

100 TRIPS DATABASE BUREAU
2002 209
453 2014
IPENZ Transportation Group
Conference

28/03/2014 Trips Database Bureau 1

Agenda for seminar

- What is TDB
- Recent survey findings
- Are we all that much different to each other?
- The new TRICS7 release
- Questions

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What is TDB?

- Provides central database of trip and parking related information, research and advice
- For regional /local councils, consultants and other transport professionals' organisations.
- Through successful collaboration to provide quality research and information
- The Bureau is
 - a non-profit cooperative,
 - an Incorporated Society, and
 - a technical focus group of the IPENZ Transportation Group and the AITPM
 - managed by an elected Board of New Zealand and Australian practicing engineers and planners.



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Recent Surveys

Total records 1159 (734 NZ, 416 Au, 9 US)

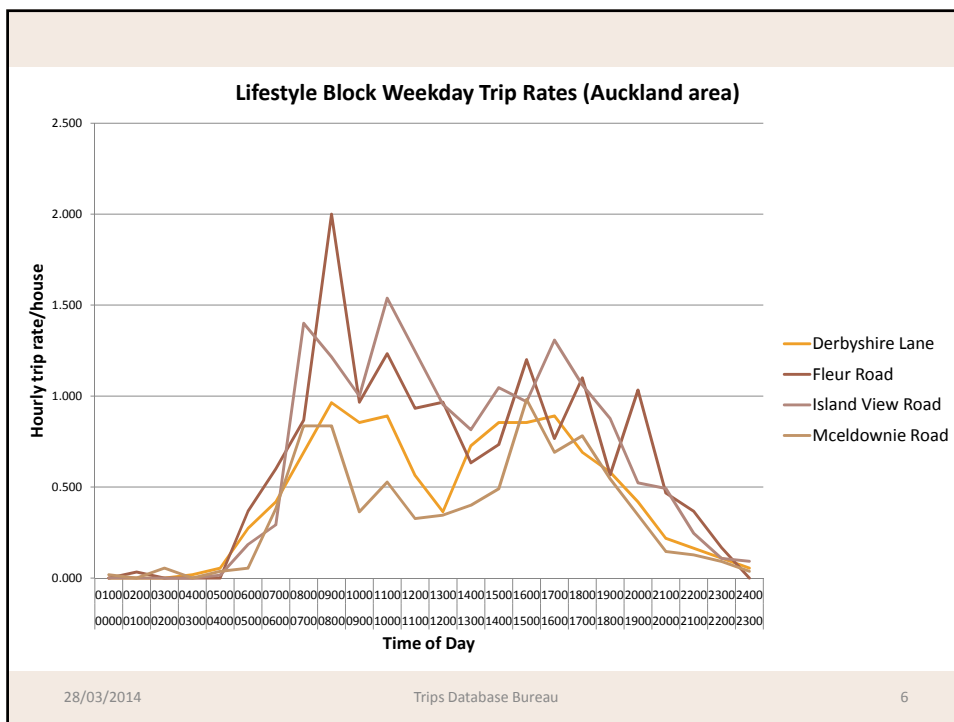
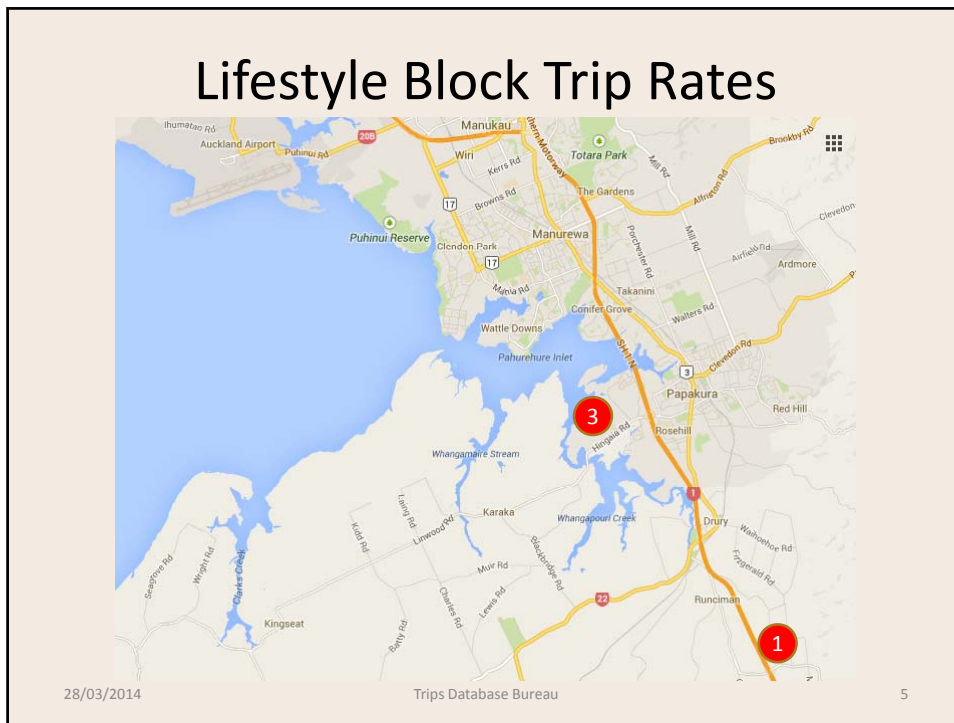
New Survey records in 2014 release

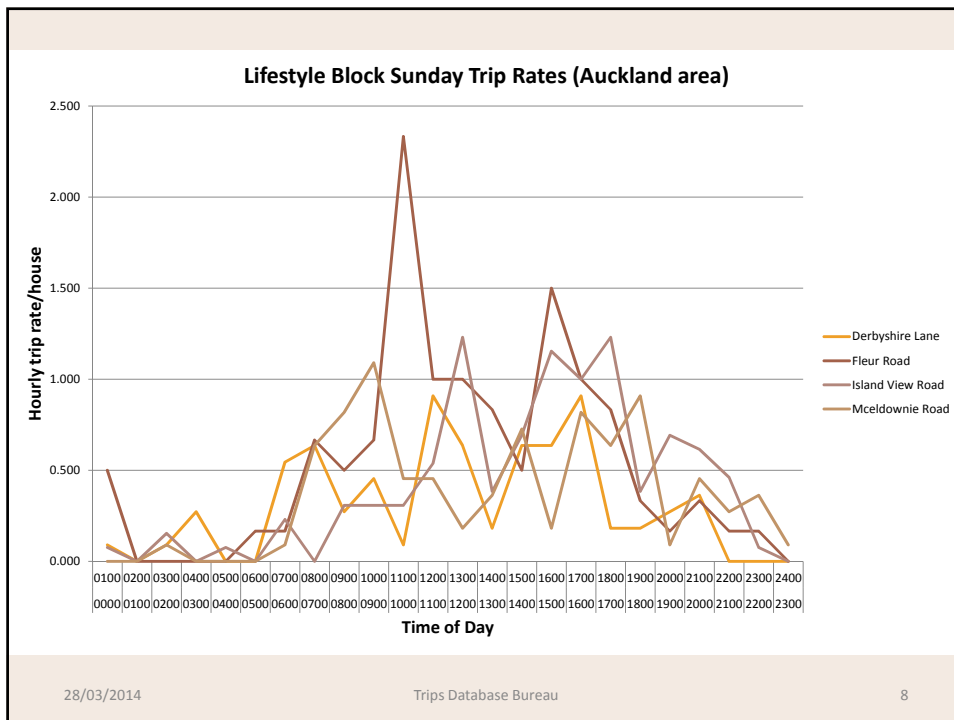
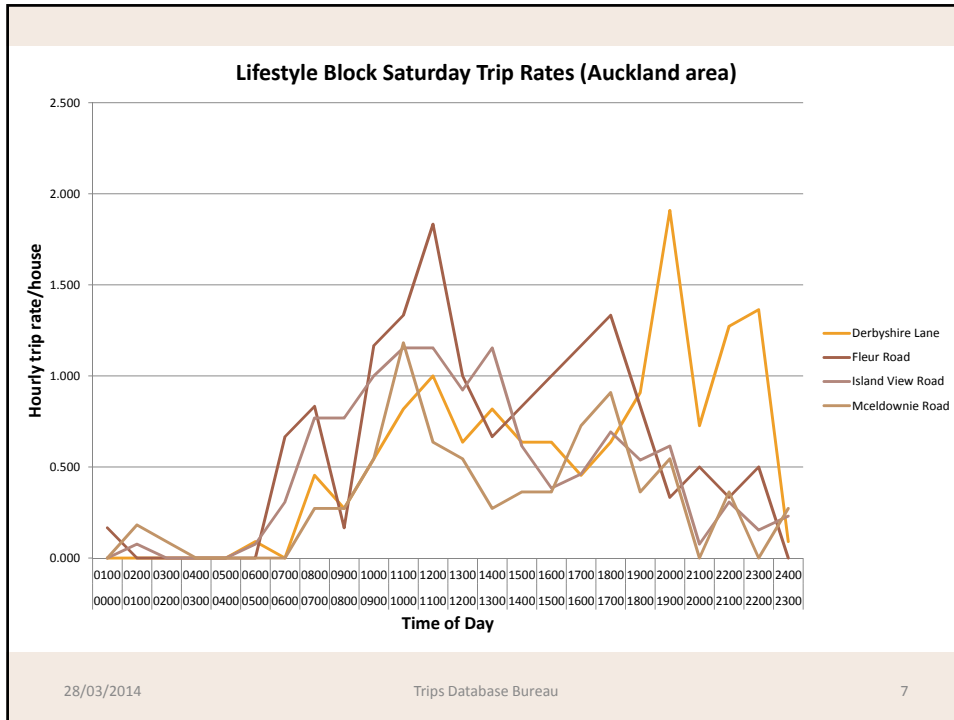
- 27 New Zealand
 - Incl. 4 Lifestyle Blocks (*3), 3 Car salesyards, 2 Swimming Pools, 2 Churches, Golf Course, Medical Centre, Supermarket
- 11 Australia
 - Low density/surburban housing

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Lifestyle Block Trip Rates

	Derbyshire Lane	Fleur Road	Island View Road	Mceldownie Road
	11 Houses	6 Houses	13 Houses	11 Houses
Weekday Daily Trip Rate	10.655	15.000	15.385	8.418
Saturday Daily Trip Rate	13.273	14.667	11.462	7.909
Sunday Daily Trip Rate	7.364	12.833	9.923	8.727
Peak Hourly Trip Rate	0.964	2.000	1.538	0.982
Saturday Peak Trip Rate	1.909	1.833	1.154	1.182
Sunday Peak Trip Rate	0.909	2.333	1.231	1.091

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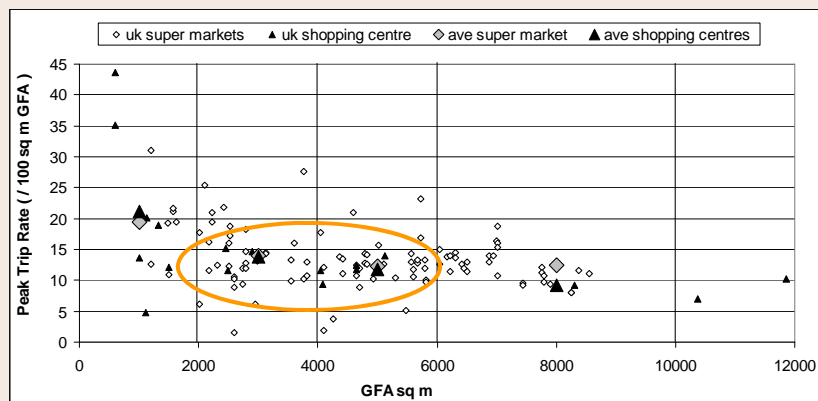
Comparison of NZ, UK and Australian Trips and Parking Rates

Findings from Research Report #374

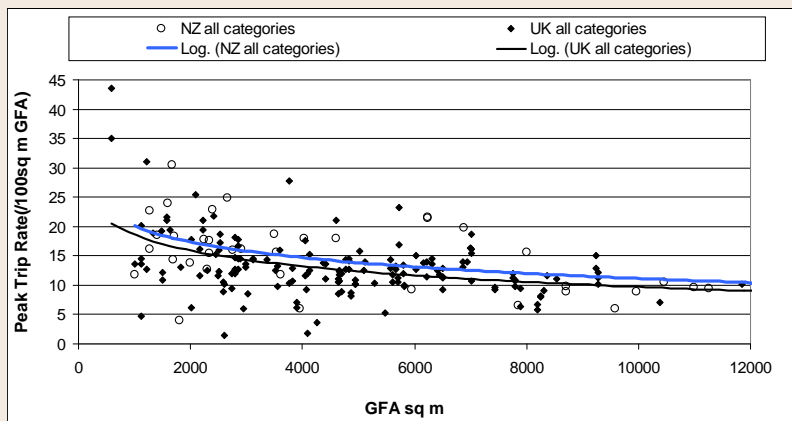
Land Use Definitions

NZ LAND USE	NZ SUB LAND USE	UK SUB LAND USE	UK LAND USE
Assembly	Cinema	A - Multiplex Cinemas	07 - Leisure
Commercial	Office (Park)	B - Business Park	02 - Employment
Education	Pre-school	D - Nursery	04 - Education
Industry	Manufacture	C - Industrial Unit	02 - Employment
	Warehouse	F - Warehousing Commercial	02 - Employment
Medical	Centre	E - Clinics	05 - Health
		G - GP Surgeries	
Recreation	Sports Fields	L - Football (- 5-a-side)	07 - Leisure
	Golf Courses	Golf Courses	09 - Golf Courses
Residential	Dwelling	A - Houses Privately Owned	03 - Residential
		B - Houses for Rent	
Retail	Hotel	A - Hotel	06 - Hotel, Food & Drink
	Superstore	A - Food Superstore	01 - Retail
	Shopping Centre - Local Shops	I - Shopping Centre	
		J - Retail Park (including Food)	
Retail	Service station	A - Petrol Filling Stations	13 - Petrol Filling Stations
	Restaurant-Bar	B - Restaurants	06 - Hotel, Food & Drink
	Fast Food	D - Fast Food - Drive Through	06 - Hotel, Food & Drink

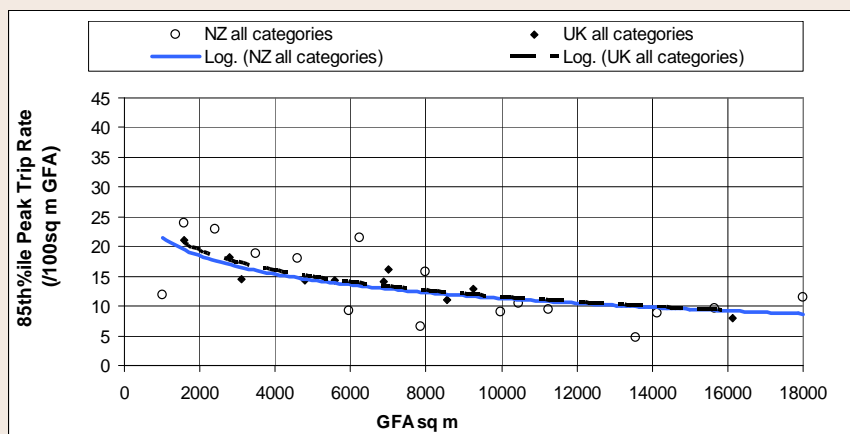
4. UK Supermarkets and Shopping Centers



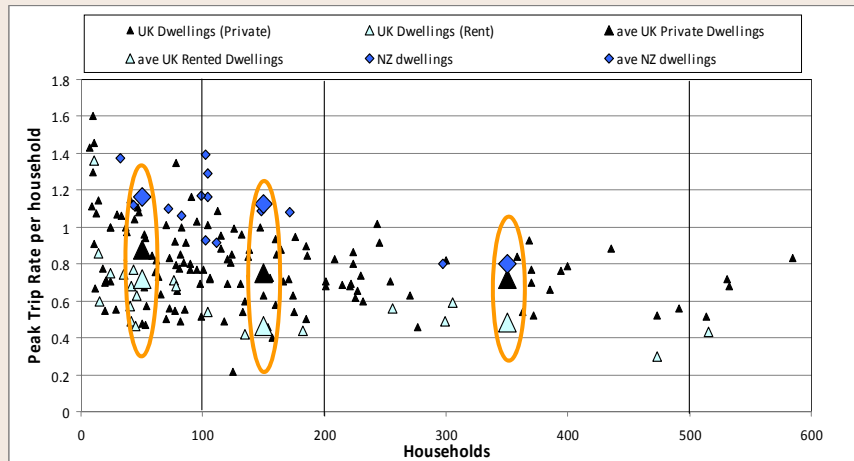
4. Trends across UK and NZ Retail trips data



4. 85thile Trip Rates for UK and NZ Retailing



4. Peak Trip Rates for Urban Residential Activity



5. Conclusions

- 1) Comparison and analysis shows that the average, and the 85th percentile, trip generation and parking demand rates are consistent and similar for retail activities.
- 2) There are also similar and consistent trip making patterns for restaurants, pre-schools, medical centres and residential activities.
- 3) Future sharing and exchange of basic data between UK and NZ is possible.
- 4) GFA appears to be a strong parameter for predicting trips and parking for many land use activities.
- 5) Where similar trips and parking rate trends were not established, this was in the main attributed to lack of NZ data and definitional issues.
- 6) Where similarities exist, transportation professionals can use UK data to broaden and support their judgements about land use trip generation and parking levels.
- 7) Where similarities exist, TRICS can assist NZ transport professionals in 'filling in' missing data such as: Modal split/ Parking accumulations/daily trip generation profiles/Plot Ratios.
- 8) Where NZ land uses are well represented, similar trends with their UK counterparts exist. This may suggest that trip generation and parking rates associated with NZ land uses that are poorly represented may be informed by equivalent UK data.

6. NZ/Australia Results

Outcome of Statistical Testing

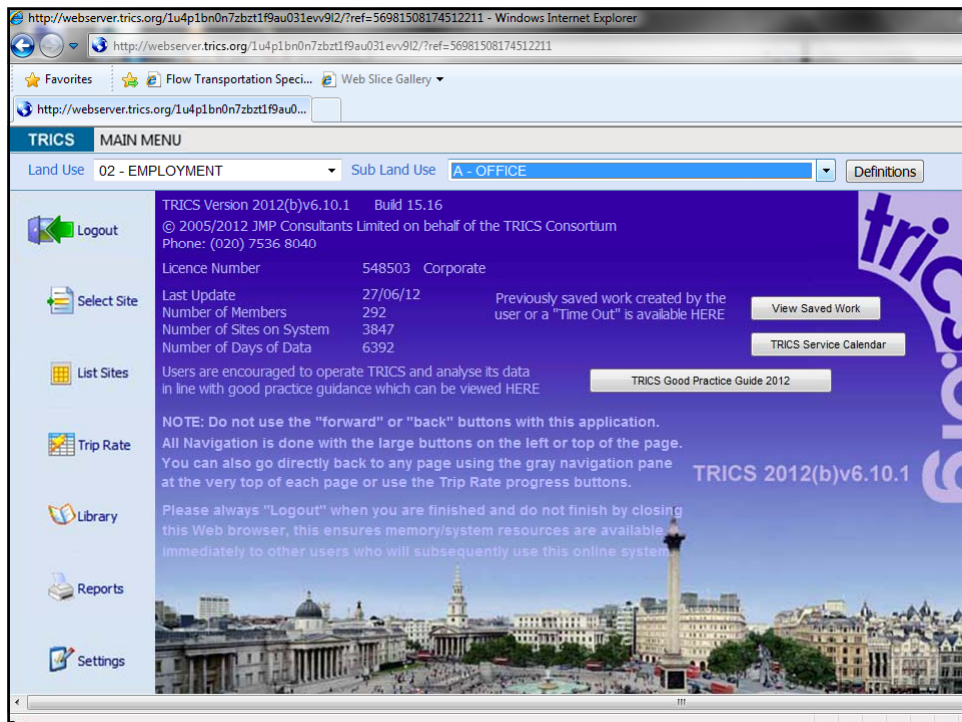
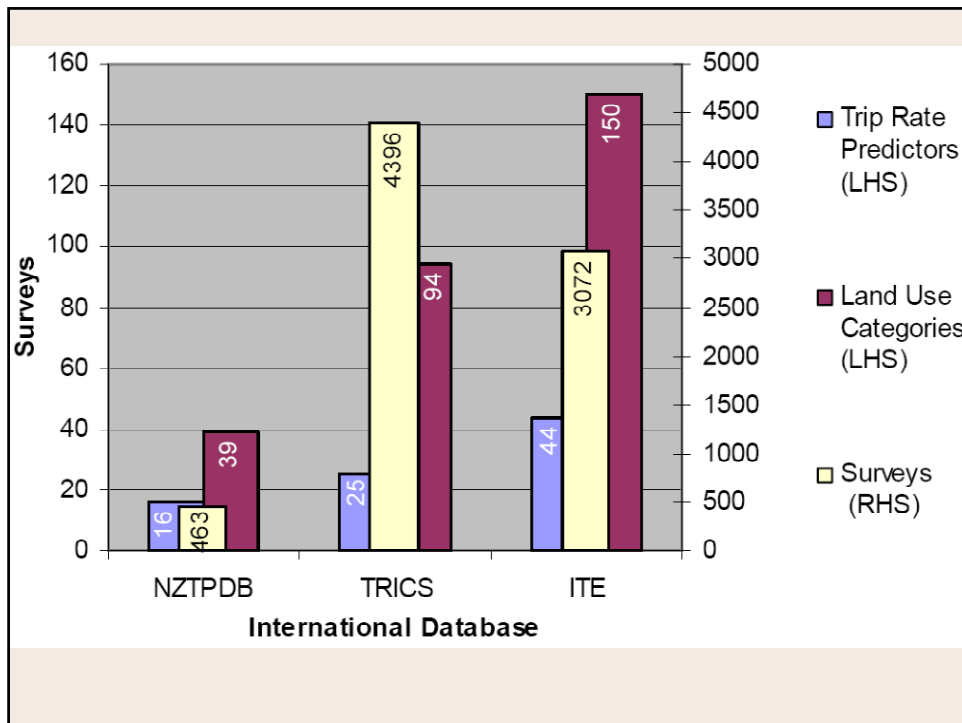
Transferrable (All)
Transferrable (> size)
Not Transferrable

Activity	Trips	Parking
Bulk Goods	>10000 m2	>10000 m2
Business Park		
Fast Food	> 500 m2	
Gymnasium		
Medical Centre		
Office	> 5000 m2	> 5000 m2
Pre-school	> 40 students	> 40 students
Restaurant		
Shopping Centre	> 5000 m2	> 20000 m2



The TRICS Database (Trip Rate Information Computer System)

Trip Rate Initiative by Counties
in the South



User Information
 User Name: Stuart Woods
 Company: TDB/DAG
 Christchurch 8242
 Number of Active Sessions: 1

TRICS System Information
 TRICS Version 7.1.1 Build 16.31 Update 3
 © 2005/2014 JMP Consultants Limited on behalf of the TRICS Consortium
 Phone: (020) 3714 4400
 Licence Number: 548501 Corporate
 Last Update: 05/03/14
 Number of Members: 297
 Number of Sites on System: 4218
 Number of Days of Data: 6768

TRICS Service Calendar
 Service Calendar as of 23/12/13
Daily Server Re-Start
 The online system will be unavailable each evening between 23:45 and 00:00 (UK)

Breaking News
 Breaking news for TRICS 7th January 2014
 Welcome to the new TRICS 7 Series. For more information about this upgrade please review the "Key Changes" document in the Library, along with the list of system developments document for version 7.1.1.
 Update 2 is now available in the Online/Offline versions. Some minor issues in the initial release of TRICS 7 are now fixed. Added the option to select a site by typing the reference number when viewing the site list.

Note on Browsing and Saved Work
 Do not use the "forward" or "back" buttons with this application. All Navigation is done with the large buttons on the left or top of the page. You can also go directly back to any page using the grey navigation pane at the very top of each page or use the Trip Rate progress buttons. Please always "Logout" when you are finished and do not finish by closing this Web browser, this ensures memory/system resources are available immediately to other users who will subsequently use this online system.

Primary Filter

PROGRESS CHECKLIST

- land use & trip rate selection
- primary filtering
- secondary filtering
- site selection
- survey selection
- calculate trip rate
- rank order list

Trip Rate Parameters

Description	No. of surveys	Include
Gross floor area	704	<input type="checkbox"/>
Retail floor area	686	<input checked="" type="checkbox"/>
Parking spaces	698	<input type="checkbox"/>
Number of Employees	587	<input type="checkbox"/>

Parameter Range
 Selection by: Retail floor area
 Units: sqm
 Minimum: 640 From: To:
 Maximum: 9900

Date range
 Minimum: 09/10/85 From: To:
 Maximum: 05/10/13 To:

The default lower date has been set to 01/01/05 in order to exclude old data from the calculation. If this is accepted, 619 days will be excluded. The minimum date may be manually set by the user if this default cut-off date is not acceptable.

Week days to include

Day of week	No. of surveys	Include
Monday	4	<input checked="" type="checkbox"/>
Tuesday	3	<input checked="" type="checkbox"/>
Wednesday	1	<input checked="" type="checkbox"/>
Thursday	3	<input checked="" type="checkbox"/>
Friday	16	<input checked="" type="checkbox"/>
Saturday	38	<input checked="" type="checkbox"/>
Sunday	2	<input checked="" type="checkbox"/>

Location Types to include

Location Types	No. of surveys	Include
Town Centre	7	<input checked="" type="checkbox"/>
Edge of Town Centre	6	<input checked="" type="checkbox"/>
Suburban Area	26	<input checked="" type="checkbox"/>
Edge of Town	26	<input checked="" type="checkbox"/>
Neighbourhood Centre	2	<input checked="" type="checkbox"/>
Free Standing		<input checked="" type="checkbox"/>
Not Known		<input checked="" type="checkbox"/>
Sub-categories		
Industrial Zone	1	<input checked="" type="checkbox"/>
Commercial Zone	5	<input checked="" type="checkbox"/>
Development Zone	2	<input checked="" type="checkbox"/>
Retail Zone	11	<input checked="" type="checkbox"/>
Residential Zone	21	<input checked="" type="checkbox"/>
Built-Up Zone	6	<input checked="" type="checkbox"/>
Village		<input checked="" type="checkbox"/>
Out of Town		<input checked="" type="checkbox"/>
High Street	3	<input checked="" type="checkbox"/>
No Sub Category	17	<input checked="" type="checkbox"/>

Survey Types to include

Survey type	No. of surveys	Include
Manual count	67	<input checked="" type="checkbox"/>
Directional ATC Count		<input checked="" type="checkbox"/>

Surveys Selected

Survey Type	Days
Manual Count	67
Directional ATC Count	

GFA not in use Advice Notes
 In 2006, a "GFA not in use" data field was introduced. By default, total GFA is used for GFA trip rate calculations. You can now deduct "GFA not in use" from total GFA figures (where this data is available) in trip rate calculations, through a new option available via the Main Menu of TRICS. To activate this feature, click "Settings" above, then

Example sites query (ranked)

PROGRESS CHECKLIST

- land use & trip rate selection
- primary filtering
- secondary filtering
- site selection
- survey selection
- calculate trip rate
- rank order list

RANK ORDER TIME

Rank order for: **Gross floor area**
 Calculated on: **TOTALS**
 Time range: **11:00-12:00**

Warning: Using 85th and 15th percentile highlighted trip rates in data sets of under 20 surveys is not recommended by TRICS, and may be misleading.

Total: 13
 85th Percentile = no. 3
 15th Percentile = no. 11

Median Values

Arrivals	8.210
Departures	7.588
Totals	15.798

Mean Values

Arrivals	8.610
Departures	8.058
Totals	16.667

Rank	Site Ref	Description	Town/City	GFA	Day	Date	Arrivals	Departures	Totals
1	DC-01-A-18	MORRISONS	WEYMOUTH	5156	Saturday	12/07/08	11.152	10.260	21.412
2	HF-01-A-02	MORRISONS	WELWYN GARDEN CITY	4500	Saturday	05/07/08	10.333	10.889	21.222
3	NY-01-A-03	MORRISONS	RIPON	4237	Saturday	20/09/08	11.022	9.488	20.510
4	NR-01-A-02	SAINSBURYS	NORTHAMPTON	7012	Saturday	29/11/08	10.539	9.398	19.937
5	MM-01-A-01	WAITROSE	ABERGAVENNY	4550	Saturday	06/10/07	10.176	9.451	19.627
6	DV-01-A-20	SAINSBURYS	EXETER	6981	Saturday	24/10/09	10.048	8.025	18.073
7	LN-01-A-05	ASDA	LINCOLN	7710	Saturday	21/09/05	8.210	7.588	15.798
8	HC-01-A-05	SAINSBURYS	WYNDHAMSTER	6900	Saturday	17/11/07	7.382	7.697	15.279
9	SR-01-A-01	MORRISONS	STRLING	7000	Saturday	21/04/07	7.425	6.643	14.072
10	LN-01-A-06	SAINSBURYS	LINCOLN	6950	Saturday	12/05/07	6.633	7.238	13.971
11	NY-01-A-04	MORRISONS	BOROUGHBRIDGE	6320	Saturday	13/09/08	7.009	6.503	13.512
12	CB-01-A-06	MORRISONS	CARLISLE	7800	Saturday	18/06/05	5.936	5.782	11.718
13	SM-01-A-02	MORRISONS	MINEHEAD	4575	Saturday	14/07/12	6.055	5.486	11.541

TRIP RATE MODE

- Vehicles 13 Surveys
- PSVs 13 Surveys
- OGVs 13 Surveys
- Cyclists 13 Surveys
- Taxis No Data
- Cars Cannot calculate (see notes)
- LGVs Cannot calculate (see notes)
- Motor Cycles Cannot calculate (see notes)

Site Summary Sheet Information

Site Details: 01 - RETAIL A - FOOD SUPERSTORE

Site Reference: DE-01-A-03
 Survey Type: MULTI-MODAL
 Area: DERRY-ULSTER (N IRELAND)

SITE RECORD PAGES

- location details
- public transport
- design features for non-car modes
- site photo
- development units
- parking
- survey days
- travel plan

Site Information:

- Description: SAINSBURYS
- Street: STRAND ROAD
- District: PENNYBURN
- Town: LONDONDERY
- Postcode: BT48 7TL
- Latitude: 55.01020
- Longitude: -7.31570
- Location: Suburban Area (PP56 Out of Centre)
- Locn Sub Cat: No Sub Category
- Use class: A1

Site photo:

Site Statistics:

- Gross floor area: 4500 sqm
- Retail floor area: 3450 sqm
- Total parking spaces: 563
- Total Employees: 298
- No. of development for this site: 1
- No. of survey days for this site: 1

Travel Plan:

- Is there a travel plan associated with this site? No
- If not, are there any plans to implement a Travel Plan in the future? No
- Is survey data available before the implementation of the Travel Plan? No

Urban Regeneration: No

Standard Assessment Methodology (SAM): No

Population Data:

- Population within 1 mile: 20,001 to 25,000
- Population within 5 miles: 75,001 to 100,000
- Population within 500m: 1600
- Car ownership (5 miles): 1.1 to 1.5

Comment: The site is on Strand Road which heads north into Muff. The A2 also heads south/east crossing the Foyle Bridge which continues east into Coleraine and south into Londonderry and further south into Strabane. Within the local area there are such developments such as a drive through fast food, retail stores, University campus and residential areas. The site has 8 access points 2 of which are for vehicles.

Site Parking Info co-located

On-Site Parking Details

Total	564	Employee	0
Spaces Per 100m2 GFA	7.093	Disabled	28
Spaces Per 100m2 RFA	0.603	Visitor/Customer	510
		OGV Parking Bays	0
		Cycle Spaces	0
		OGV Loading Bays	0
Parking Charges	No	Mother and Toddler	21
		Motorcycle Spaces	5

Comments about the management of the site car park, along with enforcement measures
Tesco's manage their own car park.

Site Parking Surface or Non-Surface (multi-storey/underground)
Surface

General Comments on Parking

Off-Site Parking Details

Is there off-site parking available? Yes

Off-Site Parking included in the counts Yes

Free On-Street Parking Available Nearby Yes

If yes, considered easy to find a space Yes

If prepared to pay, easy to find somewhere to park off-site all day Yes

Parking Restrictions Area subject to parking restrictions (controlled parking zone - CPZ) No

Off-Street Parking

Off-Street Parking Available Yes, Public Off Street Parking is Available

Details about Off-Street Parking

Approx. Available Spaces 100 Parking Located Within a Control Parking Zone (CPZ) No

Charges for this Off-Street Parking No

Park and Ride

Park and Ride Type Facility providing relevant means of accessing the site No

41707/01/07 https://database.bureau.gov.uk

Public Transport Provision Summary

Day	Period	Buses/trams 400m	Trains 1km	Total services
Monday-Friday	0700-1900	192		192
Monday-Friday	0700-1000	36		36
Monday-Friday	1600-1900	36		36
Saturday	0700-1900	190		190
Sunday	0700-1900	148		148

Reason for blank table n/a

Bus and Tram

1. Is there a site specific company bus service associated with the development?
2. If Yes to question 1, for how many years 0

3. Is there at least 1 bus (or tram) stop within the site frontage or within 400m of the site frontage?

4. If yes to question 3, where it is necessary to cross a road between the development and the stop, is there a conveniently placed crossing facility?

5. If yes to question 3, are there at least 2 buses (or trams) per hour (per direction between 0700 and 1900) with routes serving significant areas of population within a 5 kilometre radius? (Mon-Sat)

6. If yes to question 5, what are the service characteristics? (please complete the outline information below)

Destination (town/area)	Number per hour	Approx. journey time
Stratford	4	49
Warwick Hospital	4	60

Rail

7. Is there at least one railway station within 1 kilometre radius of the site?

8. If yes to question 7, is pedestrian access to the station satisfactory?

Why become a member?

Databases

Advice and Research

Professional Network

Contact and communication

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Questions?

For further information, please contact:

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