

Appendix A – Novartis Brighton University (Horsham Town South of Parsonage Road) Trip Generation Analysis

Brighton University, Novartis site at Horsham

Vehicular Trip Generation Comparison

University

	AM Arr	Dep	2-Way	PM Arr	Dep	2-Way	Daily Arr	Dep	2-Way
Rate	0.042	0.012	0.054	0.009	0.019	0.028	0.147	0.15	0.297
Students	3451	3451	3451	3451	3451	3451	3451	3451	3451
Trips	144.9	41.4	186.4	31.1	65.6	96.6	507.3	517.7	1024.9

Student accommodation

	AM Arr	Dep	2-Way	PM Arr	Dep	2-Way	Daily Arr	Dep	2-Way
Rate	0.014	0.01	0.024	0.014	0.014	0.028	0.189	0.201	0.39
Students	1319	1319	1319	1319	1319	1319	1319	1319	1319
Trips	18.5	13.2	31.7	18.5	18.5	36.9	249.3	265.1	514.4

Industrial

	AM Arr	Dep	2-Way	PM Arr	Dep	2-Way	Daily Arr	Dep	2-Way
Rate	0.074	0.03	0.104	0.017	0.077	0.094	0.685	0.74	1.425
Jobs	500	500	500	500	500	500	500	500	500
Trips	37.0	15.0	52.0	8.5	38.5	47.0	342.5	370.0	712.5

Office

	AM Arr	Dep	2-Way	PM Arr	Dep	2-Way	Daily Arr	Dep	2-Way
Rate	0.19	0.026	0.216	0.022	0.168	0.19	0.729	0.697	1.426
Jobs	500	500	500	500	500	500	500	500	500
Trips	95.0	13.0	108.0	11.0	84.0	95.0	364.5	348.5	713.0

Previous Use: B1/B2 combined

Trips	132.0	28.0	160.0	19.5	122.5	142.0	707.0	718.5	1425.5
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Proposed Use: Internalisation

Assume 50% of student accommodation trips are internal to campus and swap to walk mode

	AM Arr	Dep	2-Way	PM Arr	Dep	2-Way	Daily Arr	Dep	2-Way
Remaining Accom Trips	9.2	6.6	15.8	9.2	9.2	18.5	124.6	132.6	257.2
Deducted trips	9.2	6.6	15.8	9.2	9.2	18.5	124.6	132.6	257.2
Remaining Uni trips	135.7	34.8	170.5	21.8	56.3	78.2	382.7	385.1	767.7
Total Proposed Use	144.9	41.4	186.4	31.1	65.6	96.6	507.3	517.7	1024.9

Net Trip Generator	12.9	13.4	26.4	11.6	-56.9	-45.4	-199.7	-200.9	-400.6
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TRICS selections

All edge of town centre sites in default date range in GB excluding site at Fort William as pop within 5 miles under 25000

Edge of Town centre in GB

Suburban sites over 50 employees in GB
(no edge of town centre site with 50 employees available within TRICS database)

Edge of Town Centre over 100 employees in GB
Local population with 5 miles under 500,000

Calculation Reference: AUDIT-746001-150316-0309

TRIP RATE CALCULATION SELECTION PARAMETERS:

Land Use : 02 - EMPLOYMENT
Category : A - OFFICE
VEHICLES

Selected regions and areas:

02	SOUTH EAST	
	BD BEDFORDSHIRE	1 days
	ES EAST SUSSEX	1 days
	KC KENT	3 days
	SO SLOUGH	1 days
03	SOUTH WEST	
	CW CORNWALL	1 days
	DC DORSET	2 days
04	EAST ANGLIA	
	CA CAMBRIDGESHIRE	1 days
	NF NORFOLK	1 days
	SF SUFFOLK	1 days
08	NORTH WEST	
	LC LANCASHIRE	1 days
10	WALES	
	SW SWANSEA	2 days

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

Filtering Stage 2 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 Employees
Actual Range: 121 to 2139 (units:)
Range Selected by User: 100 to 9500 (units:)

Public Transport Provision:

Selection by: Include all surveys

Date Range: 01/01/06 to 27/02/14

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	3 days
Tuesday	2 days
Wednesday	2 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	15 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:

Edge of Town Centre	15
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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
Development Zone	2

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

Filtering Stage 3 selection:

Use Class:

A1	1 days
B1	14 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
10,001 to 15,000	3 days
15,001 to 20,000	4 days
25,001 to 50,000	7 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	2 days
125,001 to 250,000	10 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
1.1 to 1.5	11 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	8 days
No	7 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.

LIST OF SITES relevant to selection parameters

1	BD-02-A-03 BROMHAM ROAD	OFFICES		BEDFORDSHIRE
	BEDFORD			
	Edge of Town Centre			
	No Sub Category			
	Total Number of Employees:	240		
	Survey date: MONDAY	14/10/13		Survey Type: MANUAL
2	CA-02-A-03 NEW ROAD	OFFICE		CAMBRIDGESHIRE
	PETERBOROUGH			
	Edge of Town Centre			
	Built-Up Zone			
	Total Number of Employees:	452		
	Survey date: THURSDAY	08/05/08		Survey Type: MANUAL
3	CW-02-A-02 TRINITY STREET	INLAND REVENUE		CORNWALL
	ST AUSTELL			
	Edge of Town Centre			
	Built-Up Zone			
	Total Number of Employees:	477		
	Survey date: FRIDAY	08/06/07		Survey Type: MANUAL
4	DC-02-A-08 STATION APPROACH	OFFICE		DORSET
	DORCHESTER			
	Edge of Town Centre			
	No Sub Category			
	Total Number of Employees:	121		
	Survey date: THURSDAY	03/07/08		Survey Type: MANUAL
5	DC-02-A-09 THE GROVE	COUNCIL OFFICES		DORSET
	DORCHESTER			
	Edge of Town Centre			
	Built-Up Zone			
	Total Number of Employees:	2088		
	Survey date: MONDAY	28/11/11		Survey Type: MANUAL
6	ES-02-A-10 VICARAGE LANE	DISTRICT COUNCIL		EAST SUSSEX
	HAILSHAM			
	Edge of Town Centre			
	Built-Up Zone			
	Total Number of Employees:	322		
	Survey date: TUESDAY	24/09/13		Survey Type: MANUAL

LIST OF SITES relevant to selection parameters (Cont.)

7	KC-02-A-09	COUNCIL OFFICES		KENT
	SANDLING ROAD			
	MAIDSTONE			
	Edge of Town Centre			
	Built-Up Zone			
	Total Number of Employees:	200		
	Survey date: WEDNESDAY	19/10/11	Survey Type: MANUAL	
8	KC-02-A-10	COUNCIL OFFICES		KENT
	SANDLING ROAD			
	MAIDSTONE			
	Edge of Town Centre			
	Built-Up Zone			
	Total Number of Employees:	430		
	Survey date: WEDNESDAY	19/10/11	Survey Type: MANUAL	
9	KC-02-A-11	COUNTY HALL		KENT
	SANDLING ROAD			
	MAIDSTONE			
	Edge of Town Centre			
	Built-Up Zone			
	Total Number of Employees:	2139		
	Survey date: MONDAY	17/10/11	Survey Type: MANUAL	
10	LC-02-A-08	COUNCIL OFFICES		LANCASHIRE
	UNION STREET			
	CHORLEY			
	Edge of Town Centre			
	Retail Zone			
	Total Number of Employees:	184		
	Survey date: TUESDAY	13/06/06	Survey Type: MANUAL	
11	NF-02-A-01	COUNCIL OFFICE		NORFOLK
	CHAPEL STREET			
	KING'S LYNN			
	Edge of Town Centre			
	Built-Up Zone			
	Total Number of Employees:	408		
	Survey date: THURSDAY	30/09/10	Survey Type: MANUAL	
12	SF-02-A-02	OFFICES		SUFFOLK
	BATH STREET			
	IPSWICH			
	Edge of Town Centre			
	Commercial Zone			
	Total Number of Employees:	218		
	Survey date: FRIDAY	19/07/13	Survey Type: MANUAL	

LIST OF SITES relevant to selection parameters (Cont.)

13	SO-02-A-02 BATH ROAD	COUNCIL OFFICES		SLOUGH
	SLOUGH			
	Edge of Town Centre			
	Built-Up Zone			
	Total Number of Employees:	800		
	Survey date: THURSDAY	27/02/14		Survey Type: MANUAL
14	SW-02-A-01 LANGDON ROAD	OFFICES		SWANSEA
	SWANSEA			
	Edge of Town Centre			
	Development Zone			
	Total Number of Employees:	1221		
	Survey date: FRIDAY	25/10/13		Survey Type: MANUAL
15	SW-02-A-02 KINGS ROAD	OFFICE		SWANSEA
	SWANSEA			
	Edge of Town Centre			
	Development Zone			
	Total Number of Employees:	155		
	Survey date: THURSDAY	24/10/13		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 02 - EMPLOYMENT/A - OFFICE
VEHICLES

Calculation factor: 1 EMPLOY

BOLD print indicates peak (busiest) period

Time Range	ARRIVALS			DEPARTURES			TOTALS		
	No. Days	Ave. EMPLOY	Trip Rate	No. Days	Ave. EMPLOY	Trip Rate	No. Days	Ave. EMPLOY	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	15	630	0.087	15	630	0.011	15	630	0.098
08:00 - 09:00	15	630	0.190	15	630	0.026	15	630	0.216
09:00 - 10:00	15	630	0.138	15	630	0.036	15	630	0.174
10:00 - 11:00	15	630	0.058	15	630	0.036	15	630	0.094
11:00 - 12:00	15	630	0.048	15	630	0.042	15	630	0.090
12:00 - 13:00	15	630	0.038	15	630	0.042	15	630	0.080
13:00 - 14:00	15	630	0.045	15	630	0.041	15	630	0.086
14:00 - 15:00	15	630	0.041	15	630	0.043	15	630	0.084
15:00 - 16:00	15	630	0.030	15	630	0.055	15	630	0.085
16:00 - 17:00	15	630	0.027	15	630	0.142	15	630	0.169
17:00 - 18:00	15	630	0.022	15	630	0.168	15	630	0.190
18:00 - 19:00	15	630	0.005	15	630	0.055	15	630	0.060
19:00 - 20:00									
20:00 - 21:00									
21:00 - 22:00									
22:00 - 23:00									
23:00 - 24:00									
Total Rates:			0.729			0.697			1.426

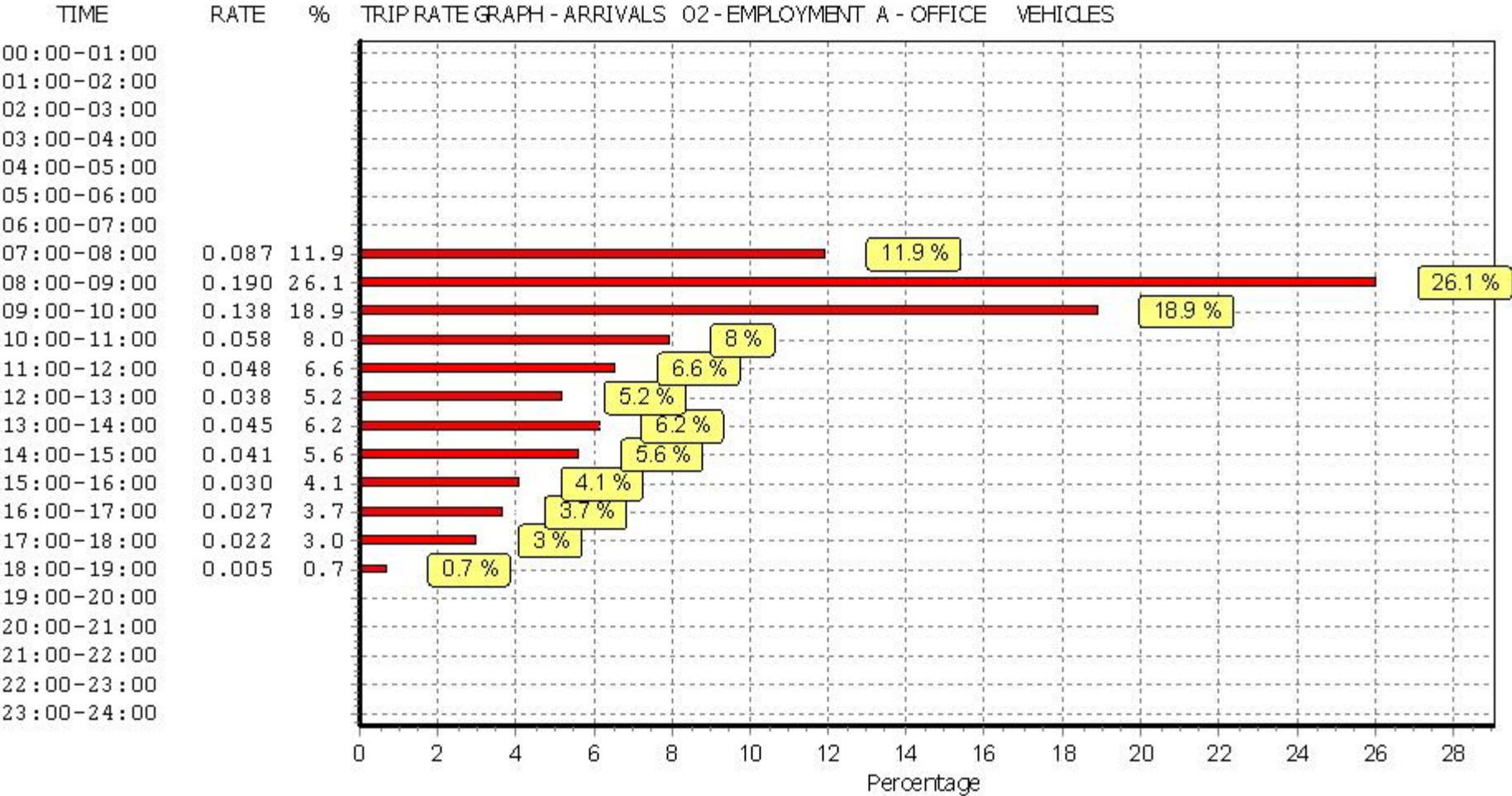
This section displays the trip rate results based on the selected set of surveys and the selected count type (shown just above the table). It is split by three main columns, representing arrivals trips, departures trips, and total trips (arrivals plus departures). Within each of these main columns are 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.

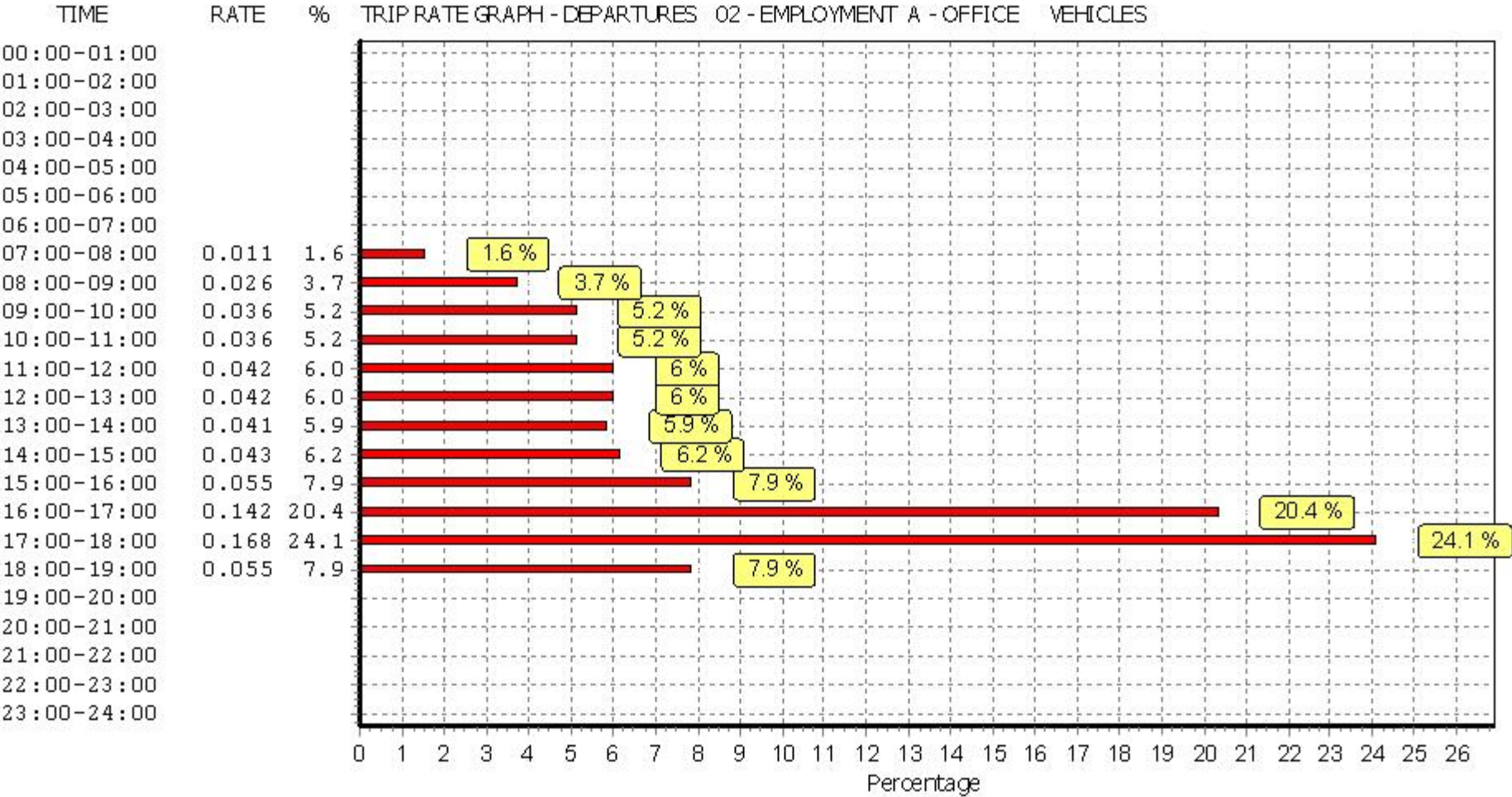
Parameter summary

Trip rate parameter range selected: 121 - 2139 (units:)
 Survey date range: 01/01/06 - 27/02/14
 Number of weekdays (Monday-Friday): 15
 Number of Saturdays: 0
 Number of Sundays: 0
 Surveys manually removed from selection: 5

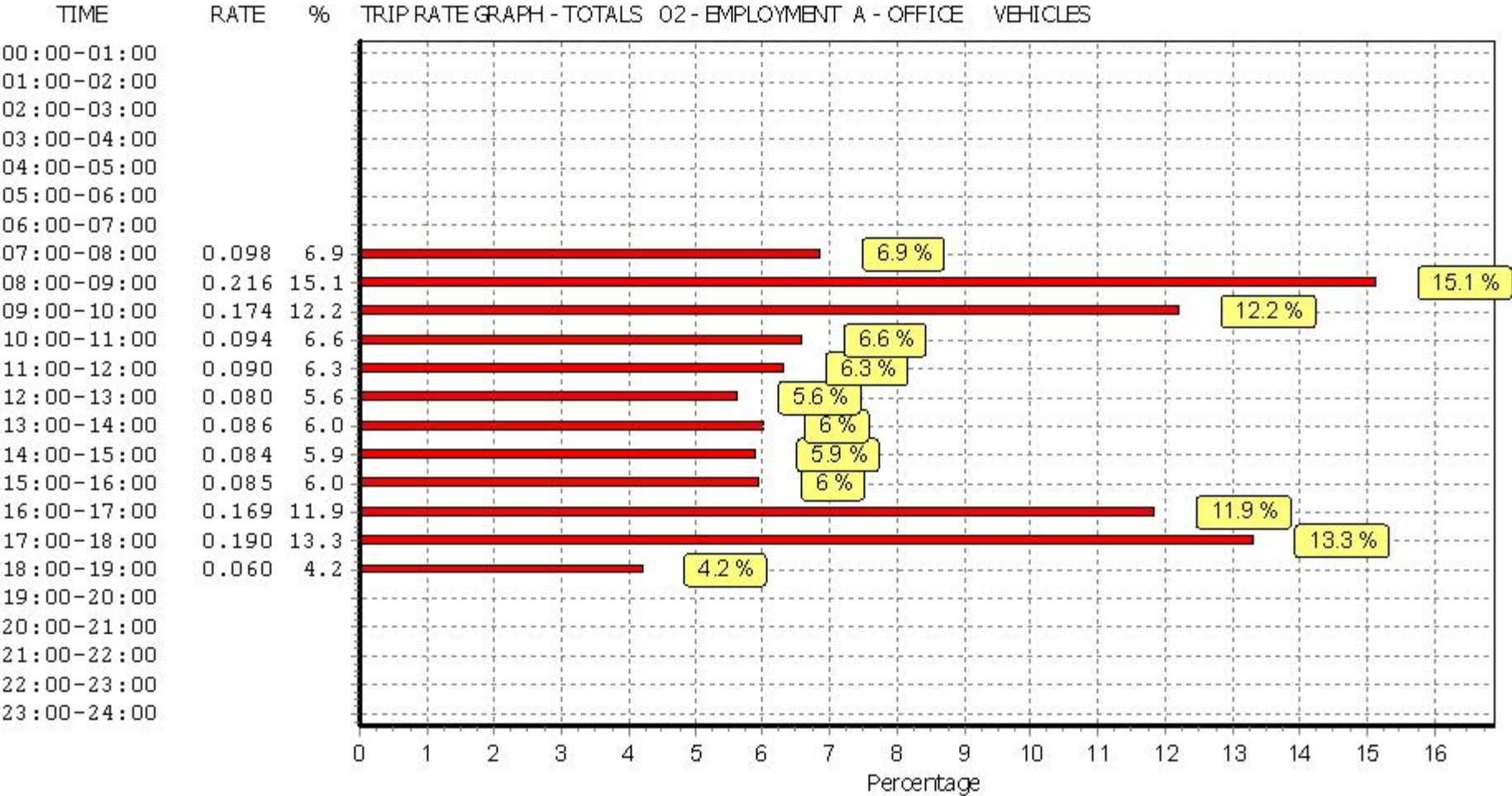
This section displays a quick summary of some of the data filtering selections made by the TRICS® user. The trip rate calculation parameter range of all selected surveys is displayed first, followed by the range of minimum and maximum survey dates selected by the user. Then, the total number of selected 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.



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.



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Calculation Reference: AUDIT-746001-150316-0315

TRIP RATE CALCULATION SELECTION PARAMETERS:

Land Use : 02 - EMPLOYMENT
Category : C - INDUSTRIAL UNIT
VEHICLES

Selected regions and areas:

01	GREATER LONDON	
	HD HILLINGDON	1 days
03	SOUTH WEST	
	CW CORNWALL	1 days
06	WEST MIDLANDS	
	WM WEST MIDLANDS	1 days
11	SCOTLAND	
	FI FIFE	1 days

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

Filtering Stage 2 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 Employees
Actual Range:	64 to 575 (units:)
Range Selected by User:	50 to 1250 (units:)

Public Transport Provision:

Selection by:	Include all surveys
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Date Range: 01/01/06 to 23/01/14

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:

Tuesday	1 days
Friday	3 days

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

Selected survey types:

Manual count	4 days
Directional ATC Count	0 days

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

Selected Locations:

Suburban Area (PPS6 Out of Centre)	4
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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	4
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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.

Filtering Stage 3 selection:

Use Class:

B1 4 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
10,001 to 15,000 1 days
15,001 to 20,000 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
75,001 to 100,000 1 days
125,001 to 250,000 1 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:

0.6 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 4 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.

LIST OF SITES relevant to selection parameters

1	CW-02-C-01 WILSON WAY POOL CAMBORNE Suburban Area (PPS6 Out of Centre) Industrial Zone Total Number of Employees: 575 Survey date: FRIDAY 08/06/07	FOOD DISTRIBUTION	CORNWALL	Survey Type: MANUAL
2	FI-02-C-01 HALBEATH PLACE DUNFERMLINE Suburban Area (PPS6 Out of Centre) Industrial Zone Total Number of Employees: 64 Survey date: FRIDAY 20/04/07	REFRIGERATION	FIFE	Survey Type: MANUAL
3	HD-02-C-01 PUMP LANE HAYES Suburban Area (PPS6 Out of Centre) Industrial Zone Total Number of Employees: 177 Survey date: FRIDAY 11/05/12	TARMAC PRODUCTION	HILLINGDON	Survey Type: MANUAL
4	WM-02-C-01 FORGE LANE MINWORTH SUTTON COLDFIELD Suburban Area (PPS6 Out of Centre) Industrial Zone Total Number of Employees: 80 Survey date: TUESDAY 25/11/08	METAL BEARINGS	WEST MIDLANDS	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 02 - EMPLOYMENT/C - INDUSTRIAL UNIT
VEHICLES

Calculation factor: 1 EMPLOY

BOLD print indicates peak (busiest) period

Time Range	ARRIVALS			DEPARTURES			TOTALS		
	No. Days	Ave. EMPLOY	Trip Rate	No. Days	Ave. EMPLOY	Trip Rate	No. Days	Ave. EMPLOY	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	4	224	0.118	4	224	0.042	4	224	0.160
08:00 - 09:00	4	224	0.074	4	224	0.030	4	224	0.104
09:00 - 10:00	4	224	0.059	4	224	0.049	4	224	0.108
10:00 - 11:00	4	224	0.045	4	224	0.045	4	224	0.090
11:00 - 12:00	4	224	0.047	4	224	0.045	4	224	0.092
12:00 - 13:00	4	224	0.059	4	224	0.076	4	224	0.135
13:00 - 14:00	4	224	0.124	4	224	0.065	4	224	0.189
14:00 - 15:00	4	224	0.049	4	224	0.144	4	224	0.193
15:00 - 16:00	4	224	0.040	4	224	0.047	4	224	0.087
16:00 - 17:00	4	224	0.037	4	224	0.096	4	224	0.133
17:00 - 18:00	4	224	0.017	4	224	0.077	4	224	0.094
18:00 - 19:00	3	277	0.016	3	277	0.024	3	277	0.040
19:00 - 20:00									
20:00 - 21:00									
21:00 - 22:00									
22:00 - 23:00									
23:00 - 24:00									
Total Rates:		0.685			0.740			1.425	

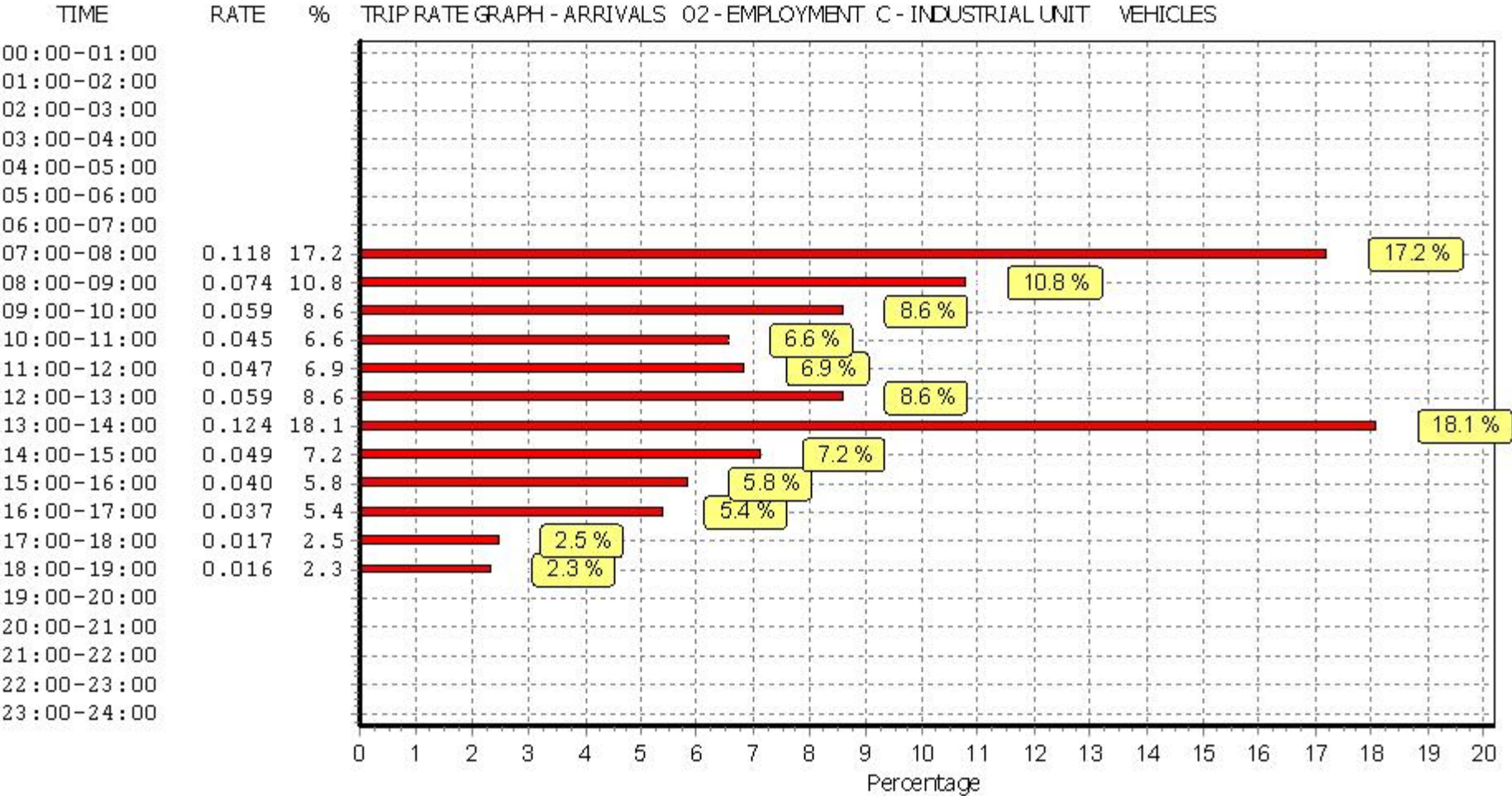
This section displays the trip rate results based on the selected set of surveys and the selected count type (shown just above the table). It is split by three main columns, representing arrivals trips, departures trips, and total trips (arrivals plus departures). Within each of these main columns are 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.

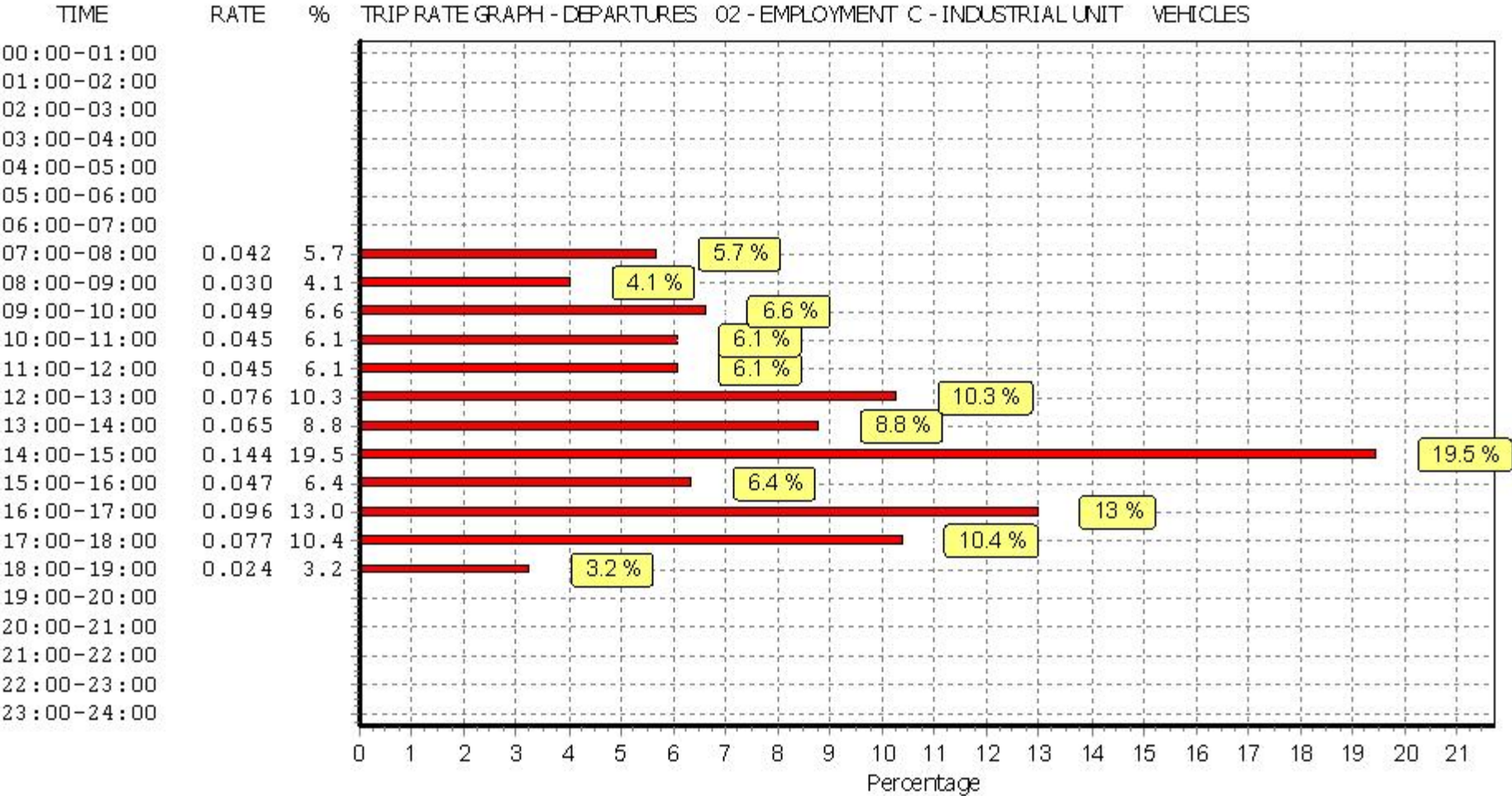
Parameter summary

Trip rate parameter range selected: 64 - 575 (units:)
 Survey date range: 01/01/06 - 23/01/14
 Number of weekdays (Monday-Friday): 4
 Number of Saturdays: 0
 Number of Sundays: 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 shown. Finally, the number of survey days that have been manually removed from the selected set outside of the standard filtering procedure are displayed.

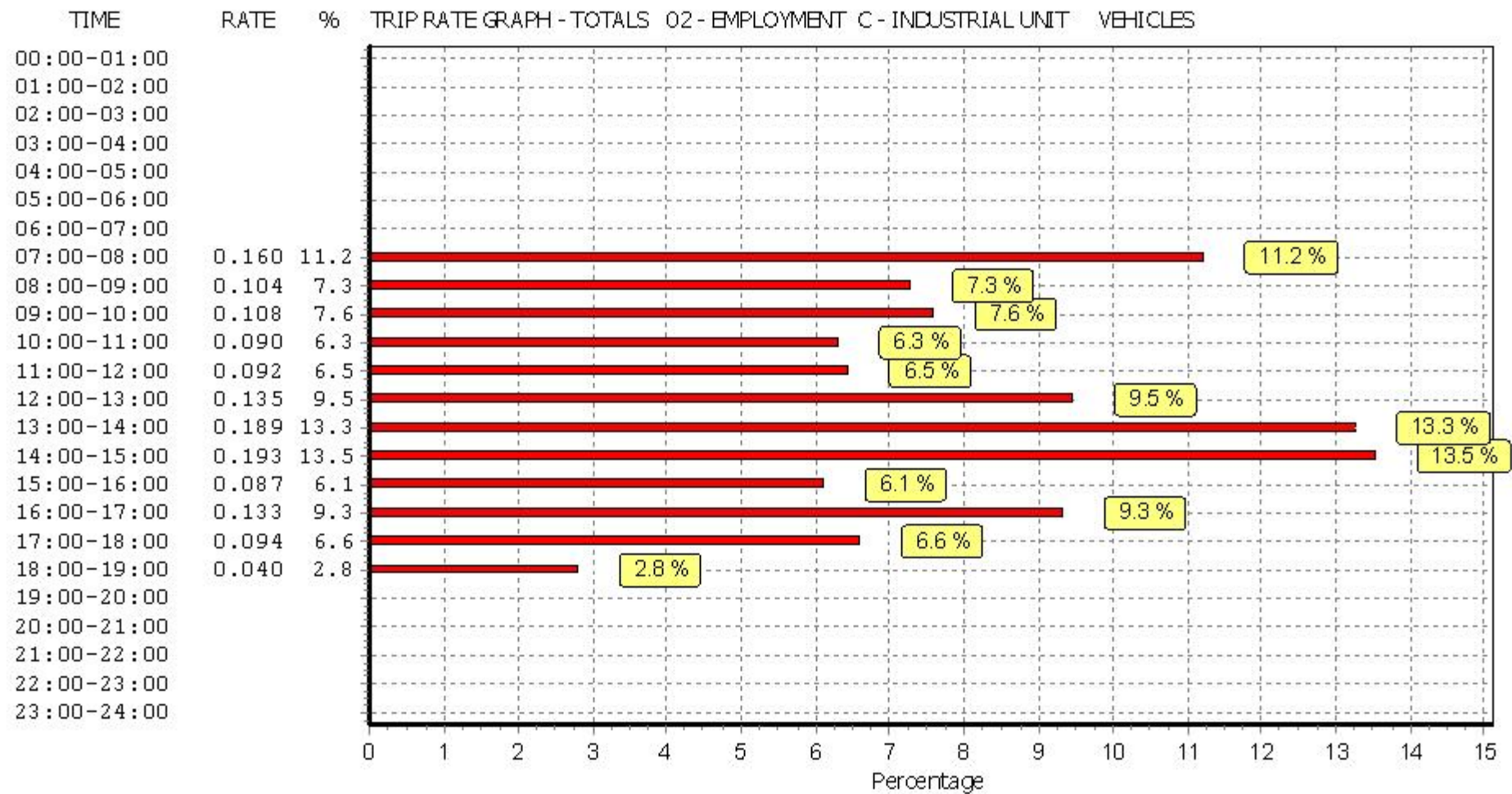


This graph is a visual representation of the trip rate calculation results screen. The same time periods and trip rates are displayed, but in addition there is an additional column showing the percentage of the total trip rate by individual time period, allowing peak periods to be easily identified through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



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.

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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.

Calculation Reference: AUDIT-746001-150316-0302

TRIP RATE CALCULATION SELECTION PARAMETERS:

Land Use : 03 - RESIDENTIAL
 Category : G - STUDENT ACCOMMODATION
 VEHICLES

Selected regions and areas:

01	GREATER LONDON	
	IS ISLINGTON	1 days
03	SOUTH WEST	
	DV DEVON	1 days
06	WEST MIDLANDS	
	WK WARWICKSHIRE	1 days
07	YORKSHIRE & NORTH LINCOLNSHIRE	
	WY WEST YORKSHIRE	2 days

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

Filtering Stage 2 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 residents
 Actual Range: 15 to 370 (units:)
 Range Selected by User: 15 to 1700 (units:)

Public Transport Provision:

Selection by: Include all surveys

Date Range: 01/01/06 to 17/10/13

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:

Wednesday	1 days
Thursday	1 days
Friday	3 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

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 Centre	5
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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	1
Built-Up Zone	4

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.

Filtering Stage 3 selection:

Use Class:

C3

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:

1,001 to 5,000

1 days

10,001 to 15,000

1 days

20,001 to 25,000

2 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

100,001 to 125,000

1 days

125,001 to 250,000

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

1 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:

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.

LIST OF SITES relevant to selection parameters

1	DV-03-G-03 BONHAY ROAD	STUDENT ACCOMMODATION	DEVON
	EXETER Edge of Town Centre Residential Zone		
	Total Number of residents:	56	
	Survey date: FRIDAY	07/10/11	Survey Type: MANUAL
2	IS-03-G-01 OLD STREET	STUDENT FLATS	ISLINGTON
	ST LUKE'S Edge of Town Centre Built-Up Zone		
	Total Number of residents:	146	
	Survey date: FRIDAY	07/12/12	Survey Type: MANUAL
3	WK-03-G-02 RAGLAN STREET	STUDENT FLATS	WARWICKSHIRE
	COVENTRY Edge of Town Centre Built-Up Zone		
	Total Number of residents:	197	
	Survey date: THURSDAY	17/10/13	Survey Type: MANUAL
4	WY-03-G-01 KINGS MILL LANE ASPLEY HUDDERSFIELD	STUDENT FLATS	WEST YORKSHIRE
	Edge of Town Centre Built-Up Zone		
	Total Number of residents:	370	
	Survey date: WEDNESDAY	13/09/06	Survey Type: MANUAL
5	WY-03-G-02 BANKFIELD ROAD FOLLY HALL HUDDERSFIELD	STUDENT FLATS	WEST YORKSHIRE
	Edge of Town Centre Built-Up Zone		
	Total Number of residents:	15	
	Survey date: FRIDAY	03/11/06	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/G - STUDENT ACCOMMODATION
VEHICLES

Calculation factor: 1 RESIDE

BOLD print indicates peak (busiest) period

Time Range	ARRIVALS			DEPARTURES			TOTALS		
	No. Days	Ave. RESIDE	Trip Rate	No. Days	Ave. RESIDE	Trip Rate	No. Days	Ave. RESIDE	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	157	0.001	5	157	0.004	5	157	0.005
08:00 - 09:00	5	157	0.014	5	157	0.010	5	157	0.024
09:00 - 10:00	5	157	0.006	5	157	0.010	5	157	0.016
10:00 - 11:00	5	157	0.010	5	157	0.009	5	157	0.019
11:00 - 12:00	5	157	0.011	5	157	0.009	5	157	0.020
12:00 - 13:00	5	157	0.017	5	157	0.015	5	157	0.032
13:00 - 14:00	5	157	0.013	5	157	0.014	5	157	0.027
14:00 - 15:00	5	157	0.011	5	157	0.014	5	157	0.025
15:00 - 16:00	5	157	0.019	5	157	0.014	5	157	0.033
16:00 - 17:00	5	157	0.018	5	157	0.019	5	157	0.037
17:00 - 18:00	5	157	0.014	5	157	0.014	5	157	0.028
18:00 - 19:00	5	157	0.010	5	157	0.014	5	157	0.024
19:00 - 20:00	1	197	0.015	1	197	0.015	1	197	0.030
20:00 - 21:00	1	197	0.015	1	197	0.020	1	197	0.035
21:00 - 22:00	1	197	0.015	1	197	0.020	1	197	0.035
22:00 - 23:00									
23:00 - 24:00									
Total Rates:		0.189			0.201			0.390	

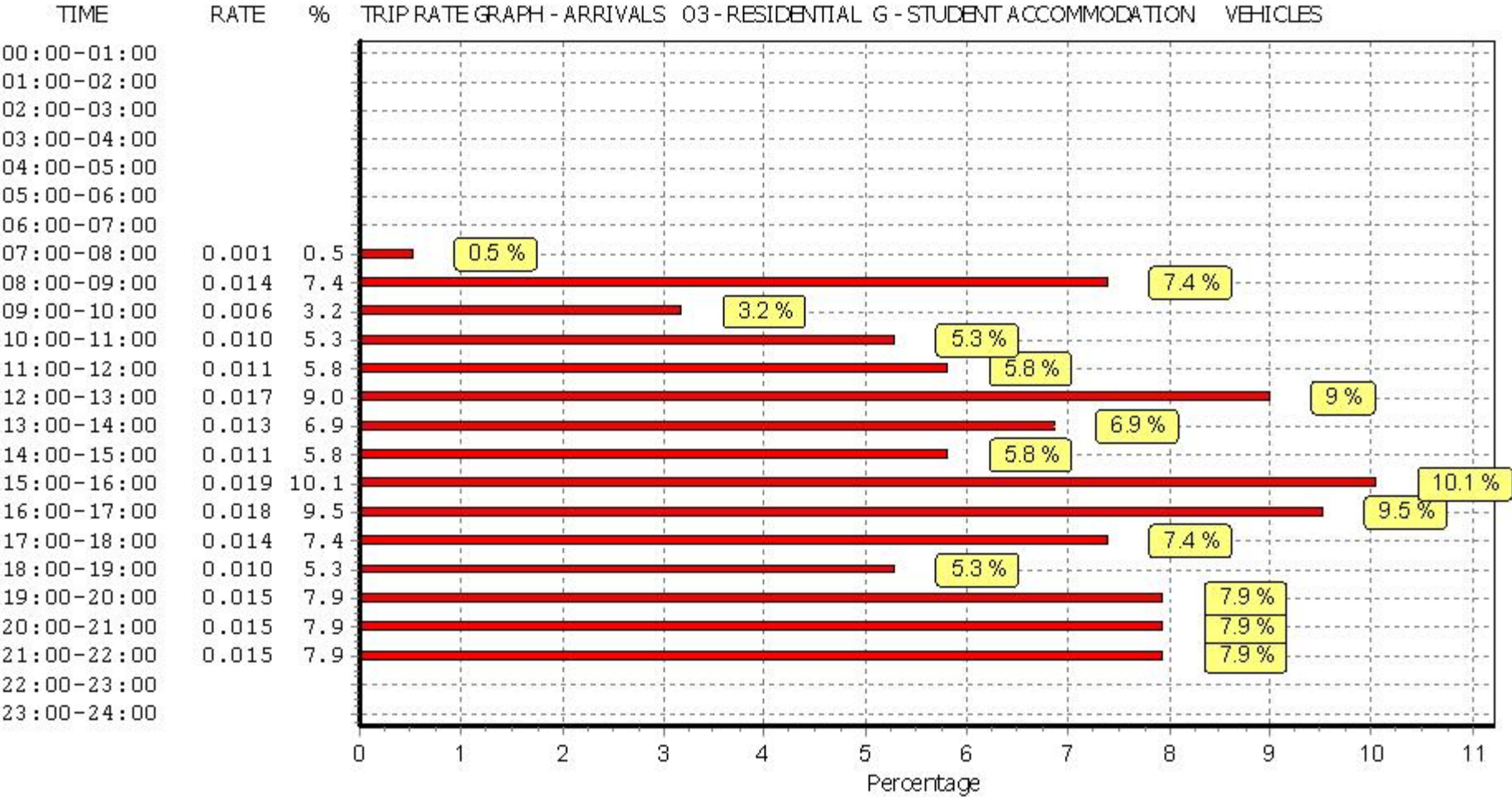
This section displays the trip rate results based on the selected set of surveys and the selected count type (shown just above the table). It is split by three main columns, representing arrivals trips, departures trips, and total trips (arrivals plus departures). Within each of these main columns are 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.

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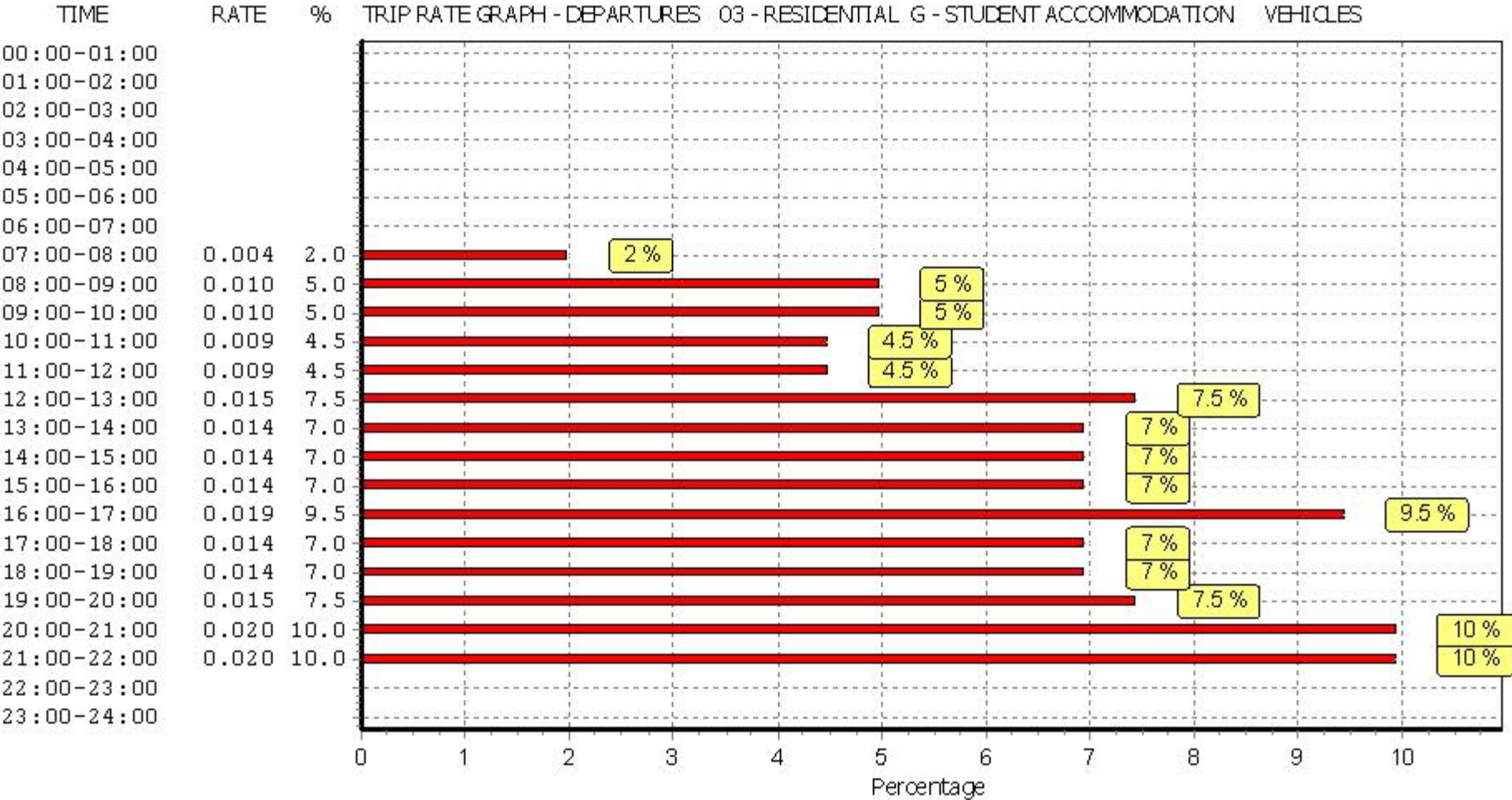
Parameter summary

Trip rate parameter range selected: 15 - 370 (units:)
 Survey date date range: 01/01/06 - 17/10/13
 Number of weekdays (Monday-Friday): 5
 Number of Saturdays: 0
 Number of Sundays: 0
 Surveys manually removed from selection: 1

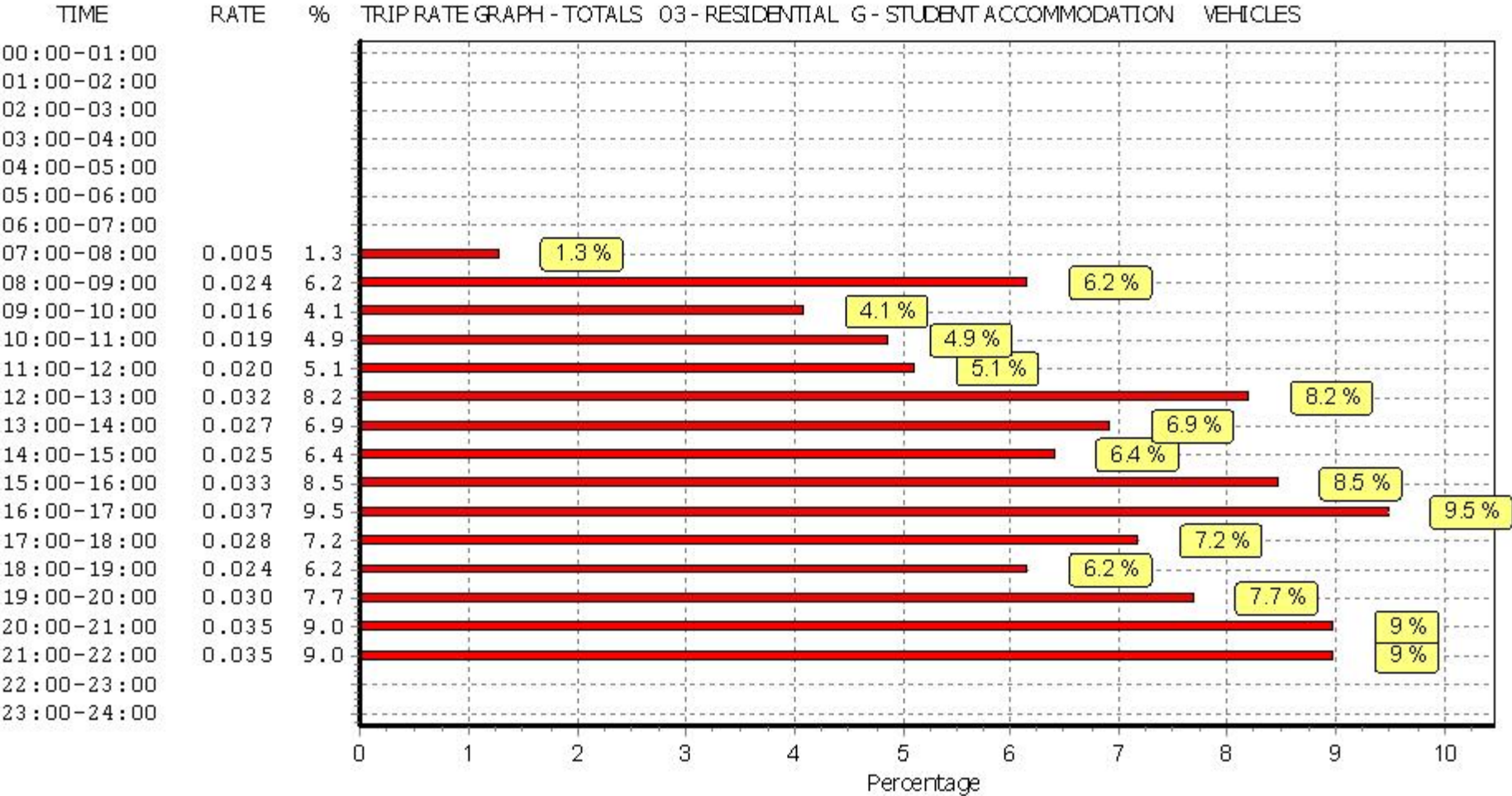
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This graph is a visual representation of the trip rate calculation results screen. The same time periods and trip rates are displayed, but in addition there is an additional column showing the percentage of the total trip rate by individual time period, 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.



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TRIP RATE for Land Use 03 - RESIDENTIAL/G - STUDENT ACCOMMODATION

TAXIS

Calculation factor: 1 RESIDE

BOLD print indicates peak (busiest) period

Time Range	ARRIVALS			DEPARTURES			TOTALS		
	No. Days	Ave. RESIDE	Trip Rate	No. Days	Ave. RESIDE	Trip Rate	No. Days	Ave. RESIDE	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	157	0.000	5	157	0.000	5	157	0.000
08:00 - 09:00	5	157	0.001	5	157	0.003	5	157	0.004
09:00 - 10:00	5	157	0.000	5	157	0.000	5	157	0.000
10:00 - 11:00	5	157	0.001	5	157	0.001	5	157	0.002
11:00 - 12:00	5	157	0.000	5	157	0.000	5	157	0.000
12:00 - 13:00	5	157	0.001	5	157	0.000	5	157	0.001
13:00 - 14:00	5	157	0.004	5	157	0.003	5	157	0.007
14:00 - 15:00	5	157	0.001	5	157	0.003	5	157	0.004
15:00 - 16:00	5	157	0.001	5	157	0.000	5	157	0.001
16:00 - 17:00	5	157	0.003	5	157	0.001	5	157	0.004
17:00 - 18:00	5	157	0.004	5	157	0.003	5	157	0.007
18:00 - 19:00	5	157	0.001	5	157	0.000	5	157	0.001
19:00 - 20:00	1	197	0.005	1	197	0.000	1	197	0.005
20:00 - 21:00	1	197	0.005	1	197	0.005	1	197	0.010
21:00 - 22:00	1	197	0.015	1	197	0.005	1	197	0.020
22:00 - 23:00									
23:00 - 24:00									
Total Rates:		0.042			0.024			0.066	

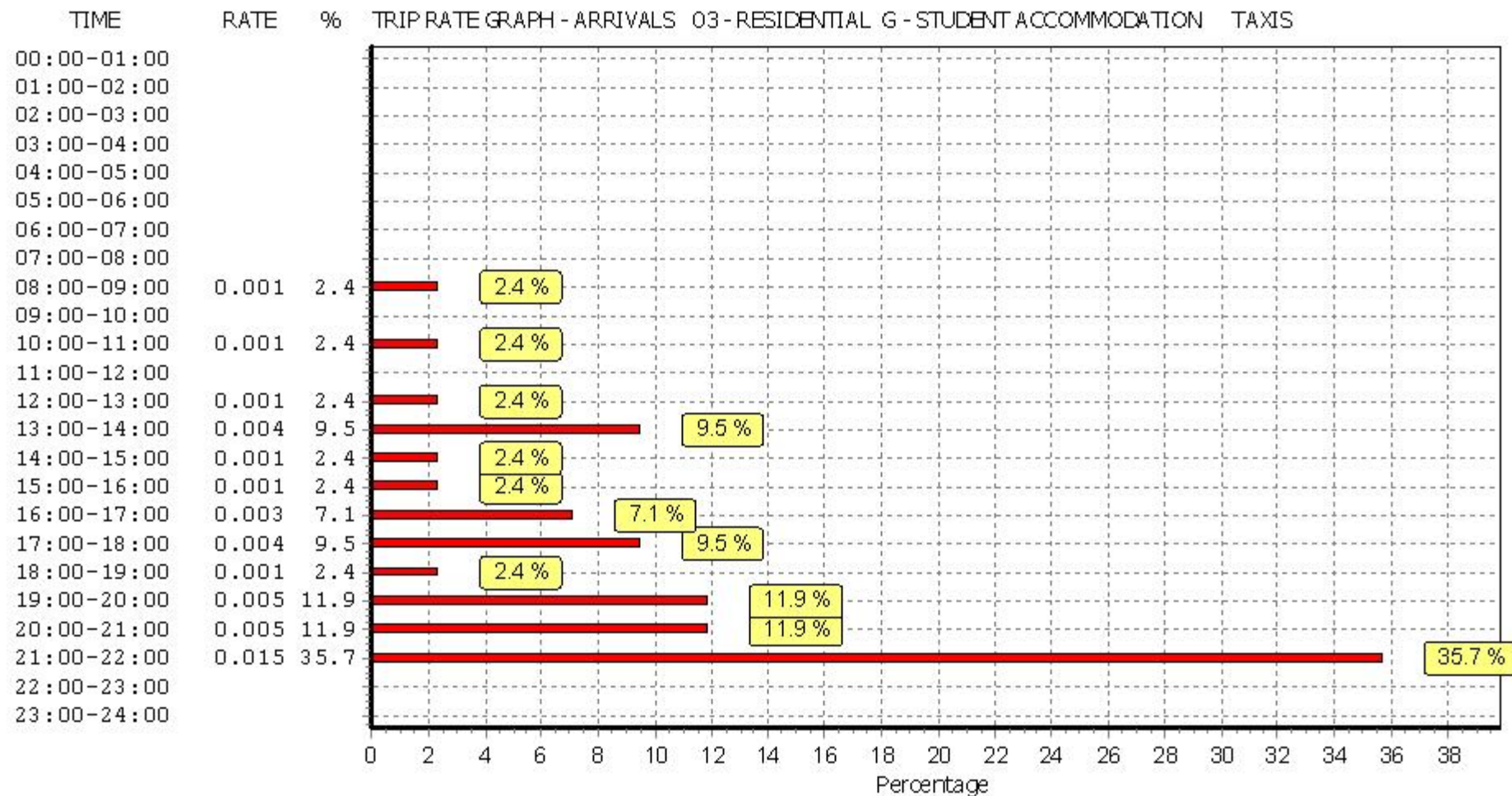
This section displays the trip rate results based on the selected set of surveys and the selected count type (shown just above the table). It is split by three main columns, representing arrivals trips, departures trips, and total trips (arrivals plus departures). Within each of these main columns are 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.

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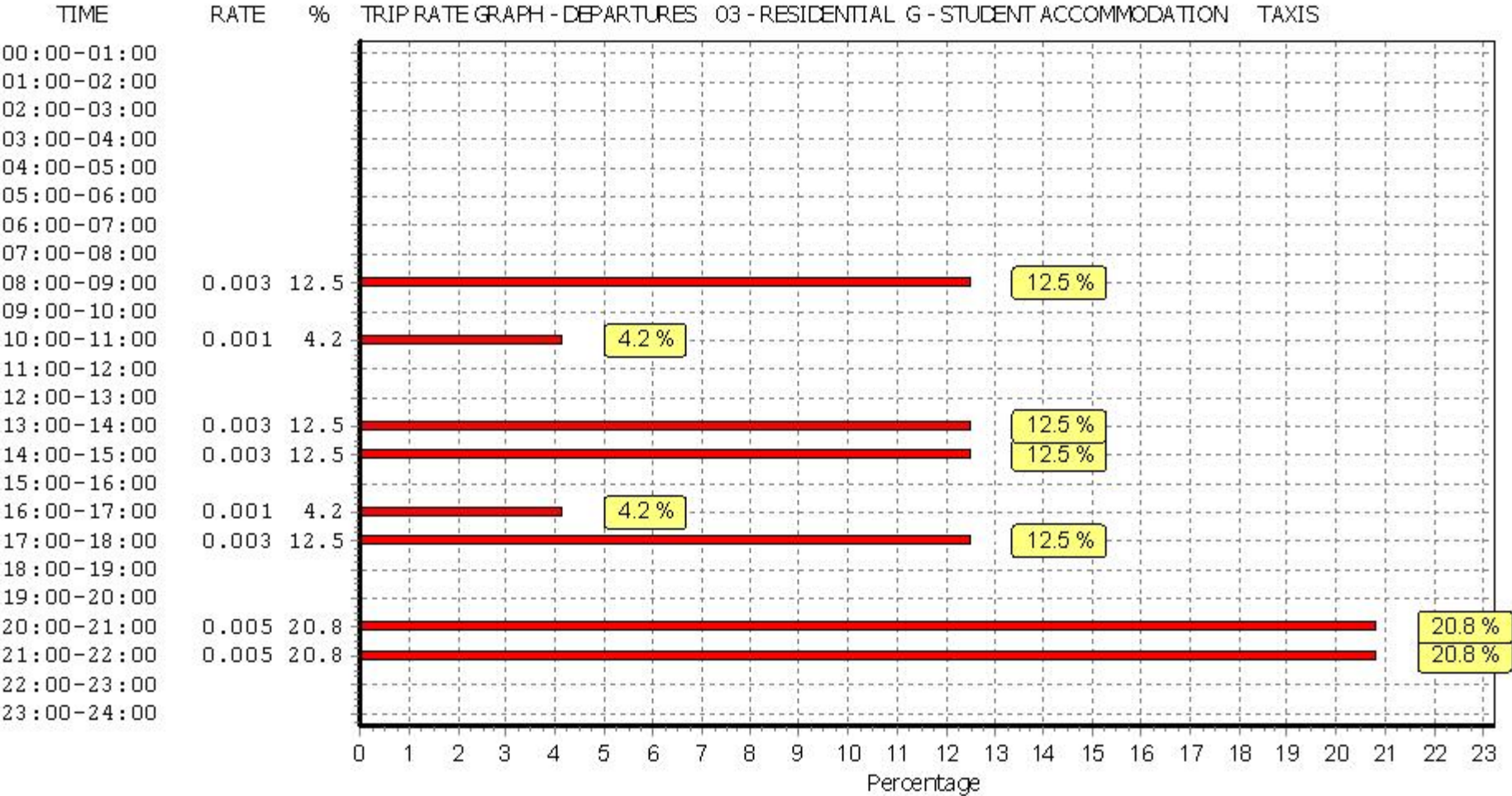
Parameter summary

Trip rate parameter range selected: 15 - 370 (units:)
 Survey date date range: 01/01/06 - 17/10/13
 Number of weekdays (Monday-Friday): 5
 Number of Saturdays: 0
 Number of Sundays: 0
 Surveys manually removed from selection: 1

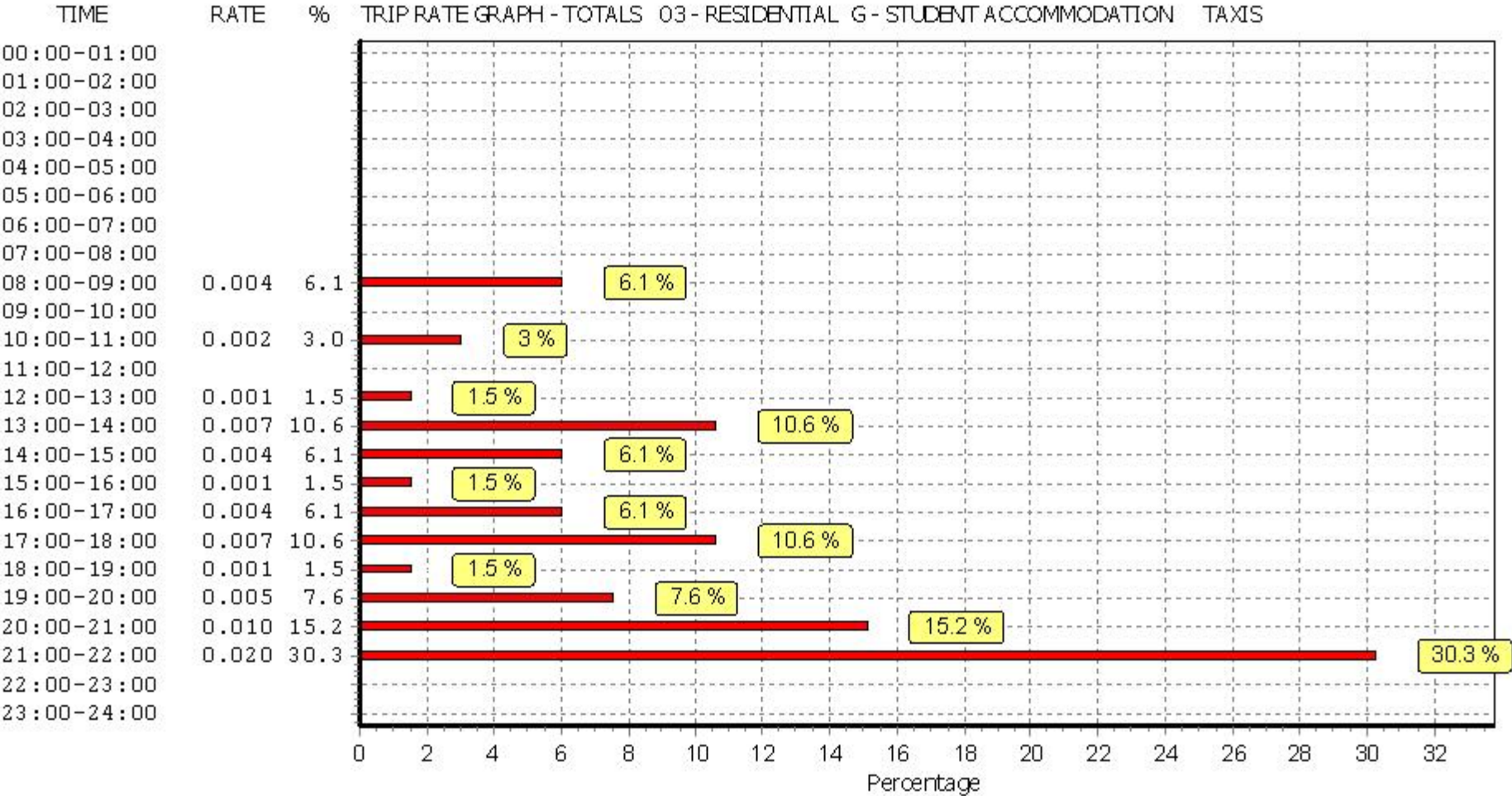
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TRIP RATE for Land Use 03 - RESIDENTIAL/G - STUDENT ACCOMMODATION
OGVS

Calculation factor: 1 RESIDE

BOLD print indicates peak (busiest) period

Time Range	ARRIVALS			DEPARTURES			TOTALS		
	No. Days	Ave. RESIDE	Trip Rate	No. Days	Ave. RESIDE	Trip Rate	No. Days	Ave. RESIDE	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	157	0.000	5	157	0.000	5	157	0.000
08:00 - 09:00	5	157	0.000	5	157	0.000	5	157	0.000
09:00 - 10:00	5	157	0.000	5	157	0.000	5	157	0.000
10:00 - 11:00	5	157	0.000	5	157	0.000	5	157	0.000
11:00 - 12:00	5	157	0.001	5	157	0.001	5	157	0.002
12:00 - 13:00	5	157	0.000	5	157	0.000	5	157	0.000
13:00 - 14:00	5	157	0.003	5	157	0.003	5	157	0.006
14:00 - 15:00	5	157	0.000	5	157	0.000	5	157	0.000
15:00 - 16:00	5	157	0.000	5	157	0.000	5	157	0.000
16:00 - 17:00	5	157	0.000	5	157	0.000	5	157	0.000
17:00 - 18:00	5	157	0.000	5	157	0.000	5	157	0.000
18:00 - 19:00	5	157	0.000	5	157	0.000	5	157	0.000
19:00 - 20:00	1	197	0.000	1	197	0.000	1	197	0.000
20:00 - 21:00	1	197	0.000	1	197	0.000	1	197	0.000
21:00 - 22:00	1	197	0.000	1	197	0.000	1	197	0.000
22:00 - 23:00									
23:00 - 24:00									
Total Rates:			0.004			0.004			0.008

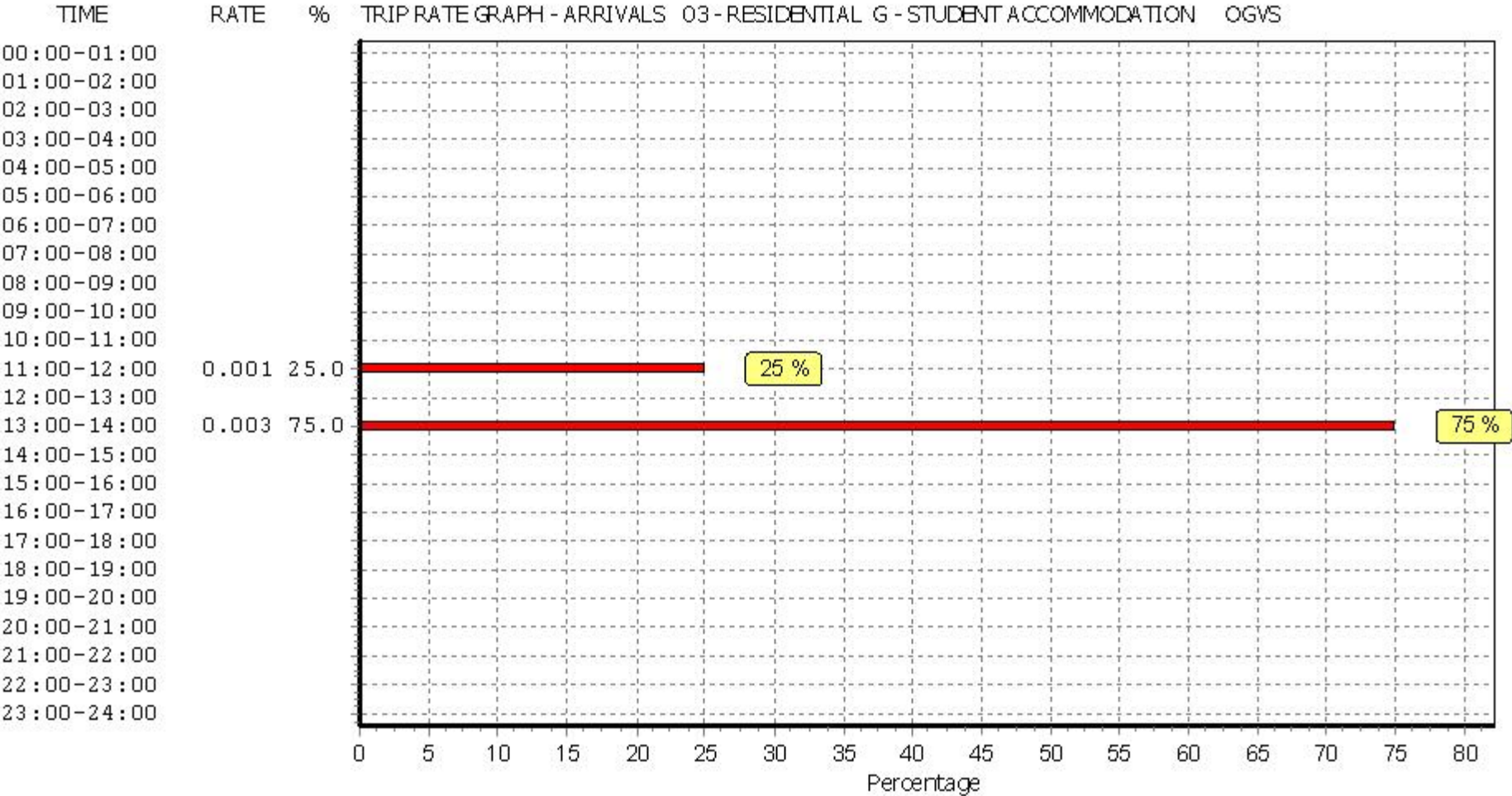
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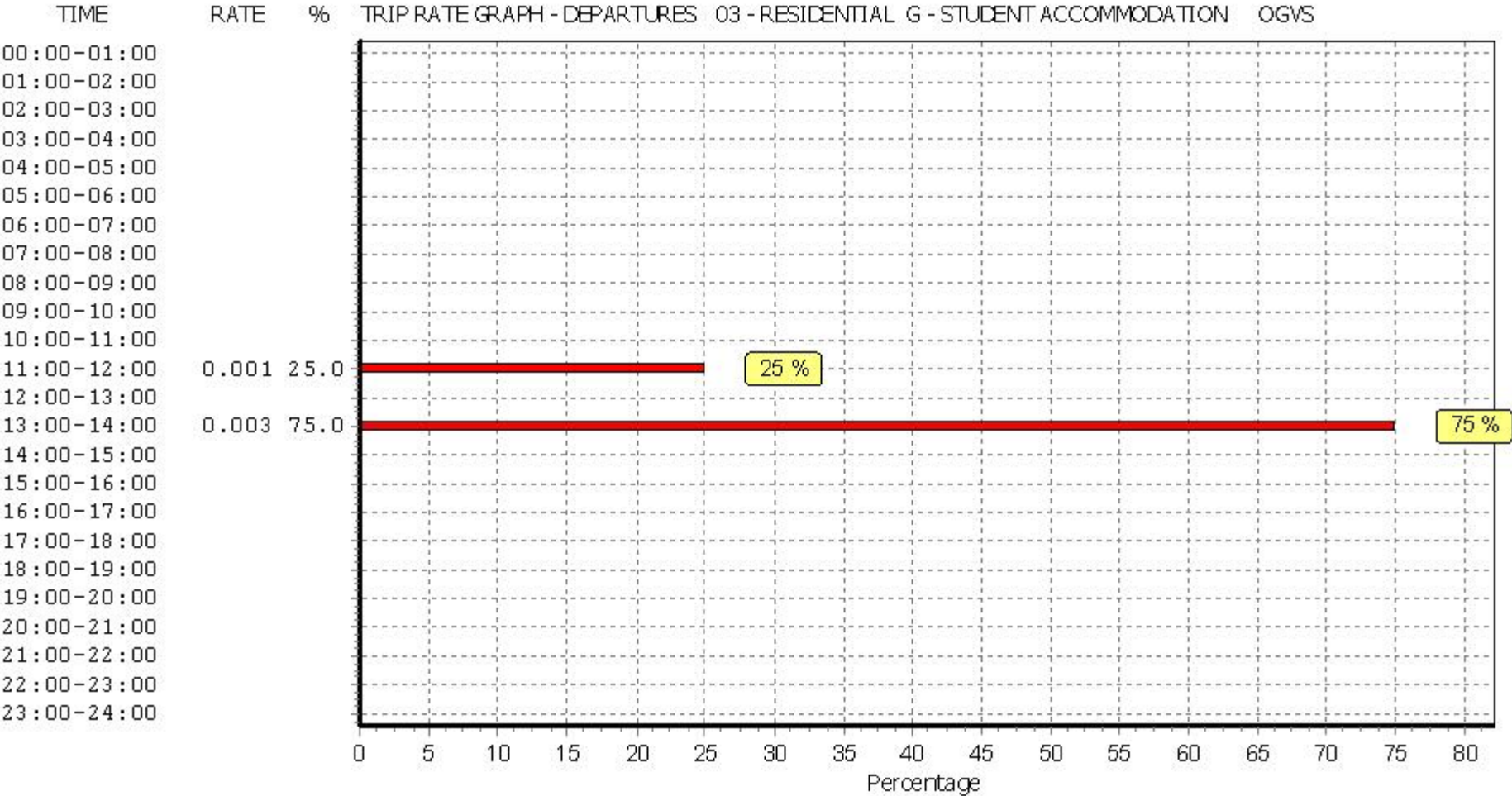
Parameter summary

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 Number of weekdays (Monday-Friday): 5
 Number of Saturdays: 0
 Number of Sundays: 0
 Surveys manually removed from selection: 1

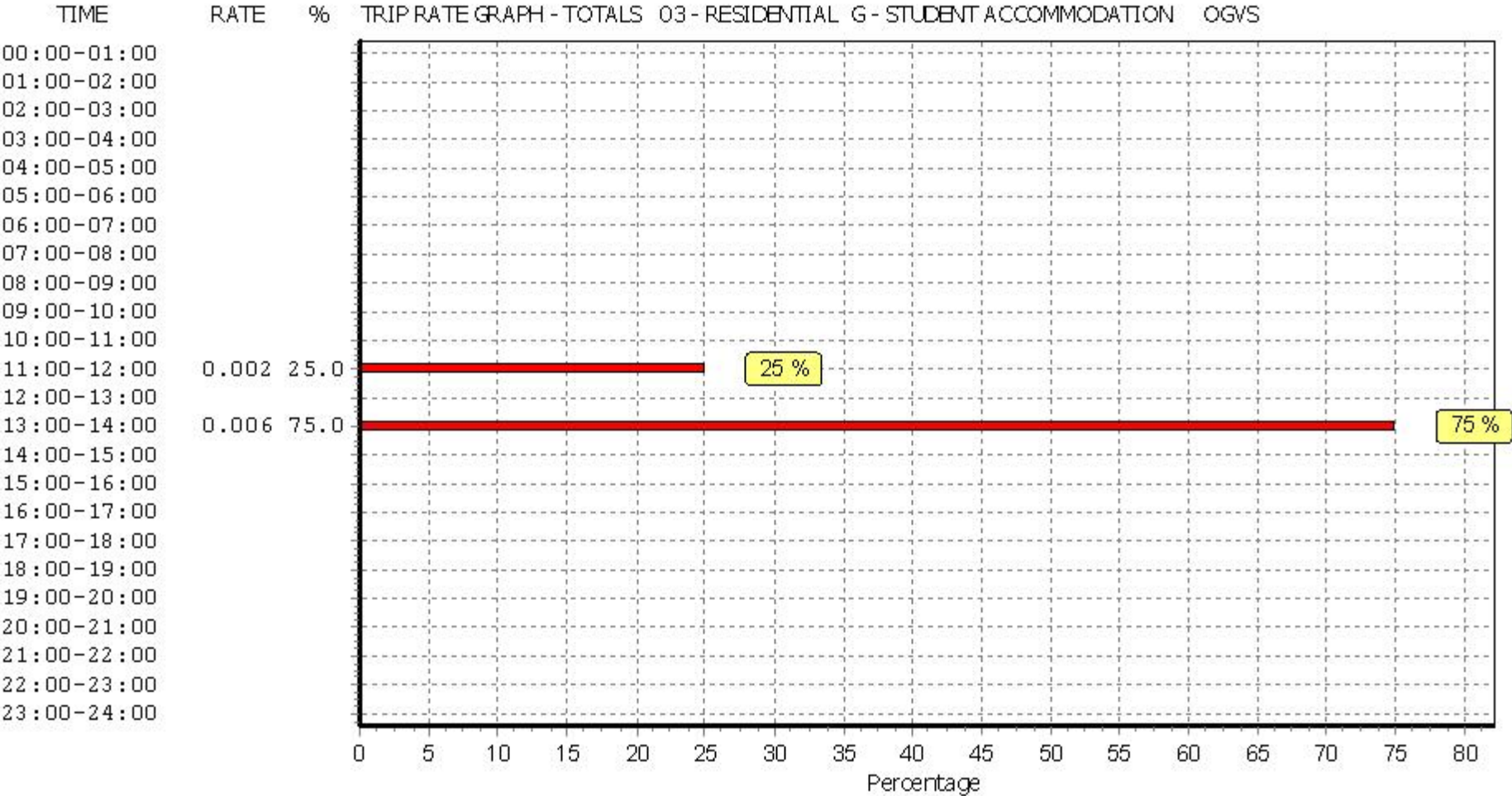
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TRIP RATE for Land Use 03 - RESIDENTIAL/G - STUDENT ACCOMMODATION

PSVS

Calculation factor: 1 RESIDE

BOLD print indicates peak (busiest) period

Time Range	ARRIVALS			DEPARTURES			TOTALS		
	No. Days	Ave. RESIDE	Trip Rate	No. Days	Ave. RESIDE	Trip Rate	No. Days	Ave. RESIDE	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	157	0.000	5	157	0.000	5	157	0.000
08:00 - 09:00	5	157	0.000	5	157	0.000	5	157	0.000
09:00 - 10:00	5	157	0.000	5	157	0.000	5	157	0.000
10:00 - 11:00	5	157	0.000	5	157	0.000	5	157	0.000
11:00 - 12:00	5	157	0.000	5	157	0.000	5	157	0.000
12:00 - 13:00	5	157	0.000	5	157	0.000	5	157	0.000
13:00 - 14:00	5	157	0.000	5	157	0.000	5	157	0.000
14:00 - 15:00	5	157	0.000	5	157	0.000	5	157	0.000
15:00 - 16:00	5	157	0.000	5	157	0.000	5	157	0.000
16:00 - 17:00	5	157	0.000	5	157	0.000	5	157	0.000
17:00 - 18:00	5	157	0.000	5	157	0.000	5	157	0.000
18:00 - 19:00	5	157	0.000	5	157	0.000	5	157	0.000
19:00 - 20:00	1	197	0.000	1	197	0.000	1	197	0.000
20:00 - 21:00	1	197	0.000	1	197	0.000	1	197	0.000
21:00 - 22:00	1	197	0.000	1	197	0.000	1	197	0.000
22:00 - 23:00									
23:00 - 24:00									
Total Rates:		0.000			0.000			0.000	

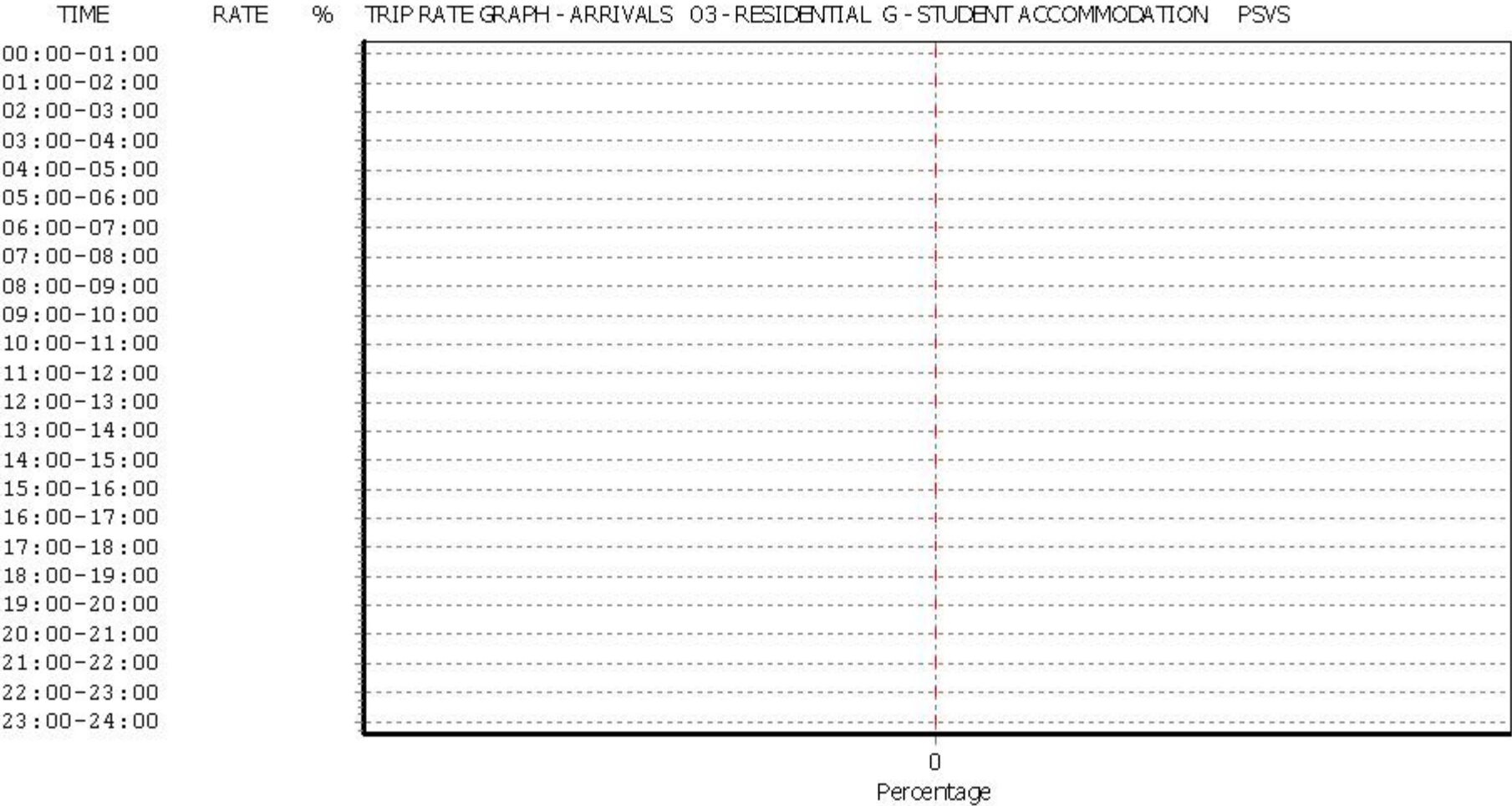
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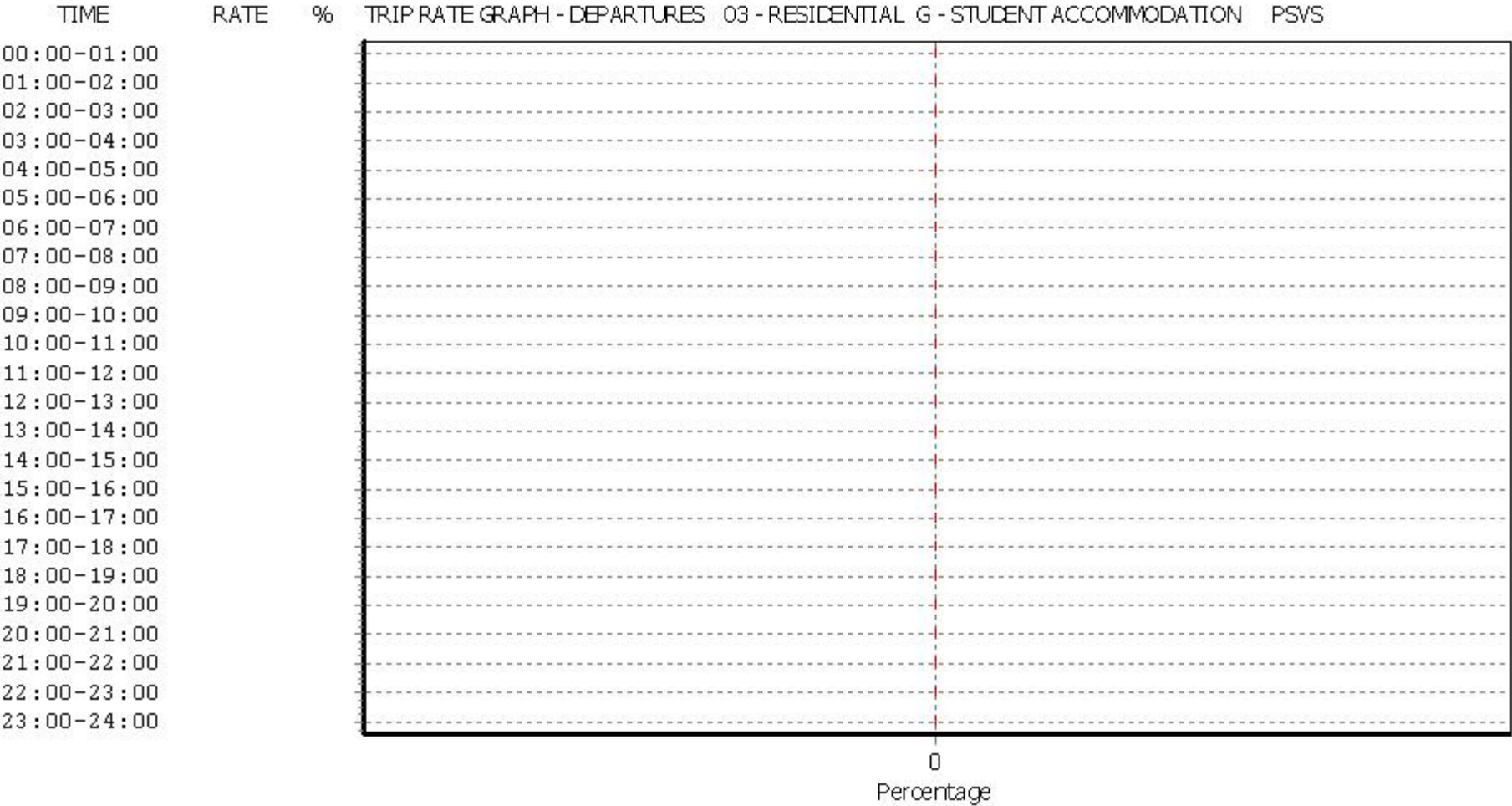
Parameter summary

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 Survey date date range: 01/01/06 - 17/10/13
 Number of weekdays (Monday-Friday): 5
 Number of Saturdays: 0
 Number of Sundays: 0
 Surveys manually removed from selection: 1

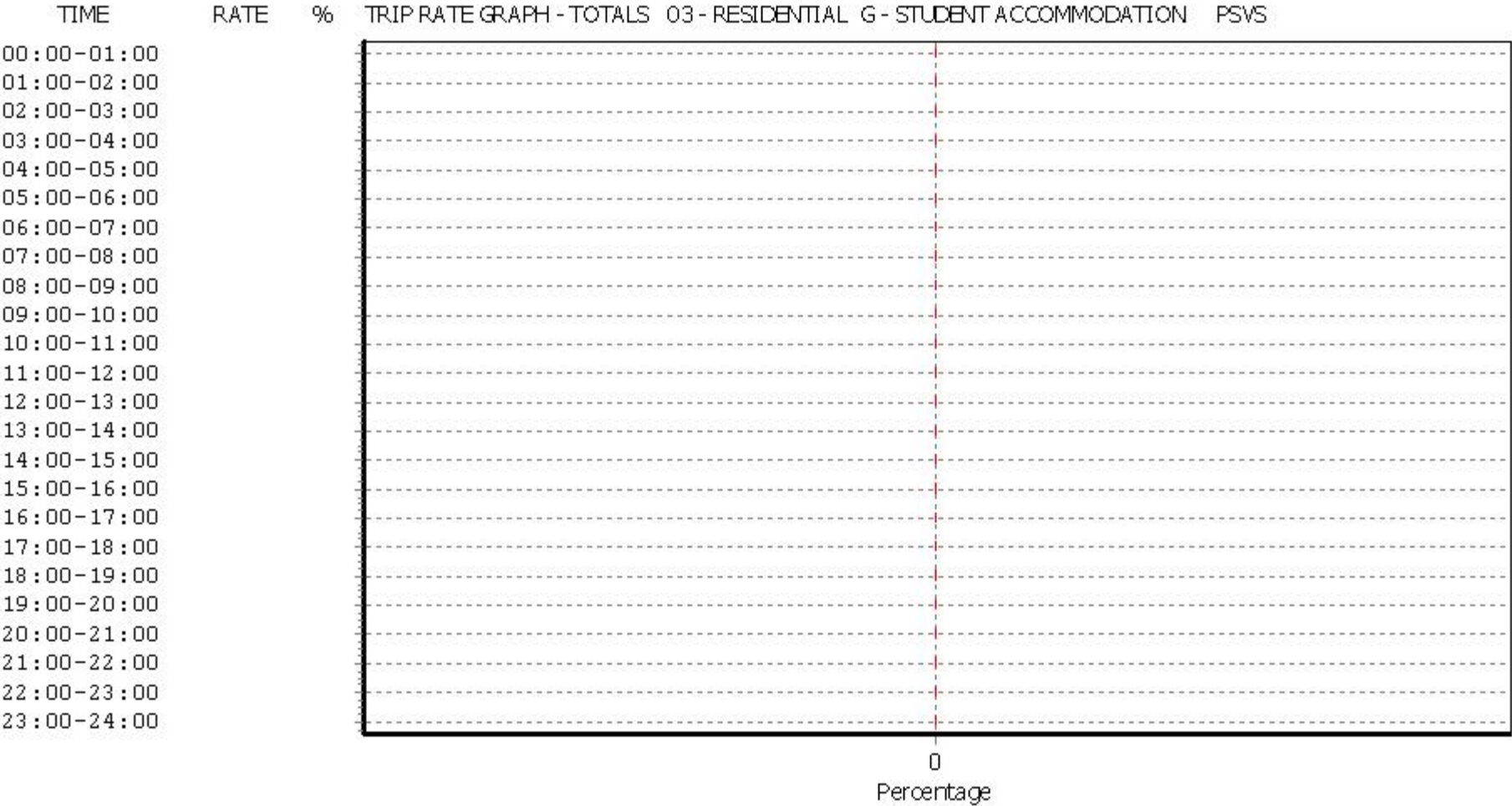
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TRIP RATE for Land Use 03 - RESIDENTIAL/G - STUDENT ACCOMMODATION
 CYCLISTS
 Calculation factor: 1 RESIDE
 BOLD print indicates peak (busiest) period

Time Range	ARRIVALS			DEPARTURES			TOTALS		
	No. Days	Ave. RESIDE	Trip Rate	No. Days	Ave. RESIDE	Trip Rate	No. Days	Ave. RESIDE	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	157	0.000	5	157	0.000	5	157	0.000
08:00 - 09:00	5	157	0.000	5	157	0.001	5	157	0.001
09:00 - 10:00	5	157	0.000	5	157	0.001	5	157	0.001
10:00 - 11:00	5	157	0.000	5	157	0.000	5	157	0.000
11:00 - 12:00	5	157	0.003	5	157	0.003	5	157	0.006
12:00 - 13:00	5	157	0.000	5	157	0.003	5	157	0.003
13:00 - 14:00	5	157	0.001	5	157	0.004	5	157	0.005
14:00 - 15:00	5	157	0.001	5	157	0.000	5	157	0.001
15:00 - 16:00	5	157	0.003	5	157	0.001	5	157	0.004
16:00 - 17:00	5	157	0.005	5	157	0.000	5	157	0.005
17:00 - 18:00	5	157	0.004	5	157	0.004	5	157	0.008
18:00 - 19:00	5	157	0.003	5	157	0.004	5	157	0.007
19:00 - 20:00	1	197	0.000	1	197	0.000	1	197	0.000
20:00 - 21:00	1	197	0.000	1	197	0.000	1	197	0.000
21:00 - 22:00	1	197	0.000	1	197	0.000	1	197	0.000
22:00 - 23:00									
23:00 - 24:00									
Total Rates:			0.020			0.021			0.041

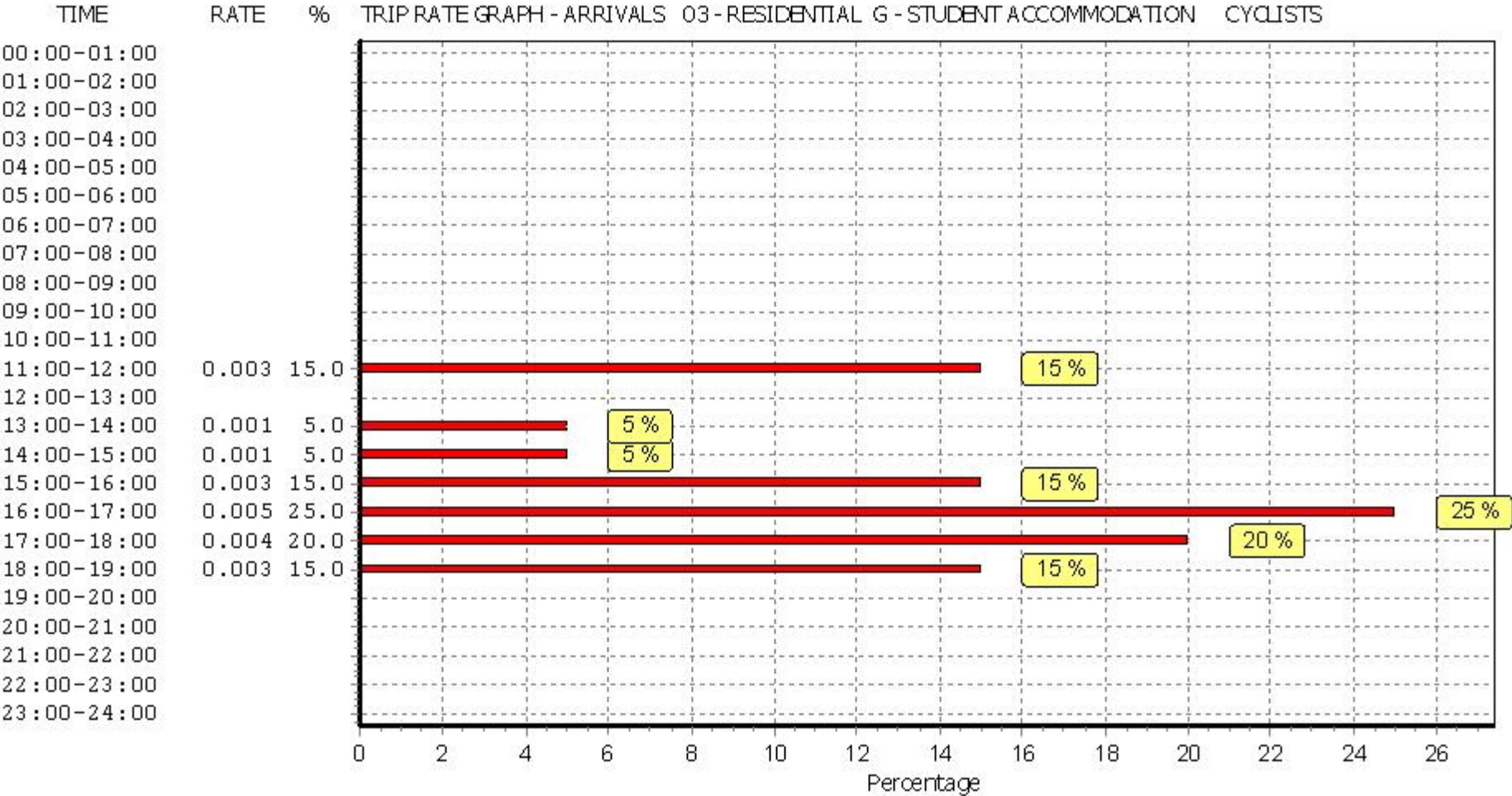
This section displays the trip rate results based on the selected set of surveys and the selected count type (shown just above the table). It is split by three main columns, representing arrivals trips, departures trips, and total trips (arrivals plus departures). Within each of these main columns are 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.

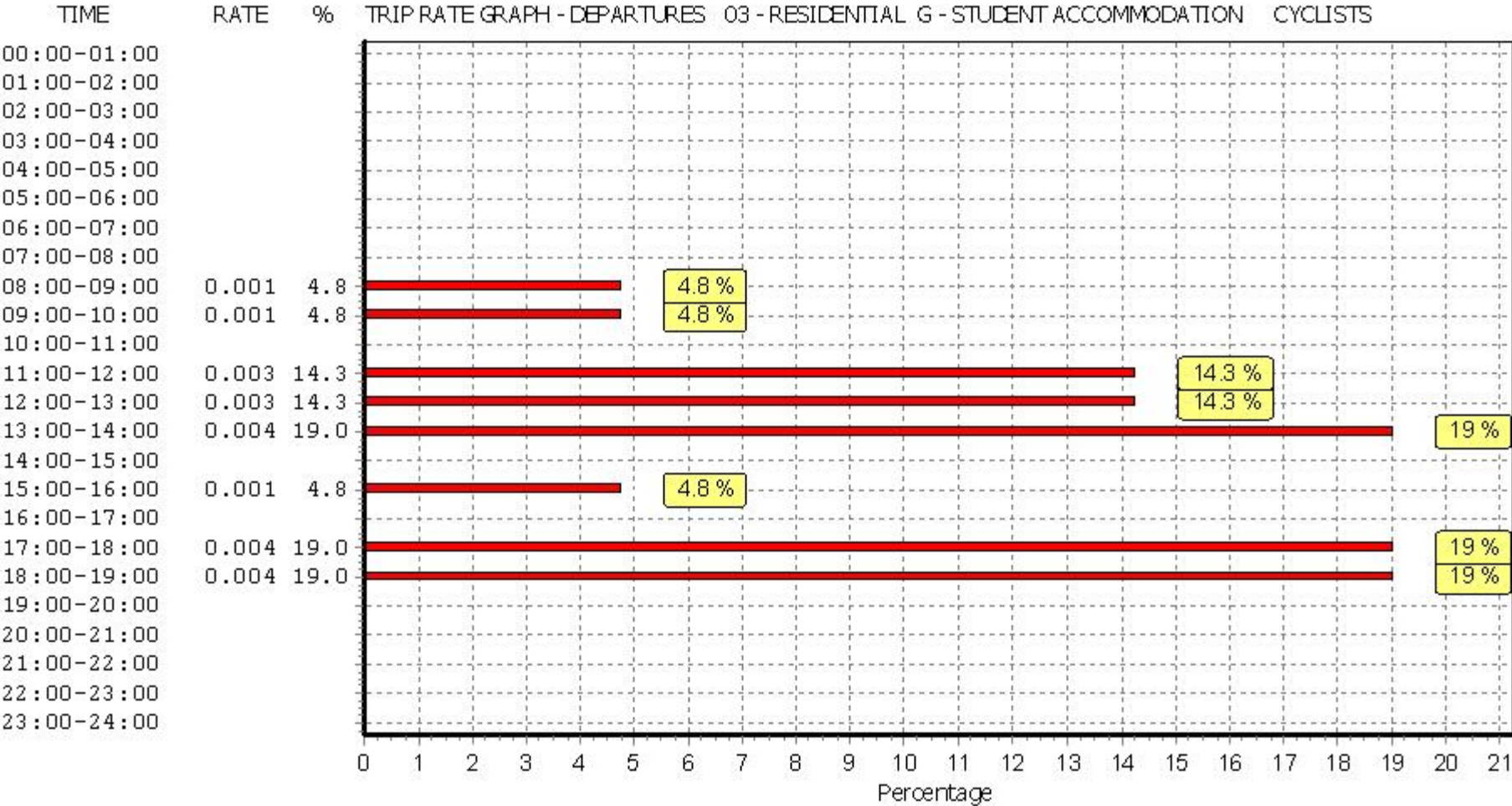
Parameter summary

Trip rate parameter range selected: 15 - 370 (units:)
 Survey date range: 01/01/06 - 17/10/13
 Number of weekdays (Monday-Friday): 5
 Number of Saturdays: 0
 Number of Sundays: 0
 Surveys manually removed from selection: 1

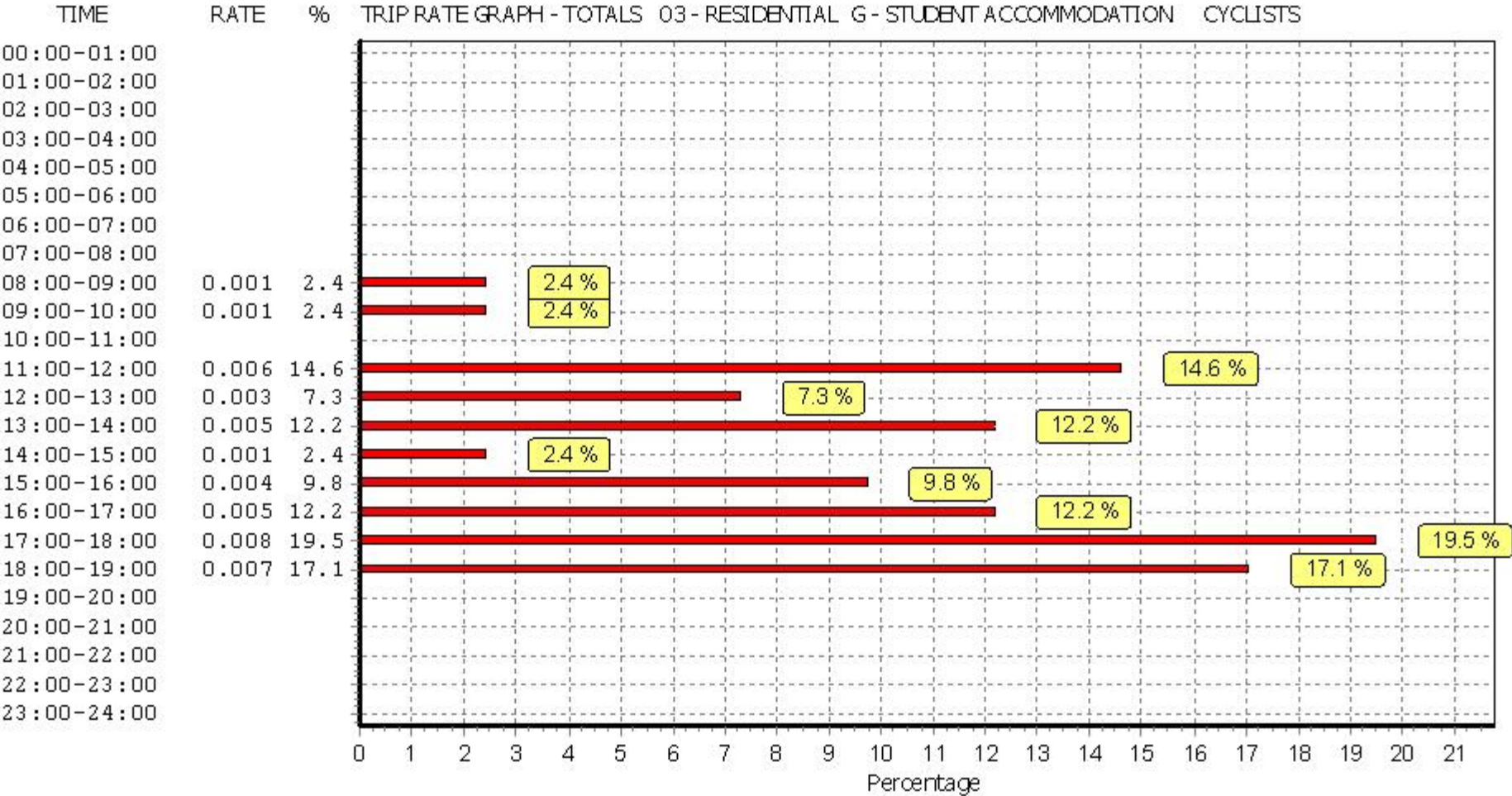
This section displays a quick summary of some of the data filtering selections made by the TRICS® user. The trip rate calculation parameter range of all selected surveys is displayed first, followed by the range of minimum and maximum survey dates selected by the user. Then, the total number of selected 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.



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.



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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.

Calculation Reference: AUDIT-746001-150316-0325

TRIP RATE CALCULATION SELECTION PARAMETERS:

Land Use : 04 - EDUCATION
Category : C - COLLEGE/UNIVERSITY
VEHICLES

Selected regions and areas:

04	EAST ANGLIA	
	CA CAMBRIDGESHIRE	1 days
	NF NORFOLK	1 days
	SF SUFFOLK	1 days
08	NORTH WEST	
	GM GREATER MANCHESTER	1 days

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

Filtering Stage 2 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 students
Actual Range:	4750 to 12000 (units:)
Range Selected by User:	360 to 16000 (units:)

Public Transport Provision:

Selection by:	Include all surveys
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Date Range: 01/01/06 to 29/10/13

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

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

Selected survey types:

Manual count	4 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:

Edge of Town Centre	4
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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	1
Built-Up Zone	2
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 Sub Category.

Filtering Stage 3 selection:

Use Class:

D1	4 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	2 days
20,001 to 25,000	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
125,001 to 250,000	2 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:

0.6 to 1.0	1 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	2 days
No	2 days

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

LIST OF SITES relevant to selection parameters

1	CA-04-C-01	COLLEGE		CAMBRIDGESHIRE
	CRAWTHORNE ROAD			
	PETERBOROUGH			
	Edge of Town Centre			
	No Sub Category			
	Total Number of students:	4750		
	Survey date: THURSDAY	15/05/08		Survey Type: MANUAL
2	GM-04-C-02	UNIVERSITY		GREATER MANCHESTER
	DEANE ROAD			
	BOLTON			
	Edge of Town Centre			
	Built-Up Zone			
	Total Number of students:	11000		
	Survey date: TUESDAY	29/10/13		Survey Type: MANUAL
3	NF-04-C-02	COLLEGE		NORFOLK
	IPSWICH ROAD			
	LAKENHAM			
	NORWICH			
	Edge of Town Centre			
	Residential Zone			
	Total Number of students:	10558		
	Survey date: THURSDAY	23/09/10		Survey Type: MANUAL
4	SF-04-C-01	COLLEGE		SUFFOLK
	OUT RISBYGATE			
	BURY ST. EDMUNDS			
	Edge of Town Centre			
	Built-Up Zone			
	Total Number of students:	12000		
	Survey date: TUESDAY	28/09/10		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 04 - EDUCATION/C - COLLEGE/UNIVERSITY
VEHICLES

Calculation factor: 1 STUDEN

BOLD print indicates peak (busiest) period

Time Range	ARRIVALS			DEPARTURES			TOTALS		
	No. Days	Ave. STUDEN	Trip Rate	No. Days	Ave. STUDEN	Trip Rate	No. Days	Ave. STUDEN	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	4	9577	0.010	4	9577	0.001	4	9577	0.011
08:00 - 09:00	4	9577	0.042	4	9577	0.012	4	9577	0.054
09:00 - 10:00	4	9577	0.021	4	9577	0.009	4	9577	0.030
10:00 - 11:00	4	9577	0.008	4	9577	0.004	4	9577	0.012
11:00 - 12:00	4	9577	0.006	4	9577	0.005	4	9577	0.011
12:00 - 13:00	4	9577	0.009	4	9577	0.011	4	9577	0.020
13:00 - 14:00	4	9577	0.007	4	9577	0.008	4	9577	0.015
14:00 - 15:00	4	9577	0.005	4	9577	0.010	4	9577	0.015
15:00 - 16:00	4	9577	0.008	4	9577	0.015	4	9577	0.023
16:00 - 17:00	4	9577	0.009	4	9577	0.024	4	9577	0.033
17:00 - 18:00	4	9577	0.009	4	9577	0.019	4	9577	0.028
18:00 - 19:00	4	9577	0.007	4	9577	0.008	4	9577	0.015
19:00 - 20:00	3	9103	0.003	3	9103	0.005	3	9103	0.008
20:00 - 21:00	3	9103	0.002	3	9103	0.009	3	9103	0.011
21:00 - 22:00	3	9103	0.001	3	9103	0.010	3	9103	0.011
22:00 - 23:00									
23:00 - 24:00									
Total Rates:		0.147			0.150			0.297	

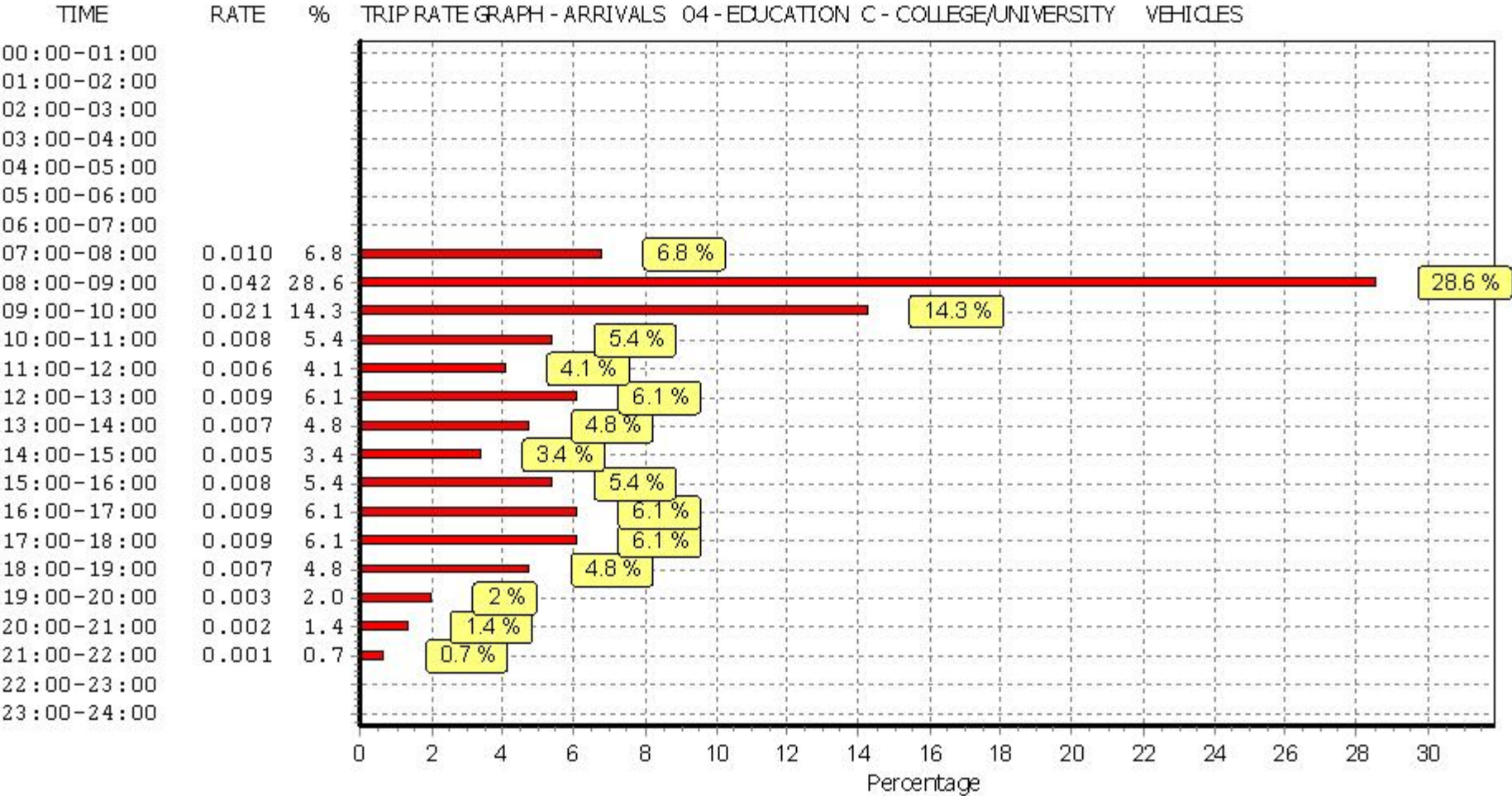
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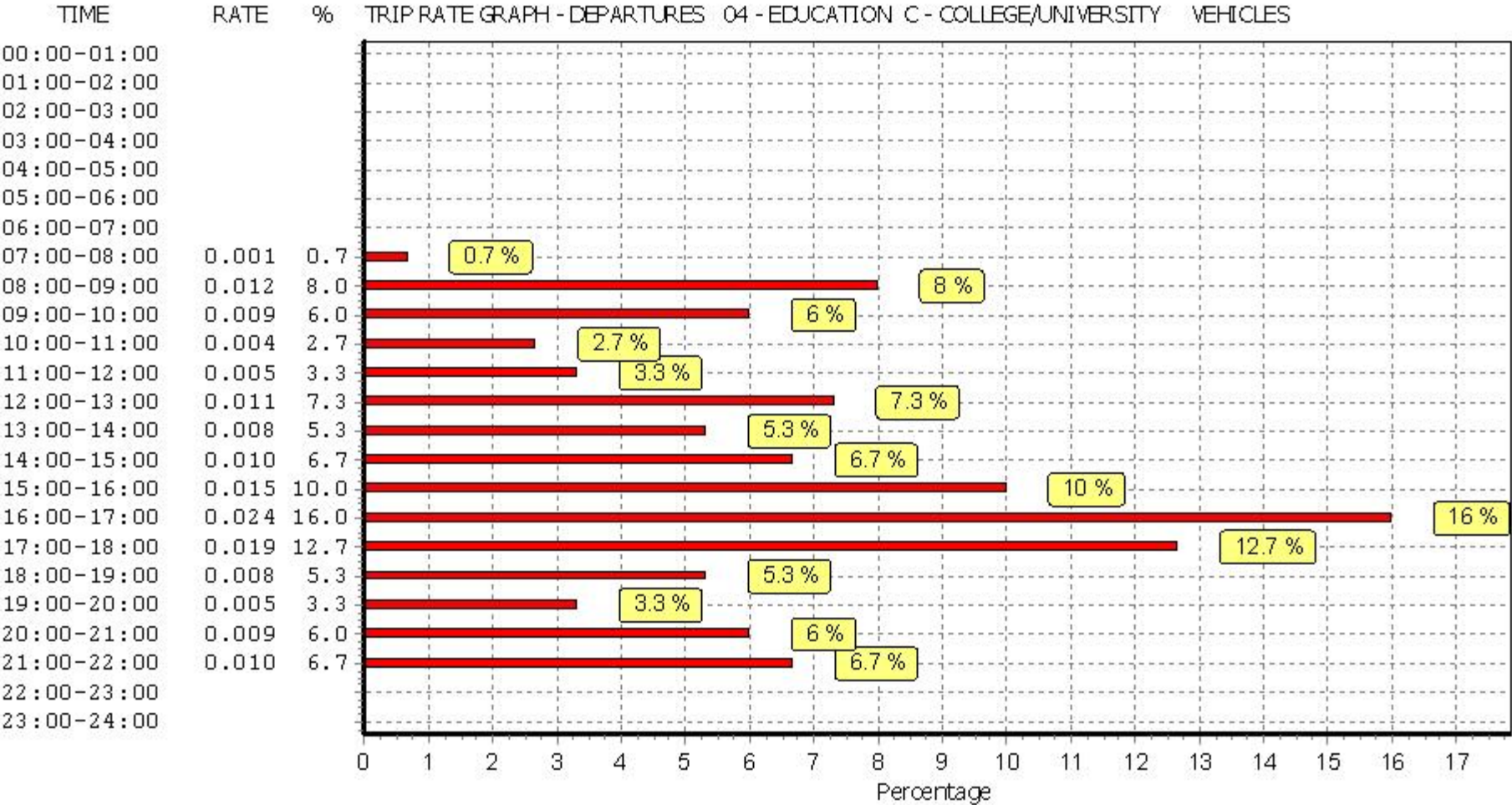
Parameter summary

Trip rate parameter range selected: 4750 - 12000 (units:)
 Survey date date range: 01/01/06 - 29/10/13
 Number of weekdays (Monday-Friday): 4
 Number of Saturdays: 0
 Number of Sundays: 0
 Surveys manually removed from selection: 0

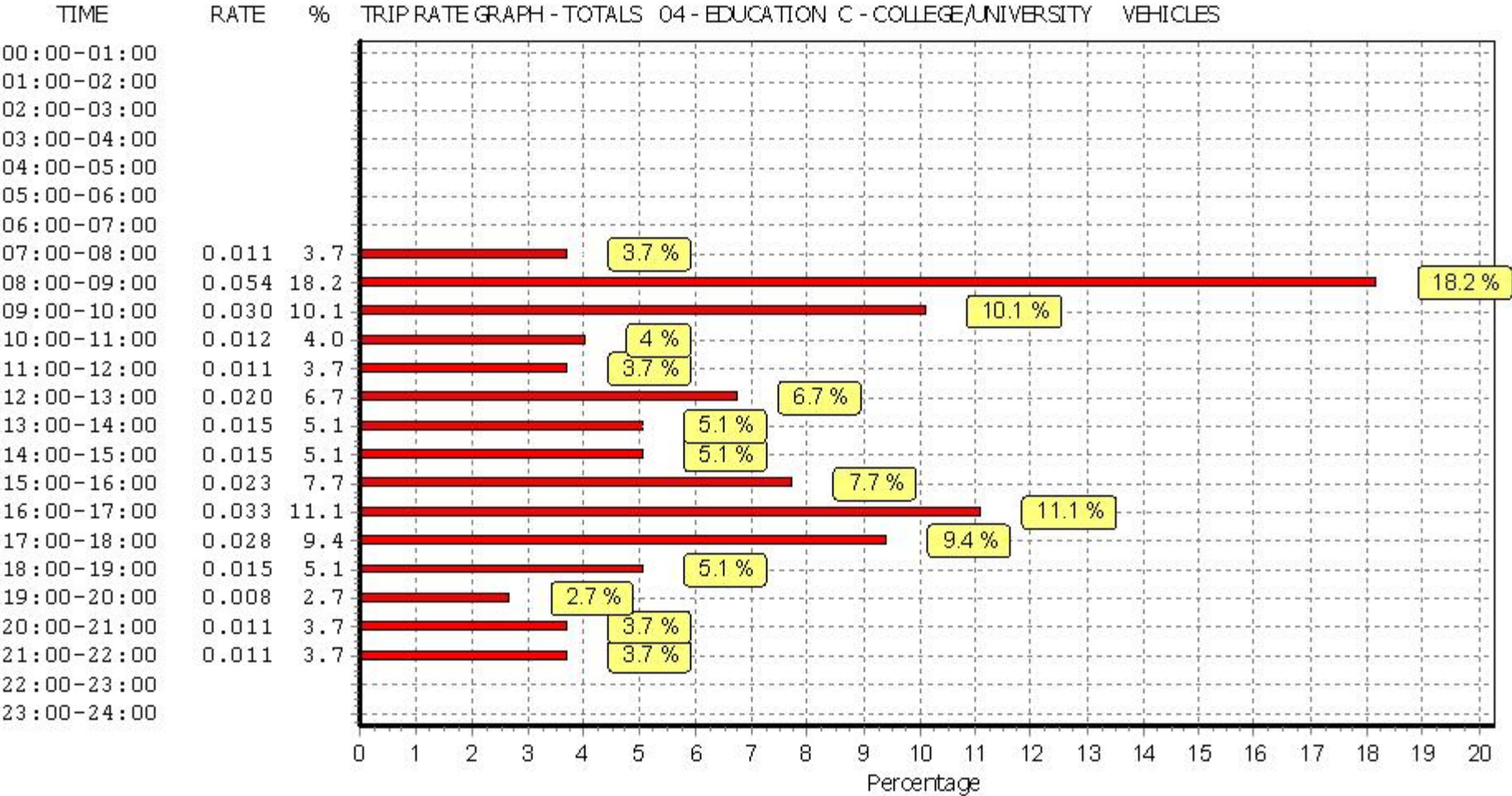
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Appendix B – WSCTM Output Plots

Figure B1 S5 Scenario – Actual Traffic Flows

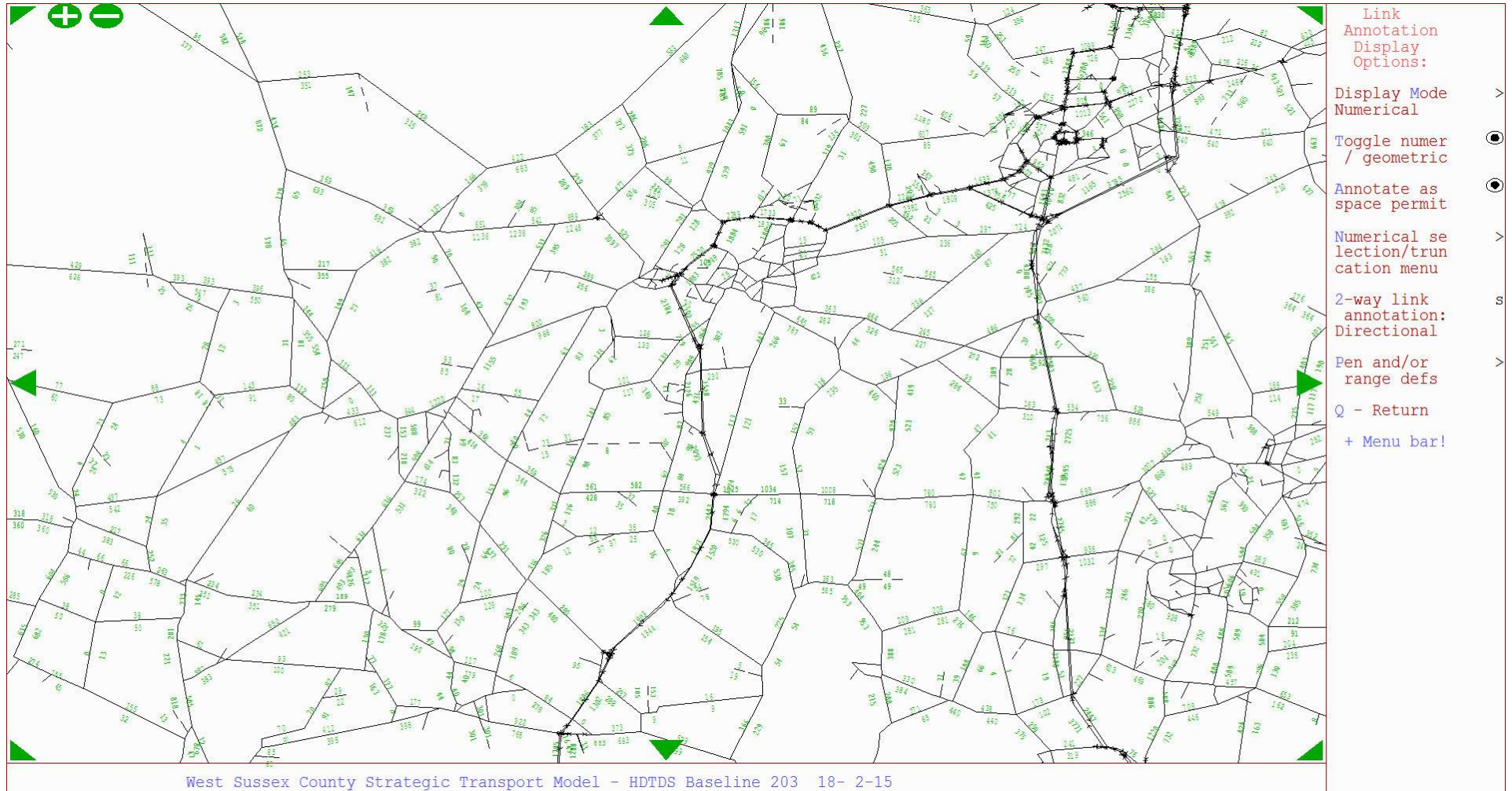


Figure B2 Traffic Flow Difference Plot (S5-S2)

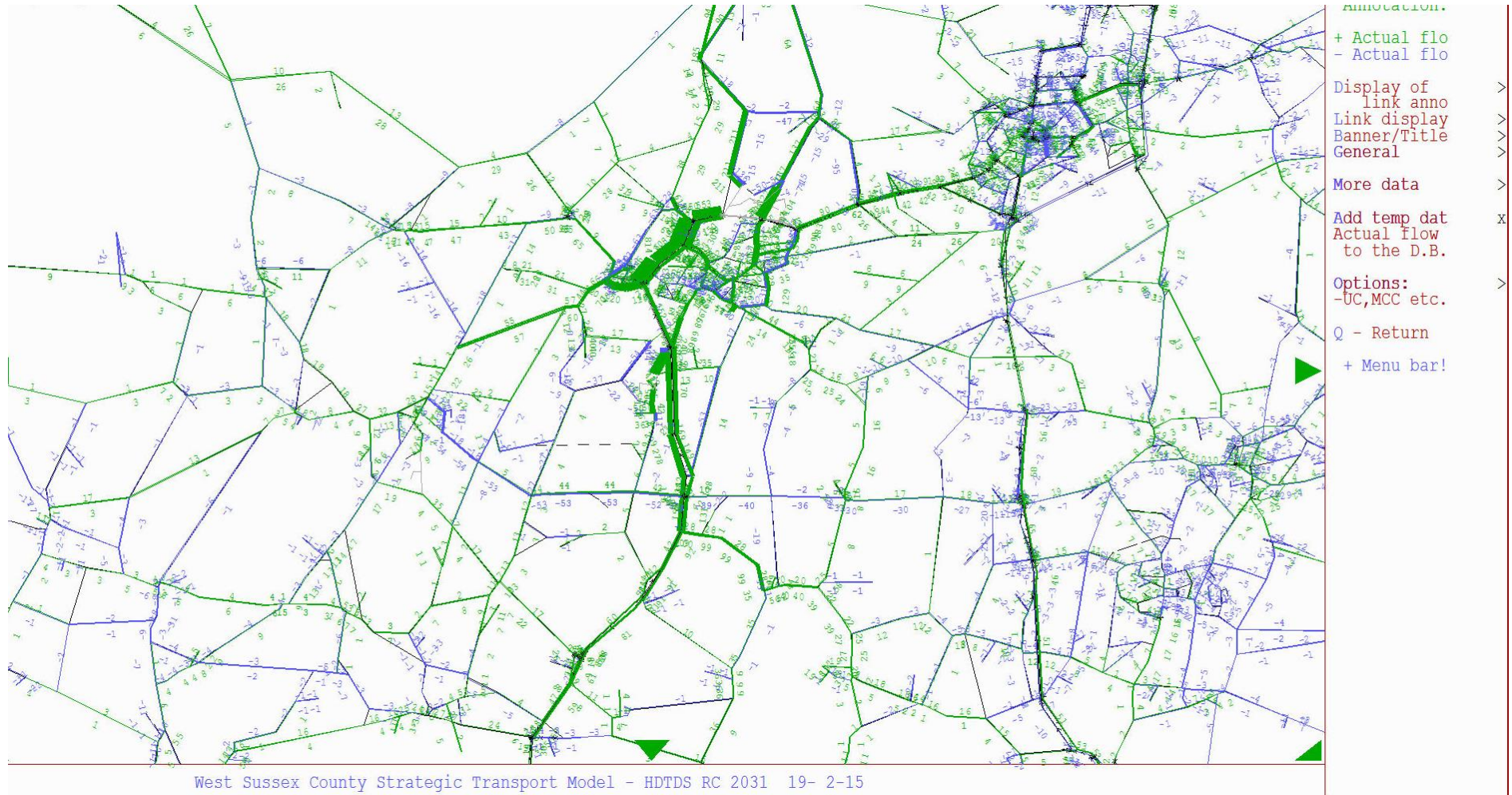


Figure B3 Traffic flow difference between S5 and S2 (Increase > 30 pcu/hr)

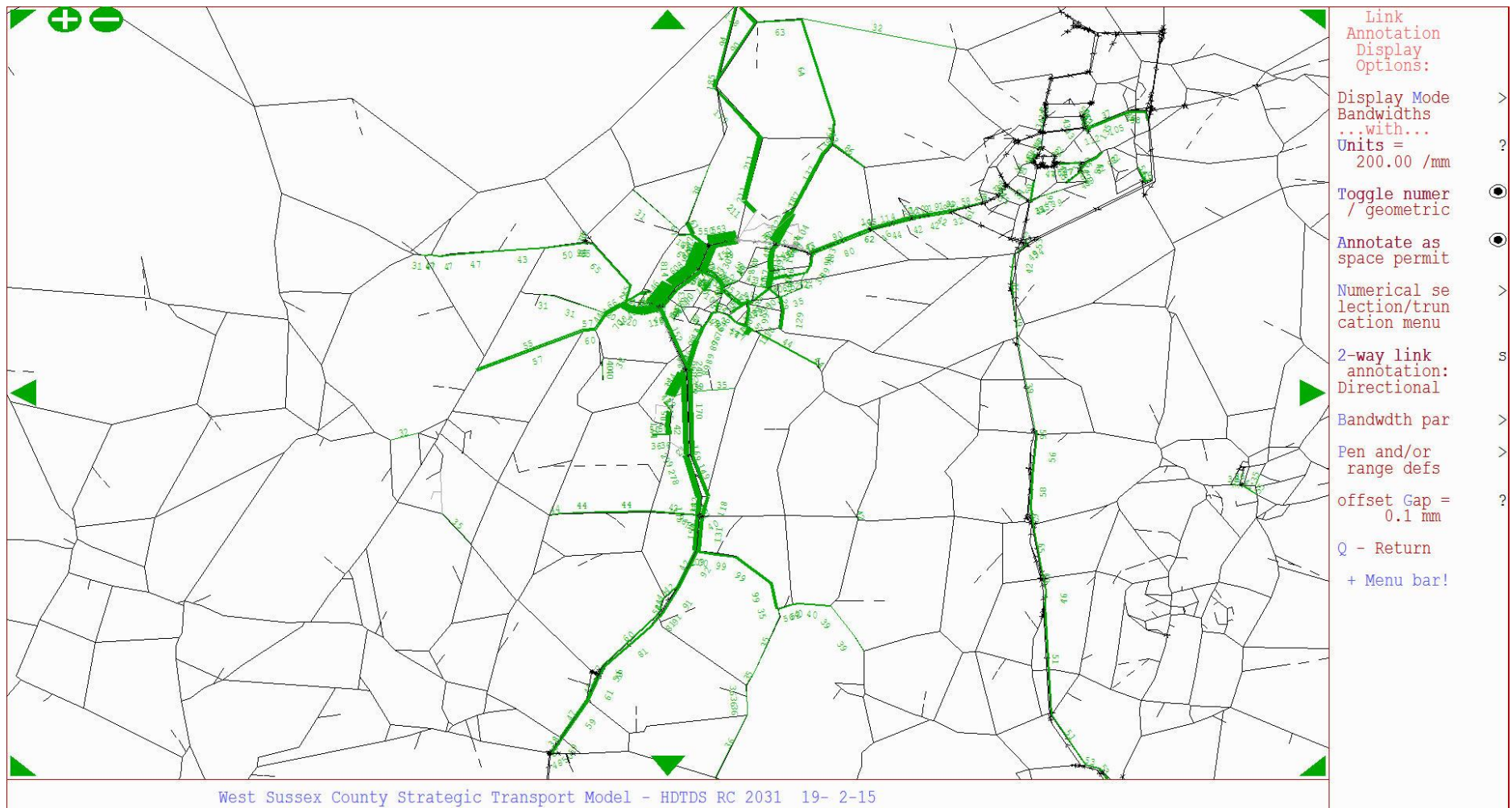


Figure B4 Traffic flow difference between S5 and S2 (Decrease > 30 pcu/hr)

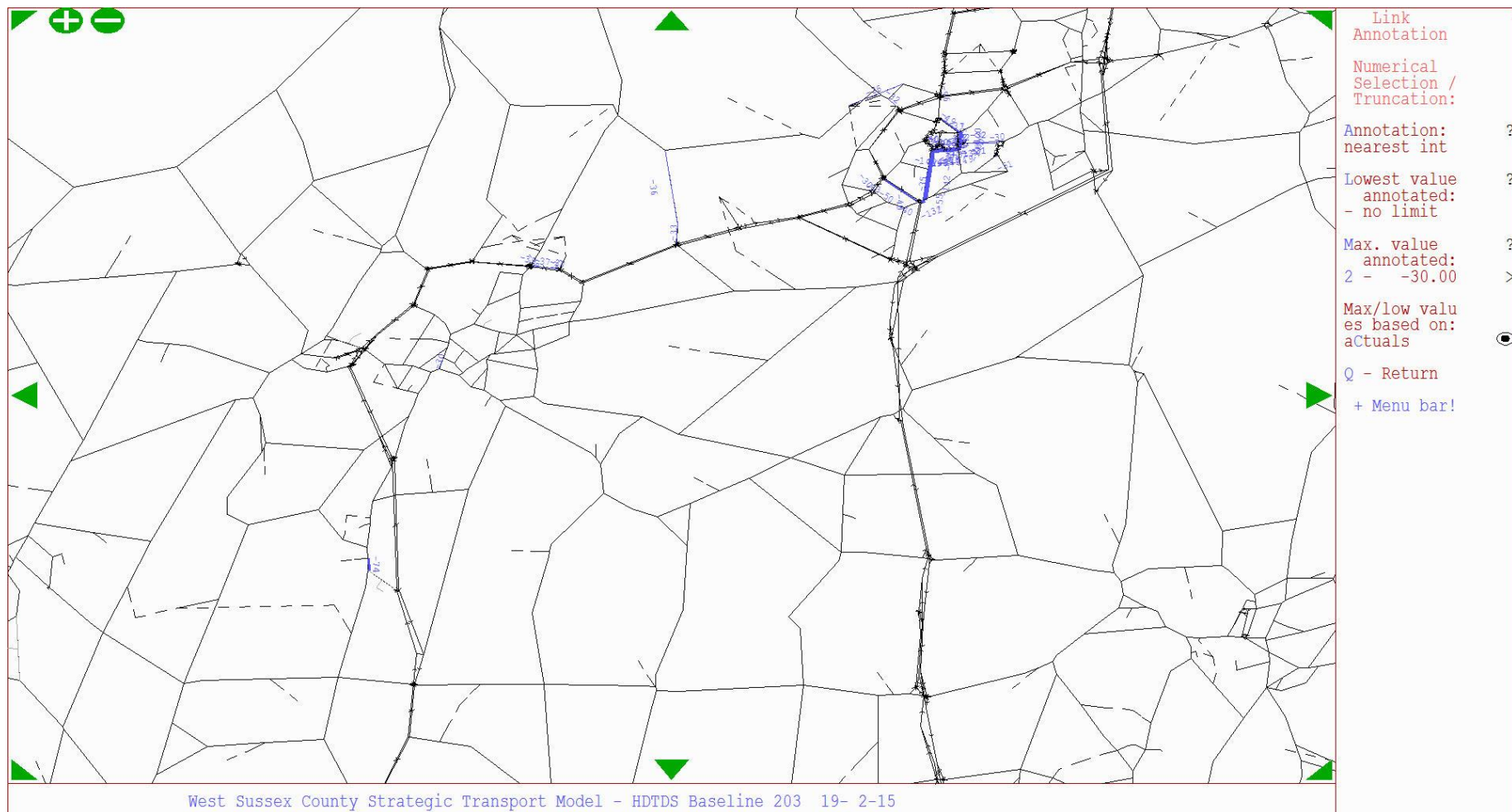


Figure B5 Traffic Flow difference between S5 and S4

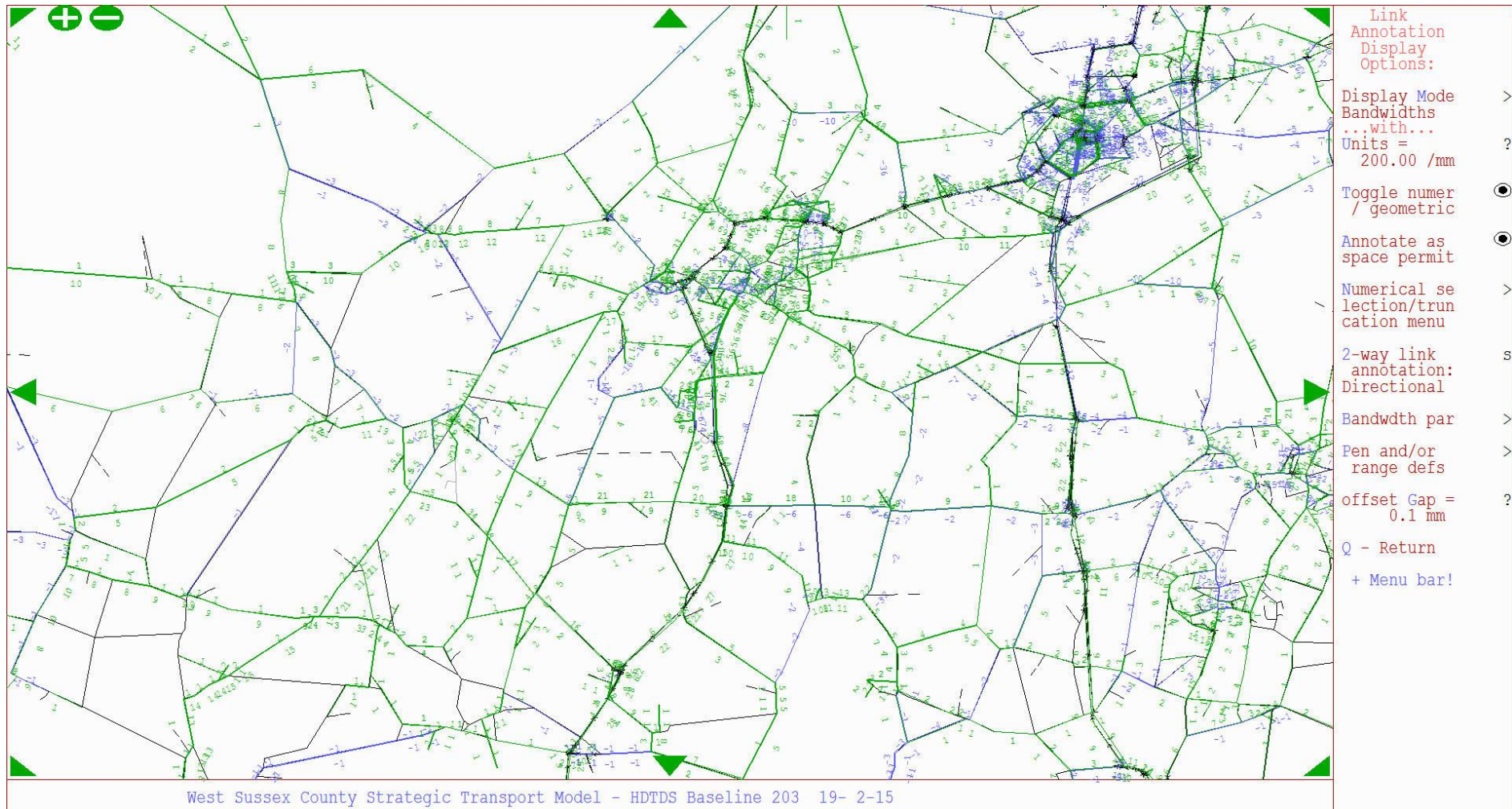


Figure B6 Traffic flow difference between S5 and S2 (Increase > 30 pcu/hr)

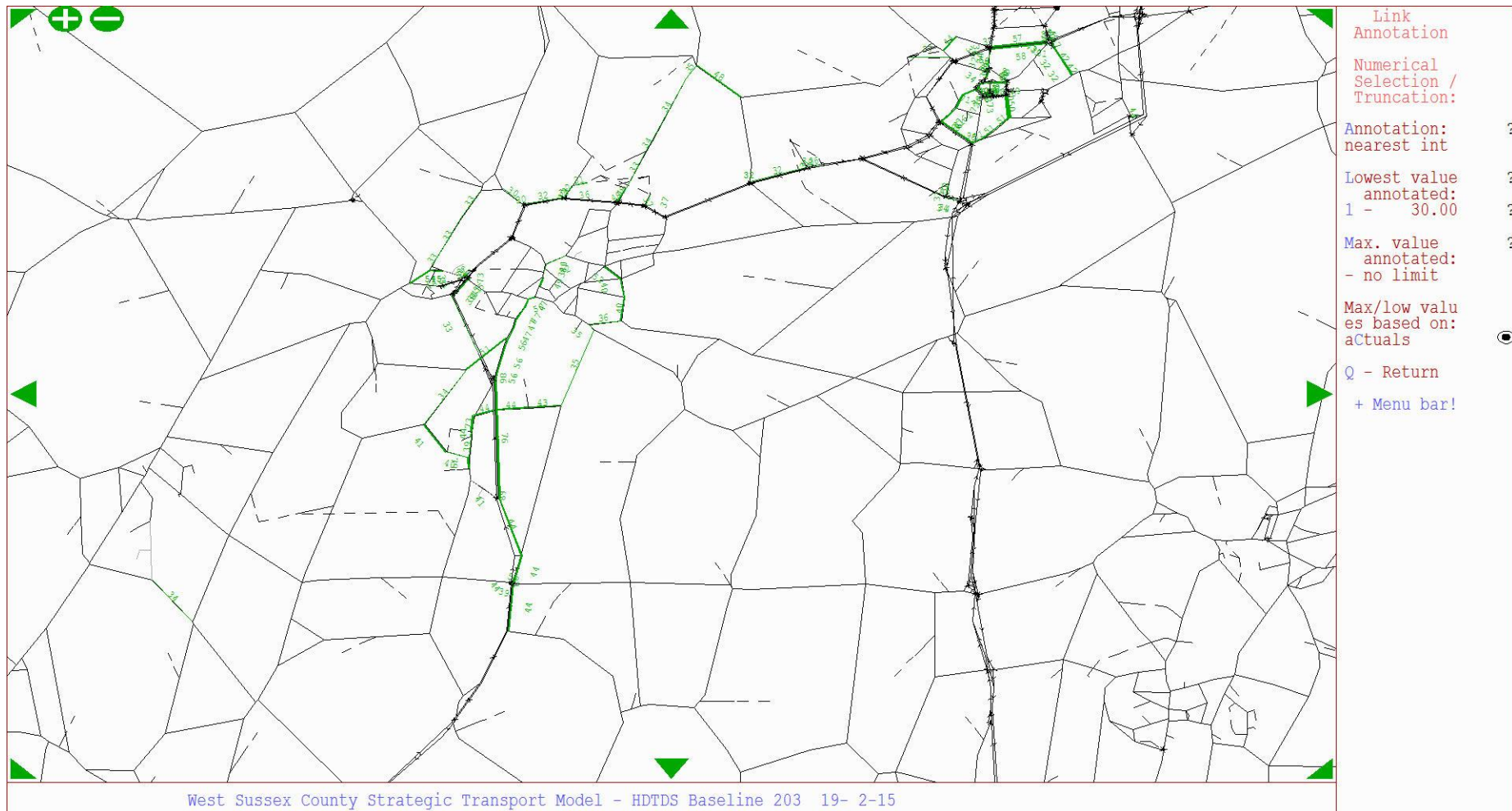


Figure B7 Traffic flow difference between S5 and S2 (Decrease > 30 pcu/hr)

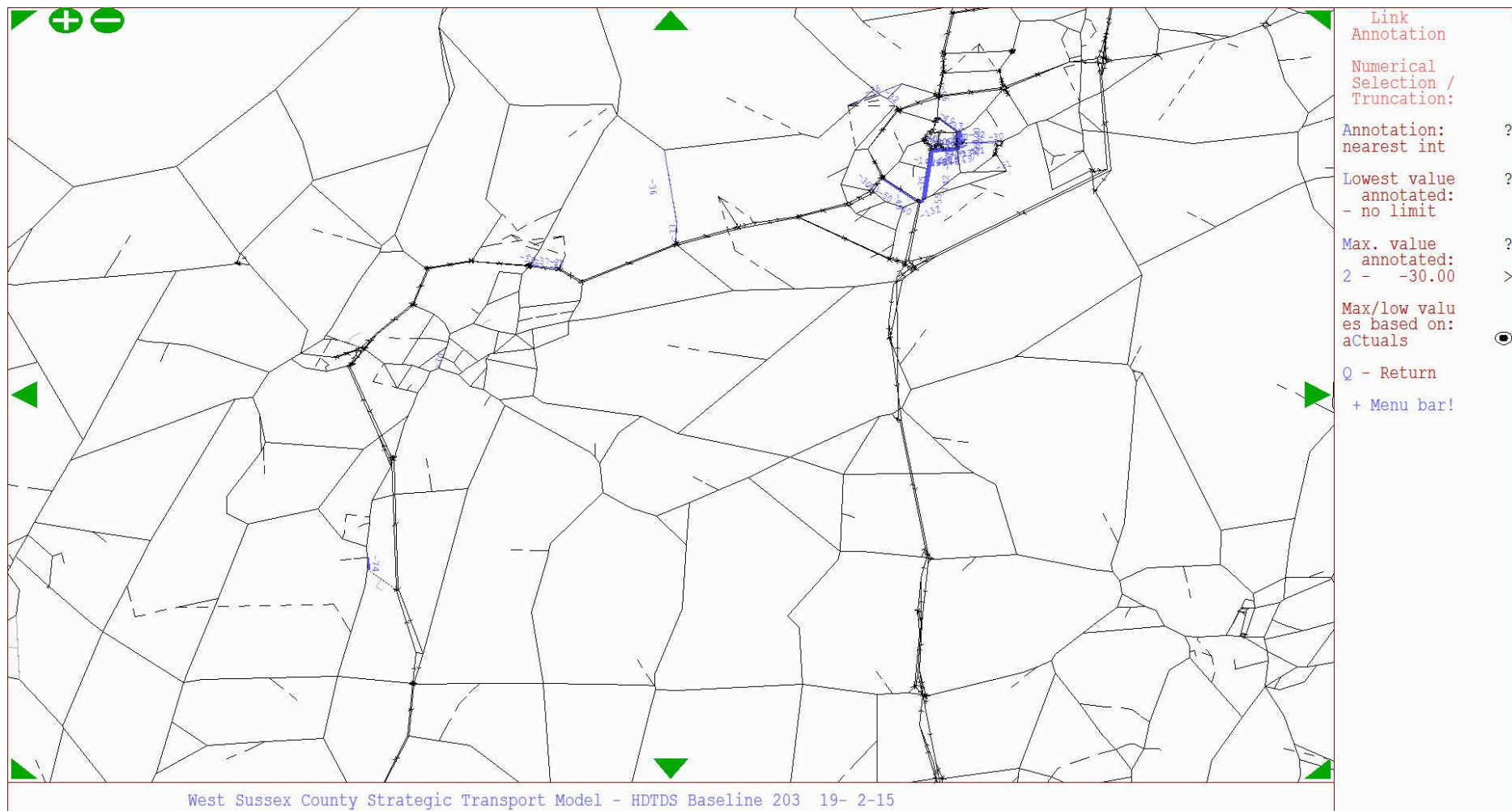


Figure B8 Scenario S5 – Vehicle Delays

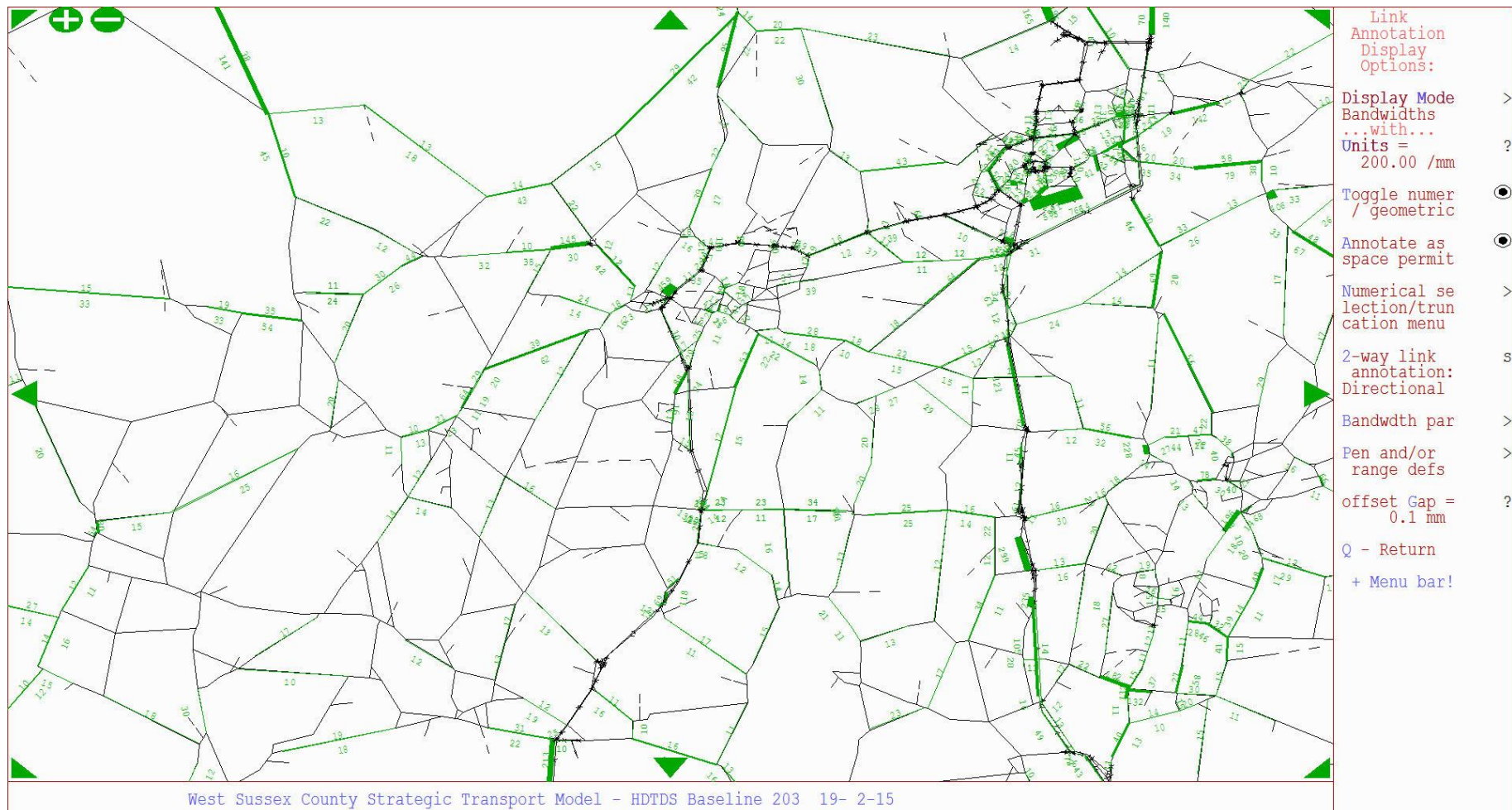


Figure B9 Vehicle Delay Difference Plot (S5-S2)

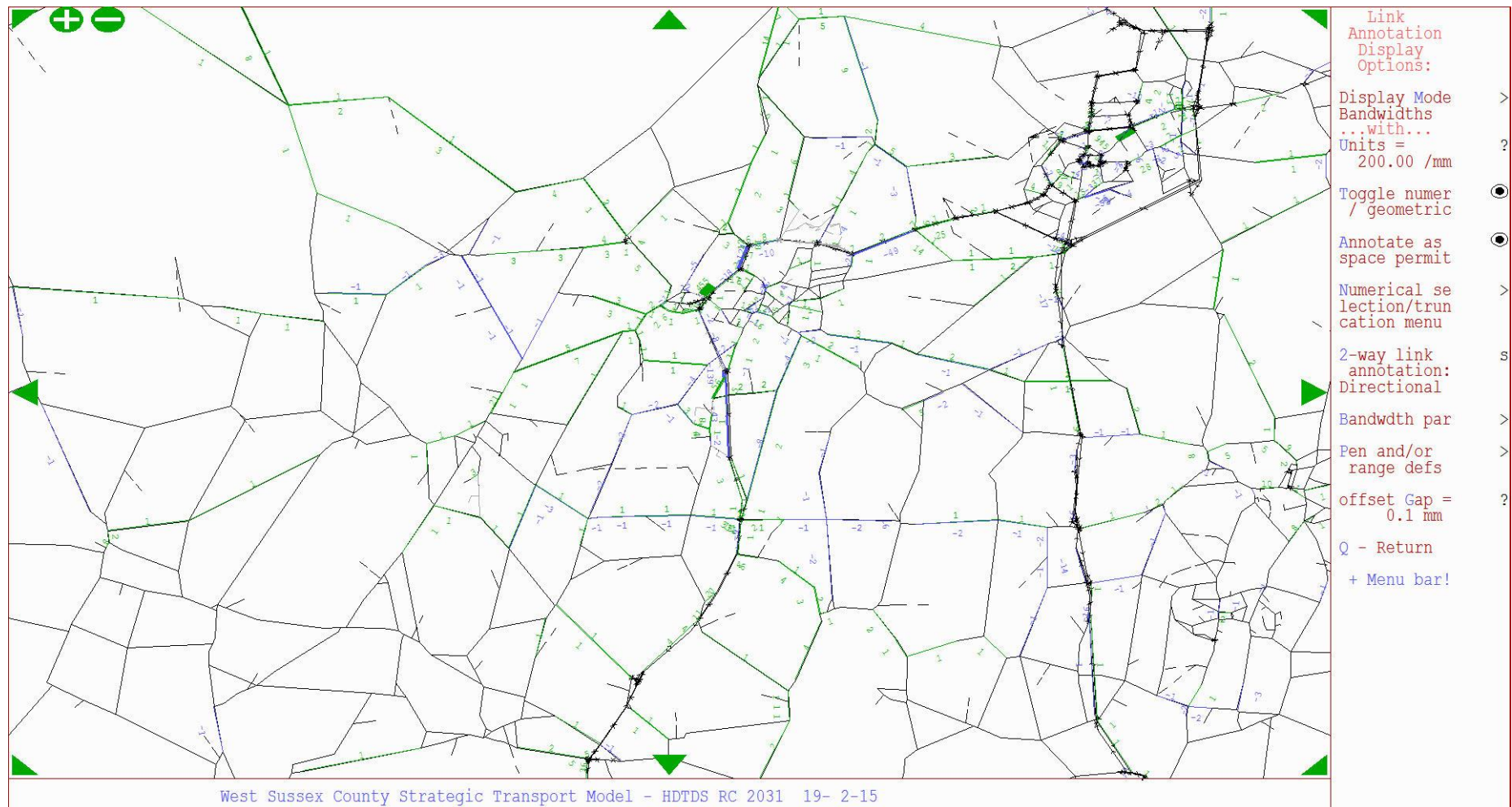


Figure B10 Vehicle Delay Difference Plot (S5-S4)

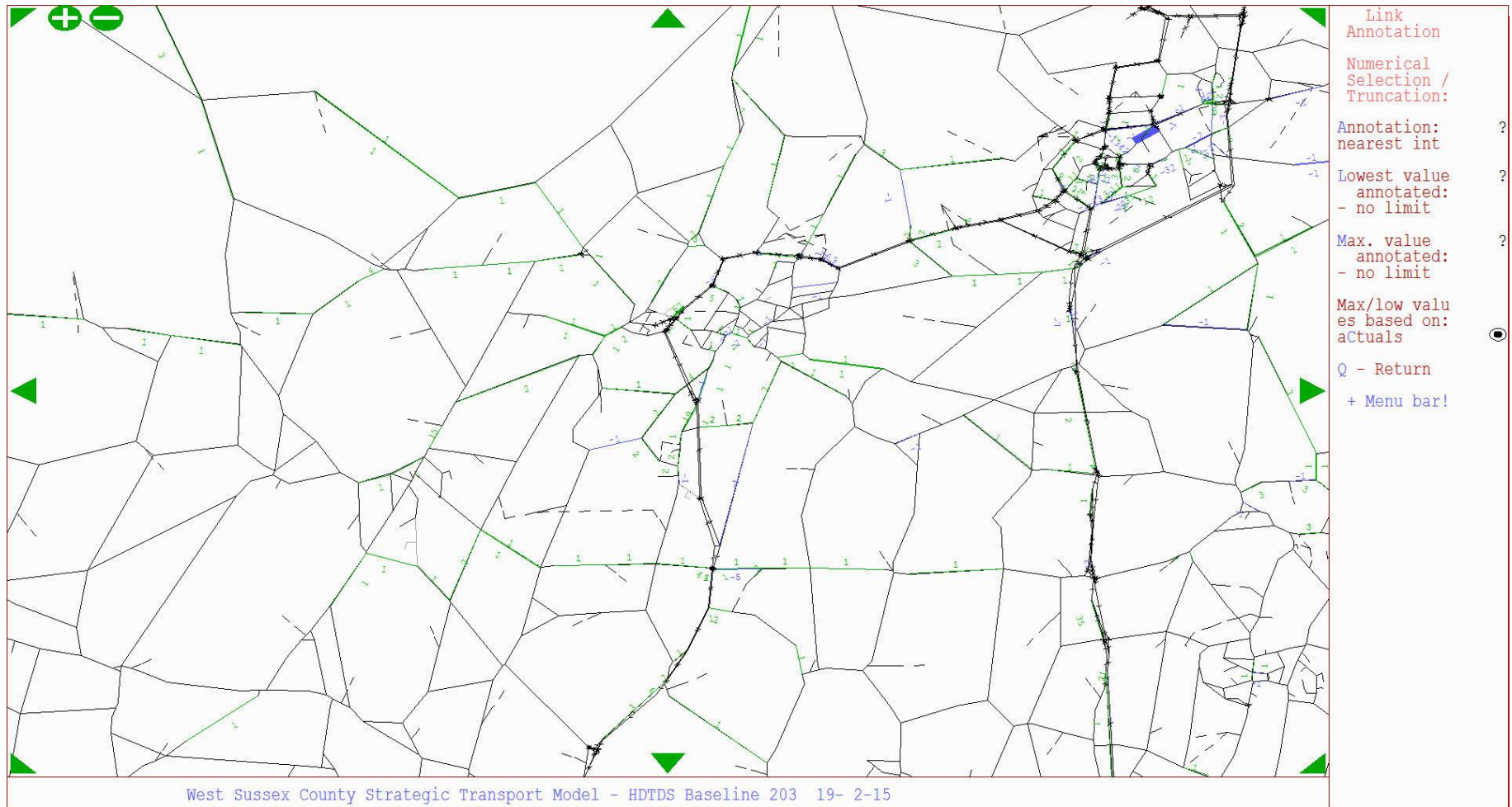


Figure B11 Scenario S5 – V/C above 85%

