

Technical Note: Highways

Proposed Residential Development

Cumberworth Lane, Denby Dale

May 2022



This Technical Note has been written in order to provide traffic generation estimates for vehicles associated with a forthcoming planning application for a residential development which will benefit from a new vehicular access point off Cumberworth Lane, Denby Dale.

The TRICS database has been used to predict the total vehicle traffic generations (the output files are attached) for all vehicles and additionally HGV trips only. The most recent proposed site plan contains a total of 49 units and the following assessments have been based on this figure. Due to the type of traffic a residential development attracts, the level of HGV traffic the proposed site will generate is minimal.

Table 1 shows the daily flows for all vehicles whilst Table 2 shows HGV daily traffic generation and the percentage of HGV traffic with regard to the total vehicular trip generation.

TABLE 1. TOTAL DAILY VEHICLE TRAFFIC GENERATION

	Arrivals	Departures	Two-way
Daily	109	112	222

TABLE 2. HGV DAILY TRAFFIC GENERATION

	Arrivals	Departures	Two-way
Daily	1	1	2
Proportion	1%	1%	1%

Calculation Reference: AUDIT-407201-220506-0553

TRIP RATE CALCULATION SELECTION PARAMETERS:

Land Use : 03 - RESIDENTIAL
 Category : A - HOUSES PRIVATELY OWNED
 TOTAL VEHICLES

Selected regions and areas:

02	SOUTH EAST	
	ES EAST SUSSEX	1 days
	EX ESSEX	1 days
	HC HAMPSHIRE	3 days
	HF HERTFORDSHIRE	1 days
	IW ISLE OF WIGHT	1 days
	KC KENT	2 days
	SC SURREY	1 days
	WS WEST SUSSEX	5 days
03	SOUTH WEST	
	DC DORSET	1 days
	DV DEVON	2 days
	SM SOMERSET	3 days
	WL WILTSHIRE	1 days
04	EAST ANGLIA	
	CA CAMBRIDGESHIRE	1 days
	NF NORFOLK	3 days
	SF SUFFOLK	2 days
05	EAST MIDLANDS	
	LE LEICESTERSHIRE	1 days
06	WEST MIDLANDS	
	SH SHROPSHIRE	1 days
	ST STAFFORDSHIRE	1 days
	WK WARWICKSHIRE	1 days
	WM WEST MIDLANDS	1 days
07	YORKSHIRE & NORTH LINCOLNSHIRE	
	NY NORTH YORKSHIRE	1 days
	WY WEST YORKSHIRE	1 days
08	NORTH WEST	
	CH CHESHIRE	3 days
	GM GREATER MANCHESTER	1 days
09	NORTH	
	DH DURHAM	2 days
10	WALES	
	PS POWYS	1 days
	VG VALE OF GLAMORGAN	1 days
11	SCOTLAND	
	HI HIGHLAND	1 days

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

Primary Filtering selection:

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

Parameter: No of Dwellings
Actual Range: 10 to 195 (units:)
Range Selected by User: 5 to 200 (units:)

Parking Spaces Range: All Surveys Included

Parking Spaces per Dwelling Range: All Surveys Included

Bedrooms per Dwelling Range: All Surveys Included

Percentage of dwellings privately owned: All Surveys Included

Public Transport Provision:

Selection by: Include all surveys

Date Range: 01/01/14 to 01/03/20

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	8 days
Wednesday	12 days
Thursday	13 days

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

Selected survey types:

Manual count 44 days

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

Selected Locations:

Suburban Area (PPS6 Out of Centre)	13
Edge of Town	21
Neighbourhood Centre (PPS6 Local Centre)	9
Free Standing (PPS6 Out of Town)	1

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

Selected Location Sub Categories:

Residential Zone	38
Village	5
Out of Town	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 Sub Category.

Secondary Filtering selection:

Use Class:

C3 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 500m Range:

All Surveys Included

Secondary Filtering selection (Cont.):

Population within 1 mile:

1,001 to 5,000	6 days
5,001 to 10,000	10 days
10,001 to 15,000	9 days
15,001 to 20,000	8 days
20,001 to 25,000	4 days
25,001 to 50,000	6 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	5 days
25,001 to 50,000	5 days
50,001 to 75,000	8 days
75,001 to 100,000	9 days
100,001 to 125,000	1 days
125,001 to 250,000	11 days
250,001 to 500,000	4 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	9 days
1.1 to 1.5	33 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	13 days
No	31 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	43 days
2 Poor	1 days

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

LIST OF SITES relevant to selection parameters

1	CA-03-A-05 EASTFIELD ROAD PETERBOROUGH	DETACHED HOUSES		CAMBRI DGESHI RE
	Suburban Area (PPS6 Out of Centre) Residential Zone			
	Total No of Dwellings:		28	
	<i>Survey date: MONDAY</i>		<i>17/10/16</i>	<i>Survey Type: MANUAL</i>
2	CH-03-A-09 GREYSTOKE ROAD MACCLESFIELD HURDSFIELD	TERRACED HOUSES		CHESHIRE
	Edge of Town Residential Zone			
	Total No of Dwellings:		24	
	<i>Survey date: MONDAY</i>		<i>24/11/14</i>	<i>Survey Type: MANUAL</i>
3	CH-03-A-10 MEADOW DRIVE NORTHWICH BARNTON	SEMI -DETACHED & TERRACED		CHESHIRE
	Edge of Town Residential Zone			
	Total No of Dwellings:		40	
	<i>Survey date: TUESDAY</i>		<i>04/06/19</i>	<i>Survey Type: MANUAL</i>
4	CH-03-A-11 LONDON ROAD NORTHWICH LEFTWICH	TOWN HOUSES		CHESHIRE
	Suburban Area (PPS6 Out of Centre) Residential Zone			
	Total No of Dwellings:		24	
	<i>Survey date: THURSDAY</i>		<i>06/06/19</i>	<i>Survey Type: MANUAL</i>
5	DC-03-A-08 HURSTDENE ROAD BOURNEMOUTH CASTLE LANE WEST	BUNGALOWS		DORSET
	Edge of Town Residential Zone			
	Total No of Dwellings:		28	
	<i>Survey date: MONDAY</i>		<i>24/03/14</i>	<i>Survey Type: MANUAL</i>
6	DH-03-A-01 GREENFIELDS ROAD BISHOP AUCKLAND	SEMI DETACHED		DURHAM
	Suburban Area (PPS6 Out of Centre) Residential Zone			
	Total No of Dwellings:		50	
	<i>Survey date: TUESDAY</i>		<i>28/03/17</i>	<i>Survey Type: MANUAL</i>
7	DH-03-A-02 LEAZES LANE BISHOP AUCKLAND ST HELEN AUCKLAND	MIXED HOUSES		DURHAM
	Neighbourhood Centre (PPS6 Local Centre) Residential Zone			
	Total No of Dwellings:		125	
	<i>Survey date: MONDAY</i>		<i>27/03/17</i>	<i>Survey Type: MANUAL</i>
8	DV-03-A-01 BRONSHILL ROAD TORQUAY	TERRACED HOUSES		DEVON
	Suburban Area (PPS6 Out of Centre) Residential Zone			
	Total No of Dwellings:		37	
	<i>Survey date: WEDNESDAY</i>		<i>30/09/15</i>	<i>Survey Type: MANUAL</i>

LIST OF SITES relevant to selection parameters (Cont.)

9	DV-03-A-03 LOWER BRAND LANE HONITON	TERRACED & SEMI DETACHED	DEVON
	Suburban Area (PPS6 Out of Centre) Residential Zone Total No of Dwellings: 70 <i>Survey date: MONDAY 28/09/15</i>		
10	ES-03-A-05 RATTLE ROAD NEAR EASTBOURNE STONE CROSS	MIXED HOUSES & FLATS	EAST SUSSEX
	Edge of Town Residential Zone Total No of Dwellings: 99 <i>Survey date: WEDNESDAY 05/06/19</i>		
11	EX-03-A-02 MANOR ROAD CHIGWELL GRANGE HILL	DETACHED & SEMI -DETACHED	ESSEX
	Edge of Town Residential Zone Total No of Dwellings: 97 <i>Survey date: MONDAY 27/11/17</i>		
12	GM-03-A-11 RUSHFORD STREET MANCHESTER LEVENSHULME	TERRACED & SEMI -DETACHED	GREATER MANCHESTER
	Neighbourhood Centre (PPS6 Local Centre) Residential Zone Total No of Dwellings: 37 <i>Survey date: MONDAY 26/09/16</i>		
13	HC-03-A-21 PRIESTLEY ROAD BASINGSTOKE HOUNDMILLS	TERRACED & SEMI -DETACHED	HAMPSHIRE
	Edge of Town Residential Zone Total No of Dwellings: 39 <i>Survey date: TUESDAY 13/11/18</i>		
14	HC-03-A-22 BOW LAKE GARDENS NEAR EASTLEIGH BISHOPSTOKE	MIXED HOUSES	HAMPSHIRE
	Edge of Town Residential Zone Total No of Dwellings: 40 <i>Survey date: WEDNESDAY 31/10/18</i>		
15	HC-03-A-23 CANADA WAY LIPHOOK	HOUSES & FLATS	HAMPSHIRE
	Suburban Area (PPS6 Out of Centre) Residential Zone Total No of Dwellings: 62 <i>Survey date: TUESDAY 19/11/19</i>		

LIST OF SITES relevant to selection parameters (Cont.)

16	HF-03-A-03 HARE STREET ROAD BUNTINGFORD	MIXED HOUSES	HERTFORDSHIRE
	Edge of Town Residential Zone Total No of Dwellings: 160 <i>Survey date: MONDAY 08/07/19</i>		<i>Survey Type: MANUAL</i>
17	HI-03-A-14 KING BRUDE ROAD INVERNESS SCORGUIE	SEMI-DETACHED & TERRACED	HIGHLAND
	Suburban Area (PPS6 Out of Centre) Residential Zone Total No of Dwellings: 40 <i>Survey date: WEDNESDAY 23/03/16</i>		<i>Survey Type: MANUAL</i>
18	IW-03-A-01 MEDHAM FARM LANE NEAR COWES MEDHAM	DETACHED HOUSES	ISLE OF WIGHT
	Free Standing (PPS6 Out of Town) Out of Town Total No of Dwellings: 72 <i>Survey date: TUESDAY 25/06/19</i>		<i>Survey Type: MANUAL</i>
19	KC-03-A-03 HYTHE ROAD ASHFORD WILLESBOROUGH	MIXED HOUSES & FLATS	KENT
	Suburban Area (PPS6 Out of Centre) Residential Zone Total No of Dwellings: 51 <i>Survey date: THURSDAY 14/07/16</i>		<i>Survey Type: MANUAL</i>
20	KC-03-A-08 MAIDSTONE ROAD CHARING	MIXED HOUSES	KENT
	Neighbourhood Centre (PPS6 Local Centre) Village Total No of Dwellings: 159 <i>Survey date: TUESDAY 22/05/18</i>		<i>Survey Type: MANUAL</i>
21	LE-03-A-02 MELBOURNE ROAD IBSTOCK	DETACHED & OTHERS	LEICESTERSHIRE
	Neighbourhood Centre (PPS6 Local Centre) Village Total No of Dwellings: 85 <i>Survey date: THURSDAY 28/06/18</i>		<i>Survey Type: MANUAL</i>
22	NF-03-A-03 HALING WAY THETFORD	DETACHED HOUSES	NORFOLK
	Edge of Town Residential Zone Total No of Dwellings: 10 <i>Survey date: WEDNESDAY 16/09/15</i>		<i>Survey Type: MANUAL</i>

LIST OF SITES relevant to selection parameters (Cont.)

23	NF-03-A-04	MIXED HOUSES		NORFOLK
	NORTH WALSHAM ROAD NORTH WALSHAM			
	Edge of Town Residential Zone			
	Total No of Dwellings:	70		
	<i>Survey date: WEDNESDAY</i>		<i>18/09/19</i>	<i>Survey Type: MANUAL</i>
24	NF-03-A-05	MIXED HOUSES		NORFOLK
	HEATH DRIVE HOLT			
	Edge of Town Residential Zone			
	Total No of Dwellings:	40		
	<i>Survey date: THURSDAY</i>		<i>19/09/19</i>	<i>Survey Type: MANUAL</i>
25	NY-03-A-13	TERRACED HOUSES		NORTH YORKSHIRE
	CATTERICK ROAD CATTERICK GARRISON OLD HOSPITAL COMPOUND Suburban Area (PPS6 Out of Centre) Residential Zone			
	Total No of Dwellings:	10		
	<i>Survey date: WEDNESDAY</i>		<i>10/05/17</i>	<i>Survey Type: MANUAL</i>
26	PS-03-A-02	DETACHED/SEMI-DETACHED		POWYS
	GUNROG ROAD WELSHPOOL			
	Suburban Area (PPS6 Out of Centre) Residential Zone			
	Total No of Dwellings:	28		
	<i>Survey date: MONDAY</i>		<i>11/05/15</i>	<i>Survey Type: MANUAL</i>
27	SC-03-A-04	DETACHED & TERRACED		SURREY
	HIGH ROAD BYFLEET			
	Edge of Town Residential Zone			
	Total No of Dwellings:	71		
	<i>Survey date: THURSDAY</i>		<i>23/01/14</i>	<i>Survey Type: MANUAL</i>
28	SF-03-A-05	DETACHED HOUSES		SUFFOLK
	VALE LANE BURY ST EDMUNDS			
	Edge of Town Residential Zone			
	Total No of Dwellings:	18		
	<i>Survey date: WEDNESDAY</i>		<i>09/09/15</i>	<i>Survey Type: MANUAL</i>
29	SF-03-A-07	MIXED HOUSES		SUFFOLK
	FOXHALL ROAD IPSWICH			
	Suburban Area (PPS6 Out of Centre) Residential Zone			
	Total No of Dwellings:	73		
	<i>Survey date: THURSDAY</i>		<i>09/05/19</i>	<i>Survey Type: MANUAL</i>
30	SH-03-A-06	BUNGALOWS		SHROPSHIRE
	ELLESMERE ROAD SHREWSBURY			
	Edge of Town Residential Zone			
	Total No of Dwellings:	16		
	<i>Survey date: THURSDAY</i>		<i>22/05/14</i>	<i>Survey Type: MANUAL</i>

LIST OF SITES relevant to selection parameters (Cont.)

39	WS-03-A-04	MIXED HOUSES		WEST SUSSEX
	HILLS FARM LANE			
	HORSHAM			
	BROADBRIDGE HEATH			
	Edge of Town			
	Residential Zone			
	Total No of Dwellings:		151	
	Survey date: THURSDAY		11/12/14	Survey Type: MANUAL
40	WS-03-A-07	BUNGALOWS		WEST SUSSEX
	EMMS LANE			
	NEAR HORSHAM			
	BROOKS GREEN			
	Neighbourhood Centre (PPS6 Local Centre)			
	Village			
	Total No of Dwellings:		57	
	Survey date: THURSDAY		19/10/17	Survey Type: MANUAL
41	WS-03-A-08	MIXED HOUSES		WEST SUSSEX
	ROUNDSTONE LANE			
	ANGMERING			
	Edge of Town			
	Residential Zone			
	Total No of Dwellings:		180	
	Survey date: THURSDAY		19/04/18	Survey Type: MANUAL
42	WS-03-A-09	MIXED HOUSES & FLATS		WEST SUSSEX
	LITTLEHAMPTON ROAD			
	WORTHING			
	WEST DURRINGTON			
	Edge of Town			
	Residential Zone			
	Total No of Dwellings:		195	
	Survey date: THURSDAY		05/07/18	Survey Type: MANUAL
43	WS-03-A-10	MIXED HOUSES		WEST SUSSEX
	TODDINGTON LANE			
	LITTLEHAMPTON			
	WICK			
	Edge of Town			
	Residential Zone			
	Total No of Dwellings:		79	
	Survey date: WEDNESDAY		07/11/18	Survey Type: MANUAL
44	WY-03-A-01	MIXED HOUSING		WEST YORKSHIRE
	SPRING VALLEY CRESCENT			
	LEEDS			
	BRAMLEY			
	Neighbourhood Centre (PPS6 Local Centre)			
	Residential Zone			
	Total No of Dwellings:		46	
	Survey date: WEDNESDAY		21/09/16	Survey Type: MANUAL

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

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

TOTAL VEHICLES

Calculation factor: 1 DWELLS

BOLD print indicates peak (busiest) period

Time Range	ARRIVALS			DEPARTURES			TOTALS		
	No. Days	Ave. DWELLS	Trip Rate	No. Days	Ave. DWELLS	Trip Rate	No. Days	Ave. DWELLS	Trip Rate
00:00 - 01:00									
01:00 - 02:00									
02:00 - 03:00									
03:00 - 04:00									
04:00 - 05:00									
05:00 - 06:00									
06:00 - 07:00									
07:00 - 08:00	44	60	0.068	44	60	0.281	44	60	0.349
08:00 - 09:00	44	60	0.127	44	60	0.323	44	60	0.450
09:00 - 10:00	44	60	0.155	44	60	0.174	44	60	0.329
10:00 - 11:00	44	60	0.134	44	60	0.174	44	60	0.308
11:00 - 12:00	44	60	0.138	44	60	0.164	44	60	0.302
12:00 - 13:00	44	60	0.158	44	60	0.150	44	60	0.308
13:00 - 14:00	44	60	0.167	44	60	0.162	44	60	0.329
14:00 - 15:00	44	60	0.161	44	60	0.193	44	60	0.354
15:00 - 16:00	44	60	0.246	44	60	0.168	44	60	0.414
16:00 - 17:00	44	60	0.253	44	60	0.148	44	60	0.401
17:00 - 18:00	44	60	0.286	44	60	0.142	44	60	0.428
18:00 - 19:00	44	60	0.245	44	60	0.142	44	60	0.387
19:00 - 20:00	1	97	0.062	1	97	0.052	1	97	0.114
20:00 - 21:00	1	97	0.031	1	97	0.021	1	97	0.052
21:00 - 22:00									
22:00 - 23:00									
23:00 - 24:00									
Total Rates:			2.231			2.294			4.525

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

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

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Parameter summary

Trip rate parameter range selected: 10 - 195 (units:)
 Survey date range: 01/01/14 - 01/03/20
 Number of weekdays (Monday-Friday): 44
 Number of Saturdays: 0
 Number of Sundays: 0
 Surveys automatically removed from selection: 4
 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 shown. Finally, the number of survey days that have been manually removed from the selected set outside of the standard filtering procedure are displayed.

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

OGVS

Calculation factor: 1 DWELLS

BOLD print indicates peak (busiest) period

Time Range	ARRIVALS			DEPARTURES			TOTALS		
	No. Days	Ave. DWELLS	Trip Rate	No. Days	Ave. DWELLS	Trip Rate	No. Days	Ave. DWELLS	Trip Rate
00:00 - 01:00									
01:00 - 02:00									
02:00 - 03:00									
03:00 - 04:00									
04:00 - 05:00									
05:00 - 06:00									
06:00 - 07:00									
07:00 - 08:00	44	60	0.002	44	60	0.001	44	60	0.003
08:00 - 09:00	44	60	0.002	44	60	0.002	44	60	0.004
09:00 - 10:00	44	60	0.005	44	60	0.005	44	60	0.010
10:00 - 11:00	44	60	0.003	44	60	0.003	44	60	0.006
11:00 - 12:00	44	60	0.003	44	60	0.003	44	60	0.006
12:00 - 13:00	44	60	0.002	44	60	0.003	44	60	0.005
13:00 - 14:00	44	60	0.003	44	60	0.003	44	60	0.006
14:00 - 15:00	44	60	0.002	44	60	0.002	44	60	0.004
15:00 - 16:00	44	60	0.002	44	60	0.002	44	60	0.004
16:00 - 17:00	44	60	0.000	44	60	0.001	44	60	0.001
17:00 - 18:00	44	60	0.002	44	60	0.001	44	60	0.003
18:00 - 19:00	44	60	0.001	44	60	0.001	44	60	0.002
19:00 - 20:00	1	97	0.000	1	97	0.000	1	97	0.000
20:00 - 21:00	1	97	0.000	1	97	0.000	1	97	0.000
21:00 - 22:00									
22:00 - 23:00									
23:00 - 24:00									
Total Rates:			0.027			0.027			0.054

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.