip distribution as the pre-existing base year trip ends that are in the same zones.

The trip distribution of new trips due to the Local Plan developments are copied from pre-existing zones which have a similar land use. The 'donor' zones for copying these have been manually selected during the forecasting process. The 'donor' zones are specified in the Development Spreadsheet, which outputs a 'donor' zone file that is compatible with the CUBE program. The CUBE model uses the information in this file to build the trip distribution for the trips to and from the Local Plan developments. The CUBE model also combines the base trips, background growth trips and trips due to the Local Plan developments to create the forecast person trip matrices.

During the model building process, the CUBE model re-distributes trips based on changes in costs, after undertaking the mode choice.

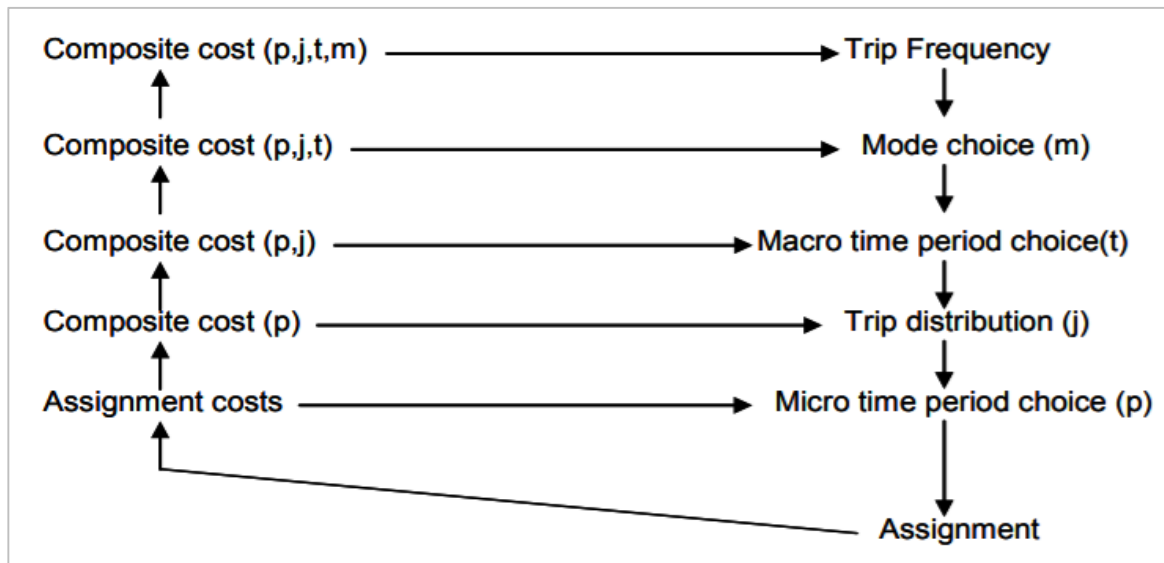
2.5.4 HIGHWAY TRIP ASSIGNMENT

The SATURN program loads those trips made by car, LGV and HGV modes on to the highway network, using a process known as assignment, which determines the routes taken by the highway traffic. The assignment program undertakes several assignments iteratively, and converges upon the best solution.

2.6 REVIEW OF CHOICE HIERARCHY

During the review of the CoYM, the choice hierarchy contained within the CoYM described above has been compared with the recommended choice hierarchy within the Department for Transport's Transport Appraisal Guidance (TAG). A typical choice hierarchy as given in TAG is given in Figure 2-2 below.

Figure 2-2 - Typical Choice Hierarchy from TAG



Comparing Figure 2-2 with the choice mechanisms available in the CoYM, the time period choice has not been included within the CoYM. As such, peak spreading – the practice in which some trips in the peak hour may move to the preceding and following hours – is not accounted for in the model. As congestion is significant in York, time-period choice may be a significant factor in trip choice.

The current CoYM does not include the two-way trip information that is included when trips are modelled on a “Production/Attraction” (P/A) basis. P/A models assume that trips are two-way, and therefore choices affecting the outward journey also affect the return journey and must be made together. Rather, the CoYM is based on one-way Origin/Destination (O/D) trips. With an O/D modelling approach, there is no linkage between the outbound and return leg of a trip – so it is possible, for instance, for an outbound trip to work to be made by car, and the return leg to be made by bus, in the CoYM.

Given the current structure, time-period choice modelling is not feasible for this model. The current WebTAG recommends the inclusion of time-period choice modelling, based on Production/Attraction trip models. Therefore, whilst a model update may be necessary for significant future interventions the current structure and functionality remains relevant for development planning impacts.

2.7 2017 MODEL UPDATE

The latest update to the CoYM was undertaken during 2017. The update included validating a base year highway model for the year 2016 as reported in the Local Model Validation Report (Mouchel, March 2017). Other updates included:

2.7.1 DEVELOPMENT SPREADSHEET

The Development Spreadsheet was updated, as reported in the Traffic Forecasting Update (WSP, August 2017). The updated Development Spreadsheet was used by City of York Council as the basis for an update of the forecast highway assignment model.

The 2017 update to the Development Spreadsheet used the same format as originally developed, with the only changes being the development data from the Draft Local Plan, and the TEMPro forecast data which was updated to TEMPro 7.2.

The Development Spreadsheet was originally created with the TEMPro 6.2 zone structure embedded into it. TEMPro 7.2 has a different sub-local authority level based zone structure, which differs significantly from TEMPro 6.2. Therefore, the TEMPro 7.2 forecast trip end numbers were proportionally factored to align with the TEMPro 6.2 zone structure. Apart from the TEMPro updates, and the updates to the development data, no other changes were made to the Development Spreadsheet during the 2017 update.

2.7.2 GENERALISED COSTS

Generalised costs are derived from weighting the values of time and distance and expressed as pence per minute and pence per km. The generalised costs were updated in accordance with parameter values in DfT WebTAG July 2017 during the model update. The generalised costs are used in the CUBE model to determine the changes in mode choice in the future year, in comparison to the base year. Generalised costs also contribute to the re-distribution of trips, that is undertaken after the mode splitting. The generalised costs are further used in the SATURN model assignment, to determine the optimum travel routes.

2.8 PUBLIC TRANSPORT MODEL

The 2017 update of CoYM focussed on the highway model. Therefore, the base year Public Transport modelling, which is undertaken within the CUBE model, was not re-calibrated or re-validated.

The Public Transport model, includes bus line files that represent the bus routes and frequencies. The 2033 PM bus model lines file has been copied from the 2033 AM PT Bus Lines file without any changes. This is because the 2033 PM bus lines have not been explicitly modelled during the model building or 2017 update. Overall, the 2033 Bus lines files have been modified during the 2017 update only to allow for the Poppleton Bar P& R service to be diverted via York Central and the number 6 service extended to serve the ST15 Land west of Elvington Lane development.

The Rail Lines files remain unaltered during the 2017 model update in both the base and future year, save for the removal of Haxby station in the future year scenarios. This may have some impact on the mode choice between car use and Public Transport use, potentially impacting the aggregate highway demand, which is the focus of this review.

3 TRIP RATE REVIEW

3.1 INTRODUCTION

The trip demand modelling in the CoYM begins with trip generation. Trip rates relate the development sizes (in units of housing or floor area) and land use types (e.g. commercial, office) with the number of trips generated.

In this chapter, the trip rates used in the CoYM Development Spreadsheet have been compared with trips rates from other sources.

3.2 COMPARISON WITH TRICS DATABASE

The person trip rates within the Development Spreadsheet have been compared with equivalent trip rates derived by WSP from the TRICS database, with the results as shown in Table 3-1 below.

TRICS is an industry standard source of information on trip data and is essentially a database of arrival and departure trip rates for a variety of types of land use based on surveys. For this comparison, TRICS trip rates for sites within Great Britain, but outside of London, were selected (refer to **Appendix C** for the TRICS database outputs).

Table 3-1 shows that the trip generation rates used in CoYM are broadly like those obtained from TRICS, with only a few land use types showing a significant difference. The latter tend to be land use types that contribute only a minor proportion of the expected trip growth due to the Local Plan developments, including Leisure and Eating Places.

Table 3-1 - Comparison of York Model Person Trip Rates with TRICS

Land Use	AM Peak				PM Peak			
	Arrivals		Departures		Arrivals		Departures	
	York Model	TRICS	York Model	TRICS	York Model	TRICS	York Model	TRICS
Per 100sqm GFA (or per housing unit)	York Model	TRICS	York Model	TRICS	York Model	TRICS	York Model	TRICS
Food Superstore (A1)	5.92	3.69	3.75	2.84	11.70	7.26	11.52	7.64
Offices (B1)	1.97	2.24	0.16	0.15	0.17	0.16	1.57	2.06
Industrial Estate (B2)	0.53	0.52	0.24	0.28	0.17	0.16	0.45	0.43
Commercial Warehousing (B8)	0.34	0.10	0.09	0.02	0.12	0.01	0.40	0.05
Privately Owned Houses (C3)	0.18	0.21	0.57	0.77	0.40	0.58	0.20	0.28
Privately Owned Flats (C3)	0.09	0.12	0.39	0.77	0.28	0.58	0.12	0.28
Hotels (C1)	0.39	0.38	0.77	0.91	0.74	0.78	0.45	0.45
Restaurants (A3)	0.00	0.00	0.00	0.00	19.38	2.82	9.44	0.46
Pub / Restaurant (A3)	0.00	0.00	0.00	0.00	4.86	6.29	3.72	3.48
Average Eating Place (A3)	0.00	0.00	0.00	0.00	12.12	4.55	6.58	1.97
Leisure Centre (D1)	0.89	0.21	0.65	0.15	2.65	0.66	2.32	0.70
Private Fitness Club (D2)	0.45	0.28	0.51	0.51	1.27	0.99	0.79	0.57
Average Leisure (D1&D2)	1.35	0.49	1.16	0.49	3.92	1.65	3.11	1.27
Average Non-food Retail (TRICS Check from Retail Park Excluding Food)	1.41	1.13	0.66	0.79	2.55	2.27	3.00	2.49

3.3 COMPARISON WITH HIGHWAYS ENGLAND RACHEL MODEL

Highways England (HE) maintains RaCHEI (**R**esidential and **C**ommercial **H**ighways **E**ngland land use model), which includes trip rates for the most significant land use types. The RaCHEI model is a tool that enables HE to assess the impact of developments on the Strategic Road Network (SRN). These have also been compared with the York model trip rates in Table 3-2 below. Only housing and employment land uses are included in the RaCHEI model.

Table 3-2 shows that the person trip rates used in the York model are broadly comparable to those used in HE's RaCHEI model.

The trip rate comparisons between the CoYM, RaCHEI and TRICS are also shown graphically in Figures 3-1 to 3-4 below. These indicate that the CoYM has a higher trip rate than the RaCHEI model, for almost all-time periods and land use types, though it sometimes has lower trip rates than those from the TRICS database. This indicates that the CoYM trip generation is robust in comparison to those from HE sources and suitable for applications concerning the impacts on the SRN.

Table 3-2 - Comparison of York Model Person Trip Rates with Highways England's RaCHEI Model

Land Use	AM Peak				PM Peak			
	Arrivals		Departures		Arrivals		Departures	
	York Model	RaCHEI	York Model	RaCHEI	York Model	RaCHEI	York Model	RaCHEI
Per 100sqm GFA (or per housing unit)								
Offices (B1)	1.97	1.27	0.16	0.20	0.17	0.16	1.57	1.09
Industrial Estate (B2)	0.53	0.33	0.24	0.11	0.17	0.06	0.45	0.28
Commercial Warehousing (B8)	0.34	0.14	0.09	0.07	0.12	0.06	0.40	0.13
Privately Owned Houses (C3)	0.18	0.15	0.57	0.41	0.40	0.38	0.20	0.23
Privately Owned Flats (C3)	0.09	0.05	0.39	0.20	0.28	0.17	0.12	0.07

Figure 3-1 - AM Peak Arrival Trip Rate Comparison

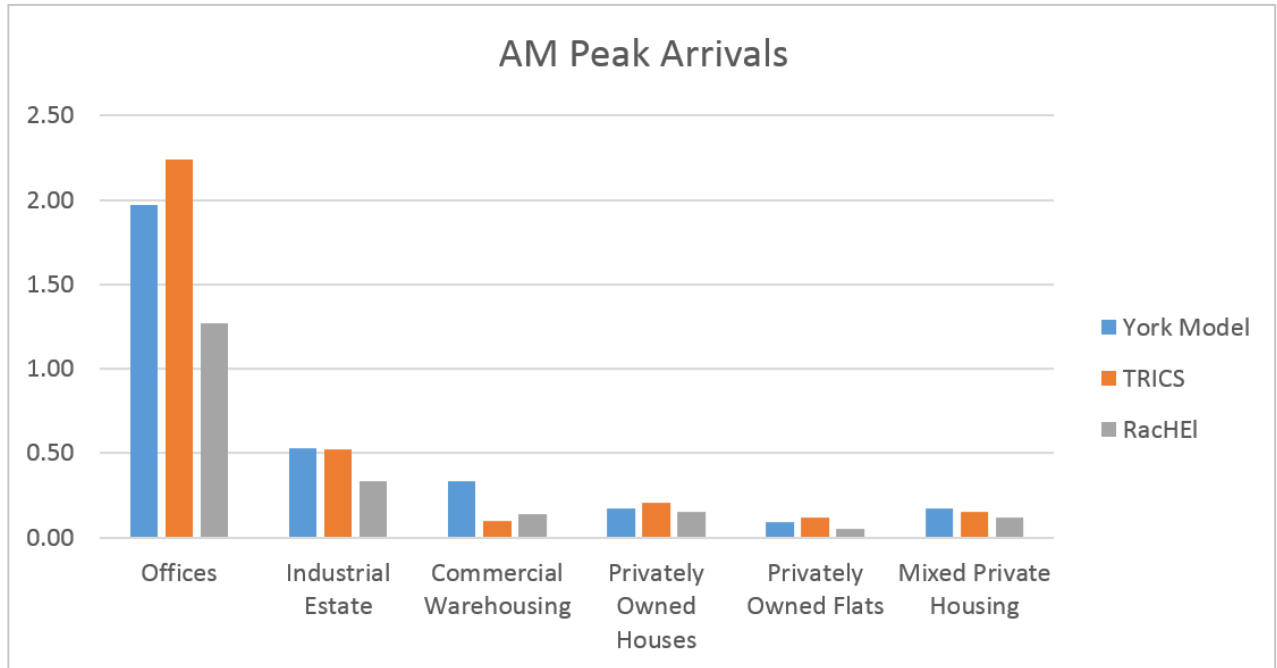


Figure 3-2 - AM Peak Departure Trip Rate Comparison

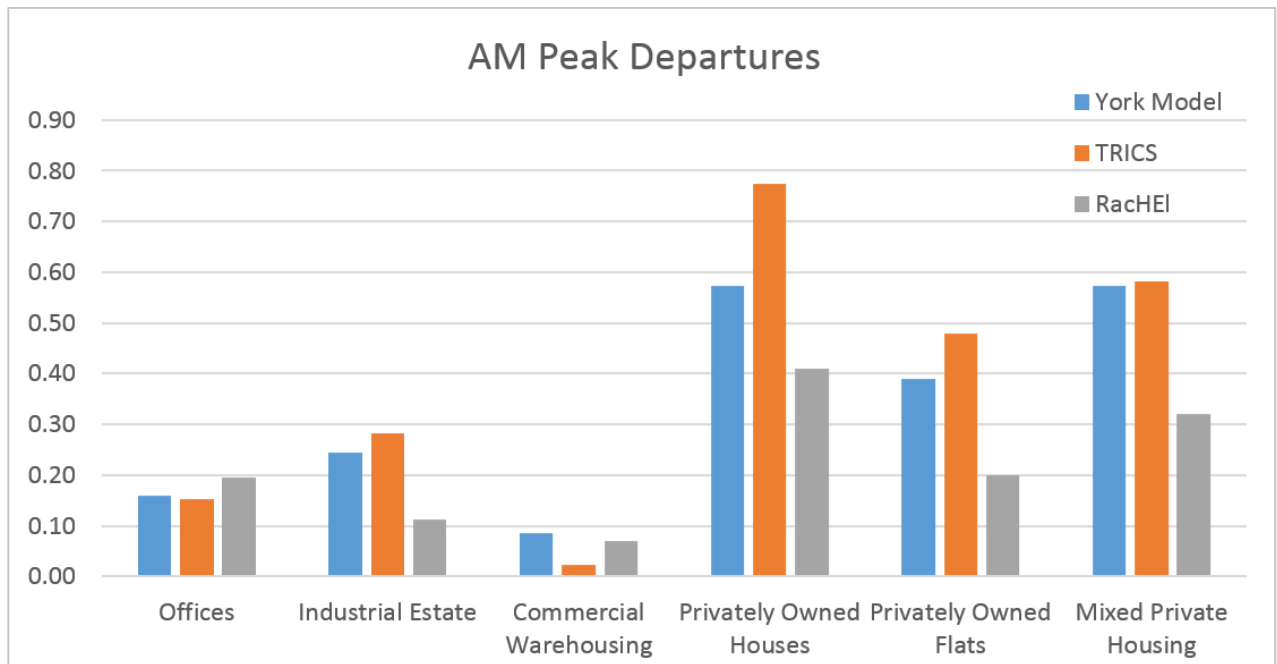


Figure 3-3 - PM Peak Arrival Trip Rate Comparison

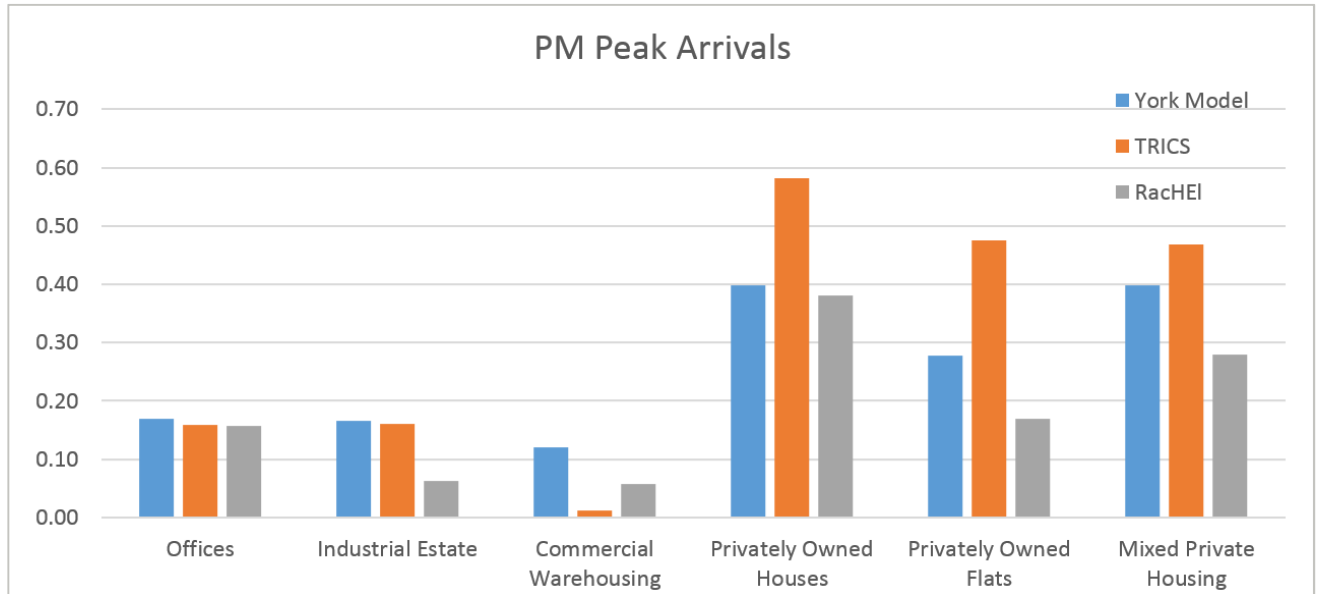
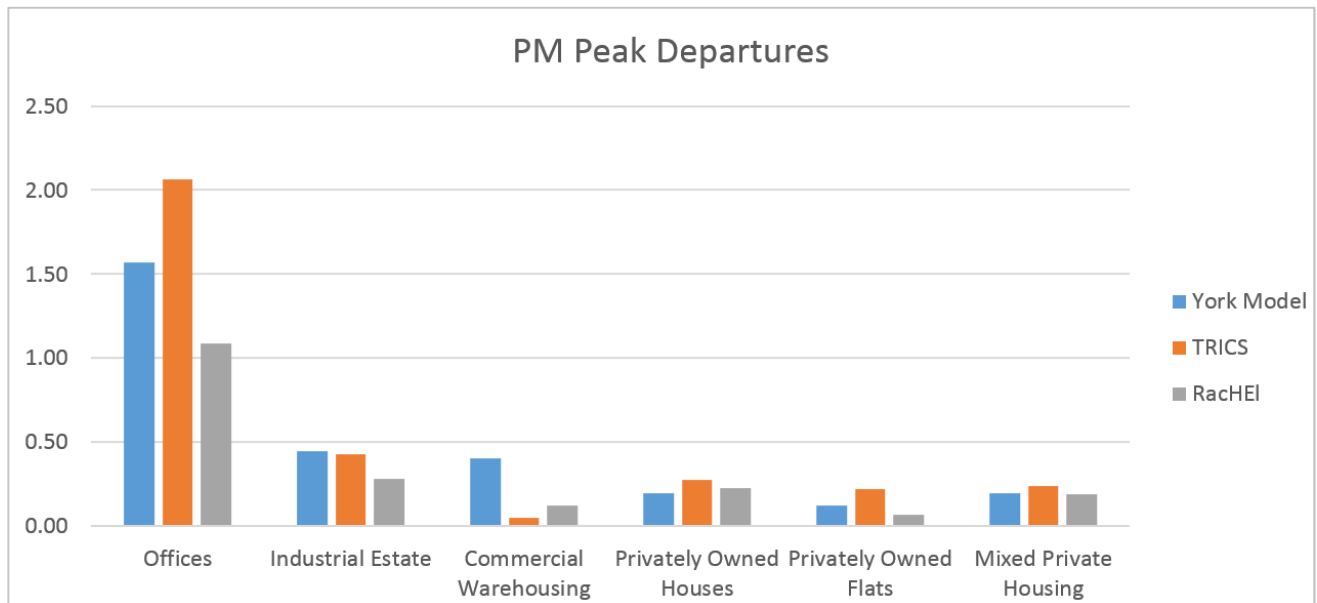


Figure 3-4 - PM Peak Departure Trip Rate Comparison



4 MODE SPLIT REVIEW

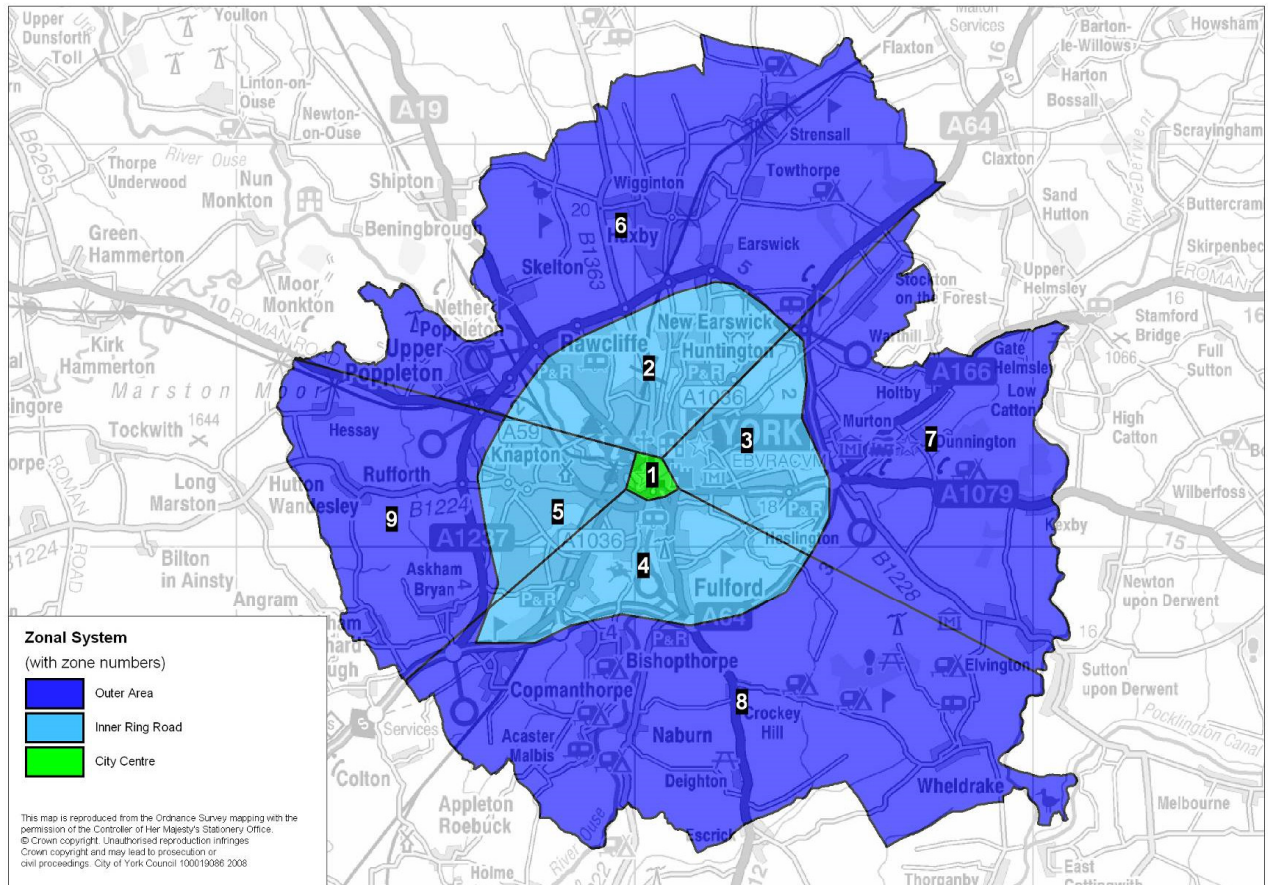
4.1 INTRODUCTION

The Development Spreadsheet also splits the person trips generated into different modes of travel. The CoYM uses the mode splits from the City of York Council’s bespoke Modal Assessment Trip Tool (MATT). This chapter compares the MATT mode split with mode splits from the National Trip End Model (NTEM).

4.2 MATT

The MATT tool divides the City of York region into nine zones as shown in Figure 4-1 below.

Figure 4-1 - MATT Zones



The mode splits from MATT differ between different MATT zones.

The mode splits from MATT have been compared with the mode splits from the National Trip End Modal (NTEM) Version 72. The NTEM districts do not exactly correspond with the MATT zones, but, for this exercise, they have been matched as closely as possible, as shown in Table 4-1.

Table 4-1 - MATT Zones to NTEM districts (approximate correspondence)

MATT Zone Name	MATT Zone Number	NTEM Zone
City Centre	1	York 013
Inner Ring Road	2	York 004, York 005, York 006, York 007, York 009, York 010
Inner Ring Road	3	York 008, York 014, York 015
Inner Ring Road	4	York 019, York 021, York 023
Inner Ring Road	5	York 012, York 016, York 017, York 018, York 022
Outer Area	6	York 001, York 002, York 003
Outer Area	7	York 020
Outer Area	8	York 024
Outer Area	9	York 011

The MATT modal splits from person trips to car drivers and PT users is given in the Tables 4-2 and 4-3 below.

Table 4-2 - AM Peak Residential Trip End Model Proportions (Applied to Housing Trips)

Zone Name	Zone	Car Driver		PT User	
		MATT	NTEM	MATT	NTEM
City Centre	1	29%	37%	12%	19%
Inner Ring Road	2	49%	44%	8%	8%
Inner Ring Road	3	50%	42%	8%	11%
Inner Ring Road	4	45%	39%	10%	15%
Inner Ring Road	5	51%	43%	11%	18%
Outer Area	6	69%	50%	11%	7%
Outer Area	7	74%	54%	8%	10%
Outer Area	8	74%	53%	9%	10%
Outer Area	9	70%	53%	8%	7%

Table 4-3 - AM Peak Employment Trip End Model Proportions (Applied to Employment Use Trips)

Zone Name	Zone	Car Driver		PT User	
		MATT	NTEM	MATT	NTEM
City Centre	1	37%	41%	22%	14%
Inner Ring Road	2	63%	74%	5%	27%
Inner Ring Road	3	64%	75%	5%	5%
Inner Ring Road	4	59%	69%	6%	11%
Inner Ring Road	5	46%	69%	18%	66%
Outer Area	6	67%	75%	4%	11%
Outer Area	7	77%	86%	4%	16%
Outer Area	8	73%	77%	6%	8%
Outer Area	9	79%	82%	2%	3%

Tables 4-2 and 4-3 show that, in the AM Peak, the modal splits between the MATT and NTEM are broadly comparable for car drivers, but show large differences for PT users. The pattern is similar in the PM as shown in Tables 4-4 and 4-5 below.

Table 4-4 - PM Peak Residential Trip End Model Proportions (Applied to Housing Trips)

Zone Name	Zone	Car Driver		PT User	
		MATT	NTEM	MATT	NTEM
City Centre	1	29%	42%	12%	8%
Inner Ring Road	2	49%	50%	8%	7%
Inner Ring Road	3	50%	49%	8%	8%
Inner Ring Road	4	45%	48%	10%	8%
Inner Ring Road	5	51%	50%	11%	7%
Outer Area	6	69%	56%	11%	5%
Outer Area	7	74%	57%	8%	5%
Outer Area	8	74%	59%	9%	5%
Outer Area	9	70%	60%	8%	5%

Table 4-5 - PM Peak Employment Trip End Model Proportions (Applied to Employment Use Trips)

Zone Name	Zone Number	Car Driver		PT User	
		MATT	NTEM	MATT	NTEM
City Centre	1	37%	42%	22%	29%
Inner Ring Road	2	63%	70%	5%	7%
Inner Ring Road	3	64%	71%	5%	5%
Inner Ring Road	4	59%	64%	6%	10%
Inner Ring Road	5	46%	66%	18%	9%
Outer Area	6	67%	71%	4%	6%
Outer Area	7	77%	82%	4%	3%
Outer Area	8	73%	73%	6%	4%
Outer Area	9	79%	79%	2%	5%

Tables 4-2 to 4-5 show that, for most sectors in the City of York district, the MATT mode splits for car drivers are comparable to those from NTEM. Therefore, the MATT mode splits are appropriate for the CoYM to assess the impacts of the Local Plan Developments.

5 CITY OF YORK TRANSPORT MODEL – GROWTH SCENARIOS

5.1 INTRODUCTION

City of York Council has looked at six methods for forecasting traffic growth to 2033. All the six scenarios aim to model the same level of Local Plan development. Though all the scenarios have been built using the same basic methodology, there are differences in the approach used to build each, and hence each scenario contains a different estimate of traffic growth. The differences between the scenarios is due to the way TEMPro growth has been applied and the treatment of trips associated with the strategic development sites.

This chapter of the report describes the WSP review of the six forecast model scenarios.

5.2 FORECASTING METHODOLOGY

The methodologies used to develop the six traffic forecasting scenarios are described below. Of these scenarios, forecast traffic flows resulting from Scenario 1, *TEMPro Constrained*, have been submitted as evidence of the traffic impact due to the Local Plan developments within the Transport Topic Papers.

Table 5-1 - Traffic Forecast Scenarios for 2033

Forecast Scenario	Description
1. TEMPro Constrained	TEMPro growth applied to entire model, including Local Plan Strategic Development sites.
2. Unconstrained	Growth due to Local Plan developments only with no constraints applied.
3. TEMPro capped + strategic sites unconstrained	Growth at zones representing Strategic Developments are taken from Scenario 2, the rest from Scenario 1.
4. Modified TEMPro capped	Scenario 1 is modified by multiplying the trips within Strategic Development zone only. This maintains the same trip distribution (i.e. same Origins and Destination profile) as in the base.
5. Furness TEMPro capped	Scenario 4 outputs are furnished once to increase development zone trips to be closer to the expected values calculated from the Local Plan Development estimates for housing and employment.
6. Iteratively Furness TEMPro capped	Scenario 5 outputs are iteratively furnished several times.

5.2.1 SCENARIO 1

Scenario 1 includes trip growth due to the Local Plan Developments as well TEMPro growth applied to the Base Year model trips. The overall growth is constrained to the default TEMPro growth levels (by Local Authority within the City of York and by larger regions for the rest of Yorkshire and beyond). As the combined growth due to the developments and the growth of the existing base year trips needs to be constrained to the default TEMPro growth level, the growth of the base year trips is reduced.

The process of creating the Scenario 1 demand trip ends is as follows:

Step 1 – The default TEMPro growth is used to calculate forecast trip ends to 2033.

Step 2 – The trip ends due to the Local Plan developments between the base year of 2016 and 2033 are calculated.

Step 3 – Adjustment factors are calculated, which adjust TEMPro default factors downwards to compensate for the inclusion of the development trips.

Step 4 – The adjustment factors are applied to the base year model, to calculate the TEMPro adjusted forecast trip ends.

Step 5 – The trip ends due to the developments from Step 2 are then added to the TEMPro adjusted trip ends from step 4. (Where Step 4 results in trips lower than for the base year, the Development trips are reduced prior to adding, instead of the base year trips).

Step 6 - Subsequently, the CUBE model is run, using the trip ends from Step 5. The CUBE modelling will result in further changes to the trip totals. This is due to mode transfer between cars and other modes.

Scenario 1 is designed to comply with the standard DfT Transport Appraisal Guidance (TAG) methodology, which is particularly suited to scheme appraisal. TAG Unit M4 Section 3.2 defines a core scenario, for scheme appraisal, which should be based on:

- NTEM growth in demand, at a suitable spatial area;
- Sources of local uncertainty that are more likely to occur than not; and
- Appropriate modelling assumptions.

The TAG methodology is designed to provide a standard for comparing individual transport schemes with each other. The TAG methodology is based on *default* TEMPro based forecasts, which are derived from planning data that in most instances has been superseded¹.

5.2.2 SCENARIO 2

Scenario 2 includes only unconstrained growth from the Local Plan developments and *does not include* any TEMPro growth. Effectively, Scenario 2 is the development trips only added onto the

¹ For York, the planning data is based on the Strategic Housing and Land Availability Assessment undertaken in 2011.

base model. Some additional adjustment to the Scenario 2 demand occurs within the CUBE demand model.

Scenario 2 was intended to model the development trips to better reflect the Local Plan estimates. Growth due to sources outside the Local Plan developments however, is not present in Scenario 2 and therefore this scenario would underestimate overall traffic growth; although reflecting the impacts of the Local Plan more accurately in areas of the highway network located close to the Local Plan developments.

5.2.3 SCENARIO 3

Scenario 3 is based on a combination of the Development Spreadsheet outputs from Scenarios 1 and 2, prior to inputting into the CUBE Model. Scenario 3 is created as follows:

Step 1 – Separate trip ends to or from model zones representing developments in Scenario 1 from the rest of the model trip ends. (This is undertaken within the trip ends file that is output by the Development Spreadsheet for Scenario 1).

Step 2 – Separate trip ends to or from model zones representing developments in Scenario 2 from the rest of the model trip ends. (This is undertaken within the trip ends file that is output by the Development Spreadsheet for Scenario 2).

Step 3 – Combine the nondevelopment zone trip ends for Scenario 1 with the development zone trip ends for Scenario 2, to create a trip ends file for Scenario 3.

Step 4 – Undertake CUBE demand modelling using the Scenario 3 trip ends file created in Step 3.

Scenario 3 was intended to combine the advantages of Scenario 1 and 2, whereby the traffic growth due to developments would reflect the Local Plan growth estimates, while the rest of the model would reflect TEMPRO based growth. In practice, the CUBE demand modelling has reduced the development trips significantly below the values in the Development Spreadsheet (due to the size of the developments in the Local Plan). Therefore, Scenario 3 also underestimates the growth due to the Local Plan developments.

5.2.4 SCENARIO 4

Scenario 4 is based on Scenario 1, but with the Strategic Local Development Plan site trips factored prior to inputting into the CUBE model. The purpose of Scenario 4 was to increase the Scenario 1 development zone trips so that they approached the levels calculated from the Development Spreadsheet.

Scenario 4 was created as follows:

Step 1 - Separate trip ends to or from model zones representing developments in Scenario 1 from the rest of the model trips. (This is undertaken within the trip ends file that is output by the Development Spreadsheet for Scenario 1).

Step 2 – Apply factors to the trips to or from the zones representing Local Plan developments only, to increase these trips up to the values calculated.

Step 3 – Re-combine the factored Local Plan zone trips with the existing non Local Plan zone trips from Scenario 1 to create the Scenario 4 trip end file.

Step 4 – Undertake CUBE demand modelling using the Scenario 4 trip ends file created in Step 3.

Scenario 4 was, like Scenario 3, an attempt to combine the advantages of Scenario 1 and Scenario 2. However, unlike in Scenario 3, the Local Development plan trips would have the same distribution as in Scenario 1, rather than in Scenario 2.

As with Scenario 3, the Scenario 4 manipulations were undertaken within the trip end file, prior to CUBE demand modelling.

It was found that, after the CUBE demand modelling process, the development trips in the model were still below the calculated values. Therefore, Scenario 4 also underestimates the growth due to the Local Plan developments.

5.2.5 SCENARIO 5

Scenario 5 was created to improve the match between the development trips in Scenario 4 and the trips expected from the sizes of the developments in the Local Plan.

Scenario 5 was created by adjusting the output matrices (after the CUBE demand modelling), which are used in the assignment model. Adjusting the output matrices enabled avoidance of any distortion of the matrices by the CUBE model. The Scenario 4 matrices were adjusted by a process called furnessing, which took the Scenario 4 matrices and adjusted the overall trips end totals, while also balancing the origin and destination totals, to create Scenario 5.

5.2.6 SCENARIO 6

Scenario 6 was created by additional iterations of furnessing applied to Scenario 5.

5.3 HIGHWAYS ENGLAND REVIEW COMMENTS

A review of the six traffic growth scenarios was undertaken by SYSTRA on behalf of Highways England (York Local Plan Review, SYSTRA, Nov 2018). The review evaluated the demand from the traffic growth scenarios and presented SYSTRA's views on the robustness of the level of traffic growth predicted by the CoYM, compared to what would be expected given the level of development forecast in the Local Plan.

SYSTRA concluded the following:

- Each of the scenarios presented by City of York Council appear to be constrained to TEMPro (NTEM) despite the fact that proposed Local Plan development is approximately 100% higher than TEMPro assumptions.
- The Scenario 6 outputs show a good match between the number of trips produced by strategic sites in the development spreadsheet and the number of trips produced by strategic sites in the model. However, analysis shows that there is still a deficit in overall trips of approximately 3,300 trips (7%) in the morning peak and 3,800 trips (8%) in the evening peak compared with what would be expected given the level of development forecast in the Local Plan.

The SYSTRA review concluded that none of the scenarios included sufficient forecast demand to represent the total growth expected with the Local Plan Developments. The SYSTRA review concluded that the Scenario 6 strategic site trips matched well with the equivalent trips calculated by the Development Spreadsheet. However, SYSTRA stated that Scenario 6 trips were not sufficient to model the total Local Plan growth.

5.4 WSP REVIEW OF GROWTH

WSP's has reviewed the level of growth in each of the scenarios against that estimated in NTEM and NTM.

5.4.1 NATIONAL TRIP END MODEL

The National Trip End Model (NTEM) is the Department for Transport's source of trip end growth forecast data within Great Britain for transport models. The NTEM forecasts are provided in a user-friendly format by the Trip End Model Program (TEMPro). NTEM forecasts travel demand growth based on default traffic growth data based on local authority planning data for housing, including the SHLAA for 2011 for the City of York, population projections from the Office of National Statistics and employment forecasts from the Office for Budget Responsibility.

The latest version of TEMPPro is TEMPPro 72, which was created in 2011. Therefore, the latest TEMPPro data available is not based on the latest planning guidance available. Recognising these limitations in the TEMPPro data, the DfT's Transport Appraisal Guidance (TAG Unit M4: Forecasting and Uncertainty) recommends supplementing the TEMPPro forecasts with up to date local planning data and making use of the *alternative growth* forecasting functionality.

5.4.2 ALTERNATIVE GROWTH FORECASTS

TEMPPro provides an option to override the default planning data and manually input alternative assumptions on job and housing growth, to provide alternative growth forecasts.

Therefore, during the review undertaken by WSP, TEMPPro default growth has been compared with two alternative growth forecasts based on the following:

- Growth due to committed developments only;
- Growth due to the Draft Local Plan development.

In developing these alternative forecasts, the following has been assumed:

- Residential:
 - The total housing trajectory in the Local Plan is a build out of 18,294 housing units between 2016 and 2033, and of these:
 - 3,578 can be considered as committed.
- Employment:
 - The Local Plan also estimates 650 jobs annually due to the Local plan, amounting to an increase in 11,050 jobs from 2016 to 2033. The local plan doesn't give an estimate of the jobs due to committed developments, but an estimate is made here based on the proportion of committed housing to Local Plan housing, of 2,879 jobs due to committed developments.

These numbers on housing and job growth have been input into the TEMPPro program as alternative growth forecasts. The numbers are summarised in Table 5-2, with the resultant growth as shown in Table 5-3.

Table 5-2 - Job and Housing Assumptions for TEMPro

	TEMPro default assumptions	Committed Developments	TEMPro alternative – Committed	Local Plan Total	TEMPro alternative – Local Plan
2016 Households	86,596	-	As default	-	As default
2016 Jobs	112,413	-	As default	-	As default
2033 Households	95,035	3,578*	90,174	18,294**	104,890
2033 Jobs	117,473	2,375***	114,788	11,050****	123,463

*From Local Plan.

**From Housing Trajectory Includes committed developments

***Calculated from Local Plan job total, assuming committed proportion of total equal to housing.

****Job total based on 650 jobs per annum growth given in Local Plan.

Table 5-3 - Default and Alternative TEMPro Factors – City of York

	Car Driver	TEMPro default	TEMPro - background only	TEMPro alternative – Committed	TEMPro alternative – Local Plan
Weekday	Origins	1.1315	1.0590	1.0909	1.2167
	Destinations	1.1313	1.0589	1.0908	1.2163
	OD Average	1.1314	1.0590	1.0909	1.2165
AM Peak	Origins	1.1638	1.0720	1.1115	1,2713
	Destinations	1.1143	1.0611	1.0856	1,1722
	OD Average	1.1391	1.0666	1.0986	1.2218
PM Peak	Origins	1.1151	1.0536	1.0813	1.1876
	Destinations	1.1459	1.0599	1.0971	1.2466
	OD Average	1.1305	1.0568	1.0892	1.2171

Table 5-3 shows that the default TEMPro growth is significantly above the growth due to committed developments only, and even higher than the growth due to background economic/demographic changes alone, but significantly below that due to the Local Plan developments. This is as expected, as the default TEMPro growth is based on planned development assumptions from 2011, which are likely to exceed committed developments, but to be lower than the 2018 Draft Local Plan forecasts. Table 5-3 also shows that there is a significant increase in growth, due to the committed developments only.

5.5 HIGHWAY TRIP GROWTH

5.5.1 CAR TRIPS

Tables 5-4 and 5-5 below show the car trip matrix totals (i.e. excluding LGV and HGV) and growth above the base year for each of the six forecast scenarios. The growth of forecast car trips from the base is compared with the level of growth calculated by applying the TEMPro alternative growth rates in Table 5-3.

If the forecast scenario includes the required level of growth, then the trip matrix growth should be similar to the TEMPro alternative.

Table 5-4 - Car Trips and Growth in York Model 2033 Forecasts – AM Peak (PCU)

	Car Total	Growth	Target TEMPRO Alternative Based Growth	Difference	% Difference
Base	28,502	0	0		
Scenario 1	33,645	5,143	6,322	-1,179	-19%
Scenario 2	32,995	4,493	6,322	-1,829	-29%
Scenario 3	33,661	5,159	6,322	-1,163	-18%
Scenario 4	34,410	5,908	6,322	-414	-7%
Scenario 5	34,776	6,274	6,322	-48	-1%
Scenario 6	34,405	5,903	6,322	-419	-7%

Table 5-5 - Car Trips and Growth in York Model 2033 Forecasts – PM Peak (PCU)

	Car Total	Growth	Target TEMPRO Alternative Based Growth	Difference	% Difference
Base	33,623	0	0		
Scenario 1	39,689	6,066	7,300	-1,234	-17%
Scenario 2	38,952	5,329	7,300	-1,971	-27%
Scenario 3	39,697	6,074	7,300	-1,226	-17%
Scenario 4	39,543	5,920	7,300	-1,380	-19%
Scenario 5	40,220	6,597	7,300	-703	-10%
Scenario 6	39,999	6,376	7,300	-924	-13%

Comparison of the car trip growth in the six model scenarios in Tables 5-4 and 5-5, with TEMPro growth in Table 5-3, shows the following:

- Growth for Scenarios 1,2, 3 and 4 lies in between the TEMPro with defaults and TEMPro with Local Plan assumptions.
- In particular, the growth for Scenario 5 and 6 is close to the TEMPro with Local Plan assumptions.
- With Scenario 6, the AM Peak is within 7% and the PM peak within 13% of the growth forecast from the TEMPro with Local Plan Assumptions.
- The Scenario 6 AM Peak shortfall is less than 500 car trips. This is significantly less than the shortfall for the AM Peak calculated by SYSTRA of 3,700 trips.
- The Scenario 6 PM Peak shortfall is less than 1000 car trips. This is also significantly less than the shortfall for the PM Peak calculated by SYSTRA of 3,400 trips.

The car trip totals in Table 5-4 are shown graphically in Figures 5-1 and 5-2 below.

Figure 5-1 - AM Car Trips from Forecast Scenarios (PCU)

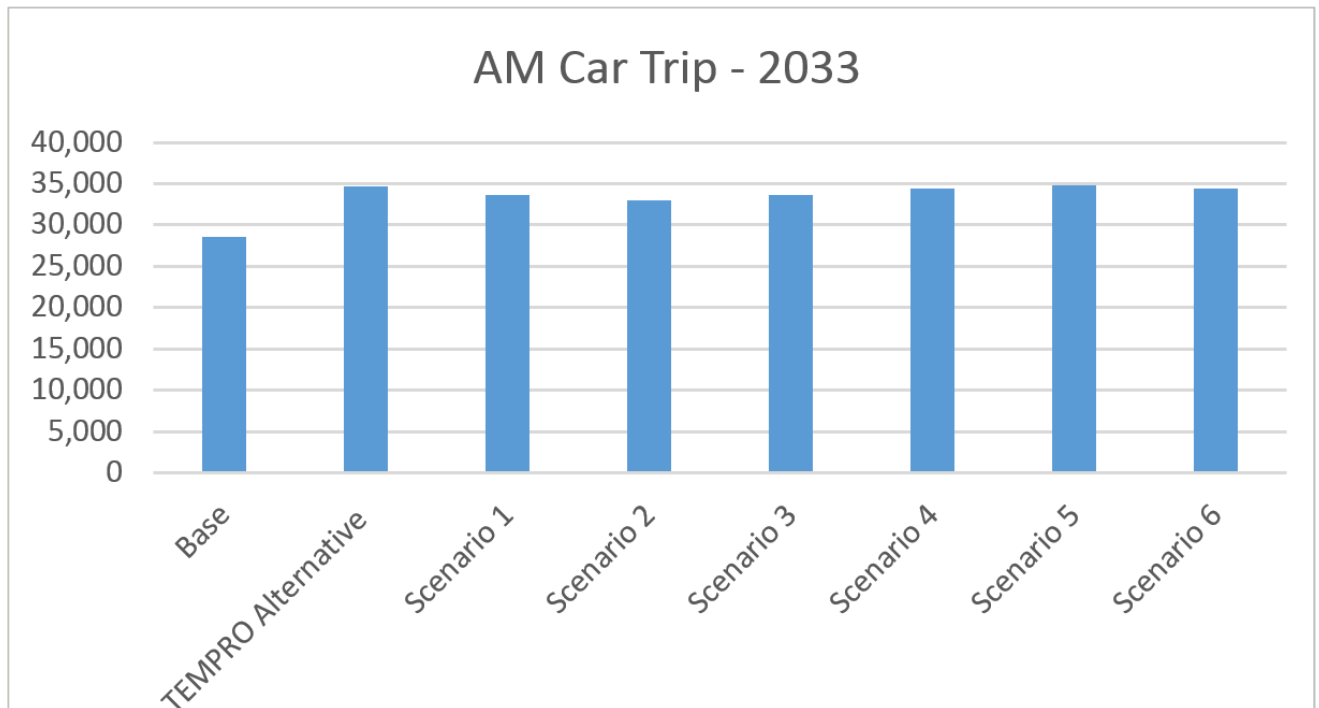
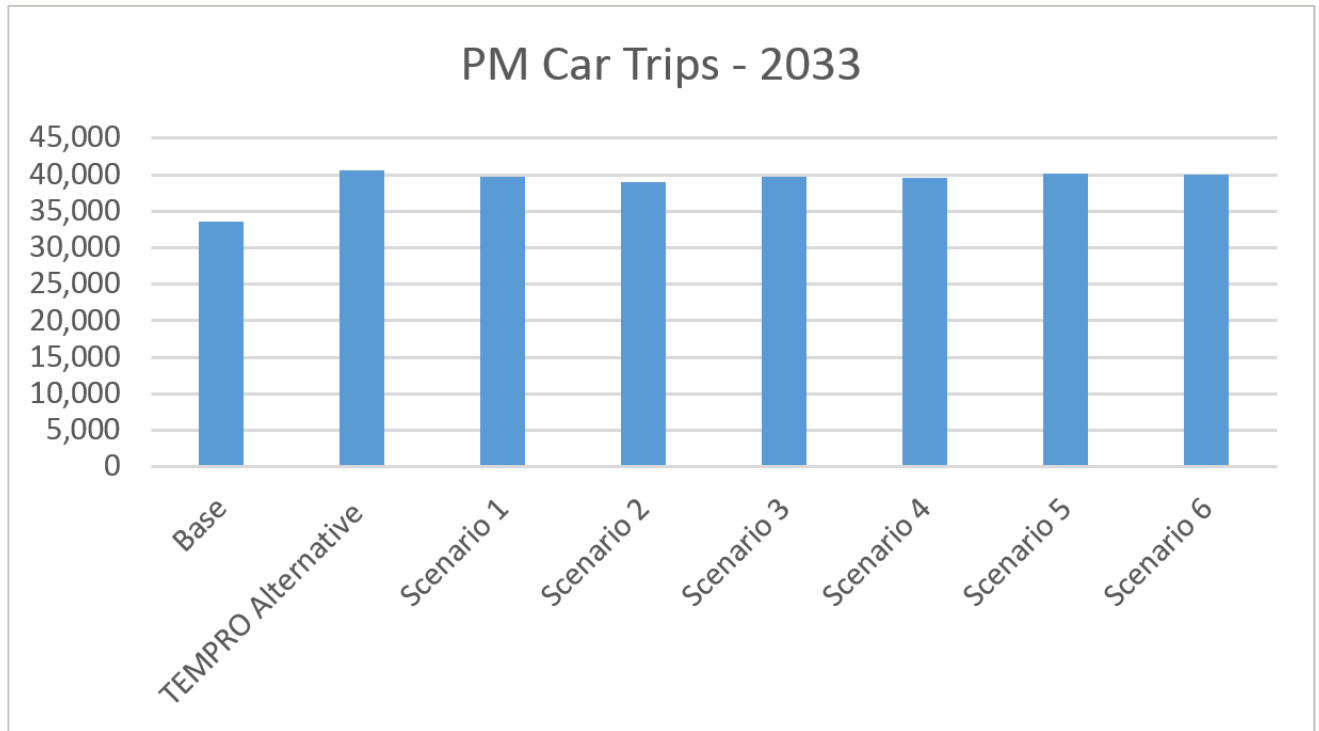


Figure 5-2 - PM Car Trips from Forecast Scenarios (PCU)



5.5.2 GOODS VEHICLES

The National Transport Model (NTM) growth factors for LGV and HGV for Yorkshire and Humberside are shown in Table 5-6.

Table 5-6 - NTM Growth Factors for LGV and HGV – 2016 to 2033 (source: RTF 2018)

	AM	PM
LGV	1.25	1.24
HGV	1.01	1.00

For comparison, the LGV and HGV growth in the CoYM scenarios are shown in Table 5-7 and Table 5-8 below.

Table 5-7 - LGV Trip Growth in York Model Forecasts above Base (PCU)

PCU	LGV Trip Matrix Totals – AM Peak	AM Peak LGV Matrix Growth	LGV Trip Matrix Totals – PM Peak	PM Peak LGV Matrix Growth
Base	3,626		2,613	
Scenario 1	5,536	1.53	3,969	1.52
Scenario 2	4,236	1.17	2,967	1.14
Scenario 3	5,536	1.53	3,969	1.52
Scenario 4	5,536	1.53	3,970	1.52
Scenario 5	5,585	1.54	4,001	1.53
Scenario 6	5,509	1.52	3,999	1.53

Except for Scenario 2, Table 5-7 shows that all the scenarios have LGV growth more than the NTM growth forecast for Yorkshire and Humberside. This indicates that all scenarios, except the Scenario 2 model, include a robust level of growth for LGV.

Table 5-8 - HGV Trip Growth in York Model Forecasts above Base (PCU)

PCU	HGV Trip Matrix Totals – AM Peak	AM Peak HGV Matrix Growth	HGV Trip Matrix Totals – PM Peak	PM Peak HGV Matrix Growth
Base	2,075		1,131	
Scenario 1	2,437	1.17	1,323	1.17
Scenario 2	2,312	1.11	1,224	1.08
Scenario 3	2,437	1.17	1,324	1.17
Scenario 4	2,437	1.17	1,324	1.17
Scenario 5	2,458	1.18	1,334	1.18
Scenario 6	2,425	1.17	1,334	1.18

Table 5-8 shows that all the scenarios have HGV growth more than the NTM growth forecast for Yorkshire and Humberside. This indicates that all six model scenarios include a robust level of growth for HGV.

5.5.3 ALL USER CLASSES

The combined user class matrix totals are shown in Table 5-8 below. The totals are compared to those that would be obtained from applying TEMPro alternative growth factors to the cars and the NTM based factors for the LGV and HGV. The total target would be 41,443 trips in the AM peak and 45,307 trips in the PM peak.

Table 5-9 - All User Class Trip Growth in York Model Forecasts above Base

PCU	Trip Matrix Totals – AM Peak	AM Peak Matrix Growth from Base	Growth diff from TEMPro with alternatives	Trip Matrix Totals – PM Peak	PM Peak Matrix Growth from Base	Growth diff from TEMPro with alternatives
Base	34,203			37,367		
Scenario 1	41,618	1.22	2.4%	44,981	1.20	-4.1%
Scenario 2	39,543	1.16	-26.2%	43,143	1.15	-27.3%
Scenario 3	41,634	1.22	2.6%	44,990	1.20	-4.0%
Scenario 4	42,383	1.24	13.0%	44,837	1.20	-5.9%
Scenario 5	42,819	1.25	19.0%	45,555	1.22	3.1%
Scenario 6	42,339	1.24	12.4%%	45,332	1.21	0.3%

Table 5.9 shows that, for Scenario 6, the AM peak matrix total is 12% higher than the calculated total and the PM peak matrix total is almost the same as the calculated total.

5.6 STRATEGIC SITE TRIPS

As noted above, the trips in the forecast matrices of the six scenarios differ from that which would be expected from the Development Spreadsheet. This is partly due to amendments to the matrix trips during the CUBE modelling process. Therefore, a comparison has been undertaken by WSP of the trips calculated in the Development Spreadsheet for the 21 Strategic Developments in the Draft Local Plan, and the equivalent in the six scenario trip matrices.

The comparison has used two statistical measures:

- The number of sites where the trip ends are within 15% of the calculated trip totals
- The number of sites where the difference in trip ends, as calculated using the GEH statistic (see **Appendix A**) is less than or equal to 5.

The comparison is summarised in Tables 5-10 and 5-11 below. The comparison for each individual strategic development zone is given in **Appendix B**.

Table 5-10 - Strategic Development Trip Comparison with Calculated Trips – AM Peak

	Origins – <15% diff	Destinations - <15% diff	Origins – GEH<5	Destinations – GEH<5
Scenario 1	62%	5%	81%	48%
Scenario 2	48%	5%	86%	52%
Scenario 3	62%	5%	81%	48%
Scenario 4	67%	29%	86%	81%
Scenario 5	71%	33%	90%	71%
Scenario 6	90%	43%	95%	95%

Table 5-11 - Strategic Development Trip comparison with Calculated Trips – PM Peak

	Origins – <15% diff	Destinations - <15% diff	Origins – GEH<5	Destinations – GEH<5
Scenario 1	52%	57%	90%	90%
Scenario 2	57%	52%	90%	90%
Scenario 3	52%	57%	90%	90%
Scenario 4	48%	24%	86%	86%
Scenario 5	52%	71%	95%	95%
Scenario 6	48%	95%	100%	95%

Tables 5-10 and 5-11 show that Scenario 6 most closely matches the calculated car trip total for Strategic Site trips, with Scenarios 4 and 5 being the next best matches.

5.7 TRIP LENGTH DISTRIBUTIONS

As noted in Table 5-1, Scenarios 5 and 6 were created by applying the process of furnessing to the Scenario 4 trip matrices. Due to the possibility of the trip patterns being distorted by the furnessing, the trip length distribution of Scenarios 5 and 6 matrices have been compared with that of Scenario 4.

Figures 5-3 and 5-4 below show the trip length distribution graphs, comparing Scenario 5 with Scenario 4.

Figure 5-3 - Scenario 4 vs Scenario 5 AM Peak Trip Length Distribution

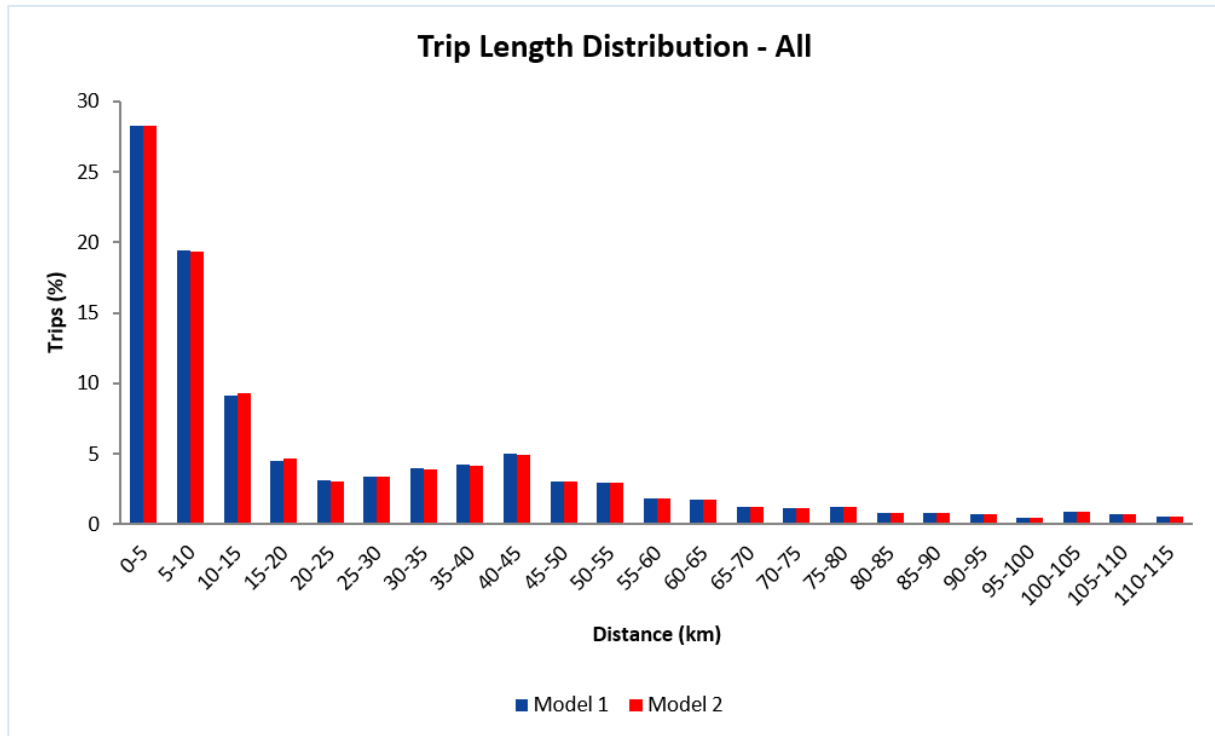
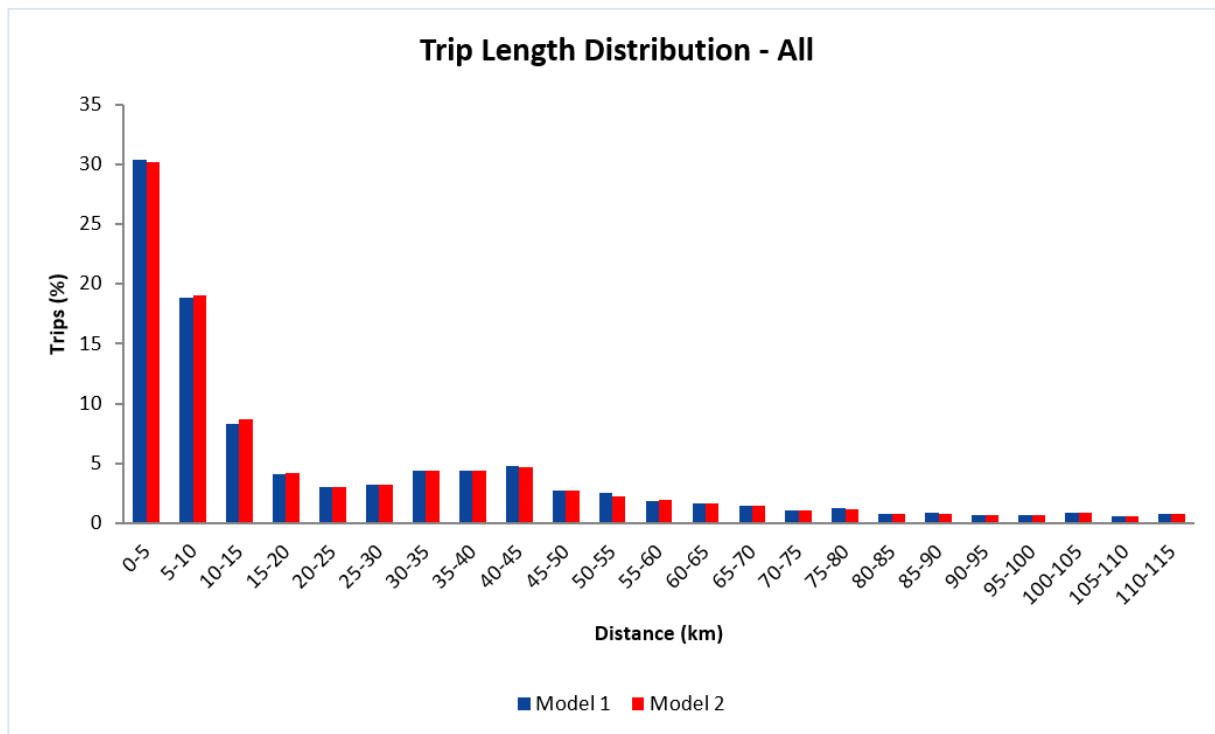


Figure 5-4 - Scenario 4 vs Scenario 5 PM Peak Trip Length Distribution



Figures 5-3 and 5-4 show that the trip length distributions for Scenario 4 and 5 are very similar.

Figures 5-5 and 5-6 below show the trip length distribution graphs comparing Scenario 6 with Scenario 4.

Figure 5-5 - Scenario 4 vs Scenario 6 AM Peak Trip Length Distribution

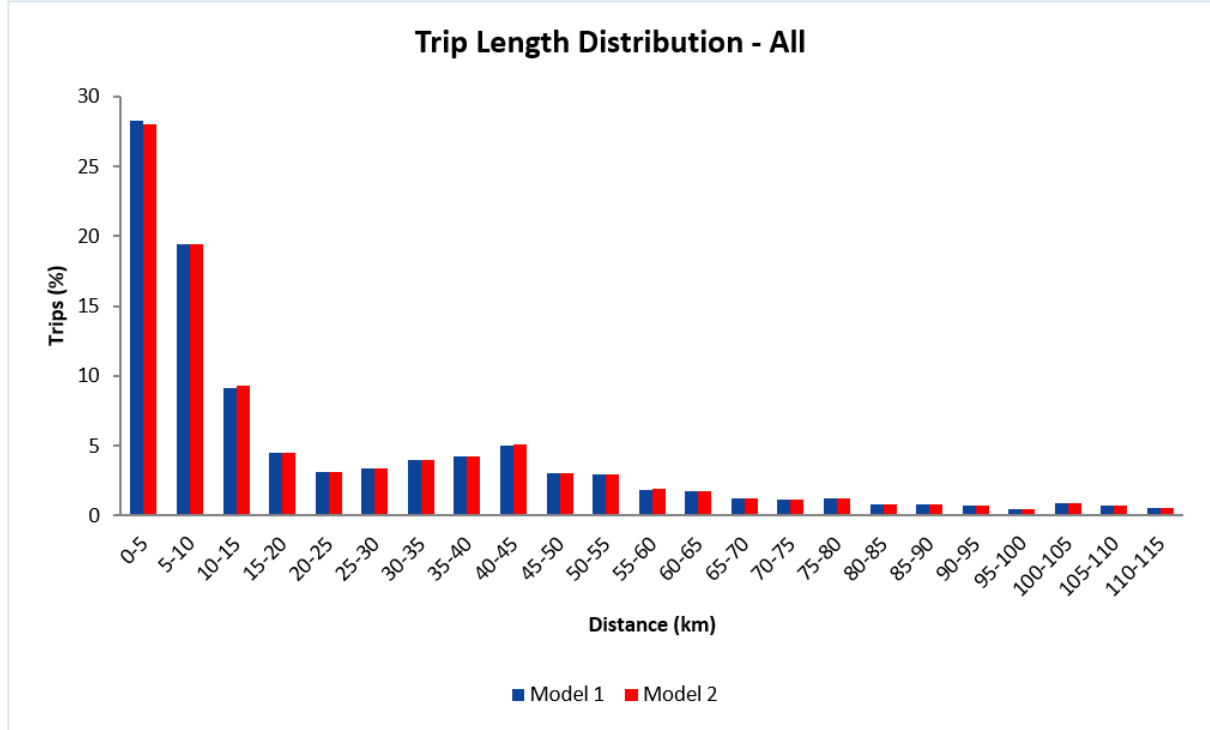
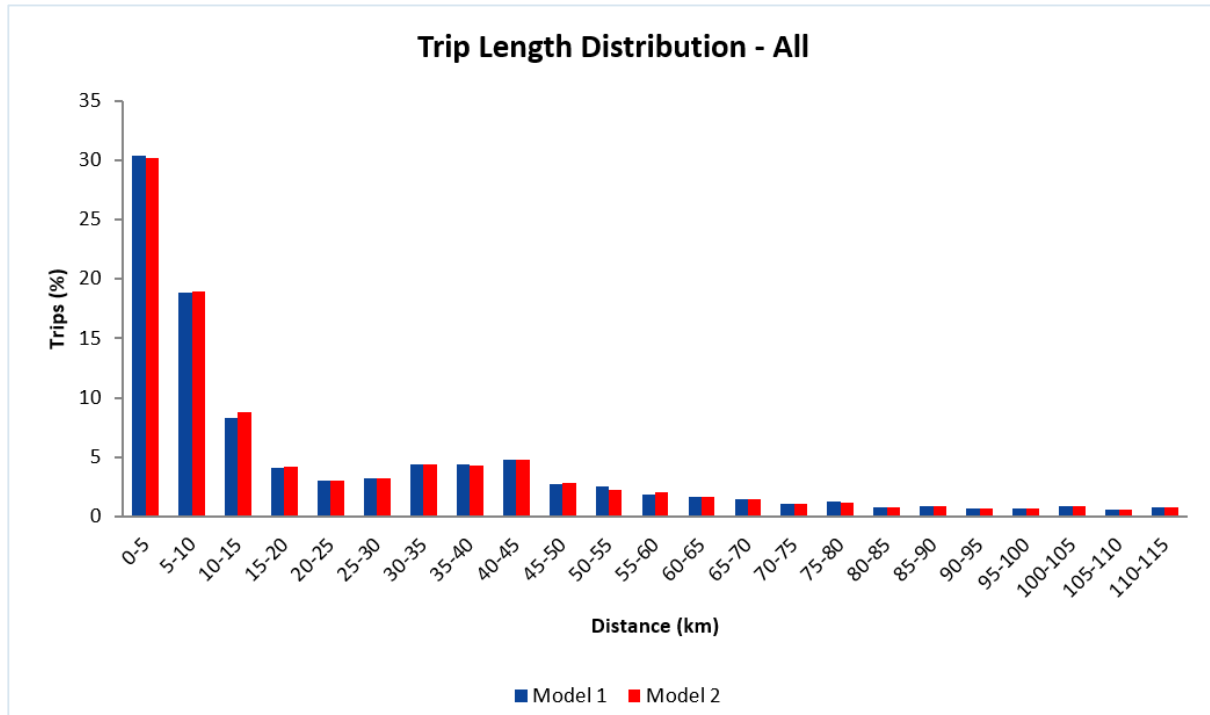


Figure 5-6 - Scenario 4 vs Scenario 6 PM Trip Length Distribution



As with Scenario 5, Scenario 6 has a similar trip length distribution to Scenario 4.

The trip length distribution tests indicate that the furnishing has not significantly changed the trip patterns for the forecast trip matrices.

5.8 REVIEW OF SCENARIOS

In summary, our findings from a review of the forecasting scenario are as follows:

Scenario 1 includes the Local Plan Development Trips combined with default TEMPro growth, with the overall trip matrices capped to default TEMPro growth. The Strategic Development trips are concentrated in certain areas, and hence these trips are likely to be significantly affected by the TEMPro capping.

Comparison of the car trip growth from the Scenario 1 matrices with TEMPro alternative assumptions shows that Scenario 1 growth is between Committed trip based TEMPro growth and Local Plan based TEMPro growth. Comparison of the calculated strategic site car trip ends in the Development Spreadsheet with the Scenario 1 model strategic site car trip ends shows significant differences. Overall this indicates that the TEMPro capping is reducing the strategic trips, though not completely reducing the matrix down to the default TEMPro level.

Scenario 2 includes the unconstrained Local Plan Development Trips, with no background trip growth due to TEMPro. Scenario 2 has the lowest total trip growth, being significantly lower than the Local Plan alternative planning assumption based TEMPro growth. However, comparison of the calculated Strategic Development site trip numbers in the Development Spreadsheet with the equivalent Scenario 2 trips doesn't show a close match. This indicates that the CUBE modelling process has reduced the Strategic Development trips.

Scenario 3 is a hybrid between Scenario 1 and Scenario 2, with the Strategic Site trips from Scenario 1 replaced with those from Scenario 2. The replacement happens prior to use of the CUBE demand model process. The overall trip totals for the output matrices for Scenario 3 are very similar to those for Scenario 1. Also, the Strategic Development Zone trips do not match the values calculated from the housing and development data. This indicates that the CUBE modelling process has altered the Strategic Development trips significantly.

Scenario 4 is a variant of Scenario 3. In Scenario 4, the Strategic Development trips in Scenario 1 are not replaced by those from Scenario 2, but instead the Scenario 1 Strategic Development trips are multiplied so that the trip end totals reach the values calculated from the housing and employment data. This ensures that the O-D pattern remains close to Scenario 1 while bringing the trip total close to that which is calculated. This process is undertaken prior to using the CUBE demand model.

The trip total in the AM peak is significantly higher than for Scenarios 1 and 3, indicating that this approach has partially succeeded in the AM peak. In the PM peak however, the number of trips is very similar to Scenarios 1 and 3. In the AM peak, based on the GEH values, the Strategic Development trip zone trip numbers are closer to the calculated values, though this is not the case in the PM Peak.

In **Scenario 5**, the Scenario 4 matrix has been furnished to improve the Strategic Development Site Zone trip totals to more closely fit with the values calculated from the housing and development data for these sites. The total trips have increased in comparison to Scenario 4. The Scenario 5 increase is closest to the Local Plan alternative planning assumptions based TEMPro forecasts. The trips in the Strategic Development Trip Zones also more closely match the calculated totals.

Scenario 6 is due to additional iterations of furnessing, which brings the Strategic Development trips very close to the values calculated from the housing and development data for these sites, while reducing the overall trip matrices, in comparison to Scenario 4. The Scenario 6 car trip increase from the base model is close to the Local Plan alternative planning assumptions based TEMPro forecasts.

These findings are summarised in Table 5-12 below. Each forecast scenario has been created by different processes, and each is evaluated based on the forecast trip volume, trip ends from strategic sites and the trip distribution. A red, amber and green classification has been used to indicate how closely the scenario fits with the expected values.

Table 5-12 - Summary of Scenarios

	Trip Volumes	Strategic Trip Ends	Trip Distribution
Scenario 1	Total Trip Volumes less than expected, as TEMPro constraints have removed some strategic development growth.	Development trip ends differ significantly from expected values.	Trip distribution similar to base.
Scenario 2	No background growth. Only Strategic Site growth added. Overall trip volumes lower than expected.	Development trip ends differ significantly from expected values.	Trip distribution similar to base.
Scenario 3	Total Trip Volumes less than expected, as CUBE model has removed some development growth.	Development trip ends differ significantly from expected values.	Trip distribution similar to base.
Scenario 4	Total Trip Volumes close to expected in AM Peak but not in PM Peak.	Development trip ends differ from expected values.	Trip distribution similar to base.
Scenario 5	Total Trip Volumes close to expected.	Development trip ends differ from expected values.	Trip distribution similar to base.
Scenario 6	Total Trip Volumes close to expected.	Development trip ends are close to expected.	Trip distribution similar to base.

5.9 DO MINIMUM SCENARIO

Each of the six scenarios modelled represents a variant of the trips forecast due to the Local Plan developments, and can therefore be considered as Do Something scenarios. There is currently no forecast scenario that represents an appropriate Do Minimum, where only committed forecast developments are modelled, i.e. without the proposed Local Plan developments.

The modelling of a Do Minimum Scenario would enable a more accurate understanding of the impact of the Local Plan developments, by providing a suitable Scenario to compare against.

6 CONCLUSIONS AND RECOMMENDATIONS

WSP has undertaken a review of the CoYM, especially focussing on the model structure, trip rates, the six forecasting methodologies and the approach to TEMPro capping. The main findings are summarised below:

6.1 MODEL STRUCTURE

The review looked at the CoYM structure and methodology and found that the model structure is sufficiently robust for the assessment of the Local Plan. However, the model does not comply with the latest DfT TAG guidance, as the time choice responses are not included. Furthermore, some limitations may result from the model being based on Origins-Destinations instead of Productions-Attractions. Therefore, the CoYM may not be sufficient for the appraisal of business cases of specific transport schemes.

6.2 TRIP RATES

The review compared the trip rates used in the CoYM with trip rates extracted from the TRICS database, and from Highways England's RaCHEI model. The CoYM trip rates were found to be higher than those from HE's model, though lower than from the TRICS database. Mode splits in the CoYM were compared with those in NTEM, and found to be broadly comparable. The review concluded that the trip rates and model splits used in the CoYM are robust for modelling the Local Plan.

6.3 TEMPRO CAPPING

The WSP review then compared the forecasts of the scenarios with the default TEMPro growth, as well as alternative TEMPro growth, based on committed developments only and TEMPro growth based on the Local Plan developments to 2033. The review found that the matrix growth for Scenarios 1,2 and 3 were in between the committed and Local Plan to 2033 TEMPro alternatives, while Scenario 4, 5 and 6, were close to the Local Plan 2033 TEMPro alternative.

The review also compared the Strategic Development trip totals calculated in the Development Spreadsheet with those in the modelled output matrices, and found that Scenario 6 was the closest match.

6.4 TRIP DISTRIBUTION

The review indicated that Scenario 6 is the best scenario for modelling the Local Plan Developments. However, as Scenario 6 was created from furnishing the matrices from Scenario 4, there was a possibility that the distribution patterns in the matrices may have been significantly altered. Therefore, the trip length distributions of the Scenario 6 and Scenario 4 trip matrices were compared. These were found to be similar.

6.5 DO MINIMUM

At present there is no Do Minimum scenario modelled and as such it is not possible to quantify the impact of the Local Plan developments over and above a business as normal case and considering the level of committed development in the City of York.

6.6 RISKS

Our review has considered several modelling risks, which are recorded in Table 6-1 below.

Table 6-1 - Risk Register

Risk Item	Outcome	Mitigation
Strategic Trips. Model trips from strategic development zones may not reflect the values estimated from the Local Plan based estimates.	Model forecasts called into question.	WSP review concludes that Scenario 6 forecasts should be used. The strategic development trips modelled in Scenario 6 are close to those calculated from the Local Plan housing and employment areas.
Forecast Traffic Growth. Uncertainty on traffic forecast growth may lead to under estimating traffic impact.	Model forecasts called into question.	WSP review concludes that Scenario 6 forecasts should be used. Scenario 6 has significantly higher growth than TEMPro on its own, where TEMPro is the DfT recommended core forecast for schemes appraisal. Therefore, further mitigation is not needed.
Mode Choice. The Mode splits from the MATT model may lead to underestimating car trips.	Model forecasts called into question.	WSP has reviewed Mode Splits and considers them to be appropriate, as they are comparable to TEMPro. Therefore, further mitigation is not recommended.
Trip Rates. Trip rates used to calculate trips may be underestimating trip generation.	Model forecasts called into question.	WSP has reviewed Mode Splits and found them to be higher than DfT trip rates. Therefore, further mitigation is not recommended.
Time Period Choice. This has not been considered within the model responses.	Model forecasts called into question.	P/A model may be required instead for Time Period Choice. Though not feasible to change during Local Plan Examination, this should be considered during long term planning of the model.
Zone Definition. The zonal definition in the model may be too coarse for the assessment of some local schemes.	Assessment of some local schemes may be inaccurate.	Improve zonal definition in relevant areas if needed. Though not feasible to change during Local Plan Examination, this should be considered during long term planning of the model.
Model Structure and Hierarchy do not follow the most up to date Transport Appraisal Guidance from the DfT.	Model forecasts called into question.	Though not feasible to change during Local Plan Examination, this should be considered during long term planning of the model.

6.7 RECOMMENDATIONS

Based on the findings presented in this review, we recommend:

- 1) That the transport impacts of the Local Plan Developments are best modelled using Scenario 6.
- 2) The development of a Do Minimum scenario based on the committed development based trips only. The impacts of the Local Plan (i.e., Scenario 6) should then be assessed in comparison to the Do-Minimum scenario.

APPENDIX A – GEH STATISTIC

The GEH statistic, which is a form of the Chi-squared statistic that incorporates both relative and absolute errors, is defined as follows:

$$GEH = \sqrt{\frac{(M - C)^2}{(M + C)/2}}$$

GEH is the GEH statistic;
M is the modelled flow; and
C is the observed flow.

APPENDIX B – STRATEGIC TRIPS – MATRIX VERSUS DEVELOPMENT SPREADSHEET

Table B1: Scenario 1 AM Strategic Car Trips (Vehicles)

Scenario 1 AM				Calculated from Local Plan		Modelled Trips		% Difference		GEH	
SHLAA Ref	Name	Zone	Type	O	D	O	D	O	D	O	D
ST1	British Sugar	631	res	335	133	328	72	-2%	-46%	0.4	6.0
ST2	Civil Service Sports Ground	328	res	74	29	73	31	-2%	5%	0.2	0.3
ST4	Land Adjacent to Hull Road	325	res	60	24	81	34	36%	43%	2.5	1.9
ST5	York Central	412	res	298	116	217	60	-27%	-48%	5.1	6.0
ST5	York Central	34	emp	58	723	84	490	44%	-32%	3.0	9.5
ST7	Land East of Metcalfe Lane	323	res	239	94	286	60	20%	-37%	2.9	4.0
ST8	Land North of Monks Cross	221	res	270	107	242	89	-11%	-17%	1.8	1.9
ST9	Land North of Haxby	327	res	290	86	279	130	-4%	50%	0.6	4.2
ST14	Land West of Wigginton Road	411	res	497	148	430	104	-14%	-30%	3.1	3.9
ST15	Land West of Elvington Road	329	res	1405	431	729	300	-48%	-30%	20.7	6.9
ST16	Terry's Extension Sites	501	res	103	42	109	94	6%	126%	0.6	6.3
ST17	Nestle South	632	res	241	96	233	48	-3%	-50%	0.5	5.7
ST19	Land at Northminster Business Park	633	emp	63	408	77	296	22%	-27%	1.7	6.0
ST26	Land South of Airfield Business Park, Elvington	635	emp	30	182	29	138	-3%	-24%	0.2	3.5
ST27	University of York Expansion	634	emp	22	269	23	169	6%	-37%	0.3	6.7
ST31	Land at Tadcaster Road, Copmanthorpe	524	res	66	20	65	44	-2%	116%	0.2	4.2
ST32	Hungate	106	res	99	29	89	23	-10%	-21%	1.0	1.2
ST33	Wheldrake	223	res	24	10	22	46	-10%	382%	0.5	6.9
ST35	Queen Elizabeth Barracks	811	res	197	59	209	95	6%	61%	0.8	4.1
ST36	Imphal Barracks	408	res	156	63	86	120	-45%	92%	6.3	6.0
ST37	Whitehall Grange, Wigginton Road	630	emp	34	198	93	405	172%	104%	7.4	11.9
% of Strategic Site Passing Criteria								62%	5%	81%	48%

Table B2: Scenario 1 PM Strategic Car Trips (Vehicles)

Scenario 1 PM				Calculated from Local Plan		Modelled Trips		% Difference		GEH	
SHLAA Ref	Name	Zone	Type	O	D	O	D	O	D	O	D
ST1	British Sugar	631	res	147	234	98	213	-34%	-9%	4.5	1.4
ST2	Civil Service Sports Ground	328	res	33	52	22	51	-33%	-1%	2.1	0.1
ST4	Land Adjacent to Hull Road	325	res	26	42	23	43	-12%	4%	0.6	0.3
ST5	York Central	412	res	129	208	84	159	-35%	-23%	4.4	3.6
ST5	York Central	34	emp	576	62	641	73	11%	17%	2.6	1.3
ST7	Land East of Metcalfe Lane	323	res	105	167	91	150	-13%	-10%	1.4	1.4
ST8	Land North of Monks Cross	221	res	119	189	87	157	-27%	-17%	3.2	2.4
ST9	Land North of Haxby	327	res	96	202	94	202	-2%	0%	0.2	0.0
ST14	Land West of Wigginton Road	411	res	164	347	155	270	-6%	-22%	0.7	4.4
ST15	Land West of Elvington Road	329	res	478	980	340	551	-29%	-44%	6.8	15.5
ST16	Terry's Extension Sites	501	res	46	72	53	74	15%	2%	1.0	0.2
ST17	Nestle South	632	res	106	168	72	157	-32%	-6%	3.6	0.9
ST19	Land at Northminster Business Park	633	emp	344	60	296	47	-14%	-21%	2.7	1.7
ST26	Land South of Airfield Business Park, Elvington	635	emp	154	28	167	30	8%	6%	1.0	0.3
ST27	University of York Expansion	634	emp	214	23	200	20	-7%	-13%	1.0	0.6
ST31	Land at Tadcaster Road, Copmanthorpe	524	res	23	46	26	52	13%	12%	0.6	0.8
ST32	Hungate	106	res	39	70	32	62	-17%	-12%	1.1	1.0
ST33	Wheldrake	223	res	11	17	9	23	-12%	38%	0.4	1.4
ST35	Queen Elizabeth Barracks	811	res	65	138	73	139	12%	1%	0.9	0.1
ST36	Imphal Barracks	408	res	69	109	197	80	184%	-26%	11.0	2.9
ST37	Whitehall Grange, Wigginton Road	630	emp	169	32	204	80	20%	151%	2.5	6.4
% of Strategic Site Passing Criteria								52%	57%	90%	90%

Table B3: Scenario 2 AM Strategic Car Trips (Vehicles)

Scenario 2 AM				Calculated from Local Plan		Modelled Trips		% Difference		GEH	
SHLAA Ref	Name	Zone	Type	O	D	O	D	O	D	O	D
ST1	British Sugar	631	res	335	133	354	75	6%	-44%	1.0	5.7
ST2	Civil Service Sports Ground	328	res	74	29	79	32	7%	8%	0.6	0.4
ST4	Land Adjacent to Hull Road	325	res	60	24	87	34	46%	43%	3.2	1.9
ST5	York Central	412	res	298	116	236	62	-21%	-47%	3.8	5.8
ST5	York Central	34	emp	58	723	86	484	47%	-33%	3.2	9.7
ST7	Land East of Metcalfe Lane	323	res	239	94	304	61	27%	-35%	3.9	3.7
ST8	Land North of Monks Cross	221	res	270	107	263	91	-3%	-15%	0.4	1.7
ST9	Land North of Haxby	327	res	290	86	329	132	13%	53%	2.2	4.3
ST14	Land West of Wigginton Road	411	res	497	148	452	110	-9%	-26%	2.1	3.4
ST15	Land West of Elvington Road	329	res	1405	431	950	334	-32%	-22%	13.3	4.9
ST16	Terry's Extension Sites	501	res	103	42	119	93	15%	124%	1.4	6.3
ST17	Nestle South	632	res	241	96	249	50	3%	-48%	0.5	5.3
ST19	Land at Northminster Business Park	633	emp	63	408	88	309	40%	-24%	2.9	5.3
ST26	Land South of Airfield Business Park, Elvington	635	emp	30	182	36	145	20%	-20%	1.0	2.8
ST27	University of York Expansion	634	emp	22	269	25	177	16%	-34%	0.7	6.2
ST31	Land at Tadcaster Road, Copmanthorpe	524	res	66	20	70	43	6%	111%	0.5	4.0
ST32	Hungate	106	res	99	29	97	24	-2%	-18%	0.2	1.0
ST33	Wheldrake	223	res	24	10	28	46	16%	383%	0.8	6.9
ST35	Queen Elizabeth Barracks	811	res	197	59	226	96	15%	63%	2.0	4.2
ST36	Imphal Barracks	408	res	156	63	87	114	-44%	82%	6.3	5.5
ST37	Whitehall Grange, Wigginton Road	630	emp	34	198	97	408	184%	106%	7.8	12.1
% of Strategic Site Passing Criteria								48%	5%	86%	52%

Table B4: Scenario 2 PM Strategic Car Trips (Vehicles)

Scenario 2 PM				Calculated from Local Plan		Modelled Trips		% Difference		GEH	
SHLAA Ref	Name	Zone	Type	O	D	O	D	O	D	O	D
ST1	British Sugar	631	res	147	234	100	227	-32%	-3%	4.3	0.5
ST2	Civil Service Sports Ground	328	res	33	52	23	58	-30%	12%	1.9	0.8
ST4	Land Adjacent to Hull Road	325	res	26	42	24	55	-8%	32%	0.4	1.9
ST5	York Central	412	res	129	208	85	162	-34%	-22%	4.3	3.4
ST5	York Central	34	emp	576	62	609	70	6%	13%	1.3	1.0
ST7	Land East of Metcalfe Lane	323	res	105	167	94	160	-10%	-4%	1.1	0.5
ST8	Land North of Monks Cross	221	res	119	189	90	173	-24%	-8%	2.8	1.1
ST9	Land North of Haxby	327	res	96	202	107	261	12%	29%	1.2	3.9
ST14	Land West of Wigginton Road	411	res	164	347	157	312	-4%	-10%	0.6	1.9
ST15	Land West of Elvington Road	329	res	478	980	365	637	-24%	-35%	5.5	12.1
ST16	Terry's Extension Sites	501	res	46	72	53	82	15%	14%	1.0	1.2
ST17	Nestle South	632	res	106	168	73	164	-31%	-3%	3.5	0.3
ST19	Land at Northminster Business Park	633	emp	344	60	318	55	-8%	-7%	1.5	0.6
ST26	Land South of Airfield Business Park, Elvington	635	emp	154	28	167	42	8%	51%	1.0	2.4
ST27	University of York Expansion	634	emp	214	23	206	22	-4%	-4%	0.6	0.2
ST31	Land at Tadcaster Road, Copmanthorpe	524	res	23	46	26	66	14%	42%	0.6	2.6
ST32	Hungate	106	res	39	70	33	68	-14%	-3%	0.9	0.2
ST33	Wheldrake	223	res	11	17	10	38	-8%	123%	0.3	4.0
ST35	Queen Elizabeth Barracks	811	res	65	138	75	177	16%	28%	1.2	3.1
ST36	Imphal Barracks	408	res	69	109	180	80	159%	-27%	9.9	3.0
ST37	Whitehall Grange, Wigginton Road	630	emp	169	32	219	134	30%	322%	3.6	11.3
% of Strategic Site Passing Criteria								57%	52%	90%	90%

Table B5: Scenario 3 AM Strategic Car Trips (Vehicles)

Scenario 3 AM				Calculated from Local Plan		Modelled Trips		% Difference		GEH	
SHLAA Ref	Name	Zone	Type	O	D	O	D	O	D	O	D
ST1	British Sugar	631	res	335	133	356	74	6%	-44%	1.1	5.8
ST2	Civil Service Sports Ground	328	res	74	29	73	31	-2%	5%	0.1	0.3
ST4	Land Adjacent to Hull Road	325	res	60	24	81	34	36%	43%	2.5	1.9
ST5	York Central	412	res	298	116	217	60	-27%	-48%	5.1	6.0
ST5	York Central	34	emp	58	723	84	490	44%	-32%	3.0	9.5
ST7	Land East of Metcalfe Lane	323	res	239	94	286	60	20%	-37%	2.9	4.0
ST8	Land North of Monks Cross	221	res	270	107	242	89	-11%	-17%	1.8	1.9
ST9	Land North of Haxby	327	res	290	86	279	130	-4%	50%	0.6	4.2
ST14	Land West of Wigginton Road	411	res	497	148	429	104	-14%	-29%	3.2	3.9
ST15	Land West of Elvington Road	329	res	1405	431	729	300	-48%	-30%	20.7	6.9
ST16	Terry's Extension Sites	501	res	103	42	109	94	6%	126%	0.6	6.3
ST17	Nestle South	632	res	241	96	233	48	-3%	-50%	0.5	5.7
ST19	Land at Northminster Business Park	633	emp	63	408	77	297	22%	-27%	1.6	6.0
ST26	Land South of Airfield Business Park, Elvington	635	emp	30	182	29	138	-3%	-24%	0.2	3.5
ST27	University of York Expansion	634	emp	22	269	23	169	6%	-37%	0.3	6.7
ST31	Land at Tadcaster Road, Copmanthorpe	524	res	66	20	65	44	-2%	116%	0.2	4.2
ST32	Hungate	106	res	99	29	89	23	-10%	-21%	1.0	1.2
ST33	Wheldrake	223	res	24	10	22	46	-10%	382%	0.5	6.9
ST35	Queen Elizabeth Barracks	811	res	197	59	209	95	6%	61%	0.8	4.1
ST36	Imphal Barracks	408	res	156	63	86	120	-45%	92%	6.3	6.0
ST37	Whitehall Grange, Wigginton Road	630	emp	34	198	93	405	172%	104%	7.4	11.9
% of Strategic Site Passing Criteria								62%	5%	81%	48%

Table B6: Scenario 3 PM Strategic Car Trips (Vehicles)

Scenario 3 PM				Calculated from Local Plan		Modelled Trips		% Difference		GEH	
SHLAA Ref	Name	Zone	Type	O	D	O	D	O	D	O	D
ST1	British Sugar	631	res	147	234	99	234	-33%	0%	4.4	0.0
ST2	Civil Service Sports Ground	328	res	33	52	22	51	-33%	-1%	2.1	0.1
ST4	Land Adjacent to Hull Road	325	res	26	42	23	43	-11%	4%	0.6	0.2
ST5	York Central	412	res	129	208	84	159	-35%	-23%	4.4	3.6
ST5	York Central	34	emp	576	62	642	73	11%	17%	2.7	1.3
ST7	Land East of Metcalfe Lane	323	res	105	167	91	150	-13%	-10%	1.4	1.4
ST8	Land North of Monks Cross	221	res	119	189	87	157	-27%	-17%	3.2	2.4
ST9	Land North of Haxby	327	res	96	202	93	202	-2%	0%	0.2	0.0
ST14	Land West of Wigginton Road	411	res	164	347	155	270	-6%	-22%	0.7	4.4
ST15	Land West of Elvington Road	329	res	478	980	340	551	-29%	-44%	6.8	15.5
ST16	Terry's Extension Sites	501	res	46	72	53	74	15%	2%	1.0	0.2
ST17	Nestle South	632	res	106	168	72	157	-32%	-6%	3.6	0.9
ST19	Land at Northminster Business Park	633	emp	344	60	296	47	-14%	-21%	2.7	1.7
ST26	Land South of Airfield Business Park, Elvington	635	emp	154	28	167	30	8%	6%	1.0	0.3
ST27	University of York Expansion	634	emp	214	23	200	20	-7%	-13%	1.0	0.6
ST31	Land at Tadcaster Road, Copmanthorpe	524	res	23	46	25	52	13%	12%	0.6	0.8
ST32	Hungate	106	res	39	70	32	62	-17%	-12%	1.1	1.0
ST33	Wheldrake	223	res	11	17	9	23	-12%	38%	0.4	1.4
ST35	Queen Elizabeth Barracks	811	res	65	138	73	139	12%	1%	0.9	0.1
ST36	Imphal Barracks	408	res	69	109	197	80	184%	-26%	11.1	3.0
ST37	Whitehall Grange, Wigginton Road	630	emp	169	32	204	80	20%	151%	2.5	6.4
% of Strategic Site Passing Criteria								52%	57%	90%	90%

Table B7: Scenario 4 AM Strategic Car Trips (Vehicles)

Scenario 4 AM				Calculated from Local Plan		Modelled Trips		% Difference		GEH	
SHLAA Ref	Name	Zone	Type	O	D	O	D	O	D	O	D
ST1	British Sugar	631	res	335	133	361	104	8%	-22%	1.4	2.7
ST2	Civil Service Sports Ground	328	res	74	29	80	30	8%	2%	0.6	0.1
ST4	Land Adjacent to Hull Road	325	res	60	24	84	31	40%	33%	2.8	1.5
ST5	York Central	412	res	298	116	281	101	-6%	-13%	1.0	1.4
ST5	York Central	34	emp	58	723	88	860	51%	19%	3.5	4.9
ST7	Land East of Metcalfe Lane	323	res	239	94	301	68	26%	-28%	3.7	2.9
ST8	Land North of Monks Cross	221	res	270	107	274	89	1%	-17%	0.2	1.9
ST9	Land North of Haxby	327	res	290	86	318	126	10%	46%	1.6	3.8
ST14	Land West of Wigginton Road	411	res	497	148	506	131	2%	-11%	0.4	1.4
ST15	Land West of Elvington Road	329	res	1405	431	1166	414	-17%	-4%	6.7	0.8
ST16	Terry's Extension Sites	501	res	103	42	110	68	6%	62%	0.6	3.5
ST17	Nestle South	632	res	241	96	251	66	4%	-31%	0.6	3.3
ST19	Land at Northminster Business Park	633	emp	63	408	79	400	25%	-2%	1.9	0.4
ST26	Land South of Airfield Business Park, Elvington	635	emp	30	182	33	205	11%	13%	0.6	1.7
ST27	University of York Expansion	634	emp	22	269	23	180	6%	-33%	0.3	6.0
ST31	Land at Tadcaster Road, Copmanthorpe	524	res	66	20	69	42	4%	105%	0.4	3.8
ST32	Hungate	106	res	99	29	94	23	-4%	-21%	0.4	1.2
ST33	Wheldrake	223	res	24	10	26	43	9%	354%	0.4	6.6
ST35	Queen Elizabeth Barracks	811	res	197	59	225	88	14%	50%	1.9	3.4
ST36	Imphal Barracks	408	res	156	63	86	120	-45%	92%	6.3	6.0
ST37	Whitehall Grange, Wigginton Road	630	emp	34	198	93	405	172%	104%	7.4	11.9
% of Strategic Site Passing Criteria								67%	29%	86%	81%

Table B8: Scenario 4 PM Strategic Car Trips (Vehicles)

Scenario 4 PM				Calculated from Local Plan		Modelled Trips		% Difference		GEH	
SHLAA Ref	Name	Zone	Type	O	D	O	D	O	D	O	D
ST1	British Sugar	631	res	147	234	117	175	-21%	-25%	2.6	4.1
ST2	Civil Service Sports Ground	328	res	33	52	26	41	-20%	-21%	1.2	1.6
ST4	Land Adjacent to Hull Road	325	res	26	42	24	39	-8%	-8%	0.4	0.5
ST5	York Central	412	res	129	208	110	145	-15%	-30%	1.7	4.7
ST5	York Central	34	emp	576	62	400	106	-31%	70%	8.0	4.8
ST7	Land East of Metcalfe Lane	323	res	105	167	95	133	-9%	-20%	0.9	2.7
ST8	Land North of Monks Cross	221	res	119	189	98	143	-17%	-24%	2.0	3.5
ST9	Land North of Haxby	327	res	96	202	104	174	9%	-14%	0.8	2.1
ST14	Land West of Wigginton Road	411	res	164	347	177	249	8%	-28%	1.0	5.7
ST15	Land West of Elvington Road	329	res	478	980	476	584	0%	-40%	0.1	14.2
ST16	Terry's Extension Sites	501	res	46	72	47	60	2%	-17%	0.2	1.5
ST17	Nestle South	632	res	106	168	85	137	-20%	-19%	2.1	2.5
ST19	Land at Northminster Business Park	633	emp	344	60	195	57	-43%	-5%	9.1	0.4
ST26	Land South of Airfield Business Park, Elvington	635	emp	154	28	108	39	-30%	38%	4.0	1.8
ST27	University of York Expansion	634	emp	214	23	188	27	-12%	17%	1.8	0.8
ST31	Land at Tadcaster Road, Copmanthorpe	524	res	23	46	28	46	23%	-2%	1.0	0.1
ST32	Hungate	106	res	39	70	38	49	-2%	-30%	0.1	2.8
ST33	Wheldrake	223	res	11	17	10	22	-5%	27%	0.2	1.0
ST35	Queen Elizabeth Barracks	811	res	65	138	78	119	20%	-13%	1.5	1.6
ST36	Imphal Barracks	408	res	69	109	197	80	184%	-26%	11.1	3.0
ST37	Whitehall Grange, Wigginton Road	630	emp	169	32	204	80	20%	151%	2.5	6.4
% of Strategic Site Passing Criteria								48%	24%	86%	86%

Table B9: Scenario 5 AM Strategic Car Trips (Vehicles)

Scenario 5 AM				Calculated from Local Plan		Modelled Trips		% Difference		GEH	
SHLAA Ref	Name	Zone	Type	O	D	O	D	O	D	O	D
ST1	British Sugar	631	res	335	133	364	139	9%	4%	1.5	0.5
ST2	Civil Service Sports Ground	328	res	74	29	81	31	9%	4%	0.7	0.2
ST4	Land Adjacent to Hull Road	325	res	60	24	84	34	41%	42%	2.9	1.9
ST5	York Central	412	res	298	116	284	138	-5%	18%	0.8	1.9
ST5	York Central	34	emp	58	723	89	1169	53%	62%	3.6	14.5
ST7	Land East of Metcalfe Lane	323	res	239	94	304	86	27%	-9%	3.9	0.9
ST8	Land North of Monks Cross	221	res	270	107	277	100	2%	-7%	0.4	0.7
ST9	Land North of Haxby	327	res	290	86	321	129	11%	49%	1.8	4.1
ST14	Land West of Wigginton Road	411	res	497	148	511	174	3%	17%	0.6	2.0
ST15	Land West of Elvington Road	329	res	1405	431	1177	508	-16%	18%	6.4	3.6
ST16	Terry's Extension Sites	501	res	103	42	111	93	7%	124%	0.7	6.3
ST17	Nestle South	632	res	241	96	253	99	5%	3%	0.8	0.3
ST19	Land at Northminster Business Park	633	emp	63	408	80	405	27%	-1%	2.0	0.2
ST26	Land South of Airfield Business Park, Elvington	635	emp	30	182	34	286	12%	57%	0.6	6.8
ST27	University of York Expansion	634	emp	22	269	23	270	7%	1%	0.3	0.1
ST31	Land at Tadcaster Road, Copmanthorpe	524	res	66	20	70	44	5%	114%	0.4	4.1
ST32	Hungate	106	res	99	29	95	23	-4%	-21%	0.4	1.2
ST33	Wheldrake	223	res	24	10	27	45	10%	378%	0.5	6.9
ST35	Queen Elizabeth Barracks	811	res	197	59	227	94	15%	60%	2.0	4.0
ST36	Imphal Barracks	408	res	156	63	151	119	-3%	90%	0.4	5.9
ST37	Whitehall Grange, Wigginton Road	630	emp	34	198	94	401	175%	102%	7.5	11.7
% of Strategic Site Passing Criteria								71%	33%	90%	71%

Table B10: Scenario 5 PM Strategic Car Trips (Vehicles)

Scenario 5 PM				Calculated from Local Plan		Modelled Trips		% Difference		GEH	
SHLAA Ref	Name	Zone	Type	O	D	O	D	O	D	O	D
ST1	British Sugar	631	res	147	234	108	245	-27%	5%	3.5	0.7
ST2	Civil Service Sports Ground	328	res	33	52	24	55	-26%	7%	1.6	0.5
ST4	Land Adjacent to Hull Road	325	res	26	42	23	50	-11%	21%	0.6	1.3
ST5	York Central	412	res	129	208	100	221	-23%	6%	2.7	0.9
ST5	York Central	34	emp	576	62	660	87	15%	41%	3.4	2.9
ST7	Land East of Metcalfe Lane	323	res	105	167	92	180	-12%	8%	1.3	1.0
ST8	Land North of Monks Cross	221	res	119	189	92	196	-22%	4%	2.6	0.6
ST9	Land North of Haxby	327	res	96	202	98	227	2%	12%	0.2	1.7
ST14	Land West of Wigginton Road	411	res	164	347	165	372	0%	7%	0.1	1.3
ST15	Land West of Elvington Road	329	res	478	980	432	1020	-10%	4%	2.1	1.3
ST16	Terry's Extension Sites	501	res	46	72	54	76	16%	5%	1.1	0.4
ST17	Nestle South	632	res	106	168	79	181	-25%	8%	2.8	1.0
ST19	Land at Northminster Business Park	633	emp	344	60	345	59	0%	-1%	0.1	0.1
ST26	Land South of Airfield Business Park, Elvington	635	emp	154	28	173	41	12%	46%	1.4	2.2
ST27	University of York Expansion	634	emp	214	23	203	23	-5%	0%	0.8	0.0
ST31	Land at Tadcaster Road, Copmanthorpe	524	res	23	46	26	62	16%	33%	0.7	2.1
ST32	Hungate	106	res	39	70	33	69	-16%	-1%	1.1	0.1
ST33	Wheldrake	223	res	11	17	9	28	-10%	67%	0.3	2.4
ST35	Queen Elizabeth Barracks	811	res	65	138	74	158	13%	15%	1.0	1.7
ST36	Imphal Barracks	408	res	69	109	199	121	186%	12%	11.2	1.2
ST37	Whitehall Grange, Wigginton Road	630	emp	169	32	205	79	21%	149%	2.6	6.4
% of Strategic Site Passing Criteria								52%	71%	95%	95%

Table B11: Scenario 6 AM Strategic Car Trips (Vehicles)

Scenario 6 AM				Calculated from Local Plan		Modelled Trips		% Difference		GEH	
SHLAA Ref	Name	Zone	Type	O	D	O	D	O	D	O	D
ST1	British Sugar	631	res	335	133	336	103	0%	-23%	0.0	2.8
ST2	Civil Service Sports Ground	328	res	74	29	75	23	0%	-23%	0.0	1.3
ST4	Land Adjacent to Hull Road	325	res	60	24	60	19	0%	-22%	0.0	1.1
ST5	York Central	412	res	298	116	297	92	0%	-21%	0.0	2.4
ST5	York Central	34	emp	58	723	63	721	8%	0%	0.6	0.1
ST7	Land East of Metcalfe Lane	323	res	239	94	241	75	1%	-21%	0.1	2.1
ST8	Land North of Monks Cross	221	res	270	107	271	84	0%	-22%	0.0	2.4
ST9	Land North of Haxby	327	res	290	86	291	89	0%	3%	0.1	0.3
ST14	Land West of Wigginton Road	411	res	497	148	501	155	1%	5%	0.2	0.6
ST15	Land West of Elvington Road	329	res	1405	431	1453	478	3%	11%	1.3	2.2
ST16	Terry's Extension Sites	501	res	103	42	103	32	0%	-23%	0.0	1.6
ST17	Nestle South	632	res	241	96	243	76	1%	-21%	0.1	2.2
ST19	Land at Northminster Business Park	633	emp	63	408	67	407	6%	0%	0.5	0.1
ST26	Land South of Airfield Business Park, Elvington	635	emp	30	182	30	181	0%	0%	0.0	0.0
ST27	University of York Expansion	634	emp	22	269	26	272	22%	1%	1.0	0.2
ST31	Land at Tadcaster Road, Copmanthorpe	524	res	66	20	66	21	0%	1%	0.0	0.0
ST32	Hungate	106	res	99	29	99	23	0%	-21%	0.0	1.2
ST33	Wheldrake	223	res	24	10	24	8	0%	-21%	0.0	0.7
ST35	Queen Elizabeth Barracks	811	res	197	59	197	61	0%	4%	0.0	0.3
ST36	Imphal Barracks	408	res	156	63	156	48	0%	-23%	0.0	2.0
ST37	Whitehall Grange, Wigginton Road	630	emp	34	198	93	407	171%	105%	7.3	12.0
% of Strategic Site Passing Criteria								90%	43%	95%	95%

Table B12: Scenario 6 PM Strategic Car Trips (Vehicles)

Scenario 6 PM				Calculated from Local Plan		Modelled Trips		% Difference		GEH	
SHLAA Ref	Name	Zone	Type	O	D	O	D	O	D	O	D
ST1	British Sugar	631	res	147	234	114	235	-23%	0%	2.9	0.1
ST2	Civil Service Sports Ground	328	res	33	52	25	52	-22%	0%	1.4	0.0
ST4	Land Adjacent to Hull Road	325	res	26	42	21	42	-22%	0%	1.2	0.0
ST5	York Central	412	res	129	208	101	209	-21%	1%	2.6	0.1
ST5	York Central	34	emp	576	62	576	62	0%	0%	0.0	0.0
ST7	Land East of Metcalfe Lane	323	res	105	167	83	168	-21%	1%	2.3	0.1
ST8	Land North of Monks Cross	221	res	119	189	92	189	-23%	0%	2.6	0.0
ST9	Land North of Haxby	327	res	96	202	99	203	3%	0%	0.3	0.0
ST14	Land West of Wigginton Road	411	res	164	347	169	347	3%	0%	0.4	0.0
ST15	Land West of Elvington Road	329	res	478	980	491	988	3%	1%	0.6	0.2
ST16	Terry's Extension Sites	501	res	46	72	35	72	-23%	0%	1.7	0.0
ST17	Nestle South	632	res	106	168	82	169	-22%	0%	2.4	0.0
ST19	Land at Northminster Business Park	633	emp	344	60	343	60	0%	0%	0.1	0.0
ST26	Land South of Airfield Business Park, Elvington	635	emp	154	28	155	28	0%	0%	0.0	0.0
ST27	University of York Expansion	634	emp	214	23	213	23	0%	1%	0.1	0.0
ST31	Land at Tadcaster Road, Copmanthorpe	524	res	23	46	23	46	1%	0%	0.0	0.0
ST32	Hungate	106	res	39	70	31	70	-21%	0%	1.4	0.0
ST33	Wheldrake	223	res	11	17	8	17	-21%	0%	0.7	0.0
ST35	Queen Elizabeth Barracks	811	res	65	138	68	138	4%	0%	0.3	0.0
ST36	Imphal Barracks	408	res	69	109	61	109	-13%	0%	1.1	0.0
ST37	Whitehall Grange, Wigginton Road	630	emp	169	32	205	79	21%	149%	2.6	6.4
% of Strategic Site Passing Criteria								48%	95%	100%	95%



APPENDIX C – TRICS DATA SHEETS

TRICS 7.5.4

Trip Rate Parameter: Gross floor area

Filtering Summary

Land Use	06/D	HOTEL	FOOD & DRINK/FA ST FOOD - DRIVE THROUGH H
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Selected Trip Rate
Calculation
Parameter Range 225-450 sqm GFA

Actual Trip Rate
Calculation
Parameter Range 450-450 sqm GFA

Date Range Minimum: 01/01/10 Maximum: 01/12/12

Parking Spaces
Range Selected: 12 to 42 Actual: 12 to 42

Days of the week
selected Tuesday 1

Main Location Types
selected Edge of Town 1

Population <1 Mile
ranges selected 5 001 to 10 0 1

Population <5 Mile
ranges selected 5 001 to 25 0 1

Car Ownership <5
Mile ranges selected 1.1 to 1.5 1

PTAL Rating No PTAL Present 1

TRIP RATE
CALCULATION
SELECTION
PARAMETERS:

Land Use	06 - HOTEL	FOOD & DRINK
Category	D - FAST FOOD - DRIVE THROUGH	

MULTI-MODAL
TOTAL PEOPLE

Selected regions and
areas:

12 CONNAUGHT CS	SLIGO	1 days
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This section displays
the number of
survey days per
TRICS® sub-region in
the selected set

Secondary Filtering
selection:

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

Parameter: Gross floor area
450 to 450 (units:
Actual Range: sqm)
Range Selected by User: 225 to 450 (units:
sqm)

Public Transport
Provision:
Selection by: Include all surveys

Date Range: 01/01/10 to
01/12/12

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:
Tuesday 1 days

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

Selected survey types:
Manual count 1 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:
Town Centre 0
Edge of Town Centre 0
Suburban Area (PPS6 Out of Centre) 0
Edge of Town Neighbourhood Centre (PPS6 Local Centre) 1
Free Standing (PPS6 Out of Town) 0

Not Known 0

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:

Commercial Zone	Industrial Zone	Development Zone	Residential Zone	Retail Zone	Built-Up Zone	Village	Out of Town	High Street and No Sub Category.
	0			1				
	0							
	0							
	0							
	0							
	0							
	0							
	0							
	0							
	0							

This data displays the number of surveys per location sub-category within the selected set. The location sub-categories consist of

Secondary Filtering selection:

Use Class:

A5	1 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:

5,001 to 10,000	1 days

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

Population within 5 miles:

5,001 to 25,000	1 days

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

Car ownership
within 5 miles:
1.1 to 1.5 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:
No 1 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 1 days
This data displays
the number of
selected surveys
with PTAL Ratings.

LIST OF SITES
relevant to selection
parameters

Site(1): CS-06-D-01 Gross floor area: 450 sqm

Development Name: MCDONALD'S

Location: SLIGO Parking spaces: 12

Postcode: Employees: 39

Main Location Type: Edge of Town Survey Date: #####

Sub-Location Type: Retail Zone Survey Day: Tuesday

PTAL: n/a

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 and whether
the
survey
the day was a
of the manual
week and classified
date of count or
each an ATC
survey count.

Trip Rates for Key Periods	Trips per 100 sqm GFA			
	Inbound		Outbound	Total
0800-0900	2.444		0.889	3.333
1700-1800	14.444		13.111	27.555

TRIP RATE for Land
Use 06 - HOTEL
Calculation Factor:
100 sqm
FOOD & DRINK/D -
FAST FOOD - DRIVE
THROUGH

TRICS 7.5.4

Trip Rate Parameter: Gross floor area

Filtering Summary

Land Use 02/D EMPLOYMENT/INDUSTRIAL ESTATE

Selected Trip Rate Calculation 552-102000 sqm
Parameter Range GFA

Actual Trip Rate Calculation 1138-78500 sqm
Parameter Range GFA

Date Range Minimum: 01/01/10 Maximum: 28/11/17

Parking Spaces Range Selected: 18 to 1700 Actual: 18 to 1700

Days of the week selected
Monday 6
Tuesday 9
Wednesday 2
Thursday 3
Friday 3

Main Location Types selected
Edge of Town Centre 3
Suburban Area (PPS6 Out of Centre) 9
Edge of Town 9
Neighbourhood Centre (PPS6 Local Centre) 2

Population <1 Mile ranges selected
1 000 or Less 1
1 001 to 5 0 1
5 001 to 10 0 5
10 001 to 15 0 1
15 001 to 20 0 3
20 001 to 25 0 2
25 001 to 50 0 9
50 001 to 100 0 1

Population <5 Mile ranges selected
25 001 to 50 0 5
75 001 to 100 0 1
100 001 to 125 0 2
125 001 to 250 0 10
250 001 to 500 0 3
500 001 or More 2

Car Ownership <5 Mile ranges selected
0.5 or Less 1
0.6 to 1.0 11
1.1 to 1.5 10
1.6 to 2.0 1

PTAL Rating No PTAL Present 23

TRIP RATE
CALCULATION
SELECTION
PARAMETERS:

Land Use 02 - EMPLOYMENT
D - INDUSTRIAL
Category ESTATE
MULTI-MODAL
TOTAL PEOPLE

Selected regions and
areas:

2 SOUTH EAST		
ES	EAST SUSSEX	2 days
KC	KENT	1 days
3 SOUTH WEST		
BR	BRISTOL CITY	2 days
CW	CORNWALL	1 days
DV	DEVON	1 days
WL	WILTSHIRE	1 days
4 EAST ANGLIA		
CA	CAMBRIDGESHIRE	1 days
6 WEST MIDLANDS		
HE	HEREFORDSHIRE	1 days
WM	WEST MIDLANDS	2 days
YORKSHIRE & NORTH		
7 LINCOLNSHIRE		
WY	WEST YORKSHIRE	3 days
8 NORTH WEST		
LC	LANCASHIRE	1 days
MS	MERSEYSIDE	1 days
9 NORTH		
TW	TYNE & WEAR	1 days
10 WALES		
CM	CARMARTHENSHIRE	1 days
	VALE OF	
VG	GLAMORGAN	1 days
11 SCOTLAND		
AG	ANGUS	1 days
FA	FALKIRK	2 days

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

Secondary Filtering
selection:

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

Parameter: Gross floor area
1138 to 78500
Actual Range: (units: sqm)
Range Selected by 552 to 102000
User: (units: sqm)

Public Transport
Provision:

Selection by: Include all surveys

Date Range: 01/01/10 to 28/11/17

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	6 days
Tuesday	9 days
Wednesday	2 days
Thursday	3 days
Friday	3 days

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

Selected survey types:

Manual count	23 days
Directional ATC Count	0 days

This data displays the number of manual classified surveys and the number of unclassified ATC surveys. Manual surveys are undertaken using staff whilst ATC surveys are undertaken using machines.

Selected Locations:

Town Centre	0
Edge of Town Centre	3
Suburban Area (PPS6 Out of Centre)	9
Edge of Town Neighbourhood Centre (PPS6 Local Centre)	2
Free Standing (PPS6 Out of Town)	0
Not Known	0

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.
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Selected Location

Sub Categories:

Industrial Zone	8
Commercial Zone	1
Development Zone	2
Residential Zone	6
Retail Zone	0

Built-Up Zone	0
Village	1
Out of Town	0
High Street	0
No Sub Category	5

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 St

Secondary Filtering selection:

Use Class:

Not Known	2 days
B1	7 days
B2	10 days
B8	2 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:

1,000 or Less	1 days
1,001 to 5,000	1 days
5,001 to 10,000	5 days
10,001 to 15,000	1 days
15,001 to 20,000	3 days
20,001 to 25,000	2 days
25,001 to 50,000	9 days
50,001 to 100,000	1 days

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

Population within 5 miles:

25,001 to 50,000	5 days
75,001 to 100,000	1 days
100,001 to 125,000	2 days
125,001 to 250,000	10 days
250,001 to 500,000	3 days
500,001 or More	2 days

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

Car ownership within 5 miles:

0.5 or Less	1 days
0.6 to 1.0	11 days
1.1 to 1.5	10 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:

No 23 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 23 days

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

LIST OF SITES

relevant to selection parameters

Site(1):	AG-02-D-02	Site area:	30.07 hect
Development Name:	INDUSTRIAL ESTATE	Gross floor area:	78500 sqm
Location:	ARBROATH	Parking spaces:	1270
		Number of	
Postcode:	DD11 2NJ	Employees:	875
Main Location Type:	Edge of Town	Survey Date:	25/04/2017
Sub-Location Type:	No Sub Category	Survey Day:	Tuesday
PTAL:	n/a		
Site(2):	BR-02-D-04	Site area:	1.80 hect
Development Name:	INDUSTRIAL ESTATE	Gross floor area:	18018 sqm
Location:	BRISTOL	Parking spaces:	124
		Number of	
Postcode:	BS5 7XX	Employees:	59
	Suburban Area		
Main Location Type:	(PPS6 Out of Centre)	Survey Date:	29/11/2013
Sub-Location Type:	Industrial Zone	Survey Day:	Friday
PTAL:	n/a		
Site(3):	BR-02-D-05	Site area:	4.48 hect
Development Name:	INDUSTRIAL ESTATE	Gross floor area:	18128 sqm
Location:	BRISTOL	Parking spaces:	159
		Number of	
Postcode:	BS3 5QY	Employees:	97
	Suburban Area		
Main Location Type:	(PPS6 Out of Centre)	Survey Date:	29/11/2013
Sub-Location Type:	Industrial Zone	Survey Day:	Friday
PTAL:	n/a		
Site(4):	CA-02-D-04	Site area:	0.89 hect
Development Name:	INDUSTRIAL ESTATE	Gross floor area:	4133 sqm
Location:	PETERBOROUGH	Parking spaces:	45
		Number of	
Postcode:	PE1 2AZ	Employees:	40

Suburban Area
 Main Location Type: (PPS6 Out of Centre) Survey Date: 02/12/2014
 Sub-Location Type: No Sub Category Survey Day: Tuesday
 PTAL: n/a
 Site(5): CM-02-D-03 Site area: 1.80 hect

Development Name: WORKSHOPS Gross floor area: 2900 sqm
 Location: AMMANFORD Parking spaces: 150
 Number of
 Postcode: SA18 2ET Employees: 59

Main Location Type: Edge of Town Centre Survey Date: 14/10/2014
 Sub-Location Type: No Sub Category Survey Day: Tuesday
 PTAL: n/a
 Site(6): CW-02-D-03 Site area: 12.46 hect

Development Name: IND. ESTATE Gross floor area: 36500 sqm
 Location: NEAR PENZANCE Parking spaces: 530
 Number of
 Postcode: TR20 8HX Employees: 550
 Neighbourhood

Centre (PPS6 Local
 Main Location Type: Centre) Survey Date: 03/10/2011
 Sub-Location Type: Village Survey Day: Monday
 PTAL: n/a
 Site(7): DV-02-D-07 Site area: 0.95 hect

Development Name: INDUSTRIAL ESTATE Gross floor area: 3600 sqm
 Location: EXETER Parking spaces: 44
 Number of
 Postcode: EX2 7LW Employees: 77

Main Location Type: Edge of Town Survey Date: 03/07/2017
 Sub-Location Type: Industrial Zone Survey Day: Monday
 PTAL: n/a
 Site(8): ES-02-D-06 Site area: 2.30 hect

Development Name: INDUSTRIAL ESTATE Gross floor area: 7525 sqm
 Location: EASTBOURNE Parking spaces: 243
 Number of
 Postcode: BN22 8UY Employees: 330

Main Location Type: Edge of Town Survey Date: 21/10/2013
 Sub-Location Type: Residential Zone Survey Day: Monday
 PTAL: n/a
 Site(9): ES-02-D-07 Site area: 1.10 hect

Development Name: INDUSTRIAL ESTATE Gross floor area: 6625 sqm
 Location: BRIGHTON Parking spaces: 125
 Number of
 Postcode: BN2 4AW Employees: 130

Suburban Area
 Main Location Type: (PPS6 Out of Centre) Survey Date: 16/10/2014
 Sub-Location Type: Industrial Zone Survey Day: Thursday
 PTAL: n/a
 Site(10): FA-02-D-02 Site area: 3.48 hect

Development Name: INDUSTRIAL ESTATE Gross floor area: 21250 sqm
 Location: FALKIRK Parking spaces: 190
 Number of
 Postcode: FK2 7PE Employees: 115

Suburban Area
 Main Location Type: (PPS6 Out of Centre) Survey Date: 30/05/2013
 Sub-Location Type: Residential Zone Survey Day: Thursday
 PTAL: n/a
 Site(11): FA-02-D-03 Site area: 0.36 hect

Development Name:	INDUSTRIAL ESTATE	Gross floor area:	1250 sqm
Location:	FALKIRK	Parking spaces:	33
		Number of	
Postcode:	FK1 1RR	Employees:	15
Main Location Type:	Edge of Town Centre	Survey Date:	31/05/2013
Sub-Location Type:	Commercial Zone	Survey Day:	Friday
PTAL:	n/a		
Site(12):	HE-02-D-02	Site area:	0.50 hect
Development Name:	BUSINESS PARK	Gross floor area:	5214 sqm
Location:	HEREFORD	Parking spaces:	68
		Number of	
Postcode:	HR4 9JQ	Employees:	67
	Suburban Area		
Main Location Type:	(PPS6 Out of Centre)	Survey Date:	22/10/2013
Sub-Location Type:	Industrial Zone	Survey Day:	Tuesday
PTAL:	n/a		
Site(13):	KC-02-D-02	Site area:	3.54 hect
Development Name:	INDUSTRIAL ESTATE	Gross floor area:	10715 sqm
Location:	DEAL	Parking spaces:	150
		Number of	
Postcode:	CT14 9LX	Employees:	150
Main Location Type:	Edge of Town	Survey Date:	28/11/2012
Sub-Location Type:	Residential Zone	Survey Day:	Wednesday
PTAL:	n/a		
Site(14):	LC-02-D-05	Site area:	0.70 hect
Development Name:	INDUSTRIAL ESTATE	Gross floor area:	7020 sqm
Location:	BLACKBURN	Parking spaces:	117
		Number of	
Postcode:	BB1 3BL	Employees:	63
Main Location Type:	Edge of Town Centre	Survey Date:	04/06/2013
Sub-Location Type:	Industrial Zone	Survey Day:	Tuesday
PTAL:	n/a		
Site(15):	MS-02-D-06	Site area:	1.23 hect
Development Name:	INDUSTRIAL EST.	Gross floor area:	4800 sqm
Location:	LIVERPOOL	Parking spaces:	76
		Number of	
Postcode:	L6 9DF	Employees:	95
	Neighbourhood		
	Centre (PPS6 Local		
Main Location Type:	Centre)	Survey Date:	09/09/2010
Sub-Location Type:	Industrial Zone	Survey Day:	Thursday
PTAL:	n/a		
Site(16):	TW-02-D-08	Site area:	2.70 hect
Development Name:	INDUSTRIAL ESTATE	Gross floor area:	8310 sqm
Location:	SUNDERLAND	Parking spaces:	212
		Number of	
Postcode:	SR5 3TX	Employees:	180
	Suburban Area		
Main Location Type:	(PPS6 Out of Centre)	Survey Date:	04/04/2017
Sub-Location Type:	Development Zone	Survey Day:	Tuesday
PTAL:	n/a		
Site(17):	VG-02-D-01	Site area:	1.96 hect
Development Name:	INDUSTRIAL ESTATE	Gross floor area:	13091 sqm
Location:	BARRY	Parking spaces:	153
		Number of	
Postcode:	CF63 2YZ	Employees:	180
Main Location Type:	Edge of Town	Survey Date:	08/05/2017

Sub-Location Type:	No Sub Category	Survey Day:	Monday
PTAL:	n/a		
Site(18):	WL-02-D-02	Site area:	2.55 hect
Development Name:	INDUSTRIAL ESTATE	Gross floor area:	10000 sqm
Location:	SWINDON	Parking spaces:	152
		Number of	
Postcode:	SN2 7JQ	Employees:	118
	Suburban Area		
Main Location Type:	(PPS6 Out of Centre)	Survey Date:	20/09/2016
Sub-Location Type:	Residential Zone	Survey Day:	Tuesday
PTAL:	n/a		
Site(19):	WM-02-D-02	Site area:	5.09 hect
Development Name:	INDUSTRIAL ESTATE	Gross floor area:	23480 sqm
Location:	BIRMINGHAM	Parking spaces:	129
		Number of	
Postcode:	B35 7AP	Employees:	347
Main Location Type:	Edge of Town	Survey Date:	07/11/2012
Sub-Location Type:	Residential Zone	Survey Day:	Wednesday
PTAL:	n/a		
Site(20):	WM-02-D-03	Site area:	0.27 hect
Development Name:	INDUSTRIAL ESTATE	Gross floor area:	1138 sqm
Location:	STOURBRIDGE	Parking spaces:	18
		Number of	
Postcode:	DY8 4YJ	Employees:	35
	Suburban Area		
Main Location Type:	(PPS6 Out of Centre)	Survey Date:	28/11/2017
Sub-Location Type:	Residential Zone	Survey Day:	Tuesday
PTAL:	n/a		
Site(21):	WY-02-D-05	Site area:	0.50 hect
Development Name:	INDUSTRIAL ESTATE	Gross floor area:	1776 sqm
Location:	CASTLEFORD	Parking spaces:	50
		Number of	
Postcode:	WF10 4SR	Employees:	20
Main Location Type:	Edge of Town	Survey Date:	22/05/2017
Sub-Location Type:	Development Zone	Survey Day:	Monday
PTAL:	n/a		
Site(22):	WY-02-D-06	Site area:	2.20 hect
Development Name:	INDUSTRIAL ESTATE	Gross floor area:	4328 sqm
Location:	(PART) CASTLEFORD	Parking spaces:	95
		Number of	
Postcode:	WF10 5QU	Employees:	23
Main Location Type:	Edge of Town	Survey Date:	23/05/2017
Sub-Location Type:	Industrial Zone	Survey Day:	Tuesday
PTAL:	n/a		
Site(23):	WY-02-D-07	Site area:	0.70 hect
Development Name:	INDUSTRIAL ESTATE	Gross floor area:	3191 sqm
Location:	CASTLEFORD	Parking spaces:	58
		Number of	
Postcode:	WF10 4UA	Employees:	61
Main Location Type:	Edge of Town	Survey Date:	15/05/2017
Sub-Location Type:	No Sub Category	Survey Day:	Monday
PTAL:	n/a		

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 Rates for Key Periods

Period	Inbound	Trips per 100 sqm GFA		Total
		Outbound		
0800-0900		0.521	0.282	0.803
1700-1800		0.16	0.428	0.588

TRIP RATE for Land

Use 02 -

EMPLOYMENT/D - INDUSTRIAL ESTATE

Calculation Factor: 100 sqm

Count Type: TOTAL PEOPLE

Time Range	No. Days	Ave. GFA	ARRIVALS			DEPARTURES			TOTALS Trip Rate	
			Trip Rate	No. Days	Ave. GFA	Trip Rate	No. Days	Ave. GFA		
00:00-00:30										
00:30-01:00										
01:00-01:30										
01:30-02:00										
02:00-02:30										
02:30-03:00										
03:00-03:30										
03:30-04:00										
04:00-04:30										
04:30-05:00										
05:00-05:30										
05:30-06:00										
06:00-06:30										
06:30-07:00										
07:00-07:30		23	12674	0.13	23	12674	0.043	23	12674	0.173
07:30-08:00		23	12674	0.296	23	12674	0.1	23	12674	0.396
08:00-08:30		23	12674	0.268	23	12674	0.142	23	12674	0.41
08:30-09:00		23	12674	0.253	23	12674	0.14	23	12674	0.393
09:00-09:30		23	12674	0.206	23	12674	0.152	23	12674	0.358
09:30-10:00		23	12674	0.172	23	12674	0.133	23	12674	0.305
10:00-10:30		23	12674	0.186	23	12674	0.174	23	12674	0.36
10:30-11:00		23	12674	0.153	23	12674	0.162	23	12674	0.315
11:00-11:30		23	12674	0.169	23	12674	0.16	23	12674	0.329
11:30-12:00		23	12674	0.173	23	12674	0.186	23	12674	0.359
12:00-12:30		23	12674	0.185	23	12674	0.188	23	12674	0.373
12:30-13:00		23	12674	0.174	23	12674	0.197	23	12674	0.371
13:00-13:30		23	12674	0.188	23	12674	0.18	23	12674	0.368
13:30-14:00		23	12674	0.183	23	12674	0.151	23	12674	0.334
14:00-14:30		23	12674	0.174	23	12674	0.189	23	12674	0.363
14:30-15:00		23	12674	0.168	23	12674	0.157	23	12674	0.325
15:00-15:30		23	12674	0.151	23	12674	0.208	23	12674	0.359
15:30-16:00		23	12674	0.141	23	12674	0.2	23	12674	0.341
16:00-16:30		23	12674	0.149	23	12674	0.261	23	12674	0.41
16:30-17:00		23	12674	0.122	23	12674	0.23	23	12674	0.352
17:00-17:30		23	12674	0.099	23	12674	0.269	23	12674	0.368
17:30-18:00		23	12674	0.061	23	12674	0.159	23	12674	0.22
18:00-18:30		23	12674	0.058	23	12674	0.088	23	12674	0.146

18:30-19:00	23	12674	0.063	23	12674	0.065	23	12674	0.128
19:00-19:30									
19:30-20:00									
20:00-20:30									
20:30-21:00									
21:00-21:30									
21:30-22:00									
22:00-22:30									
22:30-23:00									
23:00-23:30									
23:30-24:00									
Daily Trip Rates:			3.922			3.934			7.856

TRICS 7.5.4

Trip Rate Parameter: Number of dwellings

Filtering Summary

Land Use 03/A RESIDENTIAL/HOUSES PRIVATELY OWNED

Selected Trip Rate Calculation
Parameter Range 6-805 DWELLS

Actual Trip Rate Calculation
Parameter Range 6-805 DWELLS

Date Range Minimum: 01/01/10 Maximum: 20/11/18

Parking Spaces Range Selected: 12 to 1726 Actual: 12 to 1726

Percentage of dwellings privately owned: All Surveys Included

Days of the week selected
Monday 17
Tuesday 12
Wednesday 14
Thursday 13
Friday 11

Main Location Types selected
Edge of Town Centre 8
Suburban Area (PPS6 Out of Centre) 30
Edge of Town 24
Neighbourhood Centre (PPS6 Local Centre) 5

Population <1 Mile ranges selected
1 000 or Less 2
1 001 to 5 0 9
5 001 to 10 0 13
10 001 to 15 0 16
15 001 to 20 0 11
20 001 to 25 0 7
25 001 to 50 0 9

Population <5 Mile ranges selected
5 001 to 25 0 11
25 001 to 50 0 7
50 001 to 75 0 8
75 001 to 100 0 13
100 001 to 125 0 3
125 001 to 250 0 15
250 001 to 500 0 9
500 001 or More 1

Car Ownership <5 Mile ranges selected
0.5 or Less 1
0.6 to 1.0 21
1.1 to 1.5 43
1.6 to 2.0 2

PTAL Rating No PTAL Present 67

TRIP RATE
CALCULATION
SELECTION
PARAMETERS:

Land Use 03 - RESIDENTIAL
A - HOUSES
Category PRIVATELY OWNED
MULTI-MODAL
TOTAL PEOPLE

Selected regions and
areas:

2 SOUTH EAST		
ES	EAST SUSSEX	3 days
HC	HAMPSHIRE	1 days
KC	KENT	5 days
SC	SURREY	1 days
WS	WEST SUSSEX	6 days
3 SOUTH WEST		
DC	DORSET	1 days
DV	DEVON	3 days
SM	SOMERSET	1 days
WL	WILTSHIRE	1 days
4 EAST ANGLIA		
CA	CAMBRIDGESHIRE	2 days
NF	NORFOLK	3 days
SF	SUFFOLK	3 days
5 EAST MIDLANDS		
LN	LINCOLNSHIRE	2 days
6 WEST MIDLANDS		
SH	SHROPSHIRE	2 days
ST	STAFFORDSHIRE	2 days
WK	WARWICKSHIRE	2 days
WM	WEST MIDLANDS	2 days
YORKSHIRE & NORTH		
7 LINCOLNSHIRE		
	NORTH EAST	
NE	LINCOLNSHIRE	2 days
NY	NORTH YORKSHIRE	7 days
SY	SOUTH YORKSHIRE	1 days
8 NORTH WEST		
CH	CHESHIRE GREATER	2 days
GM	MANCHESTER	1 days
LC	LANCASHIRE	1 days
MS	MERSEYSIDE	1 days
9 NORTH		
CB	CUMBRIA	1 days
DH	DURHAM	2 days
TW	TYNE & WEAR	1 days
10 WALES		
PS	POWYS VALE OF	2 days
VG	GLAMORGAN	1 days
11 SCOTLAND		
AG	ANGUS	1 days
FA	FALKIRK	2 days
HI	HIGHLAND	1 days
PK	PERTH & KINROSS	1 days

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

Secondary Filtering selection:

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

Parameter: Number of dwellings
Actual Range: 6 to 805 (units:)
Range Selected by User: 6 to 805 (units:)

Public Transport Provision:
Selection by: Include all surveys

Date Range: 01/01/10 to 20/11/18

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 17 days
Tuesday 12 days
Wednesday 14 days
Thursday 13 days
Friday 11 days

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

Selected survey types:

Manual count 67 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:

Town Centre 0

Edge of Town Centre 8

Suburban Area (PPS6 Out of Centre)	30
Edge of Town	24
Neighbourhood Centre (PPS6 Local Centre)	5
Free Standing (PPS6 Out of Town)	0
Not Known	0

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.
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Selected Location Sub Categories:

Industrial Zone	0
Commercial Zone	0
Development Zone	0
Residential Zone	61
Retail Zone	0
Built-Up Zone	0
Village	3
Out of Town	0
High Street	0
No Sub Category	3

This data displays the number of surveys per location sub-category within the selected set. The location sub-categories consist of

Commercial Zone	Industrial Zone	Development Zone	Residential Zone	Retail Zone	Built-Up Zone	Village	Out of Town	High Street	No Sub Category
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Secondary Filtering selection:

Use Class:

C1	1 days
C3	65 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:

1,000 or Less	2 days
1,001 to 5,000	9 days
5,001 to 10,000	13 days
10,001 to 15,000	16 days
15,001 to 20,000	11 days
20,001 to 25,000	7 days
25,001 to 50,000	9 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	11 days
25,001 to 50,000	7 days
50,001 to 75,000	8 days
75,001 to 100,000	13 days
100,001 to 125,000	3 days
125,001 to 250,000	15 days
250,001 to 500,000	9 days
500,001 or More	1 days

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

Car ownership within 5 miles:

0.5 or Less	1 days
0.6 to 1.0	21 days
1.1 to 1.5	43 days
1.6 to 2.0	2 days

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

Travel Plan:

Yes	7 days
No	60 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	67 days
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This data displays the number of selected surveys with PTAL Ratings.

LIST OF SITES relevant to selection parameters

Site(1):	AG-03-A-01	Site area:	0.68 hect
		Number of dwellings:	7
Development Name:	BUNGALOWS/DET.	Housing density:	13
Location:	ARBROATH	Total Bedrooms:	24
Postcode:	DD11 2EG		

Suburban Area

Main Location Type:	(PPS6 Out of Centre)	Survey Date:	22/05/2012
Sub-Location Type:	Residential Zone	Survey Day:	Tuesday

PTAL:	n/a	Parking Spaces:	19
Site(2):	CA-03-A-04	Site area:	0.48 hect
		Number of	
Development Name:	DETACHED	dwellings:	9
Location:	PETERBOROUGH	Housing density:	21
Postcode:	PE3 6LQ	Total Bedrooms:	35

Suburban Area

Main Location Type:	(PPS6 Out of Centre)	Survey Date:	18/10/2011
Sub-Location Type:	Residential Zone	Survey Day:	Tuesday
PTAL:	n/a	Parking Spaces:	22
Site(3):	CA-03-A-05	Site area:	1.71 hect
		Number of	
Development Name:	DETACHED HOUSES	dwellings:	28
Location:	PETERBOROUGH	Housing density:	19
Postcode:	PE1 4AW	Total Bedrooms:	94

Suburban Area

Main Location Type:	(PPS6 Out of Centre)	Survey Date:	17/10/2016
Sub-Location Type:	Residential Zone	Survey Day:	Monday
PTAL:	n/a	Parking Spaces:	98
Site(4):	CB-03-A-05	Site area:	1.51 hect
	DETACHED/TERRACE	Number of	
Development Name:	D HOUSING	dwellings:	50
Location:	PENRITH	Housing density:	40
Postcode:	CA11 9HS	Total Bedrooms:	163

Main Location Type:	Edge of Town Centre	Survey Date:	21/06/2016
Sub-Location Type:	Residential Zone	Survey Day:	Tuesday
PTAL:	n/a	Parking Spaces:	117
Site(5):	CH-03-A-08	Site area:	0.48 hect
		Number of	
Development Name:	DETACHED	dwellings:	11
Location:	CHESTER	Housing density:	37
Postcode:	CH3 5JZ	Total Bedrooms:	44

Suburban Area

Main Location Type:	(PPS6 Out of Centre)	Survey Date:	22/05/2012
Sub-Location Type:	Residential Zone	Survey Day:	Tuesday
PTAL:	n/a	Parking Spaces:	52
Site(6):	CH-03-A-09	Site area:	0.73 hect
		Number of	
Development Name:	TERRACED HOUSES	dwellings:	24
Location:	MACCLESFIELD	Housing density:	39
Postcode:	SK10 2NS	Total Bedrooms:	72

Main Location Type:	Edge of Town	Survey Date:	24/11/2014
Sub-Location Type:	Residential Zone	Survey Day:	Monday
PTAL:	n/a	Parking Spaces:	32
Site(7):	DC-03-A-08	Site area:	1.85 hect
		Number of	
Development Name:	BUNGALOWS	dwellings:	28
Location:	BOURNEMOUTH	Housing density:	17
Postcode:	BH8 0AL	Total Bedrooms:	64

Main Location Type:	Edge of Town	Survey Date:	24/03/2014
Sub-Location Type:	Residential Zone	Survey Day:	Monday
PTAL:	n/a	Parking Spaces:	131
Site(8):	DH-03-A-01	Site area:	0.90 hect
		Number of	
Development Name:	SEMI DETACHED	dwellings:	50
Location:	BISHOP AUCKLAND	Housing density:	94
Postcode:	DL14 6RH	Total Bedrooms:	150

Suburban Area

Main Location Type:	(PPS6 Out of Centre)	Survey Date:	28/03/2017
Sub-Location Type:	Residential Zone	Survey Day:	Tuesday
PTAL:	n/a	Parking Spaces:	87
Site(9):	DH-03-A-02	Site area:	4.03 hect

Development Name:	MIXED HOUSES	Number of dwellings:	125
Location:	BISHOP AUCKLAND	Housing density:	38
Postcode:	DL14 9UG	Total Bedrooms:	423
	Neighbourhood Centre (PPS6 Local Centre)		
Main Location Type:	Centre)	Survey Date:	27/03/2017
Sub-Location Type:	Residential Zone	Survey Day:	Monday
PTAL:	n/a	Parking Spaces:	124
Site(10):	DV-03-A-01	Site area:	1.25 hect
		Number of dwellings:	37
Development Name:	TERRACED HOUSES	Housing density:	53
Location:	TORQUAY	Total Bedrooms:	111
Postcode:	TQ1 3HR		
	Suburban Area		
Main Location Type:	(PPS6 Out of Centre)	Survey Date:	30/09/2015
Sub-Location Type:	Residential Zone	Survey Day:	Wednesday
PTAL:	n/a	Parking Spaces:	103
Site(11):	DV-03-A-02	Site area:	4.04 hect
	HOUSES &	Number of dwellings:	116
Development Name:	BUNGALOWS	Housing density:	44
Location:	HONITON	Total Bedrooms:	306
Postcode:	EX14 1JB		
	Suburban Area		
Main Location Type:	(PPS6 Out of Centre)	Survey Date:	25/09/2015
Sub-Location Type:	Residential Zone	Survey Day:	Friday
PTAL:	n/a	Parking Spaces:	261
Site(12):	DV-03-A-03	Site area:	2.02 hect
	TERRACED & SEMI	Number of dwellings:	70
Development Name:	DETACHED	Housing density:	50
Location:	HONITON	Total Bedrooms:	208
Postcode:	EX14 2DF		
	Suburban Area		
Main Location Type:	(PPS6 Out of Centre)	Survey Date:	28/09/2015
Sub-Location Type:	Residential Zone	Survey Day:	Monday
PTAL:	n/a	Parking Spaces:	116
Site(13):	ES-03-A-02	Site area:	0.50 hect
		Number of dwellings:	37
Development Name:	PRIVATE HOUSING	Housing density:	74
Location:	PEACEHAVEN	Total Bedrooms:	103
Postcode:	BN10 8SA		
Main Location Type:	Edge of Town	Survey Date:	18/11/2011
Sub-Location Type:	Residential Zone	Survey Day:	Friday
PTAL:	n/a	Parking Spaces:	59
Site(14):	ES-03-A-03	Site area:	9.91 hect
	MIXED HOUSES &	Number of dwellings:	212
Development Name:	FLATS	Housing density:	63
Location:	POLEGATE	Total Bedrooms:	649
Postcode:	BN26 6HR		
Main Location Type:	Edge of Town	Survey Date:	11/07/2016
Sub-Location Type:	Residential Zone	Survey Day:	Monday
PTAL:	n/a	Parking Spaces:	357
Site(15):	ES-03-A-04	Site area:	4.68 hect
	MIXED HOUSES &	Number of dwellings:	134
Development Name:	FLATS	Housing density:	59
Location:	CAMBER	Total Bedrooms:	386
Postcode:	TN31 7SN		
Main Location Type:	Edge of Town	Survey Date:	15/07/2016
Sub-Location Type:	Residential Zone	Survey Day:	Friday
PTAL:	n/a	Parking Spaces:	256
Site(16):	FA-03-A-01	Site area:	0.84 hect
	SEMI-DETACHED/TERRACE	Number of dwellings:	37
Development Name:	D		

Location: FALKIRK Housing density: 65
Postcode: FK2 7FL Total Bedrooms: 94

Suburban Area

Main Location Type: (PPS6 Out of Centre) Survey Date: 30/05/2013
Sub-Location Type: Residential Zone Survey Day: Thursday
PTAL: n/a Parking Spaces: 52
Site(17): FA-03-A-02 Site area: 4.69 hect
Number of
Development Name: MIXED HOUSES dwellings: 161
Location: FALKIRK Housing density: 49
Postcode: FK1 5JR Total Bedrooms: 314

Suburban Area

Main Location Type: (PPS6 Out of Centre) Survey Date: 29/05/2013
Sub-Location Type: Residential Zone Survey Day: Wednesday
PTAL: n/a Parking Spaces: 267
Site(18): GM-03-A-10 Site area: 1.43 hect
Number of
Development Name: DETACHED/SEMI dwellings: 29
Location: MANCHESTER Housing density: 23
Postcode: M25 9PL Total Bedrooms: 85
Main Location Type: Edge of Town Survey Date: 12/10/2011

Sub-Location Type: Residential Zone Survey Day: Wednesday
PTAL: n/a Parking Spaces: 81
Site(19): HC-03-A-20 Site area: 1.40 hect
Number of
Development Name: HOUSES & FLATS dwellings: 62
Location: LIPHOOK Housing density: 46
Postcode: GU30 7TG Total Bedrooms: 205

Suburban Area

Main Location Type: (PPS6 Out of Centre) Survey Date: 20/11/2018
Sub-Location Type: Residential Zone Survey Day: Tuesday
PTAL: n/a Parking Spaces: 136
Site(20): HI-03-A-14 Site area: 1.48 hect
SEMI-DETACHED & Number of
Development Name: TERRACED dwellings: 40
Location: INVERNESS Housing density: 36
Postcode: IV3 8LX Total Bedrooms: 121

Suburban Area

Main Location Type: (PPS6 Out of Centre) Survey Date: 23/03/2016
Sub-Location Type: Residential Zone Survey Day: Wednesday
PTAL: n/a Parking Spaces: 89
Site(21): KC-03-A-03 Site area: 1.38 hect
MIXED HOUSES & Number of
Development Name: FLATS dwellings: 51
Location: ASHFORD Housing density: 66
Postcode: TN24 OFR Total Bedrooms: 157

Suburban Area

Main Location Type: (PPS6 Out of Centre) Survey Date: 14/07/2016
Sub-Location Type: Residential Zone Survey Day: Thursday
PTAL: n/a Parking Spaces: 110
Site(22): KC-03-A-04 Site area: 4.31 hect
SEMI-DETACHED & Number of
Development Name: TERRACED dwellings: 110
Location: AYLESFORD Housing density: 32
Postcode: ME20 6FN Total Bedrooms: 330

Main Location Type: Edge of Town Survey Date: 22/09/2017
Sub-Location Type: Residential Zone Survey Day: Friday
PTAL: n/a Parking Spaces: 195
Site(23): KC-03-A-05 Site area: 0.20 hect

Development Name:	DETACHED & SEMI-DETACHED	Number of dwellings:	8
Location:	NEAR CHATHAM	Housing density:	50
Postcode:	ME1 3FE	Total Bedrooms:	32
Neighbourhood Centre (PPS6 Local Centre)			
Main Location Type:	Centre)	Survey Date:	22/09/2017
Sub-Location Type:	Village	Survey Day:	Friday
PTAL:	n/a	Parking Spaces:	16
Site(24):	KC-03-A-06	Site area:	8.00 hect
MIXED HOUSES & FLATS			
Development Name:	FLATS	Number of dwellings:	363
Location:	HERNE BAY	Housing density:	73
Postcode:	CT6 6DF	Total Bedrooms:	1007
Suburban Area			
Main Location Type:	(PPS6 Out of Centre)	Survey Date:	27/09/2017
Sub-Location Type:	Residential Zone	Survey Day:	Wednesday
PTAL:	n/a	Parking Spaces:	789
Site(25):	KC-03-A-07	Site area:	9.46 hect
MIXED HOUSES			
Development Name:	MIXED HOUSES	Number of dwellings:	288
Location:	HERNE BAY	Housing density:	40
Postcode:	CT6 6HZ	Total Bedrooms:	934
Main Location Type:	Edge of Town	Survey Date:	27/09/2017
Sub-Location Type:	Residential Zone	Survey Day:	Wednesday
PTAL:	n/a	Parking Spaces:	891
Site(26):	LC-03-A-30	Site area:	0.80 hect
SEMI-DETACHED			
Development Name:	SEMI-DETACHED	Number of dwellings:	24
Location:	BLACKPOOL	Housing density:	30
Postcode:	FY4 2DF	Total Bedrooms:	72
Main Location Type:	Edge of Town Centre	Survey Date:	14/06/2013
Sub-Location Type:	Residential Zone	Survey Day:	Friday
PTAL:	n/a	Parking Spaces:	40
Site(27):	LN-03-A-03	Site area:	0.77 hect
SEMI DETACHED			
Development Name:	SEMI DETACHED	Number of dwellings:	22
Location:	LINCOLN	Housing density:	29
Postcode:	LN6 7PL	Total Bedrooms:	58
Suburban Area			
Main Location Type:	(PPS6 Out of Centre)	Survey Date:	18/09/2012
Sub-Location Type:	Residential Zone	Survey Day:	Tuesday
PTAL:	n/a	Parking Spaces:	24
Site(28):	LN-03-A-04	Site area:	1.70 hect
DETACHED & SEMI-DETACHED			
Development Name:	DETACHED	Number of dwellings:	30
Location:	LINCOLN	Housing density:	23
Postcode:	LN2 4PJ	Total Bedrooms:	100
Main Location Type:	Edge of Town Centre	Survey Date:	29/06/2015
Sub-Location Type:	Residential Zone	Survey Day:	Monday
PTAL:	n/a	Parking Spaces:	66
Site(29):	MS-03-A-03	Site area:	0.50 hect
DETACHED			
Development Name:	DETACHED	Number of dwellings:	15
Location:	LIVERPOOL	Housing density:	38
Postcode:	L17 5BT	Total Bedrooms:	60
Suburban Area			
Main Location Type:	(PPS6 Out of Centre)	Survey Date:	21/06/2013
Sub-Location Type:	Residential Zone	Survey Day:	Friday
PTAL:	n/a	Parking Spaces:	45

Site(30):	NE-03-A-02	Site area:	12.00 hect
	SEMI DETACHED &	Number of	
Development Name:	DETACHED	dwellings:	432
Location:	SCUNTHORPE	Housing density:	133
Postcode:	DN15 8GS	Total Bedrooms:	1174
Main Location Type:	Edge of Town	Survey Date:	12/05/2014
Sub-Location Type:	No Sub Category	Survey Day:	Monday
PTAL:	n/a	Parking Spaces:	432
Site(31):	NE-03-A-03	Site area:	8.00 hect
		Number of	
Development Name:	PRIVATE HOUSES	dwellings:	180
Location:	SCUNTHORPE	Housing density:	
Postcode:	DN15 6BW	Total Bedrooms:	432
Main Location Type:	Edge of Town Centre	Survey Date:	20/05/2014
Sub-Location Type:	Residential Zone	Survey Day:	Tuesday
PTAL:	n/a	Parking Spaces:	482
Site(32):	NF-03-A-01	Site area:	1.49 hect
	SEMI DET. &	Number of	
Development Name:	BUNGALOWS	dwellings:	27
Location:	CAISTER-ON-SEA	Housing density:	19
Postcode:	NR30 5BX	Total Bedrooms:	66
	Suburban Area		
Main Location Type:	(PPS6 Out of Centre)	Survey Date:	16/10/2012
Sub-Location Type:	Residential Zone	Survey Day:	Tuesday
PTAL:	n/a	Parking Spaces:	64
Site(33):	NF-03-A-02	Site area:	2.20 hect
		Number of	
Development Name:	HOUSES & FLATS	dwellings:	98
Location:	NORWICH	Housing density:	52
Postcode:	NR5 8QS	Total Bedrooms:	279
	Suburban Area		
Main Location Type:	(PPS6 Out of Centre)	Survey Date:	22/10/2012
Sub-Location Type:	Residential Zone	Survey Day:	Monday
PTAL:	n/a	Parking Spaces:	220
Site(34):	NF-03-A-03	Site area:	0.63 hect
		Number of	
Development Name:	DETACHED HOUSES	dwellings:	10
Location:	THETFORD	Housing density:	20
Postcode:	IP24 1EY	Total Bedrooms:	40
Main Location Type:	Edge of Town	Survey Date:	16/09/2015
Sub-Location Type:	Residential Zone	Survey Day:	Wednesday
PTAL:	n/a	Parking Spaces:	37
Site(35):	NY-03-A-06	Site area:	5.23 hect
	BUNGALOWS &	Number of	
Development Name:	SEMI DET.	dwellings:	115
Location:	BOROUGHBRIDGE	Housing density:	28
Postcode:	YO51 9NF	Total Bedrooms:	220
	Suburban Area		
Main Location Type:	(PPS6 Out of Centre)	Survey Date:	14/10/2011
Sub-Location Type:	Residential Zone	Survey Day:	Friday
PTAL:	n/a	Parking Spaces:	402
Site(36):	NY-03-A-08	Site area:	0.15 hect
		Number of	
Development Name:	TERRACED HOUSES	dwellings:	21
Location:	YORK	Housing density:	175
Postcode:	YO10 3EJ	Total Bedrooms:	54
	Suburban Area		
Main Location Type:	(PPS6 Out of Centre)	Survey Date:	16/09/2013
Sub-Location Type:	Residential Zone	Survey Day:	Monday
PTAL:	n/a	Parking Spaces:	24
Site(37):	NY-03-A-09	Site area:	3.30 hect

Development Name:	MIXED HOUSING	Number of dwellings:	52
Location:	NORTHALLERTON	Housing density:	18
Postcode:	DL6 1BQ	Total Bedrooms:	152

Suburban Area			
Main Location Type:	(PPS6 Out of Centre)	Survey Date:	16/09/2013
Sub-Location Type:	Residential Zone	Survey Day:	Monday
PTAL:	n/a	Parking Spaces:	135
Site(38):	NY-03-A-10	Site area:	2.21 hect

Number of			
Development Name:	HOUSES AND FLATS	dwellings:	71
Location:	RIPON	Housing density:	48
Postcode:	HG4 1UH	Total Bedrooms:	138
Main Location Type:	Edge of Town	Survey Date:	17/09/2013
Sub-Location Type:	No Sub Category	Survey Day:	Tuesday
PTAL:	n/a	Parking Spaces:	59
Site(39):	NY-03-A-11	Site area:	1.79 hect

Number of			
Development Name:	PRIVATE HOUSING	dwellings:	23
Location:	BOROUGHBRIDGE	Housing density:	15
Postcode:	YO51 9LQ	Total Bedrooms:	101
Main Location Type:	Edge of Town	Survey Date:	18/09/2013

Sub-Location Type:	Residential Zone	Survey Day:	Wednesday
PTAL:	n/a	Parking Spaces:	144
Site(40):	NY-03-A-12	Site area:	0.82 hect

Number of			
Development Name:	TOWN HOUSES	dwellings:	47
Location:	NORTHALLERTON	Housing density:	68
Postcode:	DL7 8EY	Total Bedrooms:	122

Main Location Type:	Edge of Town Centre	Survey Date:	27/09/2016
Sub-Location Type:	Residential Zone	Survey Day:	Tuesday
PTAL:	n/a	Parking Spaces:	78
Site(41):	NY-03-A-13	Site area:	0.30 hect

Number of			
Development Name:	TERRACED HOUSES CATTERICK	dwellings:	10
Location:	GARRISON	Housing density:	33
Postcode:	DL9 4SB	Total Bedrooms:	32

Suburban Area			
Main Location Type:	(PPS6 Out of Centre)	Survey Date:	10/05/2017

Sub-Location Type:	Residential Zone	Survey Day:	Wednesday
PTAL:	n/a	Parking Spaces:	19
Site(42):	PK-03-A-01	Site area:	3.15 hect

Number of			
Development Name:	BUNGALOWS	dwellings:	36
Location:	PERTH	Housing density:	13
Postcode:	PH1 1BB	Total Bedrooms:	116

Suburban Area			
Main Location Type:	(PPS6 Out of Centre)	Survey Date:	11/05/2011

Sub-Location Type:	Residential Zone	Survey Day:	Wednesday
PTAL:	n/a	Parking Spaces:	121
Site(43):	PS-03-A-01	Site area:	1.12 hect

Number of			
Development Name:	MIXED HOUSES	dwellings:	16
Location:	WELSHPOOL	Housing density:	15
Postcode:	SY21 7DT	Total Bedrooms:	49

Main Location Type:	Edge of Town Centre	Survey Date:	11/05/2015
Sub-Location Type:	Residential Zone	Survey Day:	Monday
PTAL:	n/a	Parking Spaces:	26
Site(44):	PS-03-A-02	Site area:	0.81 hect

Development Name: DETACHED/SEMI-DETACHED Number of dwellings: 28
 Location: WELSHPOOL Housing density: 42
 Postcode: SY21 7HX Total Bedrooms: 84

Suburban Area
 Main Location Type: (PPS6 Out of Centre) Survey Date: 11/05/2015
 Sub-Location Type: Residential Zone Survey Day: Monday
 PTAL: n/a Parking Spaces: 65
 Site(45): SC-03-A-04 Site area: 3.20 hect

Development Name: TERRACED Number of dwellings: 71
 Location: BYFLEET Housing density: 25
 Postcode: KT14 7BY Total Bedrooms: 202

Main Location Type: Edge of Town Survey Date: 23/01/2014
 Sub-Location Type: Residential Zone Survey Day: Thursday
 PTAL: n/a Parking Spaces: 177
 Site(46): SF-03-A-04 Site area: 0.59 hect

Development Name: DETACHED & BUNGALOWS Number of dwellings: 7
 Location: LOWESTOFT Housing density: 15
 Postcode: NR32 2PQ Total Bedrooms: 7

Suburban Area
 Main Location Type: (PPS6 Out of Centre) Survey Date: 23/10/2012
 Sub-Location Type: Residential Zone Survey Day: Tuesday
 PTAL: n/a Parking Spaces: 31
 Site(47): SF-03-A-05 Site area: 1.15 hect

Development Name: DETACHED HOUSES Number of dwellings: 18
 Location: BURY ST EDMUNDS Housing density: 19
 Postcode: IP33 2SN Total Bedrooms: 78

Main Location Type: Edge of Town Survey Date: 09/09/2015
 Sub-Location Type: Residential Zone Survey Day: Wednesday
 PTAL: n/a Parking Spaces: 75
 Site(48): SF-03-A-06 Site area: 2.68 hect

Development Name: DETACHED & SEMI-DETACHED Number of dwellings: 38
 Location: KENTFORD Housing density: 14
 Postcode: CB8 7UU Total Bedrooms: 129

Neighbourhood
 Centre (PPS6 Local)
 Main Location Type: Centre) Survey Date: 22/09/2017
 Sub-Location Type: Village Survey Day: Friday
 PTAL: n/a Parking Spaces: 35
 Site(49): SH-03-A-05 Site area: 1.32 hect

Development Name: DETACHED/TERRACE D Number of dwellings: 54
 Location: TELFORD Housing density: 56
 Postcode: TF7 4JE Total Bedrooms: 162

Main Location Type: Edge of Town Survey Date: 24/10/2013
 Sub-Location Type: Residential Zone Survey Day: Thursday
 PTAL: n/a Parking Spaces: 63
 Site(50): SH-03-A-06 Site area: 0.80 hect

Development Name: BUNGALOWS Number of dwellings: 16
 Location: SHREWSBURY Housing density: 24
 Postcode: SY1 2RB Total Bedrooms: 34

Main Location Type: Edge of Town Survey Date: 22/05/2014
 Sub-Location Type: Residential Zone Survey Day: Thursday
 PTAL: n/a Parking Spaces: 32
 Site(51): SM-03-A-01 Site area: 1.40 hect

Development Name: DETACHED & SEMI-DETACHED Number of dwellings: 33
 Location: BRIDGWATER Housing density: 28
 Postcode: TA6 7PL Total Bedrooms: 107

Main Location Type: Edge of Town Survey Date: 24/09/2015
 Sub-Location Type: Residential Zone Survey Day: Thursday
 PTAL: n/a Parking Spaces: 131
 Site(52): ST-03-A-06 Site area: 0.37 hect
 SEMI-DET. & Number of
 Development Name: TERRACED dwellings: 17
 Location: WOLVERHAMPTON Housing density: 65
 Postcode: WV2 4NH Total Bedrooms: 51

Main Location Type: Edge of Town Centre Survey Date: 09/05/2014
 Sub-Location Type: No Sub Category Survey Day: Friday
 PTAL: n/a Parking Spaces: 19
 Site(53): ST-03-A-07 Site area: 9.00 hect
 DETACHED & SEMI- Number of
 Development Name: DETACHED dwellings: 248
 Location: STAFFORD Housing density: 173
 Postcode: ST16 1GZ Total Bedrooms: 821

Main Location Type: Edge of Town Survey Date: 22/11/2017
 Sub-Location Type: Residential Zone Survey Day: Wednesday
 PTAL: n/a Parking Spaces: 881
 Site(54): SY-03-A-01 Site area: 1.73 hect
 SEMI DETACHED Number of
 Development Name: HOUSES dwellings: 54
 Location: DONCASTER Housing density: 34
 Postcode: DN5 9TD Total Bedrooms: 162

Suburban Area
 Main Location Type: (PPS6 Out of Centre) Survey Date: 18/09/2013
 Sub-Location Type: Residential Zone Survey Day: Wednesday
 PTAL: n/a Parking Spaces: 61
 Site(55): TW-03-A-02 Site area: 0.55 hect
 SEMI DETACHED Number of
 Development Name: SEMI-DETACHED dwellings: 16
 Location: GATESHEAD Housing density: 34
 Postcode: NE8 4SQ Total Bedrooms: 52

Suburban Area
 Main Location Type: (PPS6 Out of Centre) Survey Date: 07/10/2013
 Sub-Location Type: Residential Zone Survey Day: Monday
 PTAL: n/a Parking Spaces: 38
 Site(56): VG-03-A-01 Site area: 0.21 hect
 SEMI-DETACHED & Number of
 Development Name: TERRACED dwellings: 12
 Location: BARRY Housing density: 86
 Postcode: CF63 2RE Total Bedrooms: 36

Main Location Type: Edge of Town Survey Date: 08/05/2017
 Sub-Location Type: Residential Zone Survey Day: Monday
 PTAL: n/a Parking Spaces: 28
 Site(57): WK-03-A-01 Site area: 0.10 hect
 TERRACED/SEMI/DE Number of
 Development Name: T. dwellings: 6
 Location: LEAMINGTON SPA Housing density:
 Postcode: CV32 5XJ Total Bedrooms: 24

Suburban Area
 Main Location Type: (PPS6 Out of Centre) Survey Date: 21/10/2011
 Sub-Location Type: Residential Zone Survey Day: Friday
 PTAL: n/a Parking Spaces: 12
 Site(58): WK-03-A-02 Site area: 0.47 hect
 Number of
 Development Name: BUNGALOWS dwellings: 17
 Location: COVENTRY Housing density: 50
 Postcode: CV2 2NT Total Bedrooms: 29

Main Location Type: Edge of Town Survey Date: 17/10/2013
 Sub-Location Type: Residential Zone Survey Day: Thursday
 PTAL: n/a Parking Spaces: 35

Site(59):	WL-03-A-02	Site area:	1.16 hect
		Number of	
Development Name:	SEMI DETACHED	dwelling:	27
Location:	SWINDON	Housing density:	25
Postcode:	SN2 7HT	Total Bedrooms:	91
	Suburban Area		
Main Location Type:	(PPS6 Out of Centre)	Survey Date:	22/09/2016
Sub-Location Type:	Residential Zone	Survey Day:	Thursday
PTAL:	n/a	Parking Spaces:	122
Site(60):	WM-03-A-04	Site area:	1.10 hect
		Number of	
Development Name:	TERRACED HOUSES	dwelling:	39
Location:	COVENTRY	Housing density:	43
Postcode:	CV5 6DZ	Total Bedrooms:	111
	Neighbourhood Centre (PPS6 Local		
Main Location Type:	Centre)	Survey Date:	21/11/2016
Sub-Location Type:	Residential Zone	Survey Day:	Monday
PTAL:	n/a	Parking Spaces:	45
Site(61):	WM-03-A-05	Site area:	2.00 hect
	TERRACED &	Number of	
Development Name:	DETACHED	dwelling:	89
Location:	COVENTRY	Housing density:	56
Postcode:	CV1 4PY	Total Bedrooms:	269
Main Location Type:	Edge of Town Centre	Survey Date:	21/11/2016
Sub-Location Type:	Residential Zone	Survey Day:	Monday
PTAL:	n/a	Parking Spaces:	100
Site(62):	WS-03-A-04	Site area:	5.45 hect
		Number of	
Development Name:	MIXED HOUSES	dwelling:	151
Location:	HORSHAM	Housing density:	46
Postcode:	RH12 1EP	Total Bedrooms:	465
Main Location Type:	Edge of Town	Survey Date:	11/12/2014
Sub-Location Type:	Residential Zone	Survey Day:	Thursday
PTAL:	n/a	Parking Spaces:	345
Site(63):	WS-03-A-05	Site area:	1.61 hect
		Number of	
Development Name:	TERRACED & FLATS	dwelling:	48
Location:	SHOREHAM BY SEA	Housing density:	50
Postcode:	BN43 6TQ	Total Bedrooms:	129
	Suburban Area		
Main Location Type:	(PPS6 Out of Centre)	Survey Date:	18/04/2012
Sub-Location Type:	Residential Zone	Survey Day:	Wednesday
PTAL:	n/a	Parking Spaces:	132
Site(64):	WS-03-A-06	Site area:	33.15 hect
		Number of	
Development Name:	MIXED HOUSES	dwelling:	805
Location:	WEST HORSHAM	Housing density:	43
Postcode:	RH12 3LN	Total Bedrooms:	2501
Main Location Type:	Edge of Town	Survey Date:	02/03/2017
Sub-Location Type:	Residential Zone	Survey Day:	Thursday
PTAL:	n/a	Parking Spaces:	1726
Site(65):	WS-03-A-07	Site area:	3.25 hect
		Number of	
Development Name:	BUNGALOWS	dwelling:	57
Location:	NEAR HORSHAM	Housing density:	27
Postcode:	RH13 0TR	Total Bedrooms:	118
	Neighbourhood Centre (PPS6 Local		
Main Location Type:	Centre)	Survey Date:	19/10/2017
Sub-Location Type:	Village	Survey Day:	Thursday
PTAL:	n/a	Parking Spaces:	108
Site(66):	WS-03-A-08	Site area:	8.86 hect

Development Name:	MIXED HOUSES	Number of dwellings:	180
Location:	ANGMERING	Housing density:	41
Postcode:	BN16 4PQ	Total Bedrooms:	586
Main Location Type:	Edge of Town	Survey Date:	19/04/2018
Sub-Location Type:	Residential Zone	Survey Day:	Thursday
PTAL:	n/a	Parking Spaces:	527
Site(67):	WS-03-A-09	Site area:	5.36 hect
	MIXED HOUSES &	Number of dwellings:	197
Development Name:	FLATS	Housing density:	52
Location:	WORTHING	Total Bedrooms:	591
Postcode:	BN12 6FE	Survey Date:	05/07/2018
Main Location Type:	Edge of Town	Survey Day:	Thursday
Sub-Location Type:	Residential Zone	Parking Spaces:	380
PTAL:	n/a		

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 the day of the survey was a manual classified count or an ATC count.

Trip Rates for Key Periods	Trips per 1 dwells DWELLS			
	Inbound	Outbound	Total	
0800-0900	0.208	0.774	0.982	
1700-1800	0.582	0.279	0.861	

TRIP RATE for Land Use 03 - RESIDENTIAL/A - HOUSES PRIVATELY OWNED
 Calculation Factor: 1 DWELLS
 Count Type: TOTAL PEOPLE

Time Range	No. Days	Ave. DWELLS	ARRIVALS			DEPARTU RES			TOTALS	
			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		67	83	0.117	67	83	0.452	67	83	0.569
08:00-09:00		67	83	0.208	67	83	0.774	67	83	0.982
09:00-10:00		67	83	0.225	67	83	0.291	67	83	0.516
10:00-11:00		67	83	0.208	67	83	0.268	67	83	0.476
11:00-12:00		67	83	0.217	67	83	0.249	67	83	0.466
12:00-13:00		67	83	0.263	67	83	0.253	67	83	0.516
13:00-14:00		67	83	0.266	67	83	0.265	67	83	0.531
14:00-15:00		67	83	0.266	67	83	0.308	67	83	0.574
15:00-16:00		67	83	0.551	67	83	0.306	67	83	0.857
16:00-17:00		67	83	0.533	67	83	0.303	67	83	0.836
17:00-18:00		67	83	0.582	67	83	0.279	67	83	0.861
18:00-19:00		67	83	0.449	67	83	0.302	67	83	0.751
19:00-20:00		1	7	0	1	7	0	1	7	0

20:00-21:00	1	7	0	1	7	0	1	7	0
21:00-22:00	1	7	0	1	7	0	1	7	0
22:00-23:00									
23:00-24:00									
Daily Trip Rates:			3.885			4.05			7.935

TRICS 7.5.4

Trip Rate Parameter: Number of dwellings

Filtering Summary

Land Use	03/K	RESIDENTIAL/MIXED PRIV HOUS (FLATS AND HOUSES)
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Selected Trip Rate
Calculation

Parameter Range 15-371 DWELLS

Actual Trip Rate
Calculation

Parameter Range 15-371 DWELLS

Date Range Minimum: 01/01/10 Maximum: 11/07/18

Parking Spaces

Range Selected: 28 to 746 Actual: 28 to 746

Percentage of
dwellings privately
owned:

All Surveys Included

Days of the week
selected

Monday	3
Tuesday	4
Wednesday	2
Thursday	6
Friday	1

Main Location Types
selected

Town Centre	1
Edge of Town Centre	2
Suburban Area (PPS6 Out of Centre)	8
Edge of Town	5

Population <1 Mile
ranges selected

1 001 to 5	0	2
5 001 to 10	0	4
10 001 to 15	0	1
15 001 to 20	0	1
20 001 to 25	0	3
25 001 to 50	0	5

Population <5 Mile
ranges selected

5 001 to 25	0	1
25 001 to 50	0	5
75 001 to 100	0	2
125 001 to 250	0	5
250 001 to 500	0	2
500 001 or More	1	

Car Ownership <5

Mile ranges selected	0.6 to 1.0	6
	1.1 to 1.5	8
	1.6 to 2.0	2

PTAL Rating No PTAL Present 16

TRIP RATE
CALCULATION
SELECTION
PARAMETERS:

Land Use 03 - RESIDENTIAL

Category K - MIXED PRIV HOUS
(FLATS AND HOUSES)

MULTI-MODAL

TOTAL PEOPLE

Selected regions and
areas:

2 SOUTH EAST		
ES	EAST SUSSEX	1 days
HC	HAMPSHIRE	1 days
WS	WEST SUSSEX	2 days
3 SOUTH WEST		
GS	GLOUCESTERSHIRE	1 days
4 EAST ANGLIA		
CA	CAMBRIDGESHIRE	4 days
5 EAST MIDLANDS		
NT	NOTTINGHAMSHIRE	1 days
6 WEST MIDLANDS		
ST	STAFFORDSHIRE	1 days
	YORKSHIRE & NORTH	
7 LINCOLNSHIRE		
	NORTH EAST	
NE	LINCOLNSHIRE	1 days
NY	NORTH YORKSHIRE	1 days
8 NORTH WEST		
	GREATER	
GM	MANCHESTER	1 days
9 NORTH		
CB	CUMBRIA	2 days

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

Secondary Filtering
selection:

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

Parameter: Number of dwellings
Actual Range: 15 to 371 (units:)
Range Selected by
User: 15 to 371 (units:)

Public Transport
Provision:
Selection by: Include all surveys

Date Range: 01/01/10 to
 11/07/18

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	3 days
Tuesday	4 days
Wednesday	2 days
Thursday	6 days
Friday	1 days

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

Selected survey types:

Manual count	16 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:

Town Centre	1
Edge of Town Centre	2
Suburban Area (PPS6 Out of Centre)	8
Edge of Town Neighbourhood Centre (PPS6 Local Centre)	5
Free Standing (PPS6 Out of Town)	0
Not Known	0

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:

Industrial Zone	1
Commercial Zone	0
Development Zone	0
Residential Zone	13
Retail Zone	0
Built-Up Zone	0
Village	0
Out of Town	0

High Street 0
 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 Su

Secondary Filtering selection:

Use Class:
 C3 16 days

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

Population within 1 mile:
 1,001 to 5,000 2 days
 5,001 to 10,000 4 days
 10,001 to 15,000 1 days
 15,001 to 20,000 1 days
 20,001 to 25,000 3 days
 25,001 to 50,000 5 days

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

Population within 5 miles:
 5,001 to 25,000 1 days
 25,001 to 50,000 5 days
 75,001 to 100,000 2 days
 125,001 to 250,000 5 days
 250,001 to 500,000 2 days
 500,001 or More 1 days

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

Car ownership within 5 miles:
 0.6 to 1.0 6 days
 1.1 to 1.5 8 days
 1.6 to 2.0 2 days

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

Travel Plan:

Yes 3 days
 No 13 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 16 days

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

LIST OF SITES

relevant to selection parameters

Site(1):	CA-03-K-01 MIXED HOUSES &	Site area:	3.10 hect
Development Name:	FLATS	Number of dwellings:	100
Location:	WISBECH	Housing density:	42
Postcode:	PE14 0TE	Total Bedrooms:	237
Main Location Type:	Edge of Town	Survey Date:	07/09/2015
Sub-Location Type:	Residential Zone	Survey Day:	Monday
PTAL:	n/a	Parking Spaces:	119
Site(2):	CA-03-K-02 MIXED HOUSES &	Site area:	0.58 hect
Development Name:	FLATS	Number of dwellings:	40
Location:	PETERBOROUGH	Housing density:	174
Postcode:	PE3 6DS	Total Bedrooms:	82
Main Location Type:	Town Centre	Survey Date:	16/12/2014
Sub-Location Type:	Residential Zone	Survey Day:	Tuesday
PTAL:	n/a	Parking Spaces:	40
Site(3):	CA-03-K-03	Site area:	2.49 hect
Development Name:	FLATS & TERRACED	Number of dwellings:	178
Location:	CAMBRIDGE	Housing density:	94
Postcode:	CB1 2PJ	Total Bedrooms:	388
Main Location Type:	Edge of Town Centre	Survey Date:	20/09/2017
Sub-Location Type:	No Sub Category	Survey Day:	Wednesday
PTAL:	n/a	Parking Spaces:	206
Site(4):	CA-03-K-04 MIXED HOUSES &	Site area:	2.60 hect
Development Name:	FLATS	Number of dwellings:	65
Location:	SOHAM	Housing density:	32
Postcode:	CB7 5AH	Total Bedrooms:	202
Main Location Type:	Suburban Area (PPS6)	Survey Date:	11/07/2018
Sub-Location Type:	Out of Centre)	Survey Day:	Wednesday
PTAL:	n/a	Parking Spaces:	159
Site(5):	CB-03-K-01	Site area:	1.05 hect
Development Name:	FLATS & TERRACED	Number of dwellings:	66
Location:	CARLISLE	Housing density:	244
Postcode:	CA2 5SW	Total Bedrooms:	136
Main Location Type:	Edge of Town	Survey Date:	12/06/2014
Sub-Location Type:	Industrial Zone	Survey Day:	Thursday
PTAL:	n/a	Parking Spaces:	102

Site(6):	CB-03-K-02	Site area:	0.32 hect
	SEMI-DETACHED &		
Development Name:	FLATS	Number of dwellings:	15
Location:	KENDAL	Housing density:	68
Postcode:	LA9 7LQ	Total Bedrooms:	38
	Suburban Area (PPS6)		
Main Location Type:	Out of Centre)	Survey Date:	21/06/2016
Sub-Location Type:	Residential Zone	Survey Day:	Tuesday
PTAL:	n/a	Parking Spaces:	31
Site(7):	ES-03-K-01	Site area:	2.76 hect
	MIXED HOUSES &		
Development Name:	FLATS	Number of dwellings:	64
Location:	UCKFIELD	Housing density:	55
Postcode:	TN22 5ET	Total Bedrooms:	177
Main Location Type:	Edge of Town	Survey Date:	14/07/2016
Sub-Location Type:	Residential Zone	Survey Day:	Thursday
PTAL:	n/a	Parking Spaces:	107
Site(8):	GM-03-K-02	Site area:	0.94 hect
Development Name:	SEMI DET. & FLATS	Number of dwellings:	33
Location:	MANCHESTER	Housing density:	54
Postcode:	M14 7DB	Total Bedrooms:	52
	Suburban Area (PPS6)		
Main Location Type:	Out of Centre)	Survey Date:	11/10/2011
Sub-Location Type:	Residential Zone	Survey Day:	Tuesday
PTAL:	n/a	Parking Spaces:	45
Site(9):	GS-03-K-01	Site area:	0.42 hect
Development Name:	MIXED HOUSING	Number of dwellings:	33
Location:	GLOUCESTER	Housing density:	127
Postcode:	GL4 4RG	Total Bedrooms:	75
	Suburban Area (PPS6)		
Main Location Type:	Out of Centre)	Survey Date:	29/04/2010
Sub-Location Type:	Residential Zone	Survey Day:	Thursday
PTAL:	n/a	Parking Spaces:	42
Site(10):	HC-03-K-06	Site area:	3.04 hect
Development Name:	HOUSES & FLATS	Number of dwellings:	91
Location:	SOUTHAMPTON	Housing density:	76
Postcode:	SO16 9GJ	Total Bedrooms:	260
	Suburban Area (PPS6)		
Main Location Type:	Out of Centre)	Survey Date:	02/10/2014
Sub-Location Type:	Residential Zone	Survey Day:	Thursday
PTAL:	n/a	Parking Spaces:	140
Site(11):	NE-03-K-01	Site area:	1.56 hect
Development Name:	BLOCK OF FLATS	Number of dwellings:	67
Location:	CLEETHORPES	Housing density:	67
Postcode:	DN32 9SJ	Total Bedrooms:	181
	Suburban Area (PPS6)		
Main Location Type:	Out of Centre)	Survey Date:	06/05/2014
Sub-Location Type:	Residential Zone	Survey Day:	Tuesday
PTAL:	n/a	Parking Spaces:	78
Site(12):	NT-03-K-02	Site area:	1.70 hect
Development Name:	MIXED HOUSES	Number of dwellings:	132
Location:	NOTTINGHAM	Housing density:	78
Postcode:	NG7 1GX	Total Bedrooms:	314
	Suburban Area (PPS6)		
Main Location Type:	Out of Centre)	Survey Date:	07/11/2016
Sub-Location Type:	No Sub Category	Survey Day:	Monday
PTAL:	n/a	Parking Spaces:	72
Site(13):	NY-03-K-02	Site area:	0.39 hect
Development Name:	MIXED HOUSING	Number of dwellings:	19
Location:	BOROUGHBRIDGE	Housing density:	63
Postcode:	YO51 9NT	Total Bedrooms:	26

Main Location Type:	Edge of Town Centre	Survey Date:	10/10/2011
Sub-Location Type:	Residential Zone	Survey Day:	Monday
PTAL:	n/a	Parking Spaces:	34
Site(14):	ST-03-K-03	Site area:	0.50 hect
MIXED HOUSING &			
Development Name:	FLATS	Number of dwellings:	28
Location:	WOLVERHAMPTON	Housing density:	80
Postcode:	WV3 0EB	Total Bedrooms:	73
Suburban Area (PPS6)			
Main Location Type:	Out of Centre)	Survey Date:	09/05/2014
Sub-Location Type:	Residential Zone	Survey Day:	Friday
PTAL:	n/a	Parking Spaces:	52
Site(15):	WS-03-K-03	Site area:	3.15 hect
MIXED HOUSES &			
Development Name:	FLATS	Number of dwellings:	111
Location:	WORTHING	Housing density:	53
Postcode:	BN12 6FH	Total Bedrooms:	341
Main Location Type:	Edge of Town	Survey Date:	12/05/2016
Sub-Location Type:	Residential Zone	Survey Day:	Thursday
PTAL:	n/a	Parking Spaces:	240
Site(16):	WS-03-K-04	Site area:	10.42 hect
MIXED HOUSES &			
Development Name:	FLATS	Number of dwellings:	371
Location:	HORSHAM	Housing density:	66
Postcode:	RH12 1EP	Total Bedrooms:	938
Main Location Type:	Edge of Town	Survey Date:	28/06/2018
Sub-Location Type:	Residential Zone	Survey Day:	Thursday
PTAL:	n/a	Parking Spaces:	746

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 the day of manual classified count or an ATC count.

Trips per 1 dwells	Periods		
	Inbound	Outbound	Total
0800-0900	0.154	0.581	0.735
1700-1800	0.469	0.242	0.711

TRIP RATE for Land
 Use 03 -
 RESIDENTIAL/K -
 MIXED PRIV HOUS
 (FLATS AND HOUSES)
 Calculation Factor:
 1 DWELLS
 Count Type: TOTAL
 PEOPLE

Time Range	ARRIVALS			DEPARTU			TOTALS
	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	16	88	0.088	16	88	0.368	16	88	0.456
08:00-09:00	16	88	0.154	16	88	0.581	16	88	0.735
09:00-10:00	16	88	0.183	16	88	0.257	16	88	0.44
10:00-11:00	16	88	0.192	16	88	0.253	16	88	0.445
11:00-12:00	16	88	0.18	16	88	0.197	16	88	0.377
12:00-13:00	16	88	0.22	16	88	0.218	16	88	0.438
13:00-14:00	16	88	0.272	16	88	0.229	16	88	0.501
14:00-15:00	16	88	0.215	16	88	0.279	16	88	0.494
15:00-16:00	16	88	0.453	16	88	0.259	16	88	0.712
16:00-17:00	16	88	0.357	16	88	0.24	16	88	0.597
17:00-18:00	16	88	0.469	16	88	0.242	16	88	0.711
18:00-19:00	16	88	0.454	16	88	0.212	16	88	0.666
19:00-20:00									
20:00-21:00									
21:00-22:00									
22:00-23:00									
23:00-24:00									
Daily Trip Rates:			3.237			3.335			6.572

TRICS 7.5.4

Trip Rate Parameter: Site area

Filtering Summary

Land Use 07/K LEISURE/FITNESS CLUB (PRIVATE)

Selected Trip Rate Calculation

Parameter Range 0.14-2.00 hect AREA

Actual Trip Rate Calculation

Parameter Range 0.14-2.00 hect AREA

Date Range Minimum: 01/01/10 Maximum: 27/09/17

Parking Spaces Range

Selected: 0 to 315 Actual: 0 to 315

Days of the week selected

Tuesday	1
Wednesday	2
Thursday	2
Friday	1

Main Location Types selected

Edge of Town Centre	1
Suburban Area (PPS6 Out of Centre)	2
Edge of Town	2
Free Standing (PPS6 Out of Town)	1

Population <1 Mile ranges selected

5 001 to 10	0	2
10 001 to 15	0	1
20 001 to 25	0	1
25 001 to 50	0	2

Population <5 Mile ranges selected

5 001 to 25	0	1
75 001 to 100	0	1
125 001 to 250	0	1
250 001 to 500	0	1
500 001 or More	2	

Car Ownership <5

Mile ranges selected 0.6 to 1.0	3
1.1 to 1.5	3

PTAL Rating No PTAL Present 6

TRIP RATE CALCULATION SELECTION PARAMETERS:

Land Use 07 - LEISURE K - FITNESS CLUB (PRIVATE)
 Category MULTI-MODAL
 TOTAL PEOPLE

Selected regions and areas:

2 SOUTH EAST ES	EAST SUSSEX	1 days
5 EAST MIDLANDS NT	NOTTINGHAMSHIRE	1 days
6 WEST MIDLANDS SH	SHROPSHIRE	1 days

YORKSHIRE & NORTH			
7	LINCOLNSHIRE		
	WY	WEST YORKSHIRE	1 days
9	NORTH		
	CB	CUMBRIA	1 days
	TW	TYNE & WEAR	1 days

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

Secondary Filtering selection:

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

Parameter: Site area
0.14 to 2.00 (units: hect)
Actual Range: hect
Range Selected by User: 0.14 to 2.00 (units: hect)

Public Transport

Provision:

Selection by: Include all surveys

Date Range: 01/01/10 to 27/09/17

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:

Tuesday 1 days
Wednesday 2 days
Thursday 2 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
the total adding up

This data displays the to the overall number of manual number of surveys in classified surveys and the selected set.

the number of unclassified ATC surveys Manual surveys are undertaken using staff whilst ATC surveys are undertaking using machines.

Selected Locations:

Town Centre 0

Edge of Town Centre 1

Suburban Area (PPS6 Out of Centre)	2
Edge of Town	2
Neighbourhood Centre (PPS6 Local Centre)	0
Free Standing (PPS6 Out of Town)	1
Not Known	0

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.
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Selected Location Sub Categories:

Industrial Zone	1
Commercial Zone	1
Development Zone	1
Residential Zone	2
Retail Zone	0
Built-Up Zone	0
Village	0
Out of Town	1
High Street	0
No Sub Category	0

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	No Sub Category
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Secondary Filtering selection:

Use Class:

A1	1 days
D2	5 days

This data displays the number of surveys per Use Class classification within the selected set. The

Use Classes Order which can be found 2005 has been used within the Library for this purpose module of TRICS®.

Population within 1 mile:

5,001 to 10,000	2 days
10,001 to 15,000	1 days
20,001 to 25,000	1 days
25,001 to 50,000	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	1 days
75,001 to 100,000	1 days
125,001 to 250,000	1 days
250,001 to 500,000	1 days

500,001 or More 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 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.

PTAL Rating:
 No PTAL Present 6 days
 This data displays the number of selected surveys with PTAL Ratings.

LIST OF SITES relevant to selection parameters

Site(1):	CB-07-K-01	Site area:	0.14 hect
Development Name:	FITNESS CLUB	Gross floor area:	650 sqm
Location:	PENRITH	Parking spaces:	24
		Number of	
Postcode:	CA11 9BN	Employees:	15
Main Location Type:	Edge of Town	Survey Date:	10/06/2014
Sub-Location Type:	Industrial Zone	Survey Day:	Tuesday
PTAL:	n/a		
Site(2):	ES-07-K-02	Site area:	0.39 hect
Development Name:	CORAL FITNESS	Gross floor area:	1600 sqm
Location:	BRIGHTON	Parking spaces:	97
		Number of	
Postcode:	BN3 7BG	Employees:	15
Main Location Type:	Suburban Area (PPS6)	Survey Date:	27/09/2017
Sub-Location Type:	Out of Centre)	Survey Day:	Wednesday
PTAL:	Residential Zone		
Site(3):	n/a	Site area:	1.70 hect
Development Name:	NT-07-K-02		
Development Name:	VIRGIN ACTIVE	Gross floor area:	6000 sqm
Location:	NOTTINGHAM	Parking spaces:	315
		Number of	
Postcode:	NG2 3AE	Employees:	81
Main Location Type:	Edge of Town Centre	Survey Date:	27/06/2013
Sub-Location Type:	Commercial Zone	Survey Day:	Thursday
PTAL:	n/a		
Site(4):	SH-07-K-01	Site area:	2.00 hect
Development Name:	FITNESS	Gross floor area:	4500 sqm
	TENNIS & LEISURE		

Location: SHREWSBURY Parking spaces: 154
 Number of
 Postcode: SY1 4RG Employees: 50
 Main Location Type: Edge of Town Survey Date: 21/05/2014
 Sub-Location Type: Residential Zone Survey Day: Wednesday
 PTAL: n/a
 Site(5): TW-07-K-01 Site area: 0.50 hect

Development Name: DW SPORTS FITNESS Gross floor area: 1380 sqm
 Location: SUNDERLAND Parking spaces: 111
 Number of
 Postcode: SR5 3XG Employees: 38
 Suburban Area (PPS6)
 Main Location Type: Out of Centre) Survey Date: 06/04/2017
 Sub-Location Type: Development Zone Survey Day: Thursday
 PTAL: n/a
 Site(6): WY-07-K-01 Site area: 1.08 hect

Development Name: FITNESS FIRST Gross floor area: 1570 sqm
 Location: LEEDS Parking spaces: 142
 Number of
 Postcode: LS4 2AL Employees: 21
 Free Standing (PPS6)
 Main Location Type: Out of Town) Survey Date: 11/06/2010
 Sub-Location Type: Out of Town Survey Day: Friday
 PTAL: n/a

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 and whether the survey was a manual classified count or an ATC count.

Trip Rates for Key Periods

Period	Inbound	Trips per 1 hect	Outbound	AREA	Total
0800-0900	27.883		33.563		61.446
1700-1800	98.795		57.487		156.282

TRIP RATE for Land
 Use 07 - LEISURE/K -
 FITNESS CLUB
 (PRIVATE)
 Calculation Factor:
 1 hect
 Count Type: TOTAL
 PEOPLE

Time Range	No. Days	Ave. AREA	ARRIVALS			DEPARTU RES			TOTALS	
			Trip Rate	No. Days	Ave. AREA	Trip Rate	No. Days	Ave. AREA	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		1	1.08	0	1	1.08	0	1	1.08	0
06:00-07:00		6	0.97	32.874	6	0.97	2.065	6	0.97	34.939
07:00-08:00		6	0.97	19.793	6	0.97	20.826	6	0.97	40.619
08:00-09:00		6	0.97	27.883	6	0.97	33.563	6	0.97	61.446
09:00-10:00		6	0.97	59.897	6	0.97	24.096	6	0.97	83.993
10:00-11:00		6	0.97	54.217	6	0.97	32.358	6	0.97	86.575
11:00-12:00		6	0.97	30.293	6	0.97	58.348	6	0.97	88.641
12:00-13:00		6	0.97	32.702	6	0.97	35.112	6	0.97	67.814
13:00-14:00		6	0.97	30.981	6	0.97	33.907	6	0.97	64.888
14:00-15:00		6	0.97	37.005	6	0.97	25.301	6	0.97	62.306
15:00-16:00		6	0.97	53.184	6	0.97	45.783	6	0.97	98.967

16:00-17:00	6	0.97	68.158	6	0.97	48.709	6	0.97	116.867
17:00-18:00	6	0.97	98.795	6	0.97	57.487	6	0.97	156.282
18:00-19:00	6	0.97	62.478	6	0.97	77.969	6	0.97	140.447
19:00-20:00	6	0.97	45.267	6	0.97	83.821	6	0.97	129.088
20:00-21:00	6	0.97	17.04	6	0.97	57.143	6	0.97	74.183
21:00-22:00	6	0.97	2.41	6	0.97	20.654	6	0.97	23.064
22:00-23:00	2	1.04	0.957	2	1.04	17.225	2	1.04	18.182
23:00-24:00									
Daily Trip Rates:			673.934			674.367			1348.301

TRICS 7.5.4

Trip Rate Parameter: Gross floor area

Filtering Summary

Land Use 02/A EMPLOYMENT/OFFICE

Selected Trip Rate Calculation

Parameter Range 186-70291 sqm GFA

Actual Trip Rate Calculation

Parameter Range 186-45000 sqm GFA

Date Range Minimum: 01/01/10 Maximum: 04/07/18

Parking Spaces Range

Selected: 0 to 2923 Actual: 0 to 2923

Days of the week selected

Monday	11
Tuesday	11
Wednesday	8
Thursday	10
Friday	5

Main Location Types selected

Town Centre	10
Edge of Town Centre	21
Suburban Area (PPS6 Out of Centre)	7
Edge of Town	7

Population <1 Mile ranges selected

1 001 to 5	0	2
5 001 to 10	0	10
10 001 to 15	0	3
15 001 to 20	0	8
20 001 to 25	0	2
25 001 to 50	0	18
50 001 to 100	0	2

Population <5 Mile ranges selected

5 001 to 25	0	1
25 001 to 50	0	5
50 001 to 75	0	1
75 001 to 100	0	7
100 001 to 125	0	1
125 001 to 250	0	18
250 001 to 500	0	7
500 001 or More	5	

Car Ownership <5

Mile ranges selected	0.5 or Less	1
	0.6 to 1.0	20
	1.1 to 1.5	20
	1.6 to 2.0	4

PTAL Rating No PTAL Present 45

TRIP RATE
CALCULATION
SELECTION
PARAMETERS:

Land Use 02 - EMPLOYMENT
Category A - OFFICE
MULTI-MODAL
TOTAL PEOPLE

Selected regions and
areas:

2 SOUTH EAST		
BD	BEDFORDSHIRE	1 days
ES	EAST SUSSEX	3 days
EX	ESSEX	1 days
HC	HAMPSHIRE	1 days
HF	HERTFORDSHIRE	2 days
KC	KENT	5 days
SC	SURREY	3 days
SO	SLOUGH	2 days
3 SOUTH WEST		
BR	BRISTOL CITY	1 days
DC	DORSET	1 days
4 EAST ANGLIA		
CA	CAMBRIDGESHIRE	1 days
NF	NORFOLK	3 days
SF	SUFFOLK	2 days
6 WEST MIDLANDS		
WK	WARWICKSHIRE	1 days
YORKSHIRE & NORTH		
7 LINCOLNSHIRE		
WY	WEST YORKSHIRE	2 days
8 NORTH WEST		
GREATER		
GM	MANCHESTER	3 days
LC	LANCASHIRE	1 days
9 NORTH		
CB	CUMBRIA	1 days
DH	DURHAM	2 days
TV	TEES VALLEY	1 days
TW	TYNE & WEAR	1 days
10 WALES		
CO	CONWY	1 days
MT	MERTHYR TYDFIL	1 days
PS	POWYS	1 days
SW	SWANSEA	2 days
11 SCOTLAND		
DU	DUNDEE CITY	1 days
EB		
	CITY OF EDINBURGH	1 days

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

Secondary Filtering
selection:

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

Parameter: Gross floor area
 186 to 45000 (units: sqm)
 Actual Range: sqm
 Range Selected by User: 186 to 70291 (units: sqm)

Public Transport Provision:
 Selection by: Include all surveys

Date Range: 01/01/10 to 04/07/18

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 11 days
 Tuesday 11 days
 Wednesday 8 days
 Thursday 10 days
 Friday 5 days

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

Selected survey types:
 Manual count 45 days
 Directional ATC Count 0 days
 the total adding up

This data displays the number of manual classified surveys and the selected set.

the number of unclassified ATC surveys Manual surveys are undertaken using staff whilst ATC surveys are undertaking using machines.

Selected Locations:
 Town Centre 10
 Edge of Town Centre 21
 Suburban Area (PPS6 Out of Centre) 7
 Edge of Town Neighbourhood Centre (PPS6 Local Centre) 7
 Free Standing (PPS6 Out of Town) 0
 Not Known 0

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.
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Selected Location Sub Categories:

Industrial Zone	4
Commercial Zone	8
Development Zone	3
Residential Zone	7
Retail Zone	0
Built-Up Zone	19
Village	0
Out of Town	0
High Street	1
No Sub Category	3

This data displays the number of surveys per location sub-category within the selected set. The location sub-categories consist of

Commercial Zone	Industrial Zone	Development Zone	Residential Zone	Retail Zone	Built-Up Zone	Village	Out of Town	High Street	No Sub Category
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Secondary Filtering selection:

Use Class:

A1	1 days
B1	44 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	2 days
5,001 to 10,000	10 days
10,001 to 15,000	3 days
15,001 to 20,000	8 days
20,001 to 25,000	2 days
25,001 to 50,000	18 days
50,001 to 100,000	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	1 days
25,001 to 50,000	5 days
50,001 to 75,000	1 days
75,001 to 100,000	7 days

100,001 to 125,000 1 days
 125,001 to 250,000 18 days
 250,001 to 500,000 7 days
 500,001 or More 5 days

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

Car ownership within 5 miles:

0.5 or Less 1 days
 0.6 to 1.0 20 days
 1.1 to 1.5 20 days
 1.6 to 2.0 4 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 19 days
 No 26 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 45 days

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

LIST OF SITES relevant to selection parameters

Site(1): BD-02-A-03 Gross floor area: 1469 sqm

Development Name: OFFICES
 Location: BEDFORD

Postcode: MK40 2BJ Number of Employees: 240

Main Location Type: Edge of Town Centre Survey Date: 14/10/2013

Sub-Location Type: No Sub Category Survey Day: Monday

PTAL: n/a Parking Spaces: 55

Site(2): BR-02-A-02 Gross floor area: 5736 sqm

PLANNING &

Development Name: ENGINEERING

Location: BRISTOL

Postcode: BS1 6JZ Number of Employees: 224

Main Location Type: Town Centre Survey Date: 29/11/2013

Sub-Location Type: Built-Up Zone Survey Day: Friday

PTAL: n/a Parking Spaces: 28

Site(3): CA-02-A-05 Gross floor area: 8793 sqm

Development Name: OFFICES
 Location: PETERBOROUGH

Postcode:	PE1 1TT	Number of Employees:	87
Main Location Type:	Town Centre	Survey Date:	16/12/2014
Sub-Location Type:	Built-Up Zone	Survey Day:	Tuesday
PTAL:	n/a	Parking Spaces:	72
Site(4):	CB-02-A-02	Gross floor area:	925 sqm

Development Name: OFFICE
 Location: CARLISLE

Postcode:	CA2 7AF	Number of Employees:	53
Main Location Type:	Edge of Town Centre	Survey Date:	24/06/2016
Sub-Location Type:	Industrial Zone	Survey Day:	Friday
PTAL:	n/a	Parking Spaces:	44
Site(5):	CO-02-A-01	Gross floor area:	6186 sqm

Development Name: OFFICES
 Location: LLANDUDNO
 JUNCTION

Postcode:	LL31 9RZ	Number of Employees:	500
Main Location Type:	Edge of Town	Survey Date:	28/03/2018
Sub-Location Type:	Commercial Zone	Survey Day:	Wednesday
PTAL:	n/a	Parking Spaces:	320
Site(6):	DC-02-A-09	Gross floor area:	11664 sqm

Development Name: COUNCIL OFFICES
 Location: DORCHESTER

Postcode:	DT1 1XJ	Number of Employees:	2088
Main Location Type:	Edge of Town Centre	Survey Date:	28/11/2011
Sub-Location Type:	Built-Up Zone	Survey Day:	Monday
PTAL:	n/a	Parking Spaces:	706
Site(7):	DH-02-A-01	Gross floor area:	3372 sqm

Development Name: RPMI OFFICES
 Location: DARLINGTON

Postcode:	DL3 6EH	Number of Employees:	250
Main Location Type:	Suburban Area (PPS6 Out of Centre)	Survey Date:	05/11/2010
Sub-Location Type:	Residential Zone	Survey Day:	Friday
PTAL:	n/a	Parking Spaces:	99
Site(8):	DH-02-A-02	Gross floor area:	2000 sqm

Development Name: COMPANY
 Location: NEAR DURHAM

Postcode:	DH6 5PF	Number of Employees:	115
Main Location Type:	Edge of Town	Survey Date:	27/11/2012
Sub-Location Type:	Industrial Zone	Survey Day:	Tuesday
PTAL:	n/a	Parking Spaces:	125
Site(9):	DU-02-A-01	Gross floor area:	3200 sqm

Development Name: OFFICES
 Location: DUNDEE

Postcode:	DD1 4QB	Number of Employees:	146
Main Location Type:	Edge of Town Centre	Survey Date:	27/04/2017
Sub-Location Type:	Development Zone	Survey Day:	Thursday
PTAL:	n/a	Parking Spaces:	67

Site(10):	EB-02-A-06	Gross floor area:	4500 sqm
Development Name: REGUS OFFICES			
Location: EDINBURGH			
Postcode:	EH2 2AF	Number of Employees:	0
Main Location Type:	Town Centre	Survey Date:	16/03/2016
Sub-Location Type:	Built-Up Zone	Survey Day:	Wednesday
PTAL:	n/a	Parking Spaces:	10
Site(11):	ES-02-A-11	Gross floor area:	186 sqm
Development Name: HOUSING COMPANY			
Location: HASTINGS			
Postcode:	TN34 3FD	Number of Employees:	16
Main Location Type:	Suburban Area (PPS6) Out of Centre)	Survey Date:	17/11/2015
Sub-Location Type:	Residential Zone	Survey Day:	Tuesday
PTAL:	n/a	Parking Spaces:	6
Site(12):	ES-02-A-12	Gross floor area:	3640 sqm
Development Name: COUNCIL OFFICES			
Location: HAILSHAM			
Postcode:	BN27 2AX	Number of Employees:	341
Main Location Type:	Edge of Town Centre	Survey Date:	26/11/2015
Sub-Location Type:	Built-Up Zone	Survey Day:	Thursday
PTAL:	n/a	Parking Spaces:	78
Site(13):	ES-02-A-13	Gross floor area:	280 sqm
Development Name: OFFICES			
Location: HOVE			
Postcode:	BN3 4LA	Number of Employees:	32
Main Location Type:	Edge of Town Centre	Survey Date:	04/07/2018
Sub-Location Type:	Residential Zone	Survey Day:	Wednesday
PTAL:	n/a	Parking Spaces:	7
Site(14):	EX-02-A-03	Gross floor area:	45000 sqm
Development Name: HMRC			
Location: SOUTHEND-ON-SEA			
Postcode:	SS9 1AA	Number of Employees:	1540
Main Location Type:	Town Centre	Survey Date:	23/10/2013
Sub-Location Type:	Built-Up Zone	Survey Day:	Wednesday
PTAL:	n/a	Parking Spaces:	281
Site(15):	GM-02-A-07	Gross floor area:	4200 sqm
Development Name: LAW OFFICES			
Location: MANCHESTER			
Postcode:	M2 3HZ	Number of Employees:	252
Main Location Type:	Town Centre	Survey Date:	19/10/2011
Sub-Location Type:	Built-Up Zone	Survey Day:	Wednesday
PTAL:	n/a	Parking Spaces:	39
Site(16):	GM-02-A-08	Gross floor area:	3960 sqm
Development Name: REGUS			
Location: MANCHESTER			
Postcode:	M2 2AN	Number of Employees:	284
Main Location Type:	Town Centre	Survey Date:	26/09/2016
Sub-Location Type:	Built-Up Zone	Survey Day:	Monday
PTAL:	n/a	Parking Spaces:	6
Site(17):	GM-02-A-09	Gross floor area:	2500 sqm

Development Name: LEASED OFFICES
Location: MANCHESTER
Postcode: M4 4DE
Number of Employees: 670

Main Location Type: Edge of Town Centre
Sub-Location Type: Built-Up Zone
PTAL: n/a
Site(18): HC-02-A-11
Survey Date: 26/09/2016
Survey Day: Monday
Parking Spaces: 26100 sqm

Development Name: DIY CO. HQ
Location: CHANDLER'S FORD
Postcode: SO53 3LE
Main Location Type: Edge of Town
Sub-Location Type: Commercial Zone
PTAL: n/a
Site(19): HF-02-A-03
Number of Employees: 1700
Survey Date: 17/10/2011
Survey Day: Monday
Parking Spaces: 1319
Gross floor area: 610 sqm

Development Name: OFFICE
Location: ST ALBANS
Postcode: AL1 3XH
Main Location Type: Edge of Town Centre
Sub-Location Type: Built-Up Zone
PTAL: n/a
Site(20): HF-02-A-04
Number of Employees: 8
Survey Date: 16/10/2013
Survey Day: Wednesday
Parking Spaces: 12
Gross floor area: 5000 sqm

Development Name: OFFICES
Location: ST ALBANS
Postcode: AL1 5HE
Main Location Type: Edge of Town Centre
Sub-Location Type: Residential Zone
PTAL: n/a
Site(21): KC-02-A-07
Number of Employees: 365
Survey Date: 02/10/2014
Survey Day: Thursday
Parking Spaces: 205
Gross floor area: 2525 sqm

Development Name: KCC HIGHWAYS REG.
Location: ASHFORD
Postcode: TN24 8AD
Main Location Type: Edge of Town
Sub-Location Type: Commercial Zone
PTAL: n/a
Site(22): KC-02-A-08
Number of Employees: 233
Survey Date: 05/12/2011
Survey Day: Monday
Parking Spaces: 147
Gross floor area: 3168 sqm

Development Name: OFFICE
Location: AYLESFORD
Postcode: ME20 7BU
Main Location Type: Edge of Town
Sub-Location Type: Industrial Zone
PTAL: n/a
Site(23): KC-02-A-09
Number of Employees: 190
Survey Date: 28/11/2011
Survey Day: Monday
Parking Spaces: 155
Gross floor area: 1500 sqm

Development Name: COUNCIL OFFICES
Location: MAIDSTONE
Postcode: ME14 1XQ
Main Location Type: Edge of Town Centre
Sub-Location Type: Built-Up Zone
PTAL: n/a
Site(24): KC-02-A-10
Number of Employees: 200
Survey Date: 19/10/2011
Survey Day: Wednesday
Parking Spaces: 25
Gross floor area: 2900 sqm

Development Name: COUNCIL OFFICES
 Location: MAIDSTONE
 Postcode: ME14 1QX
 Number of Employees: 430
 Main Location Type: Edge of Town Centre
 Sub-Location Type: Built-Up Zone
 PTAL: n/a
 Site(25): KC-02-A-11
 Survey Date: 19/10/2011
 Survey Day: Wednesday
 Parking Spaces: 0
 Gross floor area: 32793 sqm

Development Name: COUNTY HALL
 Location: MAIDSTONE
 Postcode: ME14 1XQ
 Number of Employees: 2139
 Main Location Type: Edge of Town Centre
 Sub-Location Type: Built-Up Zone
 PTAL: n/a
 Site(26): LC-02-A-09
 Survey Date: 17/10/2011
 Survey Day: Monday
 Parking Spaces: 369
 Gross floor area: 2600 sqm

Development Name: OFFICES
 Location: BLACKBURN
 Postcode: BB1 3HQ
 Number of Employees: 150
 Main Location Type: Suburban Area (PPS6)
 Sub-Location Type: Out of Centre
 PTAL: n/a
 Site(27): MT-02-A-02
 Survey Date: 04/06/2013
 Survey Day: Tuesday
 Parking Spaces: 89
 Gross floor area: 5250 sqm

Development Name: COUNCIL OFFICES
 Location: MERTHYR TYDFIL
 Postcode: CF47 8AN
 Number of Employees: 0
 Main Location Type: Edge of Town Centre
 Sub-Location Type: Built-Up Zone
 PTAL: n/a
 Site(28): NF-02-A-01
 Survey Date: 17/10/2013
 Survey Day: Thursday
 Parking Spaces: 56
 Gross floor area: 5500 sqm

Development Name: COUNCIL OFFICE
 Location: KING'S LYNN
 Postcode: PE30 1EX
 Number of Employees: 408
 Main Location Type: Edge of Town Centre
 Sub-Location Type: Built-Up Zone
 PTAL: n/a
 Site(29): NF-02-A-02
 Survey Date: 30/09/2010
 Survey Day: Thursday
 Parking Spaces: 5
 Gross floor area: 894 sqm

Development Name: PLANNERS
 Location: GREAT YARMOUTH
 Postcode: NR30 1HE
 Number of Employees: 50
 Main Location Type: Edge of Town Centre
 Sub-Location Type: Commercial Zone
 PTAL: n/a
 Site(30): NF-02-A-03
 Survey Date: 11/09/2017
 Survey Day: Monday
 Parking Spaces: 46
 Gross floor area: 5500 sqm

Development Name: OFFICES
 Location: GREAT YARMOUTH
 Postcode: NR30 1HD
 Number of Employees: 380
 Main Location Type: Edge of Town Centre
 Survey Date: 12/09/2017

Sub-Location Type: Commercial Zone Survey Day: Tuesday
PTAL: n/a Parking Spaces: 72
Site(31): PS-02-A-01 Gross floor area: 3920 sqm

Development Name: COUNCIL OFFICES
Location: WELSHPOOL

Postcode: SY21 7AS Number of Employees: 140

Main Location Type: Edge of Town Centre Survey Date: 12/05/2015
Sub-Location Type: No Sub Category Survey Day: Tuesday
PTAL: n/a Parking Spaces: 121
Site(32): SC-02-A-15 Gross floor area: 1896 sqm

Development Name: ACCOUNTANTS
Location: GUILDFORD

Postcode: GU1 1UW Number of Employees: 140

Main Location Type: Suburban Area (PPS6)
Out of Centre) Survey Date: 05/10/2010
Sub-Location Type: Residential Zone Survey Day: Tuesday
PTAL: n/a Parking Spaces: 63
Site(33): SC-02-A-16 Gross floor area: 39230 sqm

Development Name: BANK OF AMERICA
Location: CAMBERLEY

Postcode: GU15 3BW Number of Employees: 250
Main Location Type: Edge of Town Survey Date: 10/05/2011
Sub-Location Type: Commercial Zone Survey Day: Tuesday
PTAL: n/a Parking Spaces: 250
Site(34): SC-02-A-17 Gross floor area: 10293 sqm

Development Name: PHARMACEUTICALS
Location: WEYBRIDGE

Postcode: KT13 0DE Number of Employees: 345

Main Location Type: Suburban Area (PPS6)
Out of Centre) Survey Date: 18/10/2011
Sub-Location Type: Residential Zone Survey Day: Tuesday
PTAL: n/a Parking Spaces: 252
Site(35): SF-02-A-01 Gross floor area: 8000 sqm

Development Name: COUNCIL OFFICES

Location: BURY ST. EDMUNDS

Postcode: IP33 3YU Number of Employees: 700

Main Location Type: Suburban Area (PPS6)
Out of Centre) Survey Date: 27/09/2010
Sub-Location Type: Industrial Zone Survey Day: Monday
PTAL: n/a Parking Spaces: 342
Site(36): SF-02-A-02 Gross floor area: 6505 sqm

Development Name: OFFICES
Location: IPSWICH

Postcode: IP2 8SD Number of Employees: 218

Main Location Type: Edge of Town Centre Survey Date: 19/07/2013
Sub-Location Type: Commercial Zone Survey Day: Friday
PTAL: n/a Parking Spaces: 160
Site(37): SO-02-A-01 Gross floor area: 1800 sqm

Development Name: COUNCIL OFFICES

Location: SLOUGH

Postcode:	SL1 1JL	Number of Employees:	197
Main Location Type:	Town Centre	Survey Date:	27/02/2014
Sub-Location Type:	High Street	Survey Day:	Thursday
PTAL:	n/a	Parking Spaces:	31
Site(38):	SO-02-A-02	Gross floor area:	5050 sqm

Development Name: COUNCIL OFFICES
Location: SLOUGH

Postcode:	SL1 3UF	Number of Employees:	800
Main Location Type:	Edge of Town Centre	Survey Date:	27/02/2014
Sub-Location Type:	Built-Up Zone	Survey Day:	Thursday
PTAL:	n/a	Parking Spaces:	216
Site(39):	SW-02-A-01	Gross floor area:	6630 sqm

Development Name: OFFICES
Location: SWANSEA

Postcode:	SA1 8AG	Number of Employees:	1221
Main Location Type:	Edge of Town Centre	Survey Date:	25/10/2013
Sub-Location Type:	Development Zone	Survey Day:	Friday
PTAL:	n/a	Parking Spaces:	184
Site(40):	SW-02-A-02	Gross floor area:	2225 sqm

Development Name: OFFICE
Location: SWANSEA

Postcode:	SA1 8PG	Number of Employees:	155
Main Location Type:	Edge of Town Centre	Survey Date:	24/10/2013
Sub-Location Type:	Development Zone	Survey Day:	Thursday
PTAL:	n/a	Parking Spaces:	131
Site(41):	TV-02-A-04	Gross floor area:	3950 sqm

Development Name: COUNCIL OFFICES
Location: MIDDLESBROUGH

Postcode:	TS1 2RH	Number of Employees:	141
Main Location Type:	Town Centre	Survey Date:	08/10/2013
Sub-Location Type:	Commercial Zone	Survey Day:	Tuesday
PTAL:	n/a	Parking Spaces:	0
Site(42):	TW-02-A-07	Gross floor area:	2090 sqm

Development Name: OFFICES
Location: GATESHEAD

Postcode:	NE8 1AN	Number of Employees:	98
Main Location Type:	Town Centre	Survey Date:	13/06/2016
Sub-Location Type:	Built-Up Zone	Survey Day:	Monday
PTAL:	n/a	Parking Spaces:	57
Site(43):	WK-02-A-01	Gross floor area:	960 sqm

Development Name: OFFICES
Location: COVENTRY

Postcode:	CV1 2DY	Number of Employees:	100
Main Location Type:	Town Centre	Survey Date:	17/10/2013
Sub-Location Type:	Built-Up Zone	Survey Day:	Thursday
PTAL:	n/a	Parking Spaces:	72
Site(44):	WY-02-A-03	Gross floor area:	2696 sqm

Development Name: OFFICE
Location: LEEDS

Postcode: LS6 1LG Number of Employees: 243

Main Location Type: Suburban Area (PPS6)
 Out of Centre) Survey Date: 17/06/2010
 Sub-Location Type: Residential Zone Survey Day: Thursday
 PTAL: n/a Parking Spaces:
 Site(45): WY-02-A-05 Gross floor area: 1230 sqm

Development Name: OFFICES
 Location: CASTLEFORD

Postcode: WF10 5TG Number of Employees: 115
 Main Location Type: Edge of Town Survey Date: 23/05/2017
 Sub-Location Type: No Sub Category Survey Day: Tuesday
 PTAL: n/a Parking Spaces: 47

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.

Period	Inbound	Trips per 100 sqm GFA		
		Outbound	Total	
0800-0900		2.242	0.153	2.395
1700-1800		0.158	2.064	2.222

TRIP RATE for Land Use 02 - EMPLOYMENT/A - OFFICE
 Calculation Factor: 100 sqm
 Count Type: TOTAL PEOPLE

Time Range	No. Days	Ave. GFA	ARRIVALS			DEPARTURES			TOTALS Trip Rate	
			Trip Rate	No. Days	Ave. GFA	Trip Rate	No. Days	Ave. GFA		
00:00-00:30										
00:30-01:00										
01:00-01:30										
01:30-02:00										
02:00-02:30										
02:30-03:00										
03:00-03:30										
03:30-04:00										
04:00-04:30										
04:30-05:00										
05:00-05:30										
05:30-06:00										
06:00-06:30										
06:30-07:00										
07:00-07:30		45	6632	0.24	45	6632	0.014	45	6632	0.254
07:30-08:00		45	6632	0.618	45	6632	0.033	45	6632	0.651
08:00-08:30		45	6632	0.993	45	6632	0.057	45	6632	1.05
08:30-09:00		45	6632	1.249	45	6632	0.096	45	6632	1.345
09:00-09:30		45	6632	0.887	45	6632	0.148	45	6632	1.035
09:30-10:00		45	6632	0.524	45	6632	0.178	45	6632	0.702

10:00-10:30	45	6632	0.357	45	6632	0.199	45	6632	0.556
10:30-11:00	45	6632	0.298	45	6632	0.218	45	6632	0.516
11:00-11:30	45	6632	0.269	45	6632	0.242	45	6632	0.511
11:30-12:00	45	6632	0.267	45	6632	0.284	45	6632	0.551
12:00-12:30	45	6632	0.449	45	6632	0.729	45	6632	1.178
12:30-13:00	45	6632	0.617	45	6632	0.703	45	6632	1.32
13:00-13:30	45	6632	0.677	45	6632	0.611	45	6632	1.288
13:30-14:00	45	6632	0.65	45	6632	0.406	45	6632	1.056
14:00-14:30	45	6632	0.431	45	6632	0.332	45	6632	0.763
14:30-15:00	45	6632	0.259	45	6632	0.345	45	6632	0.604
15:00-15:30	45	6632	0.196	45	6632	0.339	45	6632	0.535
15:30-16:00	45	6632	0.19	45	6632	0.392	45	6632	0.582
16:00-16:30	45	6632	0.158	45	6632	0.631	45	6632	0.789
16:30-17:00	45	6632	0.137	45	6632	0.787	45	6632	0.924
17:00-17:30	45	6632	0.107	45	6632	1.315	45	6632	1.422
17:30-18:00	45	6632	0.051	45	6632	0.749	45	6632	0.8
18:00-18:30	44	6754	0.035	44	6754	0.488	44	6754	0.523
18:30-19:00	44	6754	0.018	44	6754	0.19	44	6754	0.208
19:00-19:30									
19:30-20:00									
20:00-20:30									
20:30-21:00									
21:00-21:30									
21:30-22:00									
22:00-22:30									
22:30-23:00									
23:00-23:30									
23:30-24:00									
Daily Trip Rates:			9.677			9.486			19.163

TRICS 7.5.4

Trip Rate Parameter: Gross floor area

Filtering Summary

Land Use 01/O RETAIL/CONVENIENCE STORE

Selected Trip Rate Calculation

Parameter Range 70-1500 sqm GFA

Actual Trip Rate Calculation

Parameter Range 70-1500 sqm GFA

Date Range Minimum: 01/01/10 Maximum: 07/04/17

Parking Spaces Range Selected: 0 to 31 Actual: 0 to 31

Days of the week selected

Monday	5
Wednesday	5
Thursday	3
Friday	6

Main Location Types selected

Town Centre	5
Edge of Town Centre	1
Suburban Area (PPS6 Out of Centre)	7
Edge of Town Neighbourhood Centre (PPS6 Local Centre)	5

Population <1 Mile ranges selected

5 001 to 10	0	4
10 001 to 15	0	2
15 001 to 20	0	4
20 001 to 25	0	2
25 001 to 50	0	4
50 001 to 100	0	3

Population <5 Mile ranges selected

5 001 to 25	0	1
25 001 to 50	0	1
75 001 to 100	0	3
100 001 to 125	0	2
125 001 to 250	0	5
250 001 to 500	0	6
500 001 or More	1	

Car Ownership <5

Mile ranges selected	0.6 to 1.0	12
	1.1 to 1.5	7

PTAL Rating No PTAL Present 19

TRIP RATE CALCULATION SELECTION PARAMETERS:

Land Use 01 - RETAIL

Category
 MULTI-MODAL
 TOTAL PEOPLE

O - CONVENIENCE
 STORE

Selected regions and
 areas:

2 SOUTH EAST		
ES	EAST SUSSEX	1 days
3 SOUTH WEST		
DV	DEVON	1 days
WL	WILTSHIRE	1 days
4 EAST ANGLIA		
CA	CAMBRIDGESHIRE	2 days
NF	NORFOLK	1 days
YORKSHIRE & NORTH		
7 LINCOLNSHIRE		
NY	NORTH YORKSHIRE	2 days
SY	SOUTH YORKSHIRE	2 days
WY	WEST YORKSHIRE	2 days
9 NORTH		
DH	DURHAM	1 days
TW	TYNE & WEAR	1 days
10 WALES		
CF	CARDIFF	2 days
11 SCOTLAND		
EB	CITY OF EDINBURGH	2 days
GC	GLASGOW CITY	1 days

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

Secondary Filtering
 selection:

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

Parameter: Gross floor area
 70 to 1500 (units:
 Actual Range: sqm)
 Range Selected by 70 to 1500 (units:
 User: sqm)

Public Transport
 Provision:
 Selection by: Include all surveys

Date Range: 01/01/10 to
 07/04/17

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 5 days
 Wednesday 5 days
 Thursday 3 days
 Friday 6 days

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

Selected survey types:

Manual count 19 days
 Directional ATC Count 0 days
 the total adding up

This data displays the number of manual classified surveys and the number of unclassified ATC surveys 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:

Town Centre 5
 Edge of Town Centre 1
 Suburban Area (PPS6 Out of Centre) 7
 Edge of Town Neighbourhood Centre (PPS6 Local Centre) 5
 Free Standing (PPS6 Out of Town) 0
 Not Known 0

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:

Industrial Zone 0
 Commercial Zone 1
 Development Zone 0
 Residential Zone 12
 Retail Zone 0
 Built-Up Zone 5
 Village 0
 Out of Town 0
 High Street 1
 No Sub Category 0

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 St
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Secondary Filtering selection:

Use Class:

A1 19 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:

5,001 to 10,000 4 days
10,001 to 15,000 2 days
15,001 to 20,000 4 days
20,001 to 25,000 2 days
25,001 to 50,000 4 days
50,001 to 100,000 3 days

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

Population within 5 miles:

5,001 to 25,000 1 days
25,001 to 50,000 1 days
75,001 to 100,000 3 days
100,001 to 125,000 2 days
125,001 to 250,000 5 days
250,001 to 500,000 6 days
500,001 or More 1 days

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

Car ownership within 5 miles:

0.6 to 1.0 12 days
1.1 to 1.5 7 days

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

Petrol filling station:

Included in the survey count 0 days

Excluded from count or no filling station 19 days

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

Travel Plan:

Yes 1 days
No 18 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 19 days

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

LIST OF SITES

relevant to selection parameters

Site(1):	CA-01-O-01	Gross floor area:	375 sqm
Development Name:	CO-OP	Retail floor area:	300 sqm
Location:	PETERBOROUGH		
Postcode:	PE3 6EY	Number of Employees:	9
Main Location Type:	Neighbourhood Centre (PPS6 Local Centre)	Survey Date:	17/10/2011
Sub-Location Type:	Residential Zone	Survey Day:	Monday
PTAL:	n/a	Parking Spaces:	0
Site(2):	CA-01-O-02	Gross floor area:	1056 sqm
Development Name:	LITTLE WAITROSE	Retail floor area:	770 sqm
Location:	CAMBRIDGE		
Postcode:	CB1 1EW	Number of Employees:	23
Main Location Type:	Town Centre	Survey Date:	12/07/2013
Sub-Location Type:	Built-Up Zone	Survey Day:	Friday
PTAL:	n/a	Parking Spaces:	0
Site(3):	CF-01-O-01	Gross floor area:	450 sqm
Development Name:	TESCO EXPRESS	Retail floor area:	375 sqm
Location:	CARDIFF		
Postcode:	CF10 5BZ	Number of Employees:	35
Main Location Type:	Neighbourhood Centre (PPS6 Local Centre)	Survey Date:	18/07/2012
Sub-Location Type:	Commercial Zone	Survey Day:	Wednesday
PTAL:	n/a	Parking Spaces:	1
Site(4):	CF-01-O-02	Gross floor area:	350 sqm
Development Name:	CO-OPERATIVE	Retail floor area:	300 sqm
Location:	CARDIFF		
Postcode:	CF14 6HF	Number of Employees:	14
Main Location Type:	Neighbourhood Centre (PPS6 Local Centre)	Survey Date:	07/10/2016
Sub-Location Type:	Residential Zone	Survey Day:	Friday
PTAL:	n/a	Parking Spaces:	
Site(5):	DH-01-O-01	Gross floor area:	469 sqm
Development Name:	SAINSBURY'S LOCAL	Retail floor area:	380 sqm
Location:	HARTLEPOOL		
Postcode:	TS25 1DW	Number of Employees:	17
Main Location Type:	Suburban Area (PPS6 Out of Centre)	Survey Date:	26/11/2012
Sub-Location Type:	Residential Zone	Survey Day:	Monday
PTAL:	n/a	Parking Spaces:	21
Site(6):	DV-01-O-01	Gross floor area:	70 sqm
Development Name:	PREMIER	Retail floor area:	55 sqm
Location:	PLYMOUTH		

Postcode:	PL2 3RG	Number of Employees:	4
Suburban Area			
Main Location Type:	(PPS6 Out of Centre)	Survey Date:	18/07/2012
Sub-Location Type:	Residential Zone	Survey Day:	Wednesday
PTAL:	n/a	Parking Spaces:	0
Site(7):	EB-01-O-01	Gross floor area:	350 sqm
Development Name:	SAINSBURY'S LOCAL	Retail floor area:	210 sqm
Location:	EDINBURGH		
Postcode:	EH3 9BN	Number of Employees:	12
Main Location Type:	Town Centre	Survey Date:	28/05/2015
Sub-Location Type:	Built-Up Zone	Survey Day:	Thursday
PTAL:	n/a	Parking Spaces:	
Site(8):	EB-01-O-02	Gross floor area:	1500 sqm
Development Name:	SAINSBURY'S LOCAL	Retail floor area:	875 sqm
Location:	EDINBURGH		
Postcode:	EH2 2AF	Number of Employees:	70
Main Location Type:	Town Centre	Survey Date:	17/03/2016
Sub-Location Type:	Built-Up Zone	Survey Day:	Thursday
PTAL:	n/a	Parking Spaces:	
Site(9):	ES-01-O-01	Gross floor area:	280 sqm
Development Name:	ONE STOP	Retail floor area:	sqm
Location:	HASTINGS		
Postcode:	TN34 3FD	Number of Employees:	13
Suburban Area			
Main Location Type:	(PPS6 Out of Centre)	Survey Date:	19/12/2012
Sub-Location Type:	Residential Zone	Survey Day:	Wednesday
PTAL:	n/a	Parking Spaces:	6
Site(10):	GC-01-O-01	Gross floor area:	1450 sqm
Development Name:	SAINSBURY'S CENTRAL	Retail floor area:	1225 sqm
Location:	GLASGOW		
Postcode:	G1 2GF	Number of Employees:	92
Main Location Type:	Town Centre	Survey Date:	25/06/2014
Sub-Location Type:	Built-Up Zone	Survey Day:	Wednesday
PTAL:	n/a	Parking Spaces:	
Site(11):	NF-01-O-01	Gross floor area:	298 sqm
Development Name:	TESCO EXPRESS	Retail floor area:	sqm
Location:	NORWICH		
Postcode:	NR2 3TA	Number of Employees:	14
Suburban Area			
Main Location Type:	(PPS6 Out of Centre)	Survey Date:	26/10/2012
Sub-Location Type:	Residential Zone	Survey Day:	Friday
PTAL:	n/a	Parking Spaces:	10
Site(12):	NY-01-O-02	Gross floor area:	220 sqm
Development Name:	SAINSBURY'S LOCAL	Retail floor area:	200 sqm
Location:	HARROGATE		
Postcode:	HG2 0NJ	Number of Employees:	14
Main Location Type:	Edge of Town Centre	Survey Date:	10/12/2012
Sub-Location Type:	Residential Zone	Survey Day:	Monday
PTAL:	n/a	Parking Spaces:	8
Site(13):	NY-01-O-03	Gross floor area:	305 sqm
Development Name:	CO-OPERATIVE	Retail floor area:	155 sqm
Location:	NORTHALLERTON		
Postcode:	DL6 1JZ	Number of Employees:	14
Suburban Area			
Main Location Type:	(PPS6 Out of Centre)	Survey Date:	19/09/2016

Sub-Location Type:	Residential Zone	Survey Day:	Monday
PTAL:	n/a	Parking Spaces:	
Site(14):	SY-01-O-01	Gross floor area:	219 sqm
Development Name:	SAINSBURY'S LOCAL	Retail floor area:	195 sqm
Location:	SHEFFIELD		
Postcode:	S1 4GE	Number of Employees:	16
Main Location Type:	Town Centre	Survey Date:	12/12/2012
Sub-Location Type:	Built-Up Zone	Survey Day:	Wednesday
PTAL:	n/a	Parking Spaces:	3
Site(15):	SY-01-O-02	Gross floor area:	306 sqm
Development Name:	SAINSBURY'S LOCAL	Retail floor area:	271 sqm
Location:	SHEFFIELD		
Postcode:	S11 8PR	Number of Employees:	14
Main Location Type:	Neighbourhood Centre (PPS6 Local Centre)	Survey Date:	14/12/2012
Sub-Location Type:	High Street	Survey Day:	Friday
PTAL:	n/a	Parking Spaces:	
Site(16):	TW-01-O-02	Gross floor area:	330 sqm
Development Name:	CO-OPERATIVE	Retail floor area:	255 sqm
Location:	SUNDERLAND		
Postcode:	SR5 3BQ	Number of Employees:	19
Main Location Type:	Suburban Area (PPS6 Out of Centre)	Survey Date:	07/04/2017
Sub-Location Type:	Residential Zone	Survey Day:	Friday
PTAL:	n/a	Parking Spaces:	12
Site(17):	WL-01-O-01	Gross floor area:	292 sqm
Development Name:	ONE STOP	Retail floor area:	250 sqm
Location:	SWINDON		
Postcode:	SN2 1QR	Number of Employees:	10
Main Location Type:	Suburban Area (PPS6 Out of Centre)	Survey Date:	23/09/2016
Sub-Location Type:	Residential Zone	Survey Day:	Friday
PTAL:	n/a	Parking Spaces:	17
Site(18):	WY-01-O-01	Gross floor area:	400 sqm
Development Name:	SAINSBURY'S LOCAL	Retail floor area:	375 sqm
Location:	BRADFORD		
Postcode:	BD9 4JR	Number of Employees:	17
Main Location Type:	Edge of Town	Survey Date:	06/12/2012
Sub-Location Type:	Residential Zone	Survey Day:	Thursday
PTAL:	n/a	Parking Spaces:	31
Site(19):	WY-01-O-02	Gross floor area:	539 sqm
Development Name:	CO-OPERATIVE	Retail floor area:	480 sqm
Location:	WETHERBY		
Postcode:	LS22 7QS	Number of Employees:	14
Main Location Type:	Neighbourhood Centre (PPS6 Local Centre)	Survey Date:	26/09/2016
Sub-Location Type:	Residential Zone	Survey Day:	Monday
PTAL:	n/a	Parking Spaces:	

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 Rates for Key Periods		Trips per 100 sqm GFA		
Period	Inbound	Outbound	Total	
0800-0900		21.093	19.905	40.998
1700-1800		29.215	29.398	58.613

TRIP RATE for Land Use 01 - RETAIL/O - CONVENIENCE STORE
 Calculation Factor: 100 sqm
 Count Type: TOTAL PEOPLE

Time Range	No. Days	Ave. GFA	ARRIVALS			DEPARTURES			TOTALS Trip Rate
			Trip Rate	No. Days	Ave. GFA	Trip Rate	No. Days	Ave. GFA	
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		7	317	6.45	7	317	5.683	7	317 12.133
07:00-08:00		19	487	13.176	19	487	11.913	19	487 25.089
08:00-09:00		19	487	21.093	19	487	19.905	19	487 40.998
09:00-10:00		19	487	14.937	19	487	14.073	19	487 29.01
10:00-11:00		19	487	15.434	19	487	14.883	19	487 30.317
11:00-12:00		19	487	19.732	19	487	18.674	19	487 38.406
12:00-13:00		19	487	32.876	19	487	31.72	19	487 64.596
13:00-14:00		19	487	29.204	19	487	30.457	19	487 59.661
14:00-15:00		19	487	21.914	19	487	22.367	19	487 44.281
15:00-16:00		19	487	25.014	19	487	24.592	19	487 49.606
16:00-17:00		19	487	23.501	19	487	23.296	19	487 46.797
17:00-18:00		19	487	29.215	19	487	29.398	19	487 58.613
18:00-19:00		19	487	26.029	19	487	27.033	19	487 53.062
19:00-20:00		19	487	21.082	19	487	22.108	19	487 43.19
20:00-21:00		17	523	13.499	17	523	14.252	17	523 27.751
21:00-22:00		17	523	9.689	17	523	10.891	17	523 20.58
22:00-23:00		2	422	1.659	2	422	2.607	2	422 4.266
23:00-24:00									
Daily Trip Rates:				324.504			323.852		648.356

TRICS 7.5.4

Trip Rate Parameter: Gross floor area

Filtering Summary

Land Use 01/K RETAIL/RETAIL PARK - EXCLUDING FOOD

Selected Trip Rate Calculation 1968-22300 sqm
Parameter Range GFA

Actual Trip Rate Calculation 8687-22300 sqm
Parameter Range GFA

Date Range Minimum: 01/01/10 Maximum: 17/03/18

Parking Spaces Range Selected: 113 to 1063 Actual: 113 to 1063

Days of the week selected Thursday 2

Main Location Types selected Suburban Area (PPS6) 1
Out of Centre 1
Edge of Town 1

Population <1 Mile ranges selected 10 001 to 15 0 1
25 001 to 50 0 1

Population <5 Mile ranges selected 25 001 to 50 0 1
500 001 or More 1

Car Ownership <5 Mile ranges selected 0.6 to 1.0 1
1.1 to 1.5 1

PTAL Rating No PTAL Present 2

TRIP RATE CALCULATION SELECTION PARAMETERS:

Land Use 01 - RETAIL
K - RETAIL PARK - EXCLUDING FOOD

Category MULTI-MODAL
TOTAL PEOPLE

Selected regions and areas:

3 SOUTH WEST
GS GLOUCESTERSHIRE 1 days
8 NORTH WEST
GM GREATER MANCHESTER 1 days

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

Secondary Filtering selection:

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

Parameter: Gross floor area
8687 to 22300
Actual Range: (units: sqm)
Range Selected by User: 1968 to 22300
(units: sqm)

Public Transport Provision:
Selection by: Include all surveys

Date Range: 01/01/10 to 17/03/18

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:
Thursday 2 days

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

Selected survey types:
Manual count 2 days
Directional ATC Count 0 days
the total adding up

This data displays the number of manual classified surveys and the number of unclassified ATC surveys 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:

Town Centre	0
Edge of Town Centre Suburban Area (PPS6 Out of Centre)	0
Edge of Town Neighbourhood Centre (PPS6 Local Centre)	1
Free Standing (PPS6 Out of Town)	1
Not Known	0
	0

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:

Industrial Zone	0
Commercial Zone	0
Development Zone	0
Residential Zone	1
Retail Zone	0
Built-Up Zone	0
Village	0
Out of Town	0
High Street	0
No Sub Category	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 of Town	High Street	No Sub Category
-----------------	-----------------	------------------	------------------	-------------	---------------	---------	-------------	-------------	-----------------

Secondary Filtering

selection:

Use Class:

A1	2 days
----	--------

This data displays the

number of surveys

per Use Class

classification within

the selected set. The

Use Classes Order which can be found

2005 has been used within the Library

for this purpose module of TRICS®.

Population within 1

mile:

10,001 to 15,000	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:

25,001 to 50,000	1 days
------------------	--------

500,001 or More	1 days
-----------------	--------

This data displays the

number of selected

surveys within stated

5-mile radii of

population.

Car ownership within

5 miles:

0.6 to 1.0	1 days
------------	--------

1.1 to 1.5	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.

Petrol filling station:
Included in the survey count 0 days

Excluded from count or no filling station 2 days

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

Travel Plan:
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 2 days

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

LIST OF SITES relevant to selection parameters

Site(1):	GM-01-K-16	Gross floor area:	22300 sqm
Development Name:	RETAIL PARK	Retail floor area:	18000 sqm
Location:	OLDHAM	Parking spaces:	1063
		Number of	
Postcode:	OL2 5HX	Employees:	440
Main Location Type:	Edge of Town	Survey Date:	09/11/2017
Sub-Location Type:	Residential Zone	Survey Day:	Thursday
PTAL:	n/a		
Site(2):	GS-01-K-02	Gross floor area:	8687 sqm
Development Name:	RETAIL PARK	Retail floor area:	6447 sqm
Location:	GLOUCESTER	Parking spaces:	370
		Number of	
Postcode:	GL4 3BY	Employees:	121
	Suburban Area (PPS6)		
Main Location Type:	Out of Centre)	Survey Date:	28/11/2013
Sub-Location Type:	No Sub Category	Survey Day:	Thursday
PTAL:	n/a		

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 Rates for Key Periods Period	Inbound	Trips per 100 sqm GFA		Total
		Outbound		
0800-0900		1.133	0.794	1.927
1700-1800		2.269	2.488	4.757

TRIP RATE for Land Use 01 - RETAIL/K - RETAIL PARK - EXCLUDING FOOD
Calculation Factor: 100 sqm
Count Type: TOTAL PEOPLE

Time Range	No. Days	Ave. GFA	ARRIVALS			DEPARTU RES			TOTALS Trip Rate	
			Trip Rate	No. Days	Ave. GFA	Trip Rate	No. Days	Ave. GFA		
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		2	15494	0.494	2	15494	0.403	2	15494	0.897
08:00-09:00		2	15494	1.133	2	15494	0.794	2	15494	1.927
09:00-10:00		2	15494	1.981	2	15494	1.575	2	15494	3.556
10:00-11:00		2	15494	2.253	2	15494	1.914	2	15494	4.167
11:00-12:00		2	15494	2.866	2	15494	2.543	2	15494	5.409
12:00-13:00		2	15494	2.995	2	15494	2.698	2	15494	5.693
13:00-14:00		2	15494	2.959	2	15494	3.011	2	15494	5.97
14:00-15:00		2	15494	2.278	2	15494	2.482	2	15494	4.76
15:00-16:00		2	15494	2.52	2	15494	2.695	2	15494	5.215
16:00-17:00		2	15494	2.814	2	15494	2.824	2	15494	5.638
17:00-18:00		2	15494	2.269	2	15494	2.488	2	15494	4.757
18:00-19:00		2	15494	2.72	2	15494	2.375	2	15494	5.095
19:00-20:00		2	15494	2.036	2	15494	2.085	2	15494	4.121
20:00-21:00		2	15494	0.852	2	15494	1.449	2	15494	2.301
21:00-22:00		1	8687	0	1	8687	0	1	8687	0
22:00-23:00										
23:00-24:00										
Daily Trip Rates:				30.17			29.336			59.506

TRICS 7.5.4

Trip Rate Parameter: Gross floor area

Filtering Summary

Land Use 02/F EMPLOYMENT/WAREHOUSING (COMMERCIAL)

Selected Trip Rate Cal 2950-80066 sqm GFA

Actual Trip Rate Calcu 2950-32300 sqm GFA

Date Range Minimum: 01/01/10 Maximum: 10/06/14

Parking Spaces Range Selected: 48 to 832 Actual: 48 to 832

Days of the week sele Monday 1
Tuesday 1

Main Location Types sEdge of Town 2

Population <1 Mile ra 5 001 to 10 0 1
10 001 to 15 0 1

Population <5 Mile ra 5 001 to 25 0 1
25 001 to 50 0 1

Car Ownership <5 Mil 1.1 to 1.5 2

PTAL Rating No PTAL Present 2

TRIP RATE CALCULATION SELECTION PARAMETERS:

Land Use 02 - EMPLOYMENT
Category F - WAREHOUSING (COMMERCIAL)
MULTI-MODAL TOTAL PEOPLE

Selected regions and areas:

5 EAST MIDLANDS
LN LINCOLNSHIRE 1 days
9 NORTH
CB CUMBRIA 1 days

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

Secondary Filtering selection:

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

Parameter: Gross floor area
Actual Range: 2950 to 32300 (units: sqm)
Range Selected by Us: 2950 to 80066 (units: sqm)

Public Transport Provision:

Selection by: Include all surveys

Date Range: 01/01/10 to 10/06/14

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 1 days

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

Selected survey types:

Manual count 2 days
Directional ATC Count 0 days

This data displays the the total adding up to whilst ATC surveys are undertaking using machines.

Selected Locations:

Town Centre 0
Edge of Town Centre 0
Suburban Area (PPS6) 0
Edge of Town 2

Neighbourhood Centr 0
 Free Standing (PPS6 C 0
 Not Known 0
 This data displays the Edge of Town Suburban Area Neighbourhood C Edge of Tc Town Centre and Not Known.

Selected Location Sub Categories:

Industrial Zone 1
 Commercial Zone 0
 Development Zone 0
 Residential Zone 0
 Retail Zone 0
 Built-Up Zone 0
 Village 0
 Out of Town 0
 High Street 0
 No Sub Category 1
 This data displays the Industrial Zone Development Zone Residential Zone Retail Zon Built-Up Z Village Out of Tov High Street and No Su

Secondary Filtering selection:

Use Class:

B8 2 days
 This data displays the which can be found within the Library module of TRICS®.

Population within 1 mile:

5,001 to 10,000 1 days
 10,001 to 15,000 1 days
 This data displays the number of selected surveys within stated 1-mile radii of population.

Population within 5 miles:

5,001 to 25,000 1 days
 25,001 to 50,000 1 days
 This data displays the number of selected surveys within stated 5-mile radii of population.

Car ownership within 5 miles:

1.1 to 1.5 2 days
 This data displays the within a radius of 5-miles of selected survey sites.

Travel Plan:

No 2 days
 This data displays the and the number of surveys that were undertaken at sites without Travel Plans.

PTAL Rating:

No PTAL Present 2 days
 This data displays the number of selected surveys with PTAL Ratings.

LIST OF SITES relevant to selection parameters

Site(1): CB-02-F-01 Gross floor area: 2950 sqm
 Development Name: DOMINO'S PIZZA
 Location: PENRITH Parking spaces: 48
 Postcode: CA11 9BN Number of Employee: 70
 Main Location Type: Edge of Town Survey Date: 10/06/2014
 Sub-Location Type: Industrial Zone Survey Day: Tuesday
 PTAL: n/a
 Site(2): LN-02-F-01 Gross floor area: 32300 sqm
 Development Name: BOOK SERVICE
 Location: GRANTHAM Parking spaces: 83
 Postcode: NG31 7XQ Number of Employee: 131
 Main Location Type: Edge of Town Survey Date: 29/11/2010
 Sub-Location Type: No Sub Category Survey Day: Monday
 PTAL: n/a

This section provides ; it displays a unique si the selected trip rate the day of the we and whether the survey was a manual classified count or an ATC c

Trip Rates for Key Periods	Trips per 100 sqm GFA			
	Inbound	Outbound	Total	
0800-0900	0.097	0.023	0.12	
1700-1800	0.012	0.048	0.06	

TRIP RATE for Land Use 02 - EMPLOYMENT/F - WAREHOUSING (COMMERCIAL)

Calculation Factor: 100 sqm

Count Type: TOTAL PEOPLE

Time Range	ARRIVALS			DEPARTURES			TOTALS			
	No. Days	Ave. GFA	Trip Rate	No. Days	Ave. GFA	Trip Rate	No. Days	Ave. GFA	Trip Rate	
00:00-00:30										
00:30-01:00										
01:00-01:30										
01:30-02:00										
02:00-02:30										
02:30-03:00										
03:00-03:30										
03:30-04:00										
04:00-04:30										
04:30-05:00										
05:00-05:30		1	2950	0	1	2950	0	1	2950	0
05:30-06:00		1	2950	0.203	1	2950	0	1	2950	0.203
06:00-06:30		1	2950	0.034	1	2950	0	1	2950	0.034
06:30-07:00		1	2950	0.271	1	2950	0.034	1	2950	0.305
07:00-07:30		2	17625	0.014	2	17625	0	2	17625	0.014
07:30-08:00		2	17625	0.057	2	17625	0.014	2	17625	0.071
08:00-08:30		2	17625	0.043	2	17625	0.017	2	17625	0.06
08:30-09:00		2	17625	0.054	2	17625	0.006	2	17625	0.06
09:00-09:30		2	17625	0.028	2	17625	0.017	2	17625	0.045
09:30-10:00		2	17625	0.077	2	17625	0.02	2	17625	0.097
10:00-10:30		2	17625	0.026	2	17625	0.028	2	17625	0.054
10:30-11:00		2	17625	0.006	2	17625	0.011	2	17625	0.017
11:00-11:30		2	17625	0.014	2	17625	0.026	2	17625	0.04
11:30-12:00		2	17625	0.006	2	17625	0.011	2	17625	0.017
12:00-12:30		2	17625	0.023	2	17625	0.023	2	17625	0.046
12:30-13:00		2	17625	0.02	2	17625	0.011	2	17625	0.031
13:00-13:30		2	17625	0.051	2	17625	0.017	2	17625	0.068
13:30-14:00		2	17625	0.074	2	17625	0.023	2	17625	0.097
14:00-14:30		2	17625	0.003	2	17625	0.099	2	17625	0.102
14:30-15:00		2	17625	0.011	2	17625	0.017	2	17625	0.028
15:00-15:30		2	17625	0.017	2	17625	0.017	2	17625	0.034
15:30-16:00		2	17625	0.003	2	17625	0.034	2	17625	0.037
16:00-16:30		2	17625	0.009	2	17625	0.037	2	17625	0.046
16:30-17:00		2	17625	0.009	2	17625	0.071	2	17625	0.08
17:00-17:30		2	17625	0.006	2	17625	0.034	2	17625	0.04
17:30-18:00		2	17625	0.006	2	17625	0.014	2	17625	0.02
18:00-18:30		2	17625	0.017	2	17625	0.077	2	17625	0.094
18:30-19:00		2	17625	0.011	2	17625	0.009	2	17625	0.02
19:00-19:30		1	2950	0.203	1	2950	0.102	1	2950	0.305
19:30-20:00		1	2950	0.034	1	2950	0.102	1	2950	0.136
20:00-20:30		1	2950	0.034	1	2950	0.034	1	2950	0.068
20:30-21:00		1	2950	0.068	1	2950	0.102	1	2950	0.17
21:00-21:30										
21:30-22:00										
22:00-22:30										
22:30-23:00										
23:00-23:30										
23:30-24:00										
Daily Trip Rates:				1.432			1.007			2.439

TRICS 7.5.4

Trip Rate Parameter: Number of dwellings

Filtering Summary

Land Use 03/C RESIDENTIAL/FLATS
PRIVATELY OWNED

Selected Trip Rate
Calculation

Parameter Range 6-154 DWELLS

Actual Trip Rate
Calculation

Parameter Range 6-154 DWELLS

Date Range Minimum: 01/01/10 Maximum: 05/06/18

Parking Spaces
Range

Selected: 10 to 140 Actual: 10 to 140

Percentage of
dwellings privately
owned:

All Surveys Included

Days of the week
selected

Monday	3
Tuesday	8
Wednesday	7
Thursday	5
Friday	3

Main Location Types
selected

Town Centre	3
Edge of Town Centre	9
Suburban Area (PPS6 Out of Centre)	11
Edge of Town Neighbourhood Centre (PPS6 Local Centre)	2
	1

Population <1 Mile
ranges selected

1 001 to 5	0	5
10 001 to 15	0	8
15 001 to 20	0	2
20 001 to 25	0	2
25 001 to 50	0	9

Population <5 Mile
ranges selected

5 001 to 25	0	1
25 001 to 50	0	1
50 001 to 75	0	8
75 001 to 100	0	3
100 001 to 125	0	1
125 001 to 250	0	5
250 001 to 500	0	5
500 001 or More	2	

Car Ownership <5

Mile ranges selected 0.6 to 1.0 10
1.1 to 1.5 16

PTAL Rating No PTAL Present 26

TRIP RATE
CALCULATION
SELECTION
PARAMETERS:

Land Use 03 - RESIDENTIAL
 C - FLATS PRIVATELY
Category OWNED
MULTI-MODAL
TOTAL PEOPLE

Selected regions and
areas:

2 SOUTH EAST		
EX	ESSEX	2 days
HC	HAMPSHIRE	2 days
OX	OXFORDSHIRE	1 days
3 SOUTH WEST		
DC	DORSET	1 days
4 EAST ANGLIA		
CA	CAMBRIDGESHIRE	2 days
NF	NORFOLK	1 days
SF	SUFFOLK	2 days
5 EAST MIDLANDS		
NT	NOTTINGHAMSHIRE	2 days
YORKSHIRE & NORTH		
7 LINCOLNSHIRE		
RI	EAST RIDING OF YORKSHIRE	1 days
8 NORTH WEST		
GM	GREATER MANCHESTER	2 days
9 NORTH		
CB	CUMBRIA	3 days
TV	TEES VALLEY	1 days
10 WALES		
CO	CONWY	1 days
DB	DENBIGHSHIRE	1 days
11 SCOTLAND		
EB	CITY OF EDINBURGH	1 days
SA	SOUTH Ayrshire	1 days
SR	STIRLING	2 days

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

Secondary Filtering
selection:

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

Parameter: Number of dwellings
Actual Range: 6 to 154 (units:)
Range Selected by
User: 6 to 154 (units:)

Public Transport
Provision:

Selection by: Include all surveys

Date Range: 01/01/10 to 05/06/18

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	3 days
Tuesday	8 days
Wednesday	7 days
Thursday	5 days
Friday	3 days

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

Selected survey types:

Manual count	26 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:

Town Centre	3
Edge of Town Centre	9
Suburban Area (PPS6 Out of Centre)	11
Edge of Town Neighbourhood Centre (PPS6 Local Centre)	2
Free Standing (PPS6 Out of Town)	1
Not Known	0
	0

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.
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Selected Location

Sub Categories:

Industrial Zone	0
Commercial Zone	0
Development Zone	0
Residential Zone	13
Retail Zone	0
Built-Up Zone	7

Village 0
 Out of Town 0
 High Street 0
 No Sub Category 6

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 Su
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Secondary Filtering selection:

Use Class:
 C3 26 days

This data displays the number of surveys per Use Class classification within the selected set. The

Use Classes Order which can be found 2005 has been used within the Library for this purpose module of TRICS®.

Population within 1 mile:

1,001 to 5,000	5 days
10,001 to 15,000	8 days
15,001 to 20,000	2 days
20,001 to 25,000	2 days
25,001 to 50,000	9 days

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

Population within 5 miles:

5,001 to 25,000	1 days
25,001 to 50,000	1 days
50,001 to 75,000	8 days
75,001 to 100,000	3 days
100,001 to 125,000	1 days
125,001 to 250,000	5 days
250,001 to 500,000	5 days
500,001 or More	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	10 days
1.1 to 1.5	16 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 25 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 26 days
 This data displays the number of selected surveys with PTAL Ratings.

LIST OF SITES relevant to selection parameters

Site(1):	CA-03-C-02	Site area:	0.51 hect
Development Name:	BLOCK OF FLATS	Number of dwellings:	44
Location:	PETERBOROUGH	Housing density:	116
Postcode:	PE3 9TN	Total Bedrooms:	88
	Suburban Area (PPS6)		
Main Location Type:	Out of Centre)	Survey Date:	18/10/2011
Sub-Location Type:	No Sub Category	Survey Day:	Tuesday
PTAL:	n/a	Parking Spaces:	44
Site(2):	CA-03-C-03	Site area:	1.20 hect
Development Name:	BLOCKS OF FLATS	Number of dwellings:	82
Location:	CAMBRIDGE	Housing density:	137
Postcode:	CB1 3UR	Total Bedrooms:	152
	Suburban Area (PPS6)		
Main Location Type:	Out of Centre)	Survey Date:	18/09/2017
Sub-Location Type:	No Sub Category	Survey Day:	Monday
PTAL:	n/a	Parking Spaces:	93
Site(3):	CB-03-C-01	Site area:	0.21 hect
Development Name:	BLOCK OF FLATS	Number of dwellings:	40
Location:	CARLISLE	Housing density:	667
Postcode:	CA1 1SR	Total Bedrooms:	80
Main Location Type:	Town Centre	Survey Date:	12/06/2014
Sub-Location Type:	Built-Up Zone	Survey Day:	Thursday
PTAL:	n/a	Parking Spaces:	43
Site(4):	CB-03-C-02	Site area:	0.56 hect
Development Name:	BLOCK OF FLATS	Number of dwellings:	35
Location:	PENRITH	Housing density:	109
Postcode:	CA11 8RH	Total Bedrooms:	70
Main Location Type:	Edge of Town	Survey Date:	11/06/2014
Sub-Location Type:	No Sub Category	Survey Day:	Wednesday
PTAL:	n/a	Parking Spaces:	38
Site(5):	CB-03-C-03	Site area:	0.45 hect
	FLATS &		
Development Name:	BUNGALOWS	Number of dwellings:	33
Location:	KENDAL	Housing density:	220
Postcode:	LA9 7FE	Total Bedrooms:	33
	Suburban Area (PPS6)		
Main Location Type:	Out of Centre)	Survey Date:	09/06/2014
Sub-Location Type:	Residential Zone	Survey Day:	Monday
PTAL:	n/a	Parking Spaces:	17
Site(6):	CO-03-C-01	Site area:	0.45 hect
Development Name:	BLOCKS OF FLATS	Number of dwellings:	37

Location:	LLANDUDNO	Housing density:	247
Postcode:	LL30 1YG	Total Bedrooms:	77
Main Location Type:	Edge of Town Centre	Survey Date:	26/03/2018
Sub-Location Type:	Built-Up Zone	Survey Day:	Monday
PTAL:	n/a	Parking Spaces:	48
Site(7):	DB-03-C-01	Site area:	0.21 hect
Development Name:	FLATS IN HOUSES	Number of dwellings:	16
Location:	RHUDDLAN	Housing density:	200
Postcode:	LL18 2TQ	Total Bedrooms:	32
	Neighbourhood Centre (PPS6 Local Centre)		
Main Location Type:	Centre	Survey Date:	07/10/2011
Sub-Location Type:	Residential Zone	Survey Day:	Friday
PTAL:	n/a	Parking Spaces:	20
Site(8):	DC-03-C-02	Site area:	0.14 hect
Development Name:	FLATS IN BLOCKS	Number of dwellings:	14
Location:	WEYMOUTH	Housing density:	467
Postcode:	DT3 5DA	Total Bedrooms:	28
	Suburban Area (PPS6 Out of Centre)		
Main Location Type:	Out of Centre	Survey Date:	28/03/2014
Sub-Location Type:	Residential Zone	Survey Day:	Friday
PTAL:	n/a	Parking Spaces:	20
Site(9):	EB-03-C-01	Site area:	0.52 hect
Development Name:	BLOCKS OF FLATS	Number of dwellings:	32
Location:	EDINBURGH	Housing density:	82
Postcode:	EH10 5LX	Total Bedrooms:	64
	Suburban Area (PPS6 Out of Centre)		
Main Location Type:	Out of Centre	Survey Date:	26/05/2015
Sub-Location Type:	Residential Zone	Survey Day:	Tuesday
PTAL:	n/a	Parking Spaces:	50
Site(10):	EX-03-C-01	Site area:	0.07 hect
Development Name:	FLATS	Number of dwellings:	6
Location:	SOUTHEND-ON-SEA	Housing density:	200
Postcode:	SS0 7QE	Total Bedrooms:	10
Main Location Type:	Edge of Town Centre	Survey Date:	22/10/2013
Sub-Location Type:	Residential Zone	Survey Day:	Tuesday
PTAL:	n/a	Parking Spaces:	10
Site(11):	EX-03-C-02	Site area:	0.37 hect
Development Name:	BLOCK OF FLATS	Number of dwellings:	94
Location:	SOUTHEND-ON-SEA	Housing density:	940
Postcode:	SS0 7QQ	Total Bedrooms:	94
Main Location Type:	Edge of Town Centre	Survey Date:	22/10/2013
Sub-Location Type:	Residential Zone	Survey Day:	Tuesday
PTAL:	n/a	Parking Spaces:	95
Site(12):	GM-03-C-02	Site area:	0.37 hect
Development Name:	BLOCK OF FLATS	Number of dwellings:	154
Location:	MANCHESTER	Housing density:	670
Postcode:	M1 5BD	Total Bedrooms:	280
Main Location Type:	Town Centre	Survey Date:	13/10/2011
Sub-Location Type:	Built-Up Zone	Survey Day:	Thursday
PTAL:	n/a	Parking Spaces:	100
Site(13):	GM-03-C-03	Site area:	0.05 hect
Development Name:	BLOCK OF FLATS	Number of dwellings:	20
Location:	MANCHESTER	Housing density:	400
Postcode:	M1 3QF	Total Bedrooms:	30
Main Location Type:	Town Centre	Survey Date:	14/10/2011
Sub-Location Type:	Built-Up Zone	Survey Day:	Friday
PTAL:	n/a	Parking Spaces:	14

Site(14):	HC-03-C-01	Site area:	0.54 hect
Development Name:	BLOCKS OF FLATS	Number of dwellings:	90
Location:	PORTSMOUTH	Housing density:	321
Postcode:	PO1 3GG	Total Bedrooms:	189
Main Location Type:	Edge of Town Centre	Survey Date:	05/06/2018
Sub-Location Type:	Built-Up Zone	Survey Day:	Tuesday
PTAL:	n/a	Parking Spaces:	77
Site(15):	HC-03-C-02	Site area:	0.22 hect
Development Name:	FLATS	Number of dwellings:	16
Location:	BASINGSTOKE	Housing density:	229
Postcode:	RG21 8FP	Total Bedrooms:	16
	Suburban Area (PPS6)		
Main Location Type:	Out of Centre)	Survey Date:	21/10/2010
Sub-Location Type:	Residential Zone	Survey Day:	Thursday
PTAL:	n/a	Parking Spaces:	25
Site(16):	NF-03-C-01	Site area:	0.42 hect
Development Name:	BLOCKS OF FLATS	Number of dwellings:	51
Location:	KING'S LYNN	Housing density:	232
Postcode:	PE30 1NQ	Total Bedrooms:	122
Main Location Type:	Edge of Town Centre	Survey Date:	11/12/2014
Sub-Location Type:	Built-Up Zone	Survey Day:	Thursday
PTAL:	n/a	Parking Spaces:	45
Site(17):	NT-03-C-01	Site area:	0.80 hect
	HOUSES (SPLIT INTO		
Development Name:	FLATS)	Number of dwellings:	56
Location:	NOTTINGHAM	Housing density:	70
Postcode:	NG7 1GE	Total Bedrooms:	76
	Suburban Area (PPS6)		
Main Location Type:	Out of Centre)	Survey Date:	08/11/2016
Sub-Location Type:	No Sub Category	Survey Day:	Tuesday
PTAL:	n/a	Parking Spaces:	103
Site(18):	NT-03-C-02	Site area:	1.50 hect
	HOUSES (SPLIT INTO		
Development Name:	FLATS)	Number of dwellings:	135
Location:	NOTTINGHAM	Housing density:	90
Postcode:	NG7 1GW	Total Bedrooms:	219
	Suburban Area (PPS6)		
Main Location Type:	Out of Centre)	Survey Date:	09/11/2016
Sub-Location Type:	No Sub Category	Survey Day:	Wednesday
PTAL:	n/a	Parking Spaces:	98
Site(19):	OX-03-C-01	Site area:	0.13 hect
Development Name:	BLOCK OF FLATS	Number of dwellings:	14
Location:	OXFORD	Housing density:	350
Postcode:	OX4 2ER	Total Bedrooms:	28
	Suburban Area (PPS6)		
Main Location Type:	Out of Centre)	Survey Date:	20/10/2010
Sub-Location Type:	Residential Zone	Survey Day:	Wednesday
PTAL:	n/a	Parking Spaces:	17
Site(20):	RI-03-C-01	Site area:	0.72 hect
Development Name:	FLATS	Number of dwellings:	20
Location:	HULL	Housing density:	167
Postcode:	HU5 5SB	Total Bedrooms:	44
Main Location Type:	Edge of Town	Survey Date:	13/05/2014
Sub-Location Type:	Residential Zone	Survey Day:	Tuesday
PTAL:	n/a	Parking Spaces:	22
Site(21):	SA-03-C-01	Site area:	1.58 hect
Development Name:	BLOCK OF FLATS	Number of dwellings:	51
Location:	AYR	Housing density:	170
Postcode:	KA7 2AT	Total Bedrooms:	119
Main Location Type:	Edge of Town Centre	Survey Date:	16/09/2014

Sub-Location Type:	Residential Zone	Survey Day:	Tuesday	
PTAL:	n/a	Parking Spaces:		89
Site(22):	SF-03-C-01	Site area:	0.60 hect	
Development Name:	BLOCKS OF FLATS	Number of dwellings:		85
Location:	BURY ST EDMUNDS	Housing density:		354
Postcode:	IP32 6AR	Total Bedrooms:		135
Main Location Type:	Edge of Town Centre	Survey Date:	18/12/2014	
Sub-Location Type:	Built-Up Zone	Survey Day:	Thursday	
PTAL:	n/a	Parking Spaces:		102
Site(23):	SF-03-C-03	Site area:	0.60 hect	
Development Name:	BLOCKS OF FLATS	Number of dwellings:		30
Location:	BURY ST EDMUNDS	Housing density:		300
Postcode:	IP32 6BT	Total Bedrooms:		42
	Suburban Area (PPS6)			
Main Location Type:	Out of Centre)	Survey Date:	03/12/2014	
Sub-Location Type:	Residential Zone	Survey Day:	Wednesday	
PTAL:	n/a	Parking Spaces:		40
Site(24):	SR-03-C-01	Site area:	0.65 hect	
Development Name:	FLATS	Number of dwellings:		80
Location:	STIRLING	Housing density:		364
Postcode:	FK8 1NR	Total Bedrooms:		158
Main Location Type:	Edge of Town Centre	Survey Date:	18/06/2014	
Sub-Location Type:	No Sub Category	Survey Day:	Wednesday	
PTAL:	n/a	Parking Spaces:		84
Site(25):	SR-03-C-02	Site area:	0.34 hect	
Development Name:	FLATS	Number of dwellings:		48
Location:	STIRLING	Housing density:		369
Postcode:	FK8 1US	Total Bedrooms:		96
Main Location Type:	Edge of Town Centre	Survey Date:	18/06/2014	
Sub-Location Type:	Residential Zone	Survey Day:	Wednesday	
PTAL:	n/a	Parking Spaces:		57
Site(26):	TV-03-C-02	Site area:	0.85 hect	
Development Name:	FLATS	Number of dwellings:		85
Location:	MIDDLESBROUGH	Housing density:		121
Postcode:	TS5 5DS	Total Bedrooms:		105
	Suburban Area (PPS6)			
Main Location Type:	Out of Centre)	Survey Date:	29/06/2011	
Sub-Location Type:	Residential Zone	Survey Day:	Wednesday	
PTAL:	n/a	Parking Spaces:		105

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 Rates for Key Periods	Trips per 1 dwells DWELLS			
	Inbound	Outbound	Total	
0800-0900	0.12	0.48	0.6	
1700-1800	0.476	0.224	0.7	

TRIP RATE for Land
 Use 03 -
 RESIDENTIAL/C -
 FLATS PRIVATELY
 OWNED
 Calculation Factor:
 1 DWELLS
 Count Type: TOTAL
 PEOPLE

Time Range	No. Days	Ave. DWELLS	ARRIVALS			DEPARTU RES			TOTALS	
			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		26	53	0.086	26	53	0.264	26	53	0.35
08:00-09:00		26	53	0.12	26	53	0.48	26	53	0.6
09:00-10:00		26	53	0.158	26	53	0.272	26	53	0.43
10:00-11:00		26	53	0.162	26	53	0.201	26	53	0.363
11:00-12:00		26	53	0.187	26	53	0.205	26	53	0.392
12:00-13:00		26	53	0.227	26	53	0.214	26	53	0.441
13:00-14:00		26	53	0.18	26	53	0.209	26	53	0.389
14:00-15:00		26	53	0.202	26	53	0.218	26	53	0.42
15:00-16:00		26	53	0.273	26	53	0.182	26	53	0.455
16:00-17:00		26	53	0.308	26	53	0.221	26	53	0.529
17:00-18:00		26	53	0.476	26	53	0.224	26	53	0.7
18:00-19:00		26	53	0.303	26	53	0.179	26	53	0.482
19:00-20:00		2	15	0.3	2	15	0.533	2	15	0.833
20:00-21:00		2	15	0.133	2	15	0.2	2	15	0.333
21:00-22:00		2	15	0.267	2	15	0.1	2	15	0.367
22:00-23:00										
23:00-24:00										
Daily Trip Rates:				3.382			3.702			7.084

TRICS 7.5.4

Trip Rate Parameter: Gross floor area

Filtering Summary

Land Use 01/G RETAIL/OTHER
INDIVIDUAL NON-
FOOD SUPERSTORE

Selected Trip Rate
Calculation

Parameter Range 290-5000 sqm GFA

Actual Trip Rate
Calculation

Parameter Range 714-3127 sqm GFA

Date Range Minimum: 01/01/10 Maximum: 06/11/17

Parking Spaces Range Selected: 10 to 340 Actual: 10 to 340

Days of the week

selected	Monday	3
	Tuesday	1
	Wednesday	1
	Friday	1

Main Location Types

selected	Town Centre	1
	Edge of Town Centre	2
	Suburban Area (PPS6 Out of Centre)	1
	Edge of Town	2

Population <1 Mile

ranges selected	10 001 to 15	0	1
	15 001 to 20	0	1
	20 001 to 25	0	2
	25 001 to 50	0	1
	50 001 to 100	0	1

Population <5 Mile

ranges selected	50 001 to 75	0	2
	125 001 to 250	0	3
	250 001 to 500	0	1

Car Ownership <5

Mile ranges selected	0.5 or Less	1
	0.6 to 1.0	4
	1.1 to 1.5	1

PTAL Rating No PTAL Present 6

TRIP RATE
CALCULATION
SELECTION
PARAMETERS:

Land Use 01 - RETAIL
G - OTHER
INDIVIDUAL NON-
FOOD SUPERSTORE

Category
MULTI-MODAL
VEHICLES

Selected regions and
areas:

5 EAST MIDLANDS		
LN	LINCOLNSHIRE	1 days
6 WEST MIDLANDS		
HE	HEREFORDSHIRE	1 days
YORKSHIRE & NORTH		
7 LINCOLNSHIRE		
SY	SOUTH YORKSHIRE	1 days
8 NORTH WEST		
CH	CHESHIRE	1 days
9 NORTH		
CB	CUMBRIA	1 days
11 SCOTLAND		
EB	CITY OF EDINBURGH	1 days

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

Secondary Filtering selection:

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

Parameter: Gross floor area
714 to 3127 (units: sqm)
Actual Range: sqm
Range Selected by User: 290 to 5000 (units: sqm)

Public Transport Provision:
Selection by: Include all surveys

Date Range: 01/01/10 to 06/11/17

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 3 days
Tuesday 1 days
Wednesday 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

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

Selected Locations:

Town Centre	1
Edge of Town Centre	2
Suburban Area (PPS6 Out of Centre)	1
Edge of Town Neighbourhood Centre (PPS6 Local Centre)	2
Free Standing (PPS6 Out of Town)	0
Not Known	0

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.
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Selected Location
 Sub Categories:

Industrial Zone	0
Commercial Zone	0
Development Zone	0
Residential Zone	0
Retail Zone	3
Built-Up Zone	2
Village	0
Out of Town	0
High Street	0
No Sub Category	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 of Tov	High Street and No Su
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Secondary Filtering
 selection:

Use Class:

A1	4 days
Sui Generis	2 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:

10,001 to 15,000 1 days
15,001 to 20,000 1 days
20,001 to 25,000 2 days
25,001 to 50,000 1 days
50,001 to 100,000 1 days

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

Population within 5 miles:

50,001 to 75,000 2 days
125,001 to 250,000 3 days
250,001 to 500,000 1 days

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

Car ownership within 5 miles:

0.5 or Less 1 days
0.6 to 1.0 4 days
1.1 to 1.5 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.

Petrol filling station:

Included in the survey count 0 days

Excluded from count or no filling station 6 days

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

Travel Plan:

No 6 days

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

PTAL Rating:

No PTAL Present 6 days

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

LIST OF SITES

relevant to selection parameters

Site(1): CB-01-G-02 Gross floor area: 2500 sqm

Development Name: STAPLES Retail floor area: 2000 sqm
 Location: CARLISLE Parking spaces: 50
 Number of
 Postcode: CA2 5AF Employees: 26

Main Location Type: Edge of Town Centre Survey Date: 05/02/2010
 Sub-Location Type: Built-Up Zone Survey Day: Friday
 PTAL: n/a
 Site(2): CH-01-G-02 Gross floor area: 1000 sqm

Development Name: MAGNET Retail floor area: 900 sqm
 Location: MACCLESFIELD Parking spaces: 11
 Number of
 Postcode: SK10 1AE Employees: 5

Main Location Type: Town Centre Survey Date: 06/11/2017
 Sub-Location Type: Built-Up Zone Survey Day: Monday
 PTAL: n/a
 Site(3): EB-01-G-01 Gross floor area: 932 sqm

Development Name: PETS AT HOME Retail floor area: 772 sqm
 Location: EDINBURGH Parking spaces: 38
 Number of
 Postcode: EH12 7UF Employees: 13

Main Location Type: Edge of Town Survey Date: 27/10/2010
 Sub-Location Type: Retail Zone Survey Day: Wednesday
 PTAL: n/a
 Site(4): HE-01-G-01 Gross floor area: 714 sqm

Development Name: PETS AT HOME Retail floor area: 504 sqm
 Location: HEREFORD Parking spaces: 128
 Number of
 Postcode: HR1 2BQ Employees: 13

Main Location Type: Out of Centre (PPS6) Survey Date: 17/10/2011
 Sub-Location Type: No Sub Category Survey Day: Monday
 PTAL: n/a
 Site(5): LN-01-G-01 Gross floor area: 1600 sqm

Development Name: PETS AT HOME Retail floor area: 1200 sqm
 Location: LINCOLN Parking spaces: 72
 Number of
 Postcode: LN6 7AN Employees: 16

Main Location Type: Edge of Town Centre Survey Date: 31/10/2017
 Sub-Location Type: Retail Zone Survey Day: Tuesday
 PTAL: n/a
 Site(6): SY-01-G-01 Gross floor area: 3127 sqm

Development Name: DUNELM MILL Retail floor area: 1900 sqm
 Location: BARNSELY Parking spaces: 286
 Number of
 Postcode: S70 3NS Employees: 50

Main Location Type: Edge of Town Survey Date: 21/06/2010
 Sub-Location Type: Retail Zone Survey Day: Monday
 PTAL: n/a

This section provides a list of all survey sites and days in the selected set. For each individual survey site 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 Rates for Key Periods Trips per 100 sqm GFA

Period	Inbound	Outbound	Total	
0800-0900		0.344	0.213	0.557
1700-1800		1.418	1.621	3.039

TRIP RATE for Land
 Use 01 - RETAIL/G -
 OTHER INDIVIDUAL
 NON-FOOD
 SUPERSTORE
 Calculation Factor:
 100 sqm
 Count Type:
 VEHICLES

Time Range	No. Days	Ave. GFA	ARRIVALS		DEPARTU RES		TOTALS			
			Trip Rate	No. Days	Ave. GFA	Trip Rate	No. Days	Ave. GFA	Trip Rate	
00:00-01:00										
01:00-02:00										
02:00-03:00										
03:00-04:00										
04:00-05:00										
05:00-06:00										
06:00-07:00										
07:00-08:00		3	1405	0.142	3	1405	0.047	3	1405	0.189
08:00-09:00		6	1646	0.344	6	1646	0.213	6	1646	0.557
09:00-10:00		6	1646	1.61	6	1646	1.165	6	1646	2.775
10:00-11:00		6	1646	1.742	6	1646	1.408	6	1646	3.15
11:00-12:00		6	1646	1.833	6	1646	1.661	6	1646	3.494
12:00-13:00		6	1646	1.833	6	1646	1.671	6	1646	3.504
13:00-14:00		6	1646	1.752	6	1646	1.894	6	1646	3.646
14:00-15:00		6	1646	1.742	6	1646	1.489	6	1646	3.231
15:00-16:00		6	1646	1.631	6	1646	1.732	6	1646	3.363
16:00-17:00		6	1646	1.671	6	1646	1.58	6	1646	3.251
17:00-18:00		6	1646	1.418	6	1646	1.621	6	1646	3.039
18:00-19:00		5	1775	0.924	5	1775	1.307	5	1775	2.231
19:00-20:00		5	1775	0.541	5	1775	0.924	5	1775	1.465
20:00-21:00		5	1775	0	5	1775	0.192	5	1775	0.192
21:00-22:00										
22:00-23:00										
23:00-24:00										
Daily Trip Rates:				17.183			16.904			34.087

TRIP RATE for Land
 Use 01 - RETAIL/G -
 OTHER INDIVIDUAL
 NON-FOOD
 SUPERSTORE
 Calculation Factor:
 100 sqm
 Count Type: TOTAL
 PEOPLE

Time Range	No. Days	Ave. GFA	ARRIVALS		DEPARTU RES		TOTALS			
			Trip Rate	No. Days	Ave. GFA	Trip Rate	No. Days	Ave. GFA	Trip Rate	
00:00-01:00										
01:00-02:00										
02:00-03:00										
03:00-04:00										
04:00-05:00										
05:00-06:00										
06:00-07:00										
07:00-08:00		3	1405	0.332	3	1405	0.142	3	1405	0.474
08:00-09:00		6	1646	0.496	6	1646	0.324	6	1646	0.82
09:00-10:00		6	1646	2.532	6	1646	1.702	6	1646	4.234
10:00-11:00		6	1646	2.968	6	1646	2.33	6	1646	5.298

11:00-12:00	6	1646	3.191	6	1646	3.332	6	1646	6.523
12:00-13:00	6	1646	2.816	6	1646	2.664	6	1646	5.48
13:00-14:00	6	1646	2.826	6	1646	3.059	6	1646	5.885
14:00-15:00	6	1646	3.008	6	1646	2.532	6	1646	5.54
15:00-16:00	6	1646	2.542	6	1646	3.018	6	1646	5.56
16:00-17:00	6	1646	2.806	6	1646	2.694	6	1646	5.5
17:00-18:00	6	1646	2.33	6	1646	2.694	6	1646	5.024
18:00-19:00	5	1775	1.443	5	1775	2.051	5	1775	3.494
19:00-20:00	5	1775	0.879	5	1775	1.657	5	1775	2.536
20:00-21:00	5	1775	0.056	5	1775	0.237	5	1775	0.293
21:00-22:00									
22:00-23:00									
23:00-24:00									
Daily Trip Rates:			28.225			28.436			56.661

Parameter summary

Trip rate parameter range selected: 714 - 3127 (units: sqm)
 Survey date range: 01/01/10 - 06/11/17

Number of weekdays (Monday-Friday): 6
 Number of Saturdays: 0
 Number of Sundays: 0
 Surveys automatically removed from selection: 0
 Surveys manually removed from selection: 0

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

TRICS 7.5.4

Trip Rate Parameter: Gross floor area

Filtering Summary

Land Use	06/A	HOTEL	FOOD & DRINK/HOTELS
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Selected Trip Rate
Calculation

Parameter Range 720-9850 sqm GFA

Actual Trip Rate
Calculation

Parameter Range 720-9850 sqm GFA

Date Range Minimum: 01/01/10 Maximum: 26/09/16

Parking Spaces
Range

Selected: 0 to 185 Actual: 0 to 185

Days of the week
selected

Monday	5
Tuesday	3
Wednesday	3
Thursday	5
Friday	2

Main Location Types
selected

Town Centre	9
Edge of Town Centre	2
Suburban Area (PPS6 Out of Centre)	2
Edge of Town	4
Free Standing (PPS6 Out of Town)	1

Population <1 Mile
ranges selected

1 000 or Less	1	
5 001 to 10	0	4
10 001 to 15	0	1
15 001 to 20	0	2
20 001 to 25	0	2
25 001 to 50	0	7
100 001 or More	1	

Population <5 Mile
ranges selected

25 001 to 50	0	3
50 001 to 75	0	1
75 001 to 100	0	2
100 001 to 125	0	1
125 001 to 250	0	2
250 001 to 500	0	5
500 001 or More	4	

Car Ownership <5

Mile ranges selected	0.6 to 1.0	7
	1.1 to 1.5	11

PTAL Rating No PTAL Present 18

TRIP RATE
CALCULATION
SELECTION
PARAMETERS:

Land Use	06 - HOTEL	FOOD & DRINK
Category	A - HOTELS	

MULTI-MODAL
TOTAL PEOPLE

Selected regions and
areas:

2 SOUTH EAST		
BU	BUCKINGHAMSHIRE	1 days
3 SOUTH WEST		
DV	DEVON	1 days
GS	GLOUCESTERSHIRE	1 days
WL	WILTSHIRE	1 days
4 EAST ANGLIA		
NF	NORFOLK	1 days
5 EAST MIDLANDS		
DS	DERBYSHIRE	1 days
NT	NOTTINGHAMSHIRE	1 days
YORKSHIRE & NORTH		
7 LINCOLNSHIRE		
WY	WEST YORKSHIRE	1 days
8 NORTH WEST		
	GREATER	
GM	MANCHESTER	1 days
9 NORTH		
CB	CUMBRIA	1 days
TV	TEES VALLEY	1 days
TW	TYNE & WEAR	1 days
10 WALES		
CF	CARDIFF	2 days
NW	NEWPORT	1 days
WR	WREXHAM	1 days
11 SCOTLAND		
AG	ANGUS	1 days
HI	HIGHLAND	1 days

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

Secondary Filtering
selection:

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

Parameter: Gross floor area
720 to 9850 (units:
Actual Range: sqm)
Range Selected by User: 720 to 9850 (units:
sqm)

Public Transport

Provision:
Selection by: Include all surveys

Date Range: 01/01/10 to
26/09/16

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 5 days
 Tuesday 3 days
 Wednesday 3 days
 Thursday 5 days
 Friday 2 days

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

Selected survey types:

Manual count 18 days
 Directional ATC Count 0 days

the total adding up

This data displays the number of manual classified surveys and the number of unclassified ATC surveys 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:

Town Centre 9
 Edge of Town Centre 2
 Suburban Area (PPS6 Out of Centre) 2
 Edge of Town Neighbourhood Centre (PPS6 Local Centre) 4
 Free Standing (PPS6 Out of Town) 0
 Not Known 1
 0

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:

Industrial Zone 1
 Commercial Zone 2
 Development Zone 0
 Residential Zone 4
 Retail Zone 0
 Built-Up Zone 5
 Village 0
 Out of Town 2
 High Street 3
 No Sub Category 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 of Town High Street and No Su

Secondary Filtering selection:

Use Class:

A3 1 days
C1 16 days

This data displays the number of surveys per Use Class classification within the selected set. The

Use Classes Order which can be found
2005 has been used within the Library
for this purpose module of TRICS®.

Population within 1 mile:

1,000 or Less 1 days
5,001 to 10,000 4 days
10,001 to 15,000 1 days
15,001 to 20,000 2 days
20,001 to 25,000 2 days
25,001 to 50,000 7 days
100,001 or More 1 days

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

Population within 5 miles:

25,001 to 50,000 3 days
50,001 to 75,000 1 days
75,001 to 100,000 2 days
100,001 to 125,000 1 days
125,001 to 250,000 2 days
250,001 to 500,000 5 days
500,001 or More 4 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 7 days
1.1 to 1.5 11 days

This data displays the number of selected surveys within stated

ranges of average within a radius of 5-
cars owned per miles of selected
residential dwelling survey sites.

Travel Plan:

No 18 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 18 days
This data displays the number of selected surveys with PTAL Ratings.

LIST OF SITES relevant to selection parameters

Site(1):	AG-06-A-01	Gross floor area:	720 sqm
Development Name:	BOUTIQUE B&B	Number of bedrooms:	4
Location:	ARBROATH		
Postcode:	DD11 5BS	Number of Employees:	4
Main Location Type:	Edge of Town	Survey Date:	22/05/2012
Sub-Location Type:	Residential Zone	Survey Day:	Tuesday
PTAL:	n/a	Parking Spaces:	8
Site(2):	BU-06-A-02	Gross floor area:	4675 sqm
Development Name:	HOLIDAY INN	Number of bedrooms:	139
Location:	AYLESBURY		
Postcode:	HP22 5QT	Number of Employees:	70
Main Location Type:	Edge of Town	Survey Date:	01/10/2014
Sub-Location Type:	Out of Town	Survey Day:	Wednesday
PTAL:	n/a	Parking Spaces:	179
Site(3):	CB-06-A-01	Gross floor area:	2450 sqm
Development Name:	HOTEL	Number of bedrooms:	92
Location:	CARLISLE		
Postcode:	CA3 8HZ	Number of Employees:	54
Main Location Type:	Town Centre	Survey Date:	20/06/2016
Sub-Location Type:	High Street	Survey Day:	Monday
PTAL:	n/a	Parking Spaces:	31
Site(4):	CF-06-A-03	Gross floor area:	2725 sqm
Development Name:	HOLIDAY INN	Number of bedrooms:	87
Location:	EXPRESS CARDIFF		
Postcode:	CF10 4EE	Number of Employees:	16
Main Location Type:	Edge of Town Centre	Survey Date:	16/07/2012
Sub-Location Type:	Residential Zone	Survey Day:	Monday
PTAL:	n/a	Parking Spaces:	54
Site(5):	CF-06-A-04	Gross floor area:	3500 sqm
Development Name:	TRAVELODGE	Number of bedrooms:	96
Location:	CARDIFF		
Postcode:	CF10 3FA	Number of Employees:	14
Main Location Type:	Town Centre	Survey Date:	16/07/2012
Sub-Location Type:	Built-Up Zone	Survey Day:	Monday
PTAL:	n/a	Parking Spaces:	0
Site(6):	DS-06-A-02	Gross floor area:	1200 sqm
Development Name:	JURY'S INN	Number of bedrooms:	213
Location:	DERBY		

Postcode:	DE1 3DB	Number of Employees:	40
Main Location Type:	Town Centre	Survey Date:	19/07/2011
Sub-Location Type:	Commercial Zone	Survey Day:	Tuesday
PTAL:	n/a	Parking Spaces:	38
Site(7):	DV-06-A-03	Gross floor area:	9850 sqm
Development Name:	FUTURE INN	Number of bedrooms:	110
Location:	PLYMOUTH		
Postcode:	PL6 5ZD	Number of Employees:	70
Main Location Type:	Edge of Town	Survey Date:	18/07/2012
Sub-Location Type:	Industrial Zone	Survey Day:	Wednesday
PTAL:	n/a	Parking Spaces:	185
Site(8):	GM-06-A-08	Gross floor area:	3600 sqm
Development Name:	IBIS	Number of bedrooms:	127
Location:	MANCHESTER		
Postcode:	M1 4GX	Number of Employees:	
Main Location Type:	Town Centre	Survey Date:	26/09/2016
Sub-Location Type:	Built-Up Zone	Survey Day:	Monday
PTAL:	n/a	Parking Spaces:	
Site(9):	GS-06-A-02	Gross floor area:	2393 sqm
Development Name:	PREMIER INN	Number of bedrooms:	67
Location:	CHELTENHAM SPA		
Postcode:	GL51 7AY	Number of Employees:	25
Main Location Type:	Suburban Area (PPS6)	Survey Date:	28/11/2013
Sub-Location Type:	Out of Centre)	Survey Day:	Thursday
PTAL:	Residential Zone	Parking Spaces:	63
Site(10):	n/a	Gross floor area:	5460 sqm
Development Name:	HI-06-A-04	Number of bedrooms:	84
Location:	HOTEL		
Postcode:	INVERNESS		
Postcode:	IV1 1LG	Number of Employees:	43
Main Location Type:	Town Centre	Survey Date:	13/05/2011
Sub-Location Type:	High Street	Survey Day:	Friday
PTAL:	n/a	Parking Spaces:	9
Site(11):	NF-06-A-02	Gross floor area:	5600 sqm
Development Name:	HOLIDAY INN	Number of bedrooms:	119
Location:	NORWICH		
Postcode:	NR4 6EP	Number of Employees:	55
Main Location Type:	Edge of Town	Survey Date:	30/09/2010
Sub-Location Type:	No Sub Category	Survey Day:	Thursday
PTAL:	n/a	Parking Spaces:	161
Site(12):	NT-06-A-02	Gross floor area:	6000 sqm
Development Name:	PREMIER INN	Number of bedrooms:	87
Location:	NOTTINGHAM		
Postcode:	NG2 4UU	Number of Employees:	39
Main Location Type:	Edge of Town Centre	Survey Date:	24/06/2013
Sub-Location Type:	Built-Up Zone	Survey Day:	Monday
PTAL:	n/a	Parking Spaces:	70
Site(13):	NW-06-A-01	Gross floor area:	3750 sqm
Development Name:	TRAVELODGE	Number of bedrooms:	62
Location:	NEWPORT		
Postcode:	NP20 4AP	Number of Employees:	10
Main Location Type:	Town Centre	Survey Date:	14/10/2010
Sub-Location Type:	High Street	Survey Day:	Thursday
PTAL:	n/a	Parking Spaces:	12

Site(14):	TV-06-A-04	Gross floor area:	9850 sqm
Development Name:	THISTLE	Number of bedrooms:	132
Location:	MIDDLESBROUGH		
Postcode:	TS1 1JH	Number of Employees:	76
Main Location Type:	Town Centre	Survey Date:	03/10/2013
Sub-Location Type:	Commercial Zone	Survey Day:	Thursday
PTAL:	n/a	Parking Spaces:	64
Site(15):	TW-06-A-03	Gross floor area:	1450 sqm
Development Name:	HOTEL	Number of bedrooms:	24
Location:	NEWCASTLE UPON TYNE		
Postcode:	NE1 3JF	Number of Employees:	19
Main Location Type:	Town Centre	Survey Date:	14/06/2016
Sub-Location Type:	Built-Up Zone	Survey Day:	Tuesday
PTAL:	n/a	Parking Spaces:	19
Site(16):	WL-06-A-02	Gross floor area:	2227 sqm
Development Name:	HOLIDAY INN EXPRESS	Number of bedrooms:	134
Location:	SWINDON		
Postcode:	SN1 1BT	Number of Employees:	30
Main Location Type:	Town Centre	Survey Date:	27/11/2013
Sub-Location Type:	Built-Up Zone	Survey Day:	Wednesday
PTAL:	n/a	Parking Spaces:	2
Site(17):	WR-06-A-02	Gross floor area:	2700 sqm
Development Name:	HOTEL	Number of bedrooms:	37
Location:	NEAR WREXHAM		
Postcode:	LL13 9SW	Number of Employees:	35
Main Location Type:	Free Standing (PPS6)	Survey Date:	06/10/2011
Sub-Location Type:	Out of Town	Survey Day:	Thursday
PTAL:	n/a	Parking Spaces:	100
Site(18):	WY-06-A-02	Gross floor area:	1080 sqm
Development Name:	HOTEL	Number of bedrooms:	24
Location:	LEEDS		
Postcode:	LS6 2ET	Number of Employees:	9
Main Location Type:	Suburban Area (PPS6)	Survey Date:	11/06/2010
Sub-Location Type:	Out of Centre	Survey Day:	Friday
PTAL:	Residential Zone	Parking Spaces:	12
	n/a		

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 Rates for Key Periods	Inbound	Trips per 100 sqm GFA		
		Outbound	Total	
0800-0900	0.381	0.911	1.292	
1700-1800	0.779	0.454	1.233	

TRIP RATE for Land Use 06 - HOTEL FOOD & DRINK/A - HOTELS

Calculation Factor:
 100 sqm
 Count Type: TOTAL
 PEOPLE

Time Range	No. Days	Ave. GFA	ARRIVALS		DEPARTU RES			Ave. GFA	TOTALS Trip Rate	
			Trip Rate	No. Days	Ave. GFA	Trip Rate	No. Days			
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		18	3846	0.25	18	3846	0.441	18	3846	0.691
08:00-09:00		18	3846	0.381	18	3846	0.911	18	3846	1.292
09:00-10:00		18	3846	0.536	18	3846	0.641	18	3846	1.177
10:00-11:00		18	3846	0.363	18	3846	0.524	18	3846	0.887
11:00-12:00		18	3846	0.358	18	3846	0.472	18	3846	0.83
12:00-13:00		18	3846	0.438	18	3846	0.397	18	3846	0.835
13:00-14:00		18	3846	0.506	18	3846	0.482	18	3846	0.988
14:00-15:00		18	3846	0.417	18	3846	0.454	18	3846	0.871
15:00-16:00		18	3846	0.455	18	3846	0.497	18	3846	0.952
16:00-17:00		18	3846	0.617	18	3846	0.406	18	3846	1.023
17:00-18:00		18	3846	0.779	18	3846	0.454	18	3846	1.233
18:00-19:00		18	3846	0.82	18	3846	0.52	18	3846	1.34
19:00-20:00		18	3846	0.527	18	3846	0.51	18	3846	1.037
20:00-21:00		18	3846	0.446	18	3846	0.352	18	3846	0.798
21:00-22:00		18	3846	0.368	18	3846	0.221	18	3846	0.589
22:00-23:00										
23:00-24:00										
Daily Trip Rates:				7.261			7.282			14.543

TRICS 7.5.4

Trip Rate Parameter: Gross floor area

Filtering Summary

Land Use	06/C	HOTEL	FOOD & DRINK/PUB/RES TAURANT
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Selected Trip Rate
Calculation

Parameter Range 175-2384 sqm GFA

Actual Trip Rate
Calculation

Parameter Range 200-830 sqm GFA

Date Range Minimum: 01/01/10 Maximum: 10/11/17

Parking Spaces

Range Selected: 0 to 115 Actual: 0 to 115

Days of the week

selected	Tuesday	3
	Wednesday	2
	Thursday	2
	Friday	7

Main Location Types

selected	Town Centre	5
	Edge of Town Centre	2
	Edge of Town Neighbourhood Centre (PPS6 Local Centre)	6
		1

Population <1 Mile
ranges selected

1 001 to 5	0	2
5 001 to 10	0	3
10 001 to 15	0	3
15 001 to 20	0	1
20 001 to 25	0	1
25 001 to 50	0	3
50 001 to 100	0	1

Population <5 Mile
ranges selected

5 001 to 25	0	2
25 001 to 50	0	2
75 001 to 100	0	1
100 001 to 125	0	1
125 001 to 250	0	6
250 001 to 500	0	2

Car Ownership <5

Mile ranges selected	0.5 or Less	1
	0.6 to 1.0	5
	1.1 to 1.5	8

PTAL Rating No PTAL Present 14

TRIP RATE
CALCULATION
SELECTION
PARAMETERS:

Land Use	06 - HOTEL	FOOD & DRINK
Category	C - PUB/RESTAURANT	

MULTI-MODAL
TOTAL PEOPLE

Selected regions and
areas:

2 SOUTH EAST		
ES	EAST SUSSEX	1 days
EX	ESSEX	1 days
3 SOUTH WEST		
BR	BRISTOL CITY	1 days
5 EAST MIDLANDS		
LN	LINCOLNSHIRE	1 days
	NORTHAMPTONSHIRE	
NR	E	1 days
6 WEST MIDLANDS		
ST	STAFFORDSHIRE	1 days
WM	WEST MIDLANDS	1 days
WO	WORCESTERSHIRE	1 days
8 NORTH WEST		
CH	CHESHIRE	1 days
LC	LANCASHIRE	2 days
9 NORTH		
DH	DURHAM	1 days
10 WALES		
SW	SWANSEA	1 days
11 SCOTLAND		
AG	ANGUS	1 days

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

Secondary Filtering
selection:

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

Parameter: Gross floor area
200 to 830 (units:
sqm)
Actual Range:
Range Selected by 175 to 2384 (units:
User: sqm)

Public Transport

Provision:
Selection by: Include all surveys

Date Range: 01/01/10 to
10/11/17

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:

Tuesday 3 days
Wednesday 2 days

Thursday 2 days
 Friday 7 days

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

Selected survey types:

Manual count 14 days

Directional ATC

Count 0 days

the total adding up

This data displays the number of manual classified surveys and the number of unclassified ATC surveys

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:

Town Centre	5
Edge of Town Centre	2
Suburban Area (PPS6 Out of Centre)	0
Edge of Town Neighbourhood Centre (PPS6 Local Centre)	6
Free Standing (PPS6 Out of Town)	1
Not Known	0

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.
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Selected Location Sub Categories:

Industrial Zone	0
Commercial Zone	1
Development Zone	1
Residential Zone	2
Retail Zone	2
Built-Up Zone	2
Village	0
Out of Town	1
High Street	2
No Sub Category	3

This data displays the number of surveys per location sub-category within the selected set. The location sub-

Commercial Zone	Industrial Zone	Development Zone	Residential Zone	Retail Zone	Built-Up Zone	Village	Out of Town	High Street	and No Su
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Secondary Filtering selection:

Use Class:

A3	1 days
A4	12 days

C1 1 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 2 days
5,001 to 10,000 3 days
10,001 to 15,000 3 days
15,001 to 20,000 1 days
20,001 to 25,000 1 days
25,001 to 50,000 3 days
50,001 to 100,000 1 days

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

Population within 5 miles:
5,001 to 25,000 2 days
25,001 to 50,000 2 days
75,001 to 100,000 1 days
100,001 to 125,000 1 days
125,001 to 250,000 6 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:
0.5 or Less 1 days
0.6 to 1.0 5 days
1.1 to 1.5 8 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:
No 14 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 14 days

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

LIST OF SITES

relevant to selection parameters

Site(1):	AG-06-C-01	Gross floor area:	672 sqm
Development Name:	PUB/RESTAURANT		
Location:	ARBROATH	Parking spaces:	12
		Number of	
Postcode:	DD11 1HT	Employees:	30
Main Location Type:	Town Centre	Survey Date:	25/05/2012
Sub-Location Type:	Built-Up Zone	Survey Day:	Friday
PTAL:	n/a		
Site(2):	BR-06-C-01	Gross floor area:	327 sqm
Development Name:	WETHERSPOON		
Location:	BRISTOL	Parking spaces:	0
		Number of	
Postcode:	BS1 5UH	Employees:	70
Main Location Type:	Town Centre	Survey Date:	29/11/2013
Sub-Location Type:	Development Zone	Survey Day:	Friday
PTAL:	n/a		
Site(3):	CH-06-C-02	Gross floor area:	471 sqm
Development Name:	PUB/RESTAURANT		
Location:	MACCLESFIELD	Parking spaces:	
		Number of	
Postcode:	SK11 8JG	Employees:	8
Main Location Type:	Edge of Town Centre	Survey Date:	10/11/2017
Sub-Location Type:	No Sub Category	Survey Day:	Friday
PTAL:	n/a		
Site(4):	DH-06-C-02	Gross floor area:	450 sqm
Development Name:	PUB/RESTAURANT		
Location:	BISHOP AUCKLAND	Parking spaces:	43
		Number of	
Postcode:	DL14 9AE	Employees:	10
Main Location Type:	Edge of Town	Survey Date:	31/03/2017
Sub-Location Type:	Retail Zone	Survey Day:	Friday
PTAL:	n/a		
Site(5):	ES-06-C-02	Gross floor area:	460 sqm
Development Name:	PUB/RESTAURANT		
Location:	BRIGHTON	Parking spaces:	4
		Number of	
Postcode:	BN3 2DH	Employees:	9
	Neighbourhood		
	Centre (PPS6 Local		
Main Location Type:	Centre)	Survey Date:	22/09/2017
Sub-Location Type:	Residential Zone	Survey Day:	Friday
PTAL:	n/a		
Site(6):	EX-06-C-02	Gross floor area:	450 sqm
Development Name:	HARVESTER		
Location:	COLCHESTER	Parking spaces:	70
		Number of	
Postcode:	CO3 8NZ	Employees:	16
Main Location Type:	Edge of Town	Survey Date:	08/11/2013
Sub-Location Type:	No Sub Category	Survey Day:	Friday
PTAL:	n/a		
Site(7):	LC-06-C-01	Gross floor area:	830 sqm
Development Name:	FAYRE & SQUARE		
Location:	BURNLEY	Parking spaces:	
		Number of	
Postcode:	BB11 2EG	Employees:	32
Main Location Type:	Edge of Town Centre	Survey Date:	29/09/2016

Sub-Location Type:	No Sub Category	Survey Day:	Thursday
PTAL:	n/a		
Site(8):	LC-06-C-04	Gross floor area:	600 sqm
Development Name: PUB/RESTAURANT			
Location:	BURNLEY	Parking spaces:	10
		Number of	
Postcode:	BB11 1NJ	Employees:	8
Main Location Type:	Town Centre	Survey Date:	29/09/2016
Sub-Location Type:	Built-Up Zone	Survey Day:	Thursday
PTAL:	n/a		
Site(9):	LN-06-C-01	Gross floor area:	760 sqm
Development Name: FLAMING GRILL			
Location:	LINCOLN	Parking spaces:	60
		Number of	
Postcode:	LN6 7AS	Employees:	22
Main Location Type:	Edge of Town	Survey Date:	10/10/2017
Sub-Location Type:	Retail Zone	Survey Day:	Tuesday
PTAL:	n/a		
Site(10):	NR-06-C-01	Gross floor area:	620 sqm
Development Name: PUB/RESTAURANT			
Location:	NORTHAMPTON	Parking spaces:	46
		Number of	
Postcode:	NN4 7AA	Employees:	
Main Location Type:	Edge of Town	Survey Date:	11/11/2016
Sub-Location Type:	Commercial Zone	Survey Day:	Friday
PTAL:	n/a		
Site(11):	ST-06-C-01	Gross floor area:	720 sqm
Development Name: HARVESTER			
Location:	STOKE-ON-TRENT	Parking spaces:	43
		Number of	
Postcode:	ST4 8AA	Employees:	25
Main Location Type:	Edge of Town	Survey Date:	23/10/2013
Sub-Location Type:	Residential Zone	Survey Day:	Wednesday
PTAL:	n/a		
Site(12):	SW-06-C-01	Gross floor area:	800 sqm
Development Name: PITCHER & PIANO			
Location:	SWANSEA	Parking spaces:	
		Number of	
Postcode:	SA1 1EG	Employees:	24
Main Location Type:	Town Centre	Survey Date:	22/10/2013
Sub-Location Type:	High Street	Survey Day:	Tuesday
PTAL:	n/a		
Site(13):	WM-06-C-02	Gross floor area:	200 sqm
Development Name: PUB/RESTAURANT			
Location:	WOLVERHAMPTON	Parking spaces:	14
		Number of	
Postcode:	WV4 5JN	Employees:	13
Main Location Type:	Edge of Town	Survey Date:	22/11/2016
Sub-Location Type:	Out of Town	Survey Day:	Tuesday
PTAL:	n/a		
Site(14):	WO-06-C-03	Gross floor area:	250 sqm
Development Name: PUB/RESTAURANT			
Location:	WORCESTER	Parking spaces:	
		Number of	
Postcode:	WR1 1JL	Employees:	11
Main Location Type:	Town Centre	Survey Date:	23/11/2016
Sub-Location Type:	High Street	Survey Day:	Wednesday
PTAL:	n/a		

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 Rates for Key Periods	Inbound	Trips per 100 sqm GFA		Total
		Outbound		
0800-0900		0		0
1700-1800		6.294	3.482	9.776

TRIP RATE for Land Use 06 - HOTEL
 FOOD & DRINK/C - PUB/RESTAURANT
 Calculation Factor: 100 sqm
 Count Type: TOTAL PEOPLE

Time Range	No. Days	Ave. GFA	ARRIVALS			DEPARTURES			TOTALS Trip Rate
			Trip Rate	No. Days	Ave. GFA	Trip Rate	No. Days	Ave. GFA	
00:00-01:00									
01:00-02:00									
02:00-03:00									
03:00-04:00									
04:00-05:00									
05:00-06:00									
06:00-07:00									
07:00-08:00		1	600	0	1	600	0	1	600 0
08:00-09:00		1	600	0	1	600	0	1	600 0
09:00-10:00		1	600	0	1	600	0	1	600 0
10:00-11:00		13	524	1.233	13	524	1.043	13	524 2.276
11:00-12:00		13	524	3.186	13	524	1.175	13	524 4.361
12:00-13:00		14	544	7.043	14	544	2.484	14	544 9.527
13:00-14:00		14	544	6.15	14	544	5.782	14	544 11.932
14:00-15:00		14	544	3.666	14	544	5.861	14	544 9.527
15:00-16:00		14	544	4.731	14	544	4.586	14	544 9.317
16:00-17:00		14	544	5.887	14	544	4.534	14	544 10.421
17:00-18:00		14	544	6.294	14	544	3.482	14	544 9.776
18:00-19:00		14	544	7.937	14	544	6.728	14	544 14.665
19:00-20:00		14	544	11.012	14	544	9.369	14	544 20.381
20:00-21:00		14	544	8.423	14	544	8.397	14	544 16.82
21:00-22:00		14	544	7.424	14	544	8.489	14	544 15.913
22:00-23:00		14	544	3.39	14	544	8.41	14	544 11.8
23:00-24:00		12	516	4.62	12	516	5.606	12	516 10.226
Daily Trip Rates:				80.996			75.946		156.942

TRICS 7.5.4

Trip Rate Parameter: Gross floor area

Filtering Summary

Land Use 01/A RETAIL/FOOD
 SUPERSTORE

Selected Trip Rate

Calculation

Parameter Range 800-12642 sqm GFA

Actual Trip Rate

Calculation

Parameter Range 1700-11101 sqm GFA

Date Range Minimum: 01/01/10 Maximum: 23/03/18

Parking Spaces

Range Selected: 0 to 833 Actual: 0 to 833

Days of the week

selected	Tuesday	1
	Wednesday	1
	Thursday	1
	Friday	15

Main Location Types

selected	Town Centre	3
	Edge of Town Centre	3
	Suburban Area (PPS6)	4
	Out of Centre)	4
	Edge of Town	8

Population <1 Mile

ranges selected	1 001 to 5	0	1
	5 001 to 10	0	5
	10 001 to 15	0	4
	20 001 to 25	0	5
	25 001 to 50	0	1
	50 001 to 100	0	2

Population <5 Mile

ranges selected	50 001 to 75	0	3
	75 001 to 100	0	4
	100 001 to 125	0	2
	125 001 to 250	0	6
	250 001 to 500	0	3

Car Ownership <5

Mile ranges selected	0.6 to 1.0	8
	1.1 to 1.5	9
	1.6 to 2.0	1

PTAL Rating No PTAL Present 18

TRIP RATE
 CALCULATION
 SELECTION
 PARAMETERS:

Land Use 01 - RETAIL
 A - FOOD
 Category SUPERSTORE
 MULTI-MODAL
 TOTAL PEOPLE

Selected regions and areas:

2 SOUTH EAST		
SC	SURREY	2 days
	WINDSOR &	
WN	MAIDENHEAD	1 days
3 SOUTH WEST		
GS	GLOUCESTERSHIRE	1 days
SM	SOMERSET	1 days
4 EAST ANGLIA		
CA	CAMBRIDGESHIRE	1 days
SF	SUFFOLK	1 days
5 EAST MIDLANDS		
LE	LEICESTERSHIRE	1 days
	NORTHAMPTONSHIR	
NR	E	1 days
NT	NOTTINGHAMSHIRE	1 days
6 WEST MIDLANDS		
WK	WARWICKSHIRE	2 days
9 NORTH		
CB	CUMBRIA	2 days
10 WALES		
CO	CONWY	1 days
CP	CAERPHILLY	1 days
11 SCOTLAND		
DU	DUNDEE CITY	1 days
	SOUTH	
SL	LANARKSHIRE	1 days

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

Secondary Filtering selection:

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

Parameter: Gross floor area
1700 to 11101 (units: sqm)
Actual Range: sqm
Range Selected by User: 800 to 12642 (units: sqm)

Public Transport

Provision:
Selection by: Include all surveys

Date Range: 01/01/10 to 23/03/18

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:

Tuesday 1 days

Wednesday 1 days
 Thursday 1 days
 Friday 15 days

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

Selected survey types:

Manual count 18 days
 Directional ATC Count 0 days

the total adding up

This data displays the number of manual classified surveys and the number of unclassified ATC surveys 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:

Town Centre 3
 Edge of Town Centre 3
 Suburban Area (PPS6 Out of Centre) 4
 Edge of Town Neighbourhood Centre (PPS6 Local Centre) 0
 Free Standing (PPS6 Out of Town) 0
 Not Known 0

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.
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Selected Location

Sub Categories:

Industrial Zone 0
 Commercial Zone 1
 Development Zone 1
 Residential Zone 7
 Retail Zone 4
 Built-Up Zone 1
 Village 0
 Out of Town 0
 High Street 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	No Sub Category
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Secondary Filtering selection:

Use Class:

A1 18 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	5 days
10,001 to 15,000	4 days
20,001 to 25,000	5 days
25,001 to 50,000	1 days
50,001 to 100,000	2 days

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

Population within 5 miles:

50,001 to 75,000	3 days
75,001 to 100,000	4 days
100,001 to 125,000	2 days
125,001 to 250,000	6 days
250,001 to 500,000	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	8 days
1.1 to 1.5	9 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.

Petrol filling station:

PFS is present at the site and is included in the count	7 days
PFS is present at the site but is excluded from the count	5 days
There is no PFS at the site	6 days

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

Travel Plan:

Yes	3 days
No	15 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 18 days

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

LIST OF SITES relevant to selection parameters

Site(1):	CA-01-A-01	Gross floor area:	2210 sqm
Development Name:	SAINSBURY'S	Retail floor area:	1550 sqm
Location:	CAMBRIDGE	Parking spaces:	0
		Number of	
Postcode:	CB2 3HX	Employees:	131
Main Location Type:	Town Centre	Survey Date:	12/07/2013
Sub-Location Type:	High Street	Survey Day:	Friday
PTAL:	n/a		
Site(2):	CB-01-A-07	Gross floor area:	1700 sqm
Development Name:	SOMERFIELD	Retail floor area:	1500 sqm
Location:	CARLISLE	Parking spaces:	88
		Number of	
Postcode:	CA2 7EP	Employees:	55
	Suburban Area (PPS6)		
Main Location Type:	Out of Centre)	Survey Date:	05/02/2010
Sub-Location Type:	Residential Zone	Survey Day:	Friday
PTAL:	n/a		
Site(3):	CB-01-A-08	Gross floor area:	7200 sqm
Development Name:	SAINSBURY'S	Retail floor area:	5800 sqm
Location:	CARLISLE	Parking spaces:	457
		Number of	
Postcode:	CA2 5SX	Employees:	307
Main Location Type:	Edge of Town Centre	Survey Date:	06/06/2014
Sub-Location Type:	Built-Up Zone	Survey Day:	Friday
PTAL:	n/a		
Site(4):	CO-01-A-01	Gross floor area:	9854 sqm
Development Name:	ASDA	Retail floor area:	7853 sqm
Location:	LLANDUDNO	Parking spaces:	680
		Number of	
Postcode:	LL30 1PJ	Employees:	
Main Location Type:	Edge of Town Centre	Survey Date:	23/03/2018
Sub-Location Type:	Retail Zone	Survey Day:	Friday
PTAL:	n/a		
Site(5):	CP-01-A-01	Gross floor area:	7124 sqm
Development Name:	SAINSBURY'S	Retail floor area:	3725 sqm
Location:	PONTLLANFRAITH	Parking spaces:	267
		Number of	
Postcode:	NP12 2AN	Employees:	139
Main Location Type:	Edge of Town	Survey Date:	07/10/2011
Sub-Location Type:	No Sub Category	Survey Day:	Friday
PTAL:	n/a		
Site(6):	DU-01-A-04	Gross floor area:	9104 sqm
Development Name:	TESCO EXTRA	Retail floor area:	6317 sqm

Location:	DUNDEE	Parking spaces:	626
Postcode:	DD2 1UG	Number of Employees:	410
Main Location Type:	Edge of Town Centre	Survey Date:	29/10/2010
Sub-Location Type:	No Sub Category	Survey Day:	Friday
PTAL:	n/a		
Site(7):	GS-01-A-03	Gross floor area:	7950 sqm
Development Name:	SAINSBURY'S	Retail floor area:	6000 sqm
Location:	GLOUCESTER	Parking spaces:	467
Postcode:	GL4 3RT	Number of Employees:	490
Main Location Type:	Edge of Town	Survey Date:	30/04/2010
Sub-Location Type:	Commercial Zone	Survey Day:	Friday
PTAL:	n/a		
Site(8):	LE-01-A-03	Gross floor area:	5700 sqm
Development Name:	SAINSBURY'S	Retail floor area:	3400 sqm
Location:	LEICESTER	Parking spaces:	286
Postcode:	LE2 4PE	Number of Employees:	250
Main Location Type:	Edge of Town	Survey Date:	07/11/2014
Sub-Location Type:	Residential Zone	Survey Day:	Friday
PTAL:	n/a		
Site(9):	NR-01-A-03	Gross floor area:	7012 sqm
Development Name:	SAINSBURY'S	Retail floor area:	4440 sqm
Location:	NORTHAMPTON	Parking spaces:	543
Postcode:	NN5 5BB	Number of Employees:	401
Main Location Type:	Suburban Area (PPS6)		
Sub-Location Type:	Out of Centre)	Survey Date:	07/10/2011
PTAL:	n/a	Survey Day:	Friday
Site(10):	NT-01-A-05	Gross floor area:	8101 sqm
Development Name:	SAINSBURY'S	Retail floor area:	5255 sqm
Location:	NOTTINGHAM	Parking spaces:	584
Postcode:	NG7 1GX	Number of Employees:	385
Main Location Type:	Suburban Area (PPS6)		
Sub-Location Type:	Out of Centre)	Survey Date:	07/10/2011
PTAL:	n/a	Survey Day:	Friday
Site(11):	SC-01-A-08	Gross floor area:	4746 sqm
Development Name:	SAINSBURY'S	Retail floor area:	2755 sqm
Location:	REDHILL	Parking spaces:	
Postcode:	RH1 1NN	Number of Employees:	185
Main Location Type:	Town Centre	Survey Date:	08/07/2010
Sub-Location Type:	Retail Zone	Survey Day:	Thursday
PTAL:	n/a		
Site(12):	SC-01-A-12	Gross floor area:	8250 sqm
Development Name:	SAINSBURY'S	Retail floor area:	4853 sqm
Location:	WOKING	Parking spaces:	633
Postcode:	GU21 2QT	Number of Employees:	230
Main Location Type:	Edge of Town	Survey Date:	23/11/2012
Sub-Location Type:	Residential Zone	Survey Day:	Friday
PTAL:	n/a		
Site(13):	SF-01-A-02	Gross floor area:	3280 sqm
Development Name:	SAINSBURY'S	Retail floor area:	1640 sqm
Location:	IPSWICH	Parking spaces:	0
Postcode:	IP4 1DR	Number of Employees:	138
Main Location Type:	Town Centre	Survey Date:	19/07/2013

Sub-Location Type:	High Street	Survey Day:	Friday
PTAL:	n/a		
Site(14):	SL-01-A-05	Gross floor area:	11101 sqm
Development Name:	SAINSBURY'S	Retail floor area:	8040 sqm
Location:	EAST KILBRIDE	Parking spaces:	468
		Number of	
Postcode:	G74 4UN	Employees:	301
Main Location Type:	Edge of Town	Survey Date:	07/10/2011
Sub-Location Type:	Retail Zone	Survey Day:	Friday
PTAL:	n/a		
Site(15):	SM-01-A-01	Gross floor area:	10725 sqm
Development Name:	ASDA	Retail floor area:	7550 sqm
Location:	TAUNTON	Parking spaces:	616
		Number of	
Postcode:	TA1 2AN	Employees:	550
	Suburban Area (PPS6)		
Main Location Type:	Out of Centre)	Survey Date:	13/07/2012
Sub-Location Type:	Residential Zone	Survey Day:	Friday
PTAL:	n/a		
Site(16):	WK-01-A-02	Gross floor area:	8018 sqm
Development Name:	ASDA	Retail floor area:	6013 sqm
Location:	LEAMINGTON SPA	Parking spaces:	474
		Number of	
Postcode:	CV31 1YD	Employees:	460
Main Location Type:	Edge of Town	Survey Date:	17/10/2012
Sub-Location Type:	Residential Zone	Survey Day:	Wednesday
PTAL:	n/a		
Site(17):	WK-01-A-03	Gross floor area:	7951 sqm
Development Name:	TESCO	Retail floor area:	5873 sqm
Location:	WARWICK	Parking spaces:	564
		Number of	
Postcode:	CV34 5QJ	Employees:	306
Main Location Type:	Edge of Town	Survey Date:	16/10/2012
Sub-Location Type:	Residential Zone	Survey Day:	Tuesday
PTAL:	n/a		
Site(18):	WN-01-A-01	Gross floor area:	6065 sqm
Development Name:	SAINSBURY'S	Retail floor area:	3704 sqm
Location:	SLOUGH	Parking spaces:	549
		Number of	
Postcode:	SL6 0QH	Employees:	292
Main Location Type:	Edge of Town	Survey Date:	07/10/2011
Sub-Location Type:	Residential Zone	Survey Day:	Friday
PTAL:	n/a		

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 Rates for Key Periods	Inbound	Trips per 100 sqm GFA		
		Outbound	Total	
0800-0900	3.689	2.842	6.531	
1700-1800	7.263	7.637	14.9	

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

Calculation Factor:
 100 sqm
 Count Type: TOTAL
 PEOPLE

Time Range	No. Days	Ave. GFA	ARRIVALS			DEPARTU RES			TOTALS Trip Rate	
			Trip Rate	No. Days	Ave. GFA	Trip Rate	No. Days	Ave. GFA		
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		7	7715	0.448	7	7715	0.12	7	7715	0.568
07:00-08:00		18	7005	1.956	18	7005	1.227	18	7005	3.183
08:00-09:00		18	7005	3.689	18	7005	2.842	18	7005	6.531
09:00-10:00		18	7005	5.249	18	7005	3.982	18	7005	9.231
10:00-11:00		18	7005	6.09	18	7005	5.391	18	7005	11.481
11:00-12:00		18	7005	6.852	18	7005	6.466	18	7005	13.318
12:00-13:00		18	7005	7.43	18	7005	7.232	18	7005	14.662
13:00-14:00		18	7005	6.962	18	7005	7.066	18	7005	14.028
14:00-15:00		18	7005	6.429	18	7005	6.617	18	7005	13.046
15:00-16:00		18	7005	7.015	18	7005	7.008	18	7005	14.023
16:00-17:00		18	7005	7.097	18	7005	7.288	18	7005	14.385
17:00-18:00		18	7005	7.263	18	7005	7.637	18	7005	14.9
18:00-19:00		18	7005	6.403	18	7005	6.988	18	7005	13.391
19:00-20:00		18	7005	4.283	18	7005	5.172	18	7005	9.455
20:00-21:00		17	7224	2.816	17	7224	3.592	17	7224	6.408
21:00-22:00		17	7224	1.52	17	7224	2.193	17	7224	3.713
22:00-23:00		7	7715	0.107	7	7715	0.339	7	7715	0.446
23:00-24:00										
Daily Trip Rates:				81.609			81.16			162.769

TRICS 7.5.4

Trip Rate Parameter: Gross floor area

Filtering Summary

Land Use	06/B	HOTEL	FOOD & DRINK/RESTAUR ANTS
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Selected Trip Rate
Calculation

Parameter Range 75-2400 sqm GFA

Actual Trip Rate
Calculation

Parameter Range 175-1136 sqm GFA

Date Range Minimum: 01/01/10 Maximum: 28/11/17

Parking Spaces

Range Selected: 0 to 400 Actual: 0 to 400

Days of the week

selected	Tuesday	2
	Thursday	2
	Friday	1

Main Location Types

selected	Town Centre	1
	Edge of Town Centre Neighbourhood Centre (PPS6 Local Centre)	2
		2

Population <1 Mile

ranges selected	15 001 to 20	0	1
	25 001 to 50	0	4

Population <5 Mile

ranges selected	25 001 to 50	0	1
	125 001 to 250	0	1
	250 001 to 500	0	3

Car Ownership <5

Mile ranges selected	0.5 or Less	1
	0.6 to 1.0	2
	1.1 to 1.5	2

PTAL Rating No PTAL Present

5

TRIP RATE
CALCULATION
SELECTION
PARAMETERS:

Land Use	06 - HOTEL	FOOD & DRINK
Category	B - RESTAURANTS	
MULTI-MODAL		
TOTAL PEOPLE		

Selected regions and
areas:

3 SOUTH WEST		
DC	DORSET	1 days
5 EAST MIDLANDS		
LN	LINCOLNSHIRE	1 days
6 WEST MIDLANDS		
WM	WEST MIDLANDS	3 days

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

Secondary Filtering selection:

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

Parameter: Gross floor area
175 to 1136 (units: sqm)
Actual Range: sqm
Range Selected by User: 75 to 2400 (units: sqm)

Public Transport Provision:
Selection by: Include all surveys

Date Range: 01/01/10 to 28/11/17

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:
Tuesday 2 days
Thursday 2 days
Friday 1 days

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

Selected survey types:
Manual count 5 days
Directional ATC Count 0 days
the total adding up

This data displays the number of manual classified surveys and the number of unclassified ATC surveys 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:
Town Centre 1
Edge of Town Centre 2
Suburban Area (PPS6 Out of Centre) 0
Edge of Town 0

Neighbourhood Centre (PPS6 Local Centre)	2
Free Standing (PPS6 Out of Town)	0
Not Known	0

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.
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Selected Location Sub Categories:

Industrial Zone	0
Commercial Zone	0
Development Zone	1
Residential Zone	0
Retail Zone	0
Built-Up Zone	1
Village	0
Out of Town	0
High Street	3
No Sub Category	0

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 Su
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Secondary Filtering selection:

Use Class:	
A3	5 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:	
15,001 to 20,000	1 days
25,001 to 50,000	4 days

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

Population within 5 miles:	
25,001 to 50,000	1 days
125,001 to 250,000	1 days
250,001 to 500,000	3 days

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

Car ownership within 5 miles:

0.5 or Less	1 days
0.6 to 1.0	2 days
1.1 to 1.5	2 days

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

Travel Plan:

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.

PTAL Rating:

No PTAL Present 5 days

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

LIST OF SITES relevant to selection parameters

Site(1):	DC-06-B-02	Gross floor area:	525 sqm
Development Name:	PREZZO	Number of seats:	60
Location:	DORCHESTER	Number of Employees:	8
Postcode:	DT1 1UJ	Survey Date:	16/09/2016
Main Location Type:	Town Centre	Survey Day:	Friday
Sub-Location Type:	High Street	Parking Spaces:	
PTAL:	n/a	Gross floor area:	1136 sqm
Site(2):	LN-06-B-01		
Development Name:	PREZZO	Number of seats:	100
Location:	LINCOLN	Number of Employees:	42
Postcode:	LN1 1YW	Survey Date:	10/10/2017
Main Location Type:	Edge of Town Centre	Survey Day:	Tuesday
Sub-Location Type:	Development Zone	Parking Spaces:	
PTAL:	n/a	Gross floor area:	600 sqm
Site(3):	WM-06-B-05		
Development Name:	AKBARS	Number of seats:	140
Location:	COVENTRY	Number of Employees:	12
Postcode:	CV1 3GJ	Survey Date:	17/11/2016
Main Location Type:	Edge of Town Centre	Survey Day:	Thursday
Sub-Location Type:	Built-Up Zone	Parking Spaces:	
PTAL:	n/a		

Site(4): WM-06-B-06 Gross floor area: 175 sqm
 ITALIAN
 Development Name: RESTAURANT Number of seats: 50
 Location: COVENTRY
 Number of
 Postcode: CV5 6EJ Employees: 10
 Neighbourhood
 Centre (PPS6 Local
 Main Location Type: Centre) Survey Date: 24/11/2016
 Sub-Location Type: High Street Survey Day: Thursday
 PTAL: n/a Parking Spaces:
 Site(5): WM-06-B-07 Gross floor area: 370 sqm
 Development Name: INDIAN RESTAURANT Number of seats: 50
 Location: STOURBRIDGE
 Number of
 Postcode: DY8 4AJ Employees: 10
 Neighbourhood
 Centre (PPS6 Local
 Main Location Type: Centre) Survey Date: 28/11/2017
 Sub-Location Type: High Street Survey Day: Tuesday
 PTAL: n/a Parking Spaces: 23

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 Rates for Key Periods	Trips per 100 sqm		
	Inbound	Outbound	Total
0800-0900	0	0	0
1700-1800	2.815	0.463	3.278

TRIP RATE for Land Use 06 - HOTEL
 FOOD & DRINK/B - RESTAURANTS
 Calculation Factor: 100 sqm
 Count Type: TOTAL PEOPLE

Time Range	No. Days	Ave. GFA	ARRIVALS			DEPARTU RES			TOTALS Trip Rate	
			Trip Rate	No. Days	Ave. GFA	Trip Rate	No. Days	Ave. GFA		
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		1	175	2.286	1	175	0.571	1	175	2.857
10:00-11:00		2	350	0.714	2	350	0	2	350	0.714
11:00-12:00		3	612	1.198	3	612	0.381	3	612	1.579
12:00-13:00		3	612	3.486	3	612	0.545	3	612	4.031
13:00-14:00		3	612	3.922	3	612	3.486	3	612	7.408
14:00-15:00		3	612	2.07	3	612	3.704	3	612	5.774
15:00-16:00		4	552	0.453	4	552	0.997	4	552	1.45
16:00-17:00		5	561	0.57	5	561	0.321	5	561	0.891
17:00-18:00		5	561	2.815	5	561	0.463	5	561	3.278

18:00-19:00	5	561	4.704	5	561	2.352	5	561	7.056
19:00-20:00	5	561	4.882	5	561	3.956	5	561	8.838
20:00-21:00	5	561	2.21	5	561	3.956	5	561	6.166
21:00-22:00	5	561	1.426	5	561	3.243	5	561	4.669
22:00-23:00	5	561	0.214	5	561	2.815	5	561	3.029
23:00-24:00	5	561	0.107	5	561	1.247	5	561	1.354
Daily Trip Rates:			31.057			28.037			59.094

TRICS 7.5.4

Trip Rate Parameter: Gross floor area

Filtering Summary

Land Use 01/D RETAIL/DIY
SUPERSTORE - WITH
GARDEN CENTRE

Selected Trip Rate
Calculation
Parameter Range 1928-15000 sqm GFA

Actual Trip Rate
Calculation
Parameter Range 4156-15000 sqm GFA

Date Range Minimum: 01/01/10 Maximum: 24/03/18

Parking Spaces
Range Selected: 70 to 571 Actual: 70 to 571

Days of the week
selected Saturday 2
Sunday 1

Main Location Types
selected Edge of Town Centre 3

Population <1 Mile
ranges selected 10 001 to 15 0 1
25 001 to 50 0 2

Population <5 Mile
ranges selected 50 001 to 75 0 1
125 001 to 250 0 2

Car Ownership <5
Mile ranges selected 0.6 to 1.0 2
1.1 to 1.5 1

PTAL Rating No PTAL Present 3

TRIP RATE
CALCULATION
SELECTION
PARAMETERS:

Land Use 01 - RETAIL
D - DIY SUPERSTORE -
WITH GARDEN
CENTRE

Category MULTI-MODAL
TOTAL PEOPLE

Selected regions and
areas:

8 NORTH WEST LC	LANCASHIRE	2 days
10 WALES CO	CONWY	1 days

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

Secondary Filtering
selection:

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

Parameter: Gross floor area
4156 to 15000 (units:
Actual Range: sqm)
Range Selected by: 1928 to 15000 (units:
User: sqm)

Public Transport

Provision:
Selection by: Include all surveys

Date Range: 01/01/10 to
24/03/18

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:
Saturday 2 days
Sunday 1 days

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

Selected survey types:

Manual count 3 days
Directional ATC
Count 0 days
the total adding up

This data displays the number of manual classified surveys and the number of unclassified ATC surveys 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:

Town Centre	0
Edge of Town Centre Suburban Area (PPS6 Out of Centre)	3
Edge of Town Neighbourhood Centre (PPS6 Local Centre)	0
Free Standing (PPS6 Out of Town)	0
Not Known	0

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:

Industrial Zone	0
Commercial Zone	2
Development Zone	0
Residential Zone	0
Retail Zone	1
Built-Up Zone	0
Village	0
Out of Town	0
High Street	0
No Sub Category	0

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	No Sub Category
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Secondary Filtering

selection:

Use Class:

A1	3 days
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This data displays the

number of surveys

per Use Class

classification within

the selected set. The

Use Classes Order which can be found

2005 has been used within the Library

for this purpose module of TRICS®.

Population within 1

mile:

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

This data displays the

number of selected

surveys within stated

1-mile radii of

population.

Population within 5

miles:

50,001 to 75,000	1 days
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125,001 to 250,000	2 days
--------------------	--------

This data displays the

number of selected

surveys within stated

5-mile radii of

population.

Car ownership within

5 miles:

0.6 to 1.0	2 days
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1.1 to 1.5	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.

Petrol filling station:
Included in the survey count 0 days

Excluded from count or no filling station 3 days

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

Travel Plan:
No 3 days

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

PTAL Rating:
No PTAL Present 3 days

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

LIST OF SITES relevant to selection parameters

Site(1):	CO-01-D-01	Gross floor area:	4156 sqm
Development Name:	B&Q	Retail floor area:	3090 sqm
Location:	LLANDUDNO	Parking spaces:	163
Postcode:	LL30 1RT	Number of Employees:	
Main Location Type:	Edge of Town Centre	Survey Date:	24/03/2018
Sub-Location Type:	Retail Zone	Survey Day:	Saturday
PTAL:	n/a		
Site(2):	LC-01-D-04	Gross floor area:	15000 sqm
Development Name:	B&Q	Retail floor area:	13000 sqm
Location:	BLACKBURN	Parking spaces:	535
Postcode:	BB2 3QP	Number of Employees:	155
Main Location Type:	Edge of Town Centre	Survey Date:	12/09/2010
Sub-Location Type:	Commercial Zone	Survey Day:	Sunday
PTAL:	n/a		
Site(3):	LC-01-D-05	Gross floor area:	4650 sqm
Development Name:	B&Q	Retail floor area:	4200 sqm
Location:	PRESTON	Parking spaces:	149
Postcode:	PR1 1NR	Number of Employees:	50
Main Location Type:	Edge of Town Centre	Survey Date:	18/09/2010
Sub-Location Type:	Commercial Zone	Survey Day:	Saturday
PTAL:	n/a		

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 Rates for Key Periods	Inbound	Trips per 100 sqm GFA		Total	
		Outbound			
0800-0900		0.681	0.25		0.931
1700-1800		1.249	2.623		3.872

TRIP RATE for Land Use 01 - RETAIL/D - DIY SUPERSTORE - WITH GARDEN CENTRE
 Calculation Factor: 100 sqm
 Count Type: TOTAL PEOPLE

Time Range	No. Days	Ave. GFA	ARRIVALS		No. Days	Ave. GFA	DEPARTURES		No. Days	Ave. GFA	TOTALS
			Trip Rate				Trip Rate				Trip Rate
00:00-01:00											
01:00-02:00											
02:00-03:00											
03:00-04:00											
04:00-05:00											
05:00-06:00											
06:00-07:00		1	4650	0.086	1	4650	0	1	4650	0.086	
07:00-08:00		2	4403	0.227	2	4403	0.091	2	4403	0.318	
08:00-09:00		2	4403	0.681	2	4403	0.25	2	4403	0.931	
09:00-10:00		3	7935	0.731	3	7935	0.34	3	7935	1.071	
10:00-11:00		3	7935	2.02	3	7935	1.344	3	7935	3.364	
11:00-12:00		3	7935	2.886	3	7935	2.537	3	7935	5.423	
12:00-13:00		3	7935	3.05	3	7935	2.861	3	7935	5.911	
13:00-14:00		3	7935	3.108	3	7935	2.949	3	7935	6.057	
14:00-15:00		3	7935	3.037	3	7935	3.1	3	7935	6.137	
15:00-16:00		3	7935	2.667	3	7935	3.146	3	7935	5.813	
16:00-17:00		3	7935	0.92	3	7935	1.47	3	7935	2.39	
17:00-18:00		2	4403	1.249	2	4403	2.623	2	4403	3.872	
18:00-19:00		2	4403	0.999	2	4403	1.431	2	4403	2.43	
19:00-20:00		2	4403	0.341	2	4403	0.863	2	4403	1.204	
20:00-21:00		1	4650	0	1	4650	0	1	4650	0	
21:00-22:00											
22:00-23:00											
23:00-24:00											
Daily Trip Rates:				22.002			23.005				45.007

Count Type: TOTAL
PEOPLE

Time Range	No. Days	Ave. GFA	ARRIVALS			DEPARTU RES			TOTALS Trip Rate	
			Trip Rate	No. Days	Ave. GFA	Trip Rate	No. Days	Ave. GFA		
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		1	450	2.444	1	450	0.889	1	450	3.333
09:00-10:00		1	450	2.667	1	450	2.444	1	450	5.111
10:00-11:00		1	450	5.111	1	450	3.778	1	450	8.889
11:00-12:00		1	450	8	1	450	8.889	1	450	16.889
12:00-13:00		1	450	14.889	1	450	9.778	1	450	24.667
13:00-14:00		1	450	18.444	1	450	21.556	1	450	40
14:00-15:00		1	450	21.556	1	450	20	1	450	41.556
15:00-16:00		1	450	22.222	1	450	20.444	1	450	42.666
16:00-17:00		1	450	20.222	1	450	23.111	1	450	43.333
17:00-18:00		1	450	14.444	1	450	13.111	1	450	27.555
18:00-19:00		1	450	19.111	1	450	19.778	1	450	38.889
19:00-20:00		1	450	13.111	1	450	15.111	1	450	28.222
20:00-21:00		1	450	6.889	1	450	6.889	1	450	13.778
21:00-22:00		1	450	8.667	1	450	7.111	1	450	15.778
22:00-23:00		1	450	3.556	1	450	4.889	1	450	8.445
23:00-24:00		1	450	0	1	450	1.556	1	450	1.556
Daily Trip Rates:				181.333			179.334			360.667



1st Floor Station House
Tithebarn Street, Exchange Station
Liverpool
L2 2QP

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