

49 to 53 Rowden Hill

Proposed Residential Development

TRANSPORT STATEMENT

1. Introduction

1.1 Background

1.1.1 This Transport Statement (TS) has been produced to support a Hybrid application for the redevelopment and renovation of existing site to create within existing buildings: 1No. detached dwellings, 5No. flats, a terrace of 4No. 'key worker' rental properties, and erection 1No. self-build new dwelling together with outline planning for 6No. new detached self-build properties, together with new one-way access road, parking, paths, external landscaping and associated works, photovoltaics, air source heat pumps, and site drainage features.

1.1.2 In summary the development comprises

- no.49 will be split up into terrace 4no. houses, with 2no. Car parking spaces 2no. per house
- no.49a will be a new-build detached 2-bed house with 2no. Car parking spaces
- no.51 will be a converted back into a detached 5-bed house with 3no. Car parking spaces
- no.53 will be split into 5no. 2-bed flats over 3 floors with 2no. Car parking spaces per flat
- there will then be 6no. new-build detached 3-5 bed houses in the new build plots with 2/3no. Car parking spaces per plot depending on unit size as plan
- Cycle parking across the entire scheme consistent with WC and LTN 1/20
- Utilisation of existing single access and egress point from Rowden Hill for no51 only
- Separate access and egress points from Rowden Hill for the rest of the scheme (one existing – access and one new – egress)
- All accesses to be via a footway crossovers
- Refuse to be collected kerbside for all units as indicated on the plans and internal to the site for all other units with entrance and exit in a forward gear
- MfS compliant visibility splays
- Pedestrian and cycle permeability

1.1.3 By contrast the current site comprises:

- Extant use is offices, used by Wiltshire Primary Care Trust with GFA as follows:
- 53 – 1060m² over 4 floors (inc basement & rooms in roof)
- 51 – 395m² over 2 floors
- 49 – 390m² over 2 floors
- 49/53 to be demolished – 375m² over 2 floors
- Total – 1845 sqm GFA
- One MfS compliant access and one MfS non-compliant access
- In excess of 40 car parking spaces on site and use of parking across the rest of the complex

1.1.4 Proposed Site Layout plans attached as **Appendix A**.

2. EXISTING DEVELOPMENT SITE AND HIGHWAY CONDITIONS

2.1 Existing Highway Network

- 2.1.1 The site is located on Rowden Hill, Chippenham some 1.2km southwest to the Town Centre. The strategic and local site locations are shown below as **Figures 2.1 and 2.2**

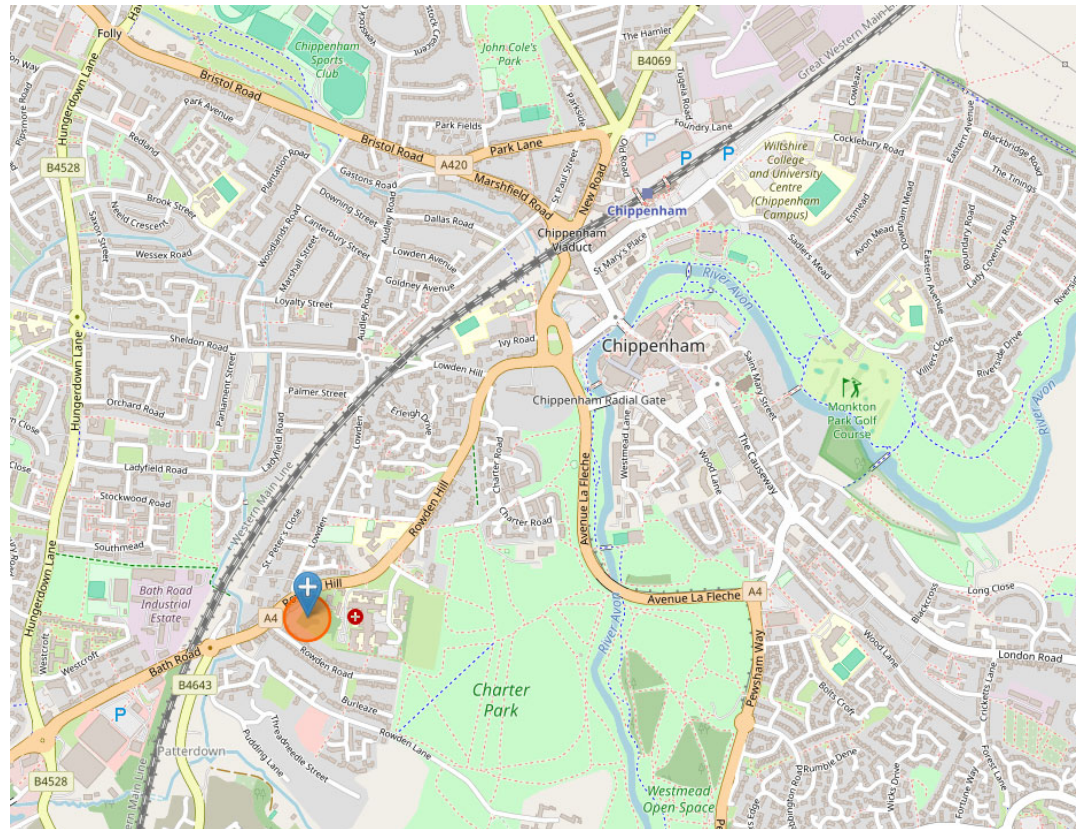


Figure 2.1 –Strategic Site Location Plan

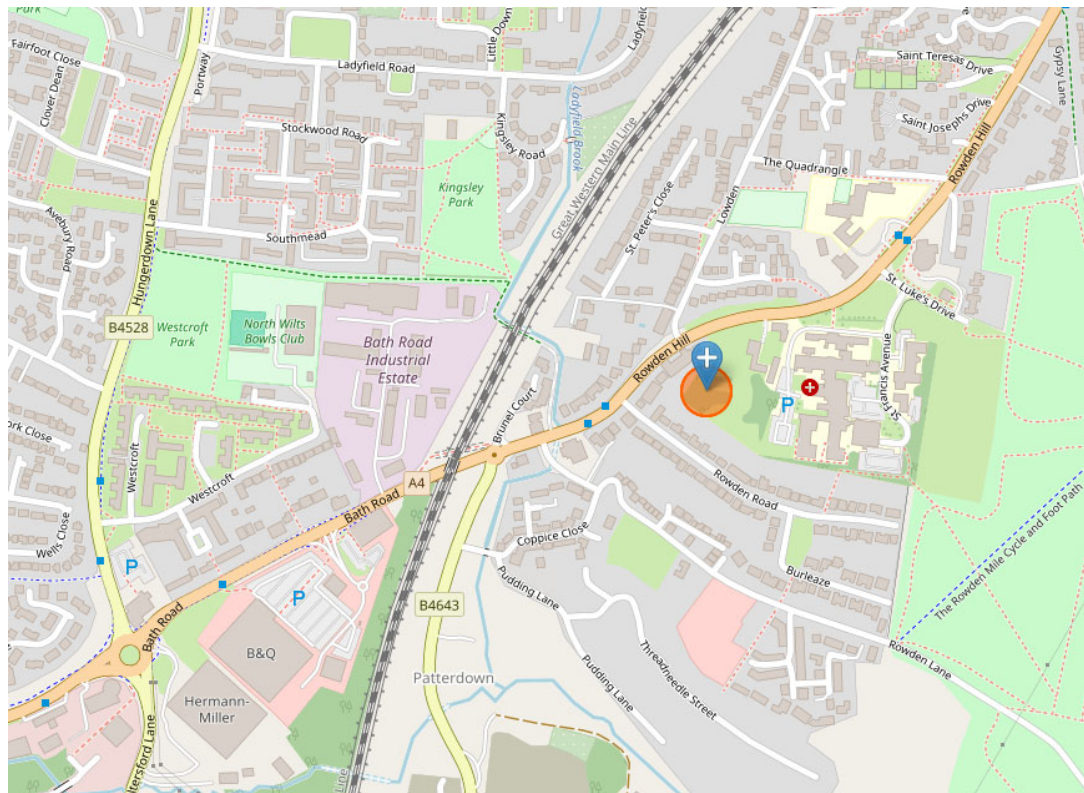


Figure 2.2 –Local Site Location Plan

2.1.2 Rowden Hill (A4) is a primary distributor road approx. 8m wide, lit, footways along both flanks and subject to a 30mph speed limit.

2.1.3 The A4 provides access to all of Chippenham's major highway network.

2.2 Accessibility to Local Facilities

2.2.1 The following facilities are local to the site;

0-400m

- Public House
- Hospital
- Convenience store
- Doctors, Dentist
- Cycle Routes
- Bus Routes X31, X34, X37, 44D

400-800m

- Primary School



- Retail and Commercial opportunities

Others up to 1200m

- Chippenham Sports Club, Chippenham Football Club
- Town Centre
- Train Station and Bus Station,
- Secondary Schools
- Car Hire
- Retail – Food and Non-Food
- Gym, Cinema, John Coles Park and Church
- Restaurants, Take away, Cafes

2.3 Sustainability Audit

- 2.3.1 Initial pedestrian, cycle and public transport audits have been carried out for the area surrounding the site to include an analysis of the current facilities for journeys by modes other than the private car.

Pedestrian and Cyclists

- 2.3.2 The Design Manual for Roads and Bridges (DMRB) TD 91/05 “Provision for Non-Motorised Users” states in paragraph 2.3 that “walking is used to access a wide variety of destinations including educational facilities, shops, and places of work, normally within a range of up to 2 miles. Walking and rambling can also be undertaken as a leisure activity, often over longer distances”.
- 2.3.3 Acceptable walking distances will vary considerably depending on various factors such as fitness and land topography; however, guidelines by the Institution of Highways and Transportation (IHT) state the acceptability of distances in metres to various attractions, are as follows:
- Desirable : 500m
 - Acceptable : 1,000m (12-13 mins)
 - Preferred Maximum : 2,000m
- 2.3.4 Manual for Streets usefully states ‘The propensity to walk is influenced not only by distance, but also by the quality of the walking experience. A 20-minute walk alongside a busy highway can seem endless, yet in a rich and stimulating street, such as in a town centre, it can pass without noticing. Residential areas can offer a pleasant walking experience if good quality landscaping, gardens or interesting architecture are present’ (MfS, Para 6.3.1).
- 2.3.5 Local Transport Note (LTN) 1/20 Cycle Infrastructure Design sets out that “Two out of every three personal trips are less than five miles in length - an achievable distance to cycle for most people, with many shorter journeys also suitable for walking”.
- 2.3.6 Within a walk distance of 2.0km, much of the local residential and local facilities can be accessed on foot via footways along local roads, with continuous links and crossings provided between the site and the local area, thus ensuring that there is no obstruction to access on foot.
- 2.3.7 In terms of cycling and as shown in **Appendix B**, the site is located in close proximity to the towns cycle network.



- 2.3.8 This review of cycle facilities and routes has identified that there should be no major obstacles to residents walking of cycling to / from the site and that the site should be well placed to encourage journeys by cycle.

Public Transport

- 2.3.9 The closest bus services are provided on Rowden Hill almost adjacent to the site where bus routes X31, X34, X37, 44D can be accessed.
- 2.3.10 Local bus routes are illustrated at **Appendix C**.
- 2.3.11 Clearly the site is well located to encourage travel by bus.

2.4 Existing Trip Generation

- 2.4.1 In order to determine the potential trip generation of proposals, the standardised trip rates have been taken from the TRICS 8 database. To ensure a robust assessment the search category houses privately owned has been used (note; due to small sample number, all available sites retained)
- 2.4.2 Based on reasonable search criteria, the predicted weekday vehicle trips are summarised below in **Table 2.1**. The full TRICS output can be found at **Appendix D**.

Estimate TRIP rates

State TRP Figure & Extrapolate Results

Estimated TRIP rate value: 1845 Per 100 sqm

DESCRIPTIVE NOTE ON TRICS FOR DATA RECIPIENTS

NOTE ON TRICS CALCULATION ROUNDINGS

TRIP RATE VALUE PER 100 sqm	No. Days	Ave. GFA	ARRIVALS Total Rate: 6.415 Peak 09:00-10:00	Total: 118,363 Estimated Trip Rate	DEPARTURES Total Rate: 6.331 Peak 17:00-18:00	Total: 116,794 Estimated Trip Rate	TOTALS Total Rate: 12,746 Peak 09:00-10:00	Total: 235,155 Estimated Trip Rate
00:00-07:00			No data available for this period					
07:00-08:00	5	2117	0.198	3.661	0.123	2.266	0.321	5.927
08:00-09:00	5	2117	1.190	21.964	0.274	5.055	1.464	27.019
09:00-10:00	5	2117	1.795	33.121	0.378	6.973	2.173	40.094
10:00-11:00	5	2117	0.624	11.505	0.274	5.055	0.898	16.560
11:00-12:00	5	2117	0.283	5.230	0.293	5.404	0.576	10.634
12:00-13:00	5	2117	0.350	6.450	0.435	8.019	0.785	14.469
13:00-14:00	5	2117	0.510	9.413	0.557	10.285	1.067	19.698
14:00-15:00	5	2117	0.482	8.890	0.368	6.798	0.850	15.688
15:00-16:00	5	2117	0.454	8.367	0.520	9.588	0.974	17.955
16:00-17:00	5	2117	0.302	5.578	0.813	14.991	1.115	20.569
17:00-18:00	5	2117	0.161	2.963	1.691	31.203	1.852	34.166
18:00-19:00	5	2117	0.066	1.220	0.605	11.156	0.671	12.376
19:00-00:00			No data available for this period					

Table 2.1 –Site Vehicle Trip Generation

- 2.4.3 The TRICS database advises that proposals could generate 27 trips in the weekday AM peak, 35 trips in the weekday PM peak with the total number of daily trips over the day amounting to 235.

3. PROPOSED DEVELOPMENT

3.1 Development Composition

- 3.1.1 In summary the development comprises
- no.49 will be split up into terrace 4no. houses, with 2no. Car parking spaces 2no. per house
 - no.49a will be a new-build detached 2-bed house with 2no. Car parking spaces
 - no.51 will be a converted back into a detached 5-bed house with 3no. Car parking spaces



- no.53 will be split into 5no. 2-bed flats over 3 floors with 2no. Car parking spaces per flat
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- Refuse to be collected kerbside for all units as indicated on the plans and internal to the site for all other units with entrance and exit in a forward gear
- MfS compliant visibility splays
- Pedestrian and cycle permeability

3.2 Proposed Trip Generation

3.2.1 In order to determine the potential trip generation of proposals, the standardised trip rates have been taken from the TRICS 8 database. To ensure a robust assessment the search category houses privately owned has been used.

3.2.2 Based on reasonable search criteria, the predicted weekday vehicle trips are summarised below in **Table 3.1**. The full TRICS output can be found at **Appendix D**.

Estimate TRIP rates

State TRP Figure & Extrapolate Results

Estimated TRIP rate value: 18 Per 1 DWELLS

DESCRIPTIVE NOTE ON TRICS FOR DATA RECIPIENTS

NOTE ON TRICS CALCULATION ROUNDINGS

TRIP RATE VALUE PER 1 DWELLS	No. Days	Ave. DWELLS	ARRIVALS Total Rate: 2.274 Peak: 15:00-16:00	Total: 40.923 Estimated Trip Rate	DEPARTURES Total Rate: 2.360 Peak: 08:00-09:00	Total: 42.462 Estimated Trip Rate	TOTALS Total Rate: 4.634 Peak: 08:00-09:00	Total: 83.386 Estimated Trip Rate
00:00-07:00			No data available for this period					
07:00-08:00	6	20	0.103	1.846	0.325	5.846	0.428	7.692
08:00-09:00	6	20	0.222	4.000	0.453	8.154	0.675	12.154
09:00-10:00	6	20	0.128	2.308	0.214	3.846	0.342	6.154
10:00-11:00	6	20	0.077	1.385	0.120	2.154	0.197	3.539
11:00-12:00	6	20	0.171	3.077	0.137	2.462	0.308	5.539
12:00-13:00	6	20	0.188	3.385	0.128	2.308	0.316	5.693
13:00-14:00	6	20	0.162	2.923	0.154	2.769	0.316	5.692
14:00-15:00	6	20	0.171	3.077	0.265	4.769	0.436	7.846
15:00-16:00	6	20	0.325	5.846	0.188	3.385	0.513	9.231
16:00-17:00	6	20	0.239	4.308	0.103	1.846	0.342	6.154
17:00-18:00	6	20	0.291	5.231	0.188	3.385	0.479	8.616
18:00-19:00	6	20	0.197	3.538	0.085	1.538	0.282	5.076
19:00-00:00			No data available for this period					

Table 3.1 –Site Vehicle Trip Generation

3.2.3 The TRICS database advises that proposals could generate 12 trips in the weekday AM peak, 9 trips in the weekday PM peak with the total number of daily trips over the day amounting to 84.

3.3 Impact

3.3.1 Based on the above TRICS data and to the benefit of highway safety, the proposed site will generate significantly less traffic across all periods when compared to the extant land use.

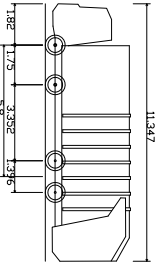


4. CONCLUSION

- 4.1.1 This Transport Statement (TS) has been produced to support a Hybrid application for the redevelopment and renovation of existing site to create within existing buildings: 1No. detached dwellings, 5No. flats, a terrace of 4No. 'key worker' rental properties, and erection 1No. self-build new dwelling together with outline planning for 6No. new detached self-build properties, together with new one-way access road, parking, paths, external landscaping and associated works, photovoltaics, air source heat pumps, and site drainage features.
- 4.1.2 This TS demonstrates that;
- The site is well located to encourage travel by sustainable modes
 - There will be a reduction in car borne trip making
 - All mode parking is provided consistent with guidance
 - Refuse vehicles and emergency vehicles are appropriately catered for
 - Access arrangements have been improved and are consistent with MfS guidance
- 4.1.3 It is concluded therefore that there should be no reason to object to this application on highway grounds.



Appendix A



Large Refuse Vehicle (4 axle)
Overall Length 11.347m
Overall Width 3.392m
Min Body Ground Clearance 0.304m
Track Width 2.500m
Lock to Lock time 6.000m
Wall to Wall turning Radius 11.350m

REV	DATE	REVISION DETAILS	BY



2nd & 3rd Floors | Millgate House | Upper Borough Walls | Bath | BA1 1RG
TELEPHONE : 0117 937 4077

PROJECT TITLE
ROWDEN HILL
CHIPPENHAM

DRAWING TITLE
SWEEP PATH ANALYSIS
LARGE 4 AXLE REFUSE

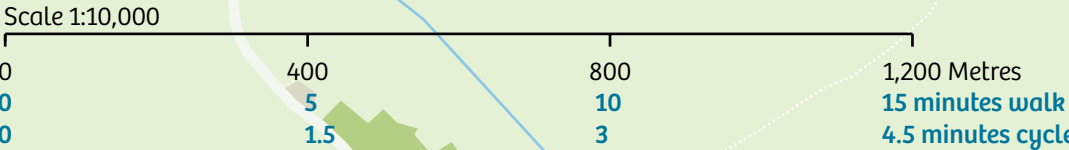
CLIENT / ARCHITECT

STATUS
PRELIMINARY

SCALE	DRAWN	CHECKED	APPROVED	REV
1:500	AT A3	DJA	RVV	-
DRG SIZE	DATE	DRAWING NUMBER		
A3	13.11.25	002		



Appendix B



Key

Cycle way/path (surfaced)

Cycle way/path (unsurfaced)

Recommended cycle route (on road)

403

National Cycle Network

P

Cycle Parking

Pedestrian link (cyclists dismount)

Footpaths

Rail Station

Bus Station

i

Information Centre

Leisure Centre

Police Station

Hospital

Council Offices

Library

Toilets

Higher Education

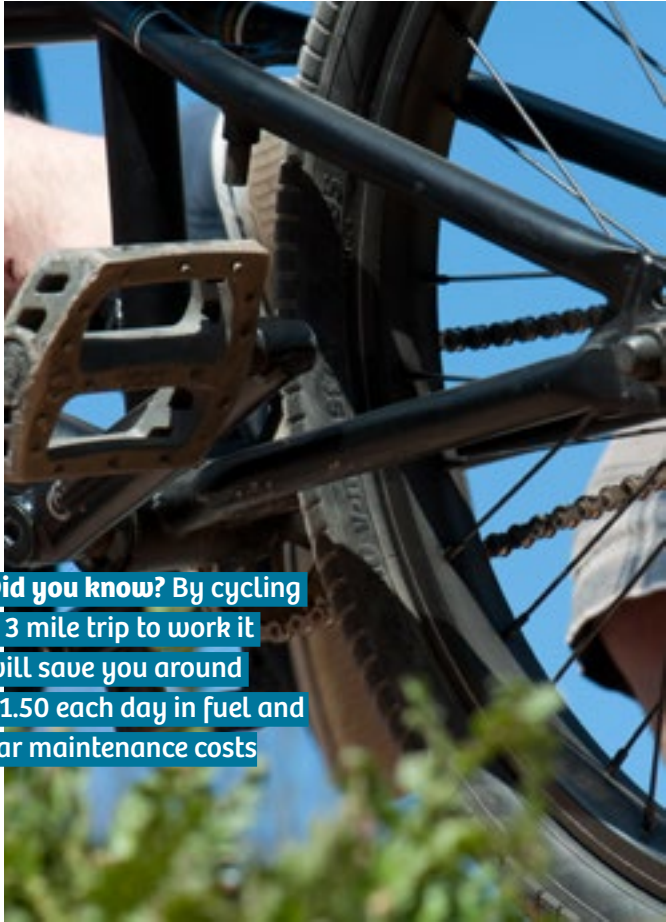
School





Why cycle?

Connecting Wiltshire is trying to encourage more people to cycle, whether it be to work, school, shopping or just for leisure. Not only can it improve your health and fitness, help the environment and beat congestion, but it can also save you money.



Did you know? By cycling a 3 mile trip to work it will save you around £1.50 each day in fuel and car maintenance costs

Cycling is a great way to introduce some exercise into your daily routine. It can also help reduce stress and is a great way to clear your head at the end of the day.

Code of conduct for shared use paths

When you are cycling, please:

- Give way to walkers and wheelchair users and leave them plenty of room.
- Take care around horse riders especially when approaching from behind.
- Be prepared to slow down or stop.
- Don't cycle at excessive speed.
- Be careful at junctions, bends, entrances or any other places where people could appear without warning.
- Don't assume that everyone can see or hear you.
- Use your bell or call out. Don't surprise people. Acknowledge those who give way to you.
- Keep to your side of any dividing line.
- Use lights when it gets dark or in dull weather. Carry a spare set of lights or batteries with you.

When you are walking, please:

- Listen for bells. Bells are not an order for you to get out of the way. They are to make you aware that cyclists are looking for a safe opportunity to pass.
- Allow cyclists to pass when it's safe. Remember cyclists need time to brake and stop.
- Keep your dog under control.
- Keep to your side of any dividing line. Please be tolerant where space is limited.

Keep your bike safe

- Buy a good lock and make sure you always lock the frame of the bike to the parking stand.
- Take removable lights with you.
- A good rule of thumb is that your lock should cost around 10% of the value of your bike, or to look out for 'Sold Secure' ratings.
- You can insure your bike on your home insurance policy or buy specialist cycle cover.
- Make sure you record your cycle frame number which will help you recover it if it's stolen.

Bike Maintenance

There are many friendly bike shops in Wiltshire who can help you keep your bike running smoothly.

Learning some basic bike maintenance is useful for keeping your bike in good condition:

Every time you use your bike

- Check the air pressure in your tyres and pump up if needed.
- Make sure your brakes are working

Weekly (for frequent cyclists)

- Oil your chain

Less frequently

- Oil any moving parts of the bike. Take care not to get oil on your brake pads or wheel rims.
- Check your brake pads for wear. They should contact squarely with the wheel rim not the tyre.
- Check the frame for damage and make sure any bolts are securely tightened.

It is worth making sure you carry some basic equipment with you on any rides such as repair patches, tyre levers and a pump and valve.



Why not try walking?

Walking is a great alternative to many forms of motorised transport. It is a terrific way to explore Wiltshire's many urban centres and take in the sights and sounds on foot. It can leave you feeling refreshed and energised before starting work and it also offers you valuable time to relax and unwind after a hard day in the office.

There are other benefits associated with walking; some of these might encourage you to start walking:

- Guaranteed arrival time
- No parking problems
- Time for you to relax and unwind
- Reduces congestion, good for the environment and your local area
- It is free

How can I make walking more fun?

- Find someone to walk with so you can chat as you walk
- Use an MP3 player so you can listen to your favourite music or podcasts as you go
- Use a pedometer to measure your average daily steps then steadily try to increase the amount

How can I fit walking into my day?

Walking is a great way of taking more exercise each day without having to greatly alter your daily routine. Have you considered....

- Walking to the shops
- Taking a regular walk with a friend
- Leaving the car behind for short journeys
- Walking the kids to school
- Getting off the bus a stop early and walking the rest of the journey
- Using the stairs instead of the lift
- Going for a stroll with family or friends after dinner

Do you only live a couple of miles from work?

Not sure how far it really is? Why not visit www.connectingwiltshire.co.uk to help plan your route, provide a journey time and distance and tell you how many calories you can burn on the way.



Leisure routes

Several of Sustrans' National Cycle Network (NCN) routes pass through Wiltshire:

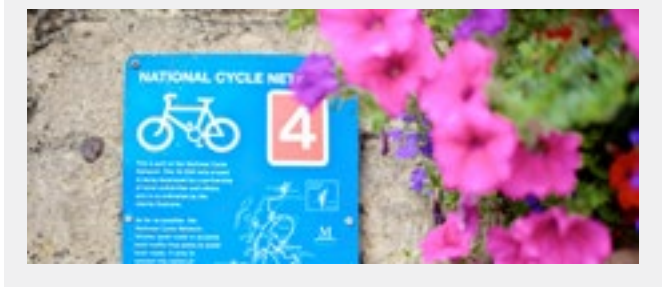
NCN 4 is a long distance route between London and Fishguard via Reading, Bath, Bristol, Newport, Swansea, Carmarthen, Tenby, Haverfordwest and St. Davids.

NCN 24 will run from Bath through Radstock and Frome in Somerset, then Warminster and Salisbury to join with NCN 23 at Eastleigh in Hampshire

NCN 45 will connect Salisbury in Wiltshire with Chester in Cheshire, via Swindon, Cirencester, Gloucester, Worcester and Whitchurch

There are also many local routes. The Wiltshire Cycleway is a circular route passing through many of Wiltshire's towns.

Look for the blue route signs or visit www.connectingwiltshire.co.uk



Time/Distance/Calorie Counter

The times and distances to the right are based on following the recommended cycle routes where possible and with a cycling speed of 10mph (this is an unhurried speed on the flat). If you cycle quicker, your journey time can be even shorter and you can burn more calories.

For time, distance, calorie information and gradient profiles for other cycle journeys, use our journey planner at www.connectingwiltshire.co.uk

	Town centre / Tourist Information	Rail station / Wiltshire College	Wiltshire Council Office (Monkton Park) / Olympiad Leisure Centre	Bus station / Library	Swindon & Wiltshire History Centre	Methuen Park	Bumpers Farm	Langley Park	Hardenhuish School / Sheldon School	Abbeyfield School
Town centre / Tourist Information										
Rail station / Wiltshire College	3 mins 0.50 miles 14 Cals									
Wiltshire Council Office (Monkton Park) / Olympiad Leisure Centre	3 mins 0.50 miles 14 Cals	<1.5 mins <0.25 miles <7 Cals								
Bus station / Library	1.5 mins 0.25 miles 7 Cals	4.5 mins 0.75 miles 21 Cals	3 mins 0.50 miles 14 Cals							
Swindon & Wiltshire History Centre	4.5 mins 0.75 miles 21 Cals	1.5 mins 0.25 miles 7 Cals	1.5 mins 0.25 miles 7 Cals	6 mins 1.0 miles 28 Cals						
Methuen Park	13.5 mins 2.25 miles 63 Cals	13.5 mins 2.25 miles 63 Cals	15 mins 2.5 miles 70 Cals	15 mins 2.5 miles 70 Cals	18 mins 3.0 miles 84 Cals					
Bumpers Farm	10.5 mins 1.75 miles 49 Cals	10.5 mins 1.75 miles 49 Cals	12 mins 2.0 miles 56 Cals	12 mins 2.0 miles 56 Cals	15 mins 2.5 miles 70 Cals	10.5 mins 1.75 miles 49 Cals				
Langley Park	7.5 mins 1.25 miles 35 Cals	7.5 mins 1.25 miles 35 Cals	9 mins 1.50 miles 42 Cals	10.5 mins 1.75 miles 49 Cals	10.5 mins 1.75 miles 49 Cals	16.5 mins 2.75 miles 77 Cals	12 mins 2.0 miles 56 Cals			
Hardenhuish School / Sheldon School	7.5 mins 1.25 miles 35 Cals	9 mins 1.50 miles 42 Cals	9 mins 1.50 miles 42 Cals	9 mins 1.50 miles 42 Cals	7.5 mins 1.25 miles 35 Cals	10.5 mins 1.75 miles 49 Cals	6 mins 1.0 miles 28 Cals	10.5 mins 1.75 miles 49 Cals		
Abbeyfield School	9 mins 1.50 miles 42 Cals	10.5 mins 1.75 miles 49 Cals	9 mins 1.50 miles 42 Cals	9 mins 1.50 miles 42 Cals	10.5 mins 1.75 miles 49 Cals	19.5 mins 3.25 miles 91 Cals	19.5 mins 3.25 miles 91 Cals	15 mins 2.5 miles 70 Cals	18 mins 3.0 miles 84 Cals	

Plan your journey and find information for all travel into and around Wiltshire at www.connectingwiltshire.co.uk. You can look up leisure cycling routes, find local cycling groups and cycle training, report problems on the roads, or find out about taking your bike on trains.

www.connectingwiltshire.co.uk
connectingwiltshire@wiltshire.gov.uk



Stay in the loop

@connectingwilts
 www.facebook.com/connectingwiltshire

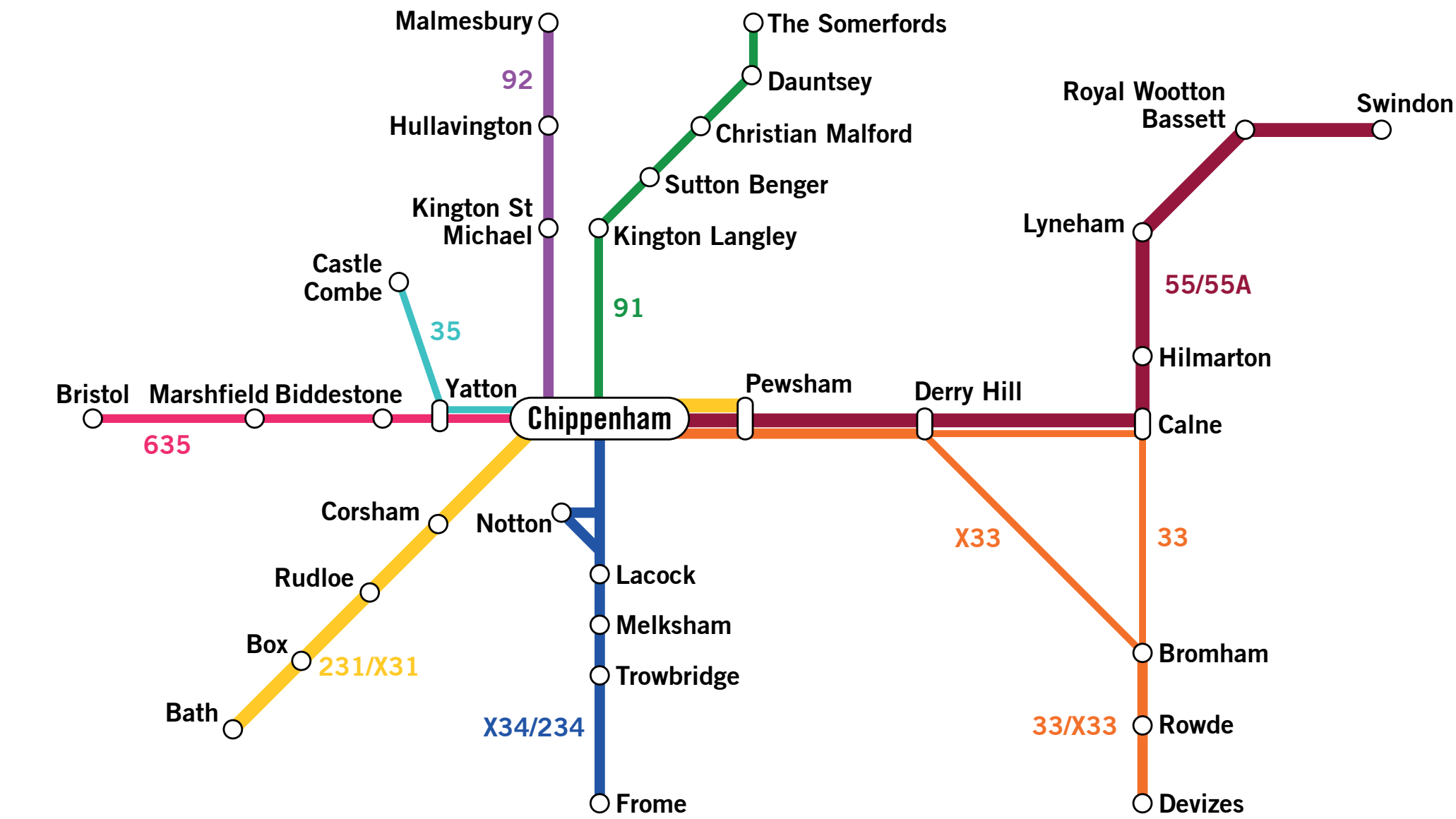


This leaflet has been produced by Steer Davies Gleave on behalf of Wiltshire Council.
Updated by Wiltshire Council - March 2015



Appendix C

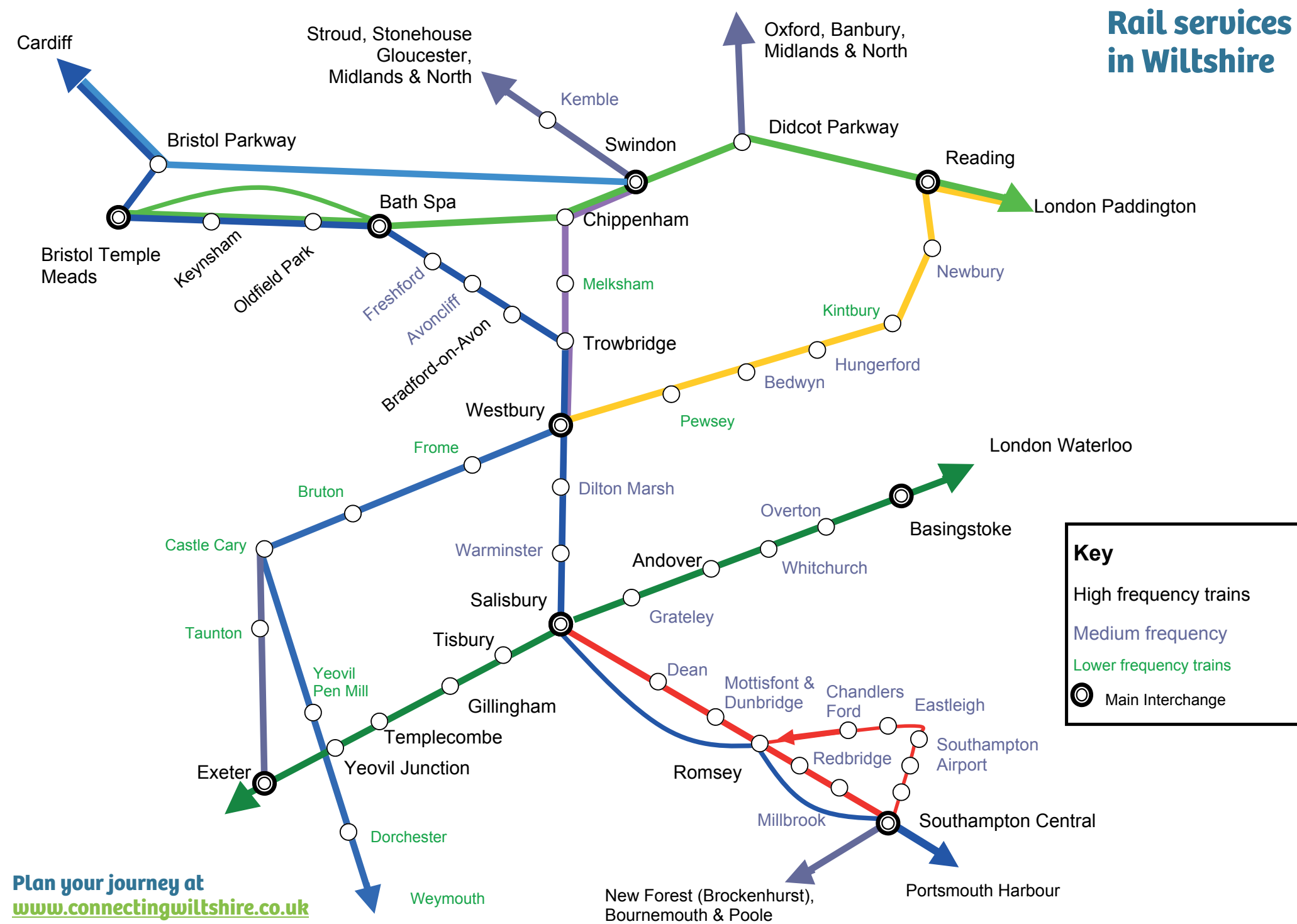
Cross-Country Bus Routes from Chippenham



Typical bus fares in July 2014:
Chippenham Town bus (44A, B,D,M) – £2.80 return,
First Day ticket £7 for journeys to Bath, Frome and Trowbridge
Faresaver Weeksaver tickets £20 for 1 week for journeys to Bristol, Bath, Trowbridge and Frome
Please check the current fares with your bus driver



Bus and Rail map
Chippenham



Rail services in Wiltshire

New TransWilt's rail service

Chippenham to Trowbridge in 25 minutes!
Trains every 2 hours

Day Tickets

Chippenham to Trowbridge anytime day return
only £9 or £5 offpeak.

Season Tickets
Chippenham to Trowbridge via Melksham

Days/months	Price	Average daily price
7 days	£22.00	£4.40
1 month	£84.50	-
3 months	£253.50	-
6 months	£506.90	-
12 months	£880.00	£3.66

For all current ticket prices see www.nationalrail.co.uk

Did you know?

You can find information about bus timetables and season tickets at
www.connectingwiltshire.co.uk
Our new online bus map will be launched later in 2014
Printed bus timetables can be requested at your local Library

Plan your journey by bus, bike, rail, car or walking
Maps, timetables and money-saving tips at:

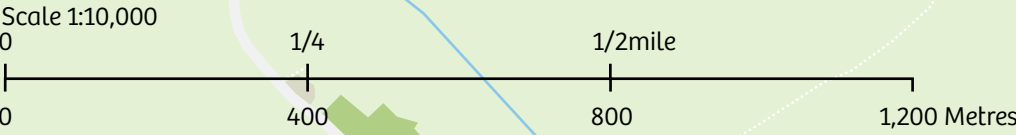


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email:connectingwiltshire@wiltshire.gov.uk



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Key

- | | |
|----------------|-------------|
| Service 33.X33 | Service 91 |
| Service 35 | Service 92 |
| Service 44A | Service 231 |
| Service 44B | Service 234 |
| Service 44D | Service 635 |
| Service 44M | Service 44M |
| Service 55.55A | Service X31 |
| | Service X34 |
- See inset for bus routes
- Bus stops
 - Route operates in direction of arrow shown
 - Footpaths
 - Rail Station
 - Bus Station
 - Information Centre
 - Leisure Centre
 - Police Station
 - Hospital
 - Council Offices
 - Library
 - Toilets
 - Higher Education
 - School





Appendix D

Audit Code: 05dfbb71-c623-4500-8719-8a2f5aa91876

TRIP RATE CALCULATION SELECTION PARAMETERS:

Land Use: 02 - EMPLOYMENT

Category: A - OFFICE

Total Vehicles

Selected regions and areas:

03	SOUTH WEST	
	WL	WILTSHIRE
05	EAST MIDLANDS	
	LN	LINCOLNSHIRE
14	LEINSTER	
	LU	LOUTH
16	ULSTER (REPUBLIC OF IRELAND)	
	CV	CAVAN

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

Audit Code: 05dfbb71-c623-4500-8719-8a2f5aa91876

Primary Filtering Selection:

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

Parameter:	GFA
Actual Range:	1918 to 2500 (units:sqm)
Range Selected by User:	500 to 2500 (units:sqm)
Parking Spaces Range:	0 - 2923

Public Transport Provision:

Selection by:	All Surveys Included
Date Range:	01/01/16 to 27/06/24

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

Selected survey days:

Monday	2 days
Tuesday	2 days
Wednesday	1 days

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

Selected survey types:

Manual count	5
Direction ATC Count	0

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:

Edge of Town	4 days
Suburban Area (PPS6 Out of Centre)	1 days

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	1 days
Development Zone	1 days
Industrial Zone	1 days
No Sub Category	1 days
Residential Zone	1 days

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

Inclusion of Servicing Vehicle Counts:

Servicing vehicles Excluded	3 days
Servicing vehicles Included	2 days

Audit Code: 05dfbb71-c623-4500-8719-8a2f5aa91876

Secondary Filtering Selection:

Use Class:

N/A	1 surveys
Not Known	4 surveys

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

Population within 500m Range:

0 - 0

Population within 1 mile:

1,000 or Less	1 surveys
1,001 to 5,000	1 surveys
10,001 to 15,000	2 surveys
5,001 to 10,000	1 surveys

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

Population within 5 miles:

25,001 to 50,000	2 surveys
5,001 to 25,000	3 surveys

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 surveys
1.1 to 1.5	3 surveys

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.

Audit Code: 05dfbb71-c623-4500-8719-8a2f5aa91876

Petrol filling station:

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	5 surveys
----	-----------

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 surveys
-----------------	-----------

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.

COVID-19 Restrictions:

Yes - At least one survey within the selected data set was undertaken at a time of Covid-19 restrictions

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.

Audit Code: 05dfbb71-c623-4500-8719-8a2f5aa91876

1 DUBLIN ROAD CAVAN PULLAMORE Edge of Town No Sub Category Gross floor area: 2000 sqm Survey date: Tuesday 25/10/2022	CV-02-A-01	OFFICES	CAVAN	Survey Type: Manual
2 LINCOLN WAY LOUTH FAIRFIELD Edge of Town Industrial Zone Gross floor area: 2114 sqm Survey date: Monday 29/04/2024	LN-02-A-01	OFFICES	LINCOLNSHIRE	Survey Type: Manual
3 GRESLEY ROAD LOUTH Suburban Area (PPS6 Out of Centre) Residential Zone Gross floor area: 1918 sqm Survey date: Wednesday 24/04/2024	LN-02-A-02	COUNCIL OFFICES	LINCOLNSHIRE	Survey Type: Manual
4 INNER RELIEF ROAD DUNDALK Edge of Town Commercial Zone Gross floor area: 2052 sqm Survey date: Monday 09/11/2020	LU-02-A-01	BETTING HEADQUARTERS	LOUTH	Survey Type: Manual
5 THE CRESCENT AMESBURY SUNRISE WAY Edge of Town Development Zone Gross floor area: 2500 sqm Survey date: Tuesday 18/09/2018	WL-02-A-01	PET INSURANCE COMPANY	WILTSHIRE	Survey Type: Manual

Audit Code: 05dfbb71-c623-4500-8719-8a2f5aa91876

TRIP RATE for Land Use 02 - EMPLOYMENT/A - OFFICE

Total Vehicles

Calculation factor: 100 sqm

Estimated TRIP rate value per 1845 sqm shown in shaded columns

*BOLD print indicates peak (busiest) period

Time Range	No. Days	Ave. GFA	Arrivals	Estimated Trip Rate	Departures	Estimated Trip Rate	Totals	Estimated 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	5	2117	0.198	3.661	0.123	2.266	0.321	5.927
08:00-09:00	5	2117	1.190	21.964	0.274	5.055	1.464	27.020
09:00-10:00	5	2117	1.795	33.121	0.378	6.973	2.173	40.094
10:00-11:00	5	2117	0.624	11.505	0.274	5.055	0.898	16.560
11:00-12:00	5	2117	0.283	5.230	0.293	5.404	0.576	10.634
12:00-13:00	5	2117	0.350	6.450	0.435	8.019	0.785	14.469
13:00-14:00	5	2117	0.510	9.413	0.557	10.285	1.067	19.698
14:00-15:00	5	2117	0.482	8.890	0.368	6.798	0.850	15.689
15:00-16:00	5	2117	0.454	8.367	0.520	9.588	0.974	17.955
16:00-17:00	5	2117	0.302	5.578	0.813	14.991	1.115	20.570
17:00-18:00	5	2117	0.161	2.963	1.691	31.203	1.852	34.167
18:00-19:00	5	2117	0.066	1.220	0.605	11.156	0.671	12.377
19:00-20:00								
20:00-21:00								
21:00-22:00								
22:00-23:00								
23:00-00:00								
Total Rates:			6.415	118.363	6.331	116.794	12.746	235.157

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

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

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Audit Code: 05dfbb71-c623-4500-8719-8a2f5aa91876

Parameter Summary:

Trip rate parameter range selected:	500 - 2500 (units: sqm)
Survey date date range:	18/09/2018 - 29/04/2024
Number of weekdays (Monday-Friday):	5
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 parameter range of all selected surveys is displayed first, followed by the range of minimum and maximum survey dates selected by the user. Then, the total number of selected weekdays and weekend days in the selected set of surveys are show. Finally, the number of survey days that have been manually removed from the selected set outside of the standard filtering procedure are displayed.

Audit Code: afae7afe-3cf0-4748-bcd5-3020e004bd04

Filtering Summary:

Land Use: 03/A RESIDENTIAL/HOUSES PRIVATELY OWNED

Selected Trip Rate Calculation Parameter Range: 4 - 30 DWELLS

Actual Trip Rate Calculation Parameter Range: N/A DWELLS

Date Range: Minimum: 01/01/2016 Maximum: 17/09/2024

Parking Spaces Range: All Surveys Selected

Parking Spaces Per Dwelling Range: All Surveys Selected

Bedrooms Per Dwelling Range: All Surveys Selected

Percentage of Dwellings Privately Owned: All Surveys Selected

Population Within 500m Range: 750 3091

Days of the week selected:

Thursday	1
Wednesday	5

Main Location Types selected:

Edge of Town	4
Suburban Area (PPS6 Out of Centre)	2

Inclusion of Servicing Vehicles Counts:

Servicing Vehicle Excluded	5
Servicing Vehicles Included	1

Population <1 Mile ranges selected:

1,001 to 5,000	1
10,001 to 15,000	1
15,001 to 20,000	1
20,001 to 25,000	1
5,001 to 10,000	2

Audit Code: afae7afe-3cf0-4748-bcd5-3020e004bd04

Population <5 Mile ranges selected:

25,001 to 50,000	2
5,001 to 25,000	1
50,001 to 75,000	2
75,001 to 100,000	1

Car Ownership <5 Mile ranges selected:

0.6 to 1.0	1
1.1 to 1.5	5

PTAL Rating:

No PTAL Present	6
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Audit Code: afae7afe-3cf0-4748-bcd5-3020e004bd04

TRIP RATE CALCULATION SELECTION PARAMETERS:

Land Use: 03 - RESIDENTIAL

Category: A - HOUSES PRIVATELY OWNED

Total Vehicles

Selected regions and areas:

02	SOUTH EAST		
	KC	KENT	1 day
03	SOUTH WEST		
	DC	DORSET	1 day
04	EAST ANGLIA		
	NF	NORFOLK	1 day
06	WEST MIDLANDS		
	ST	STAFFORDSHIRE	1 day
07	YORKSHIRE & NORTH LINCOLNSHIRE		
	NY	NORTH YORKSHIRE	1 day
08	NORTH WEST		
	AC	CHESHIRE WEST & CHESTER	1 day

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

Audit Code: afae7afe-3cf0-4748-bcd5-3020e004bd04

Primary Filtering Selection:

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

Parameter:	DWELLS
Actual Range:	0.3 to 1.4 (units:DWELLS)
Range Selected by User:	4 to 30 (units:DWELLS)
Parking Spaces Range:	6 - 2696

Public Transport Provision:

Selection by:	All Surveys Included
Date Range:	01/01/16 to 17/09/24

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

Selected survey days:

Thursday	1 days
Wednesday	5 days

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

Selected survey types:

Manual count	6
Direction ATC Count	0

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:

Edge of Town	4 days
Suburban Area (PPS6 Out of Centre)	2 days

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

Selected Location Sub Categories:

Residential Zone	6 days
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This data displays the number of surveys per location sub-category within the selected set. The location sub-categories consist of Commercial Zone, Industrial Zone, Development Zone, Residential Zone, Retail Zone, Built-Up Zone, Village, Out of Town, High Street and No Sub Category.

Inclusion of Servicing Vehicle Counts:

Servicing vehicles Excluded	5 days
Servicing vehicles Included	1 days

Audit Code: afae7afe-3cf0-4748-bcd5-3020e004bd04

Secondary Filtering Selection:

Use Class:

C3	6 surveys
----	-----------

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

Population within 500m Range:

750 - 3091

Population within 1 mile:

1,001 to 5,000	1 surveys
10,001 to 15,000	1 surveys
15,001 to 20,000	1 surveys
20,001 to 25,000	1 surveys
5,001 to 10,000	2 surveys

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

Population within 5 miles:

25,001 to 50,000	2 surveys
5,001 to 25,000	1 surveys
50,001 to 75,000	2 surveys
75,001 to 100,000	1 surveys

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 surveys
1.1 to 1.5	5 surveys

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.

Audit Code: afae7afe-3cf0-4748-bcd5-3020e004bd04

Petrol filling station:

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	4 surveys
Yes	2 surveys

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 surveys
-----------------	-----------

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.

COVID-19 Restrictions:

Yes - At least one survey within the selected data set was undertaken at a time of Covid-19 restrictions

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.

Audit Code: afae7afe-3cf0-4748-bcd5-3020e004bd04

LIST OF SITES relevant to selection parameters:

Site 1:	AC-03-A-04	Site area:	0.5 hect
Development Name:	TOWN HOUSES	Number of dwellings:	24 DWELLS
Location:	NORTHWICH	Housing density:	54.5454545454545
Postcode:	CW9 8RZ	Total Bedrooms:	92
Main Location Type:	Suburban Area (PPS6 Out of Centre)	Survey Date:	06/06/2019
Sub Location Type:	Residential Zone	Survey Day:	Thursday
PTAL:	n/a		
Site 2:	DC-03-A-10	Site area:	1.4 hect
Development Name:	MIXED HOUSES	Number of dwellings:	26 DWELLS
Location:	GILLINGHAM	Housing density:	20.8
Postcode:	SP8 4JS	Total Bedrooms:	77
Main Location Type:	Edge of Town	Survey Date:	09/11/2022
Sub Location Type:	Residential Zone	Survey Day:	Wednesday
PTAL:	n/a		
Site 3:	KC-03-A-09	Site area:	1.11 hect
Development Name:	MIXED HOUSES & FLATS	Number of dwellings:	14 DWELLS
Location:	FAVERSHAM	Housing density:	15.7303370786517
Postcode:	ME13 7FZ	Total Bedrooms:	44
Main Location Type:	Edge of Town	Survey Date:	09/06/2021
Sub Location Type:	Residential Zone	Survey Day:	Wednesday
PTAL:	n/a		
Site 4:	NF-03-A-10	Site area:	0.7 hect
Development Name:	MIXED HOUSES & FLATS	Number of dwellings:	17 DWELLS
Location:	HUNSTANTON	Housing density:	30.9090909090909
Postcode:	PE36 5PS	Total Bedrooms:	41
Main Location Type:	Edge of Town	Survey Date:	12/09/2018
Sub Location Type:	Residential Zone	Survey Day:	Wednesday
PTAL:	n/a		
Site 5:	NY-03-A-13	Site area:	0.3 hect
Development Name:	TERRACED HOUSES	Number of dwellings:	10 DWELLS
Location:	CATTERICK GARRISON	Housing density:	33.3333333333333
Postcode:	DL9 4SB	Total Bedrooms:	32
Main Location Type:	Suburban Area (PPS6 Out of Centre)	Survey Date:	10/05/2017
Sub Location Type:	Residential Zone	Survey Day:	Wednesday
PTAL:	n/a		
Site 6:	ST-03-A-08	Site area:	0.8 hect
Development Name:	DETACHED HOUSES	Number of dwellings:	26 DWELLS
Location:	STAFFORD	Housing density:	36.6197183098592
Postcode:	ST17 4JS	Total Bedrooms:	90
Main Location Type:	Edge of Town	Survey Date:	22/11/2017
Sub Location Type:	Residential Zone	Survey Day:	Wednesday
PTAL:	n/a		

DESELECTED SURVEYS

Site Ref	Survey Date	Reason for Deselection
CC-03-A-01	25-05-2016	na
DN-03-A-06	10-10-2018	na

Audit Code: afae7afe-3cf0-4748-bcd5-3020e004bd04

TRIP RATE for Land Use 03 - RESIDENTIAL/A - HOUSES PRIVATELY OWNED

Total Vehicles

Calculation factor: 1 DWELLS

Estimated TRIP rate value per 18 DWELLS shown in shaded columns

*BOLD print indicates peak (busiest) period

Period	Trips per 1 DWELLS DWELLS		
	Inbound	Outbound	Total
08:00-09:00	0.222	0.453	0.675
17:00-18:00	0.291	0.188	0.479

Time Range	No. Days	Ave. DWELLS	Arrivals	Estimated Trip Rate	Departures	Estimated Trip Rate	Totals	Estimated Trip Rate
00:00-01:00								
01:00-02:00								
02:00-03:00								
03:00-04:00								
04:00-05:00								
05:00-06:00								
06:00-07:00								
07:00-08:00	6	20	0.103	1.846	0.325	5.846	0.428	7.692
08:00-09:00	6	20	0.222	4.000	0.453	8.154	0.675	12.154
09:00-10:00	6	20	0.128	2.308	0.214	3.846	0.342	6.154
10:00-11:00	6	20	0.077	1.385	0.120	2.154	0.197	3.538
11:00-12:00	6	20	0.171	3.077	0.137	2.462	0.308	5.538
12:00-13:00	6	20	0.188	3.385	0.128	2.308	0.316	5.692
13:00-14:00	6	20	0.162	2.923	0.154	2.769	0.316	5.692
14:00-15:00	6	20	0.171	3.077	0.265	4.769	0.436	7.846
15:00-16:00	6	20	0.325	5.846	0.188	3.385	0.513	9.231
16:00-17:00	6	20	0.239	4.308	0.103	1.846	0.342	6.154
17:00-18:00	6	20	0.291	5.231	0.188	3.385	0.479	8.615
18:00-19:00	6	20	0.197	3.538	0.085	1.538	0.282	5.077
19:00-20:00								
20:00-21:00								
21:00-22:00								
22:00-23:00								
23:00-00:00								
Total Rates:			2.274	40.923	2.360	42.462	4.634	83.385

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

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

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Audit Code: afae7afe-3cf0-4748-bcd5-3020e004bd04

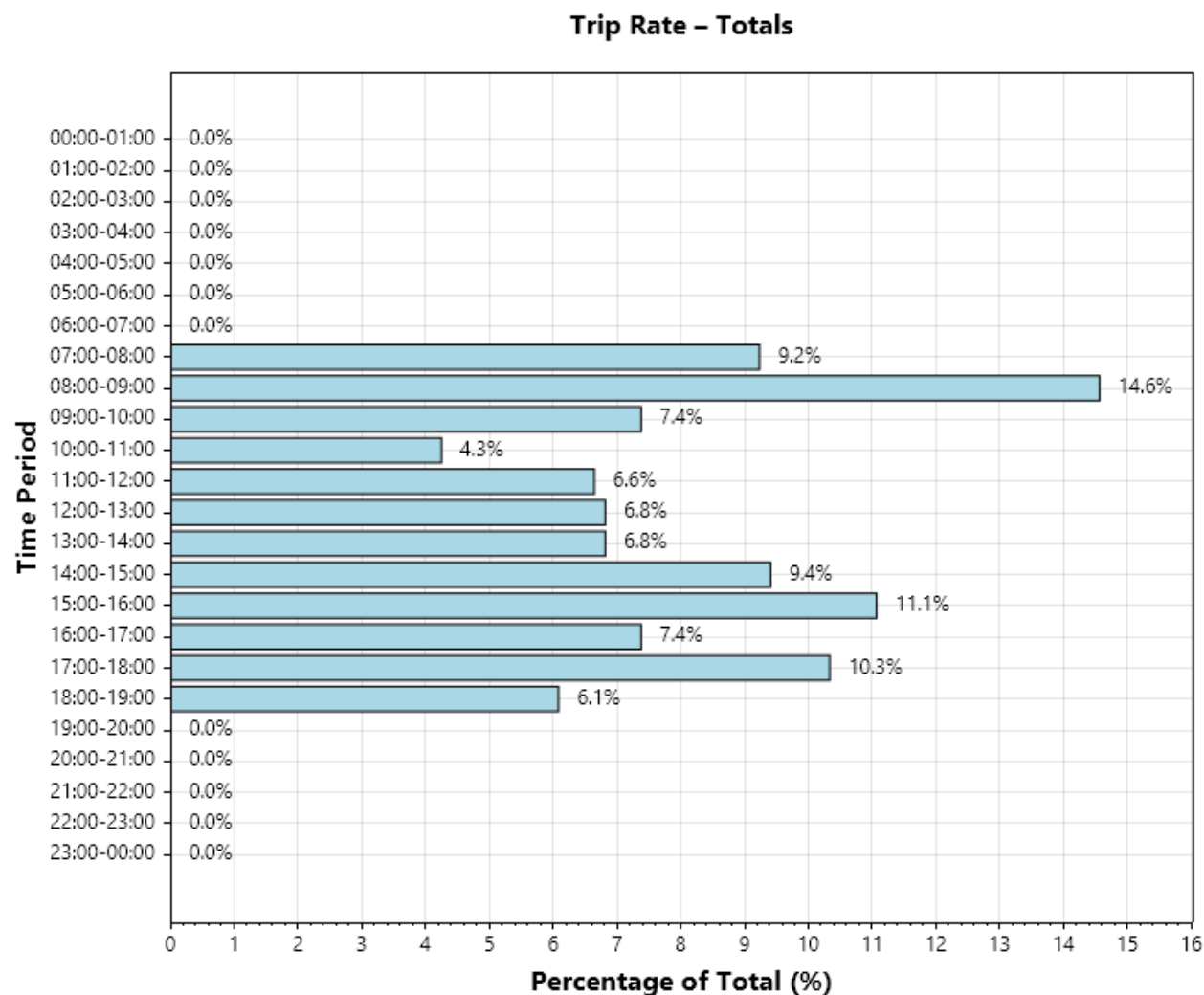
Parameter Summary:

Trip rate parameter range selected:	4 - 30 (units: DWELLS)
Survey date date range:	10/05/2017 - 09/11/2022
Number of weekdays (Monday-Friday):	6
Number of Saturdays:	0
Number of Sundays:	0
Surveys automatically removed from selection:	2
Surveys manually removed from selection:	0

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

Audit Code: afae7afe-3cf0-4748-bcd5-3020e004bd04

Trip Rate Total Vehicles - Totals



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

Generated on: 2025-09-17 13:37