



Annex I Health Village Trip Rates

TRIP RATE CALCULATION SELECTION PARAMETERS:

Land Use : 05 - HEALTH

Category : F - NURSING HOMES

MULTI-MODAL TOTAL PEOPLESelected regions and areas:

08 NORTH WEST

GM GREATER MANCHESTER

1 days

Main parameter selection:

Parameter: Number of residents

Range: 180 to 180 (units:)

Date Range: 01/01/97 to 22/06/04

Selected survey days:

Tuesday

1 days

Selected survey types:

Manual count

1 days

Directional ATC Count

0 days

LIST OF SITES relevant to selection parameters

1	GM-05-F-02	NURSING HOME, BOLTON	GREATER MANCHESTER
		BRIDGEMAN STREET	
		ROSE HILL	
		BOLTON	
	Total Number of residents:	180 *****	
	Survey date: TUESDAY	22/06/04	Survey Type: MANUAL

TRIP RATE for Land Use 05 - HEALTH/F - NURSING HOMES

MULTI-MODAL TOTAL PEOPLE

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	0	0	0.00	0	0	0.00	0	0	0.00
01:00 - 02:00	0	0	0.00	0	0	0.00	0	0	0.00
02:00 - 03:00	0	0	0.00	0	0	0.00	0	0	0.00
03:00 - 04:00	0	0	0.00	0	0	0.00	0	0	0.00
04:00 - 05:00	0	0	0.00	0	0	0.00	0	0	0.00
05:00 - 06:00	0	0	0.00	0	0	0.00	0	0	0.00
06:00 - 07:00	0	0	0.00	0	0	0.00	0	0	0.00
07:00 - 08:00	1	180	0.24	1	180	0.08	1	180	0.32
08:00 - 09:00	1	180	0.09	1	180	0.06	1	180	0.15
09:00 - 10:00	1	180	0.07	1	180	0.02	1	180	0.09
10:00 - 11:00	1	180	0.07	1	180	0.07	1	180	0.14
11:00 - 12:00	1	180	0.06	1	180	0.04	1	180	0.10
12:00 - 13:00	1	180	0.06	1	180	0.04	1	180	0.10
13:00 - 14:00	1	180	0.23	1	180	0.13	1	180	0.36
14:00 - 15:00	1	180	0.09	1	180	0.17	1	180	0.26
15:00 - 16:00	1	180	0.09	1	180	0.15	1	180	0.24
16:00 - 17:00	1	180	0.04	1	180	0.12	1	180	0.16
17:00 - 18:00	1	180	0.06	1	180	0.08	1	180	0.14
18:00 - 19:00	1	180	0.07	1	180	0.11	1	180	0.18
19:00 - 20:00	0	0	0.00	0	0	0.00	0	0	0.00
20:00 - 21:00	0	0	0.00	0	0	0.00	0	0	0.00
21:00 - 22:00	0	0	0.00	0	0	0.00	0	0	0.00
22:00 - 23:00	0	0	0.00	0	0	0.00	0	0	0.00
23:00 - 24:00	0	0	0.00	0	0	0.00	0	0	0.00
Daily Trip Rates:			1.18			1.07			2.24

Parameter summary

Trip rate parameter range selected: 180 - 180 (units:)
 Survey date range: 01/01/97 - 22/06/04
 Number of weekdays (Monday-Friday): 1
 Number of Saturdays: 0
 Number of Sundays: 0
 Optional parameters used in selection: NO
 Surveys manually removed from selection: 0

TRIP RATE CALCULATION SELECTION PARAMETERS:

Land Use : 05 - HEALTH
Category : G - GP SURGERIES

MULTI-MODAL TOTAL PEOPLE

Selected regions and areas:

02	SOUTH EAST	
	HC HAMPSHIRE	2 days
03	SOUTH WEST	
	DC DORSET	1 days
06	WEST MIDLANDS	
	ST STAFFORDSHIRE	1 days
09	NORTH	
	CB CUMBRIA	1 days
	TV TEES VALLEY	1 days

Main parameter selection:

Parameter: Number of Employees
Range: 16 to 45 (units:)

Date Range: 01/01/97 to 18/04/05

Selected survey days:

Monday	2 days
Tuesday	1 days
Wednesday	1 days
Thursday	2 days

Selected survey types:

Manual count	6 days
Directional ATC Count	0 days

LIST OF SITES relevant to selection parameters

- | | | | |
|---|---|----------------------------|---------------------|
| 1 | CB-05-G-01 | GP SURGERY, CARLISLE | CUMBRIA |
| | PORT ROAD
NEWTOWN
CARLISLE | | |
| | Total Number of Employees: 0 | | |
| | Survey date: WEDNESDAY 04/09/02 | | Survey Type: MANUAL |
| 2 | DC-05-G-03 | GP SURGERY, NEAR WEYMOUTH | DORSET |
| | PRESTON ROAD
PRESTON
NEAR WEYMOUTH | | |
| | Total Number of Employees: 0 | | |
| | Survey date: MONDAY 08/07/02 | | Survey Type: MANUAL |
| 3 | HC-05-G-02 | GP SURGERY, ROMSEY | HAMPSHIRE |
| | ALMA ROAD

ROMSEY | | |
| | Total Number of Employees: 0 | | |
| | Survey date: THURSDAY 07/11/02 | | Survey Type: MANUAL |
| 4 | HC-05-G-03 | GP SURGERY, WINCHESTER | HAMPSHIRE |
| | FRIARSGATE

WINCHESTER | | |
| | Total Number of Employees: 0 | | |
| | Survey date: THURSDAY 07/11/02 | | Survey Type: MANUAL |
| 5 | ST-05-G-01 | GP SURGERY, STOKE-ON-TRENT | STAFFORDSHIRE |
| | NEW INN LANE
HANFORD
STOKE-ON-TRENT | | |
| | Total Number of Employees: 0 | | |
| | Survey date: TUESDAY 16/07/02 | | Survey Type: MANUAL |
| 6 | TV-05-G-01 | GP SURGERY, DARLINGTON | TEES VALLEY |
| | VICTORIA ROAD

DARLINGTON | | |
| | Total Number of Employees: 0 | | |
| | Survey date: MONDAY 18/04/05 | | Survey Type: MANUAL |

TRIP RATE for Land Use 05 - HEALTH/G - GP SURGERIES

MULTI-MODAL TOTAL PEOPLE

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	0	0	0.00	0	0	0.00	0	0	0.00
01:00 - 02:00	0	0	0.00	0	0	0.00	0	0	0.00
02:00 - 03:00	0	0	0.00	0	0	0.00	0	0	0.00
03:00 - 04:00	0	0	0.00	0	0	0.00	0	0	0.00
04:00 - 05:00	0	0	0.00	0	0	0.00	0	0	0.00
05:00 - 06:00	0	0	0.00	0	0	0.00	0	0	0.00
06:00 - 07:00	0	0	0.00	0	0	0.00	0	0	0.00
07:00 - 08:00	5	34	0.33	5	34	0.19	5	34	0.52
08:00 - 09:00	6	31	1.71	6	31	0.88	6	31	2.59
09:00 - 10:00	6	31	2.55	6	31	2.05	6	31	4.60
10:00 - 11:00	6	31	2.19	6	31	2.38	6	31	4.57
11:00 - 12:00	6	31	1.54	6	31	1.96	6	31	3.50
12:00 - 13:00	6	31	1.21	6	31	1.59	6	31	2.80
13:00 - 14:00	6	31	1.28	6	31	1.25	6	31	2.53
14:00 - 15:00	6	31	1.76	6	31	1.39	6	31	3.15
15:00 - 16:00	6	31	1.59	6	31	1.54	6	31	3.13
16:00 - 17:00	6	31	1.49	6	31	1.65	6	31	3.14
17:00 - 18:00	6	31	1.14	6	31	1.59	6	31	2.73
18:00 - 19:00	6	31	0.16	6	31	0.58	6	31	0.74
19:00 - 20:00	0	0	0.00	0	0	0.00	0	0	0.00
20:00 - 21:00	0	0	0.00	0	0	0.00	0	0	0.00
21:00 - 22:00	0	0	0.00	0	0	0.00	0	0	0.00
22:00 - 23:00	0	0	0.00	0	0	0.00	0	0	0.00
23:00 - 24:00	0	0	0.00	0	0	0.00	0	0	0.00
Daily Trip Rates:			16.94			17.06			34.00

Parameter summary

Trip rate parameter range selected: 0 - 0 (units:)
 Survey date range: 01/01/97 - 18/04/05
 Number of weekdays (Monday-Friday): 6
 Number of Saturdays: 0
 Number of Sundays: 0
 Optional parameters used in selection: NO
 Surveys manually removed from selection: 0

TRIP RATE CALCULATION SELECTION PARAMETERS:

Land Use : 05 - HEALTH

Category : E - CLINICS

MULTI-MODAL TOTAL PEOPLESelected regions and areas:

01	GREATER LONDON	
	GL GREATER LONDON	1 days
03	SOUTH WEST	
	DC DORSET	1 days

Main parameter selection:

Parameter: Number of Employees

Range: 37 to 65 (units:)

Date Range: 01/01/97 to 02/09/03

Selected survey days:

Tuesday 1 days

Thursday 1 days

Selected survey types:

Manual count 2 days

Directional ATC Count 0 days

LIST OF SITES relevant to selection parameters

- | | | | |
|---|------------|-----------------------------|---------------------|
| 1 | DC-05-E-01 | MEDICAL CENTRE, SHAFTESBURY | DORSET |
| | | SALISBURY ROAD | |
| | | SHAFTESBURY | |
| | | Total Number of Employees: | 0 |
| | | Survey date: TUESDAY | 02/09/03 |
| | | | Survey Type: MANUAL |
| 2 | GL-05-E-01 | ISLAND HEALTH, ISLE OF DOGS | GREATER LONDON |
| | | EAST FERRY ROAD | |
| | | CROSSHARBOUR | |
| | | ISLE OF DOGS | |
| | | Total Number of Employees: | 0 |
| | | Survey date: THURSDAY | 20/06/02 |
| | | | Survey Type: MANUAL |

TRIP RATE for Land Use 05 - HEALTH/E - CLINICS

MULTI-MODAL TOTAL PEOPLE

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	0	0	0.00	0	0	0.00	0	0	0.00
01:00 - 02:00	0	0	0.00	0	0	0.00	0	0	0.00
02:00 - 03:00	0	0	0.00	0	0	0.00	0	0	0.00
03:00 - 04:00	0	0	0.00	0	0	0.00	0	0	0.00
04:00 - 05:00	0	0	0.00	0	0	0.00	0	0	0.00
05:00 - 06:00	0	0	0.00	0	0	0.00	0	0	0.00
06:00 - 07:00	0	0	0.00	0	0	0.00	0	0	0.00
07:00 - 08:00	2	51	0.22	2	51	0.05	2	51	0.27
08:00 - 09:00	2	51	1.18	2	51	0.41	2	51	1.59
09:00 - 10:00	2	51	2.48	2	51	1.68	2	51	4.16
10:00 - 11:00	2	51	1.87	2	51	1.85	2	51	3.72
11:00 - 12:00	2	51	1.53	2	51	1.67	2	51	3.20
12:00 - 13:00	2	51	0.96	2	51	1.51	2	51	2.47
13:00 - 14:00	2	51	0.92	2	51	0.87	2	51	1.79
14:00 - 15:00	2	51	1.13	2	51	1.03	2	51	2.16
15:00 - 16:00	2	51	0.97	2	51	1.32	2	51	2.29
16:00 - 17:00	2	51	1.20	2	51	1.20	2	51	2.40
17:00 - 18:00	2	51	0.66	2	51	1.00	2	51	1.66
18:00 - 19:00	2	51	0.61	2	51	0.84	2	51	1.45
19:00 - 20:00	1	65	0.03	1	65	0.09	1	65	0.12
20:00 - 21:00	0	0	0.00	0	0	0.00	0	0	0.00
21:00 - 22:00	0	0	0.00	0	0	0.00	0	0	0.00
22:00 - 23:00	0	0	0.00	0	0	0.00	0	0	0.00
23:00 - 24:00	0	0	0.00	0	0	0.00	0	0	0.00
Daily Trip Rates:			13.75			13.52			27.28

Parameter summary

Trip rate parameter range selected: 0 - 0 (units:)
 Survey date range: 01/01/97 - 02/09/03
 Number of weekdays (Monday-Friday): 2
 Number of Saturdays: 0
 Number of Sundays: 0
 Optional parameters used in selection: NO
 Surveys manually removed from selection: 0

TRIP RATE CALCULATION SELECTION PARAMETERS:

Land Use : 05 - HEALTH
Category : B - GENERAL HOSPITAL - WITHOUT CASUALTY
MULTI-MODAL TOTAL PEOPLE

Selected regions and areas:

02	SOUTH EAST	
	ES EAST SUSSEX	1 days
03	SOUTH WEST	
	DC DORSET	1 days

Main parameter selection:

Parameter: Number of beds
Range: 55 to 56 (units:)

Date Range: 01/01/97 to 21/10/02

Selected survey days:

Monday	1 days
Thursday	1 days

Selected survey types:

Manual count	2 days
Directional ATC Count	0 days

LIST OF SITES relevant to selection parameters

- | | | | |
|---|--|------------------------------|---------------------|
| 1 | DC-05-B-01 | COMMUNITY HOSPITAL, BRIDPORT | DORSET |
| | HOSPITAL LANE
NORTH ALLINGTON
BRIDPORT | | |
| | Total Number of beds: | 55 | ***** |
| | Survey date: MONDAY | 21/10/02 | Survey Type: MANUAL |
| 2 | ES-05-B-03 | COMMUNITY HOSPITAL, UCKFIELD | EAST SUSSEX |
| | FRAMFIELD ROAD
NEW TOWN
UCKFIELD | | |
| | Total Number of beds: | 56 | ***** |
| | Survey date: THURSDAY | 12/09/02 | Survey Type: MANUAL |

TRIP RATE for Land Use 05 - HEALTH/B - GENERAL HOSPITAL - WITHOUT CASUALTY

MULTI-MODAL TOTAL PEOPLE

Calculation factor: 1 BEDS

BOLD print indicates peak (busiest) period

Time Range	ARRIVALS			DEPARTURES			TOTALS		
	No. Days	Ave. BEDS	Trip Rate	No. Days	Ave. BEDS	Trip Rate	No. Days	Ave. BEDS	Trip Rate
00:00 - 01:00	0	0	0.00	0	0	0.00	0	0	0.00
01:00 - 02:00	0	0	0.00	0	0	0.00	0	0	0.00
02:00 - 03:00	0	0	0.00	0	0	0.00	0	0	0.00
03:00 - 04:00	0	0	0.00	0	0	0.00	0	0	0.00
04:00 - 05:00	0	0	0.00	0	0	0.00	0	0	0.00
05:00 - 06:00	0	0	0.00	0	0	0.00	0	0	0.00
06:00 - 07:00	0	0	0.00	0	0	0.00	0	0	0.00
07:00 - 08:00	2	56	0.48	2	56	0.19	2	56	0.67
08:00 - 09:00	2	56	1.16	2	56	0.24	2	56	1.40
09:00 - 10:00	2	56	1.71	2	56	0.82	2	56	2.53
10:00 - 11:00	2	56	1.09	2	56	1.16	2	56	2.25
11:00 - 12:00	2	56	1.10	2	56	1.21	2	56	2.31
12:00 - 13:00	2	56	0.92	2	56	1.11	2	56	2.03
13:00 - 14:00	2	56	1.20	2	56	0.64	2	56	1.84
14:00 - 15:00	2	56	1.53	2	56	1.34	2	56	2.87
15:00 - 16:00	2	56	0.85	2	56	1.51	2	56	2.36
16:00 - 17:00	2	56	0.86	2	56	1.74	2	56	2.60
17:00 - 18:00	2	56	0.42	2	56	0.98	2	56	1.40
18:00 - 19:00	2	56	0.26	2	56	0.31	2	56	0.57
19:00 - 20:00	1	56	0.18	1	56	0.45	1	56	0.63
20:00 - 21:00	1	56	0.13	1	56	0.20	1	56	0.32
21:00 - 22:00	1	56	0.07	1	56	0.16	1	56	0.23
22:00 - 23:00	0	0	0.00	0	0	0.00	0	0	0.00
23:00 - 24:00	0	0	0.00	0	0	0.00	0	0	0.00
Daily Trip Rates:			11.96			12.06			24.01

Parameter summary

Trip rate parameter range selected: 55 - 56 (units:)
 Survey date date range: 01/01/97 - 21/10/02
 Number of weekdays (Monday-Friday): 2
 Number of Saturdays: 0
 Number of Sundays: 0
 Optional parameters used in selection: NO
 Surveys manually removed from selection: 0



Annex J Sports Centre Trip Rates

WSP Mountbatten House Basingstoke

Licence No: 100301

TRIP RATE CALCULATION SELECTION PARAMETERS:

Land Use : 07 - LEISURE
 Category : C - SPORTS CENTRES

MULTI-MODAL VEHICLESSelected regions and areas:

03 SOUTH WEST
 DC DORSET 1 days
 GS GLOUCESTERSHIRE 1 days
06 WEST MIDLANDS
 WM WEST MIDLANDS 1 days
 WO WORCESTERSHIRE 2 days

Main parameter selection:

Parameter: Gross floor area
 Range: 3280 to 6000 (units: sqm)

Date Range: 01/01/97 to 02/02/06

Selected survey days:

Monday 1 days
 Tuesday 1 days
 Thursday 1 days
 Friday 2 days

Selected survey types:

Manual count 5 days
 Directional ATC Count 0 days

Optional parameter selection:Use Class:

D2 5 days

Location:Location Sub Category:

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

Population within 1 mile:

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

Population within 5 miles:

5,001 to 25,000 1 days
 25,001 to 50,000 1 days
 75,001 to 100,000 2 days
 250,001 to 500,000 1 days

WSP Mountbatten House Basingstoke

Licence No: 100301

Optional parameter selection (Cont.):Car ownership within 5 miles:

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

Buses/Trains per day (both directions):

<u>Frequency</u>	<u>Per Hour</u>	<u>Per Day</u>	<u>Surveys</u>
Not Known			0 days
0	0	0	1 days
<20 per day	1	20	0 days
20-39 per day	2	40	0 days
40-59 per day	3	60	0 days
60-79 per day	4	80	0 days
80+ per day	> 4	> 80	1 days

Travel Plan:

Not Known	2 days
Yes	1 days
No	2 days

LIST OF SITES relevant to selection parameters

- | | | | |
|----------|-------------------|---|------------------------|
| 1 | DC-07-C-05 | SPORTS CENTRE, BRIDPORT | DORSET |
| | | SKILLING HILL ROAD
SKILLING
BRIDPORT
Total Gross floor area: 5600 sqm
Survey date: TUESDAY 11/07/00 | Survey Type: MANUAL |
| 2 | GS-07-C-01 | LEISURE CENTRE, GLOUCESTER | GLOUCESTERSHIRE |
| | | BRUTON WAY

GLOUCESTER
Total Gross floor area: 5886 sqm
Survey date: MONDAY 24/05/04 | Survey Type: MANUAL |
| 3 | WM-07-C-01 | SPORTS CENTRE, COVENTRY | WEST MIDLANDS |
| | | LIVINGSTONE ROAD

COVENTRY
Total Gross floor area: 3280 sqm
Survey date: THURSDAY 02/02/06 | Survey Type: MANUAL |
| 4 | WO-07-C-01 | SPORTS CENTRE, DROITWICH | WORCESTERSHIRE |
| | | BRIAR MILL
WYCHAVON
DROITWICH
Total Gross floor area: 6000 sqm
Survey date: FRIDAY 21/07/00 | Survey Type: MANUAL |
| 5 | WO-07-C-02 | SPORTS CENTRE, DROITWICH | WORCESTERSHIRE |
| | | BRIAR HILL
WYCHAVON
DROITWICH SPA
Total Gross floor area: 6000 sqm
Survey date: FRIDAY 01/07/05 | Survey Type: MANUAL |

TRIP RATE for Land Use 07 - LEISURE/C - SPORTS CENTRES

MULTI-MODAL VEHICLES

Calculation factor: 100 sqm

BOLD print indicates peak (busiest) period

Time Range	ARRIVALS			DEPARTURES			TOTALS		
	No. Days	Ave. GFA	Trip Rate	No. Days	Ave. GFA	Trip Rate	No. Days	Ave. GFA	Trip Rate
00:00 - 01:00	0	0	0.00	0	0	0.00	0	0	0.00
01:00 - 02:00	0	0	0.00	0	0	0.00	0	0	0.00
02:00 - 03:00	0	0	0.00	0	0	0.00	0	0	0.00
03:00 - 04:00	0	0	0.00	0	0	0.00	0	0	0.00
04:00 - 05:00	0	0	0.00	0	0	0.00	0	0	0.00
05:00 - 06:00	0	0	0.00	0	0	0.00	0	0	0.00
06:00 - 07:00	1	5600	0.38	1	5600	0.02	1	5600	0.40
07:00 - 08:00	3	5829	0.54	3	5829	0.27	3	5829	0.81
08:00 - 09:00	3	5829	0.53	3	5829	0.53	3	5829	1.06
09:00 - 10:00	3	5829	0.87	3	5829	0.40	3	5829	1.27
10:00 - 11:00	4	5192	0.49	4	5192	0.54	4	5192	1.03
11:00 - 12:00	4	5192	0.43	4	5192	0.57	4	5192	1.00
12:00 - 13:00	5	5353	0.44	5	5353	0.44	5	5353	0.88
13:00 - 14:00	5	5353	0.50	5	5353	0.52	5	5353	1.02
14:00 - 15:00	5	5353	0.61	5	5353	0.51	5	5353	1.12
15:00 - 16:00	5	5353	0.76	5	5353	0.83	5	5353	1.59
16:00 - 17:00	5	5353	0.96	5	5353	0.78	5	5353	1.74
17:00 - 18:00	5	5353	1.02	5	5353	0.90	5	5353	1.92
18:00 - 19:00	5	5353	1.06	5	5353	0.75	5	5353	1.81
19:00 - 20:00	5	5353	1.13	5	5353	1.20	5	5353	2.33
20:00 - 21:00	5	5353	0.55	5	5353	0.88	5	5353	1.43
21:00 - 22:00	5	5353	0.09	5	5353	0.64	5	5353	0.73
22:00 - 23:00	1	5600	0.02	1	5600	0.16	1	5600	0.18
23:00 - 24:00	0	0	0.00	0	0	0.00	0	0	0.00
Daily Trip Rates:			10.38			9.96			20.32

Parameter summary

Trip rate parameter range selected: 3280 - 6000 (units: sqm)
 Survey date date range: 01/01/97 - 02/02/06
 Number of weekdays (Monday-Friday): 5
 Number of Saturdays: 0
 Number of Sundays: 0
 Optional parameters used in selection: NO
 Surveys manually removed from selection: 0

WSP Mountbatten House Basingstoke

Licence No: 100301

TRIP RATE for Land Use 07 - LEISURE/C - SPORTS CENTRES

MULTI-MODAL VEHICLE OCCUPANTS

Calculation factor: 100 sqm

BOLD print indicates peak (busiest) period

Time Range	ARRIVALS			DEPARTURES			TOTALS		
	No. Days	Ave. GFA	Trip Rate	No. Days	Ave. GFA	Trip Rate	No. Days	Ave. GFA	Trip Rate
00:00 - 01:00	0	0	0.00	0	0	0.00	0	0	0.00
01:00 - 02:00	0	0	0.00	0	0	0.00	0	0	0.00
02:00 - 03:00	0	0	0.00	0	0	0.00	0	0	0.00
03:00 - 04:00	0	0	0.00	0	0	0.00	0	0	0.00
04:00 - 05:00	0	0	0.00	0	0	0.00	0	0	0.00
05:00 - 06:00	0	0	0.00	0	0	0.00	0	0	0.00
06:00 - 07:00	1	5600	0.46	1	5600	0.04	1	5600	0.50
07:00 - 08:00	3	5829	0.61	3	5829	0.30	3	5829	0.91
08:00 - 09:00	3	5829	0.73	3	5829	0.63	3	5829	1.36
09:00 - 10:00	3	5829	1.24	3	5829	0.50	3	5829	1.74
10:00 - 11:00	4	5192	0.73	4	5192	0.75	4	5192	1.48
11:00 - 12:00	4	5192	0.65	4	5192	0.84	4	5192	1.49
12:00 - 13:00	5	5353	0.64	5	5353	0.60	5	5353	1.24
13:00 - 14:00	5	5353	0.75	5	5353	0.73	5	5353	1.48
14:00 - 15:00	5	5353	0.87	5	5353	0.72	5	5353	1.59
15:00 - 16:00	5	5353	1.26	5	5353	1.48	5	5353	2.74
16:00 - 17:00	5	5353	1.72	5	5353	1.34	5	5353	3.06
17:00 - 18:00	5	5353	1.49	5	5353	1.71	5	5353	3.20
18:00 - 19:00	5	5353	1.63	5	5353	1.16	5	5353	2.79
19:00 - 20:00	5	5353	1.78	5	5353	1.90	5	5353	3.68
20:00 - 21:00	5	5353	0.81	5	5353	1.30	5	5353	2.11
21:00 - 22:00	5	5353	0.13	5	5353	0.96	5	5353	1.09
22:00 - 23:00	1	5600	0.05	1	5600	0.23	1	5600	0.28
23:00 - 24:00	0	0	0.00	0	0	0.00	0	0	0.00
Daily Trip Rates:			15.54			15.20			30.74

Parameter summary

Trip rate parameter range selected: 3280 - 6000 (units: sqm)
 Survey date range: 01/01/97 - 02/02/06
 Number of weekdays (Monday-Friday): 5
 Number of Saturdays: 0
 Number of Sundays: 0
 Optional parameters used in selection: NO
 Surveys manually removed from selection: 0

WSP Mountbatten House Basingstoke

Licence No: 100301

TRIP RATE for Land Use 07 - LEISURE/C - SPORTS CENTRES

MULTI-MODAL PEDESTRIANS

Calculation factor: 100 sqm

BOLD print indicates peak (busiest) period

Time Range	ARRIVALS			DEPARTURES			TOTALS		
	No. Days	Ave. GFA	Trip Rate	No. Days	Ave. GFA	Trip Rate	No. Days	Ave. GFA	Trip Rate
00:00 - 01:00	0	0	0.00	0	0	0.00	0	0	0.00
01:00 - 02:00	0	0	0.00	0	0	0.00	0	0	0.00
02:00 - 03:00	0	0	0.00	0	0	0.00	0	0	0.00
03:00 - 04:00	0	0	0.00	0	0	0.00	0	0	0.00
04:00 - 05:00	0	0	0.00	0	0	0.00	0	0	0.00
05:00 - 06:00	0	0	0.00	0	0	0.00	0	0	0.00
06:00 - 07:00	1	5600	0.04	1	5600	0.00	1	5600	0.04
07:00 - 08:00	3	5829	0.07	3	5829	0.02	3	5829	0.09
08:00 - 09:00	3	5829	0.26	3	5829	0.14	3	5829	0.40
09:00 - 10:00	3	5829	0.19	3	5829	0.14	3	5829	0.33
10:00 - 11:00	4	5192	0.24	4	5192	0.14	4	5192	0.38
11:00 - 12:00	4	5192	0.18	4	5192	0.19	4	5192	0.37
12:00 - 13:00	5	5353	0.15	5	5353	0.12	5	5353	0.27
13:00 - 14:00	5	5353	0.41	5	5353	0.15	5	5353	0.56
14:00 - 15:00	5	5353	0.15	5	5353	0.49	5	5353	0.64
15:00 - 16:00	5	5353	0.29	5	5353	0.22	5	5353	0.51
16:00 - 17:00	5	5353	0.16	5	5353	0.11	5	5353	0.27
17:00 - 18:00	5	5353	0.24	5	5353	0.24	5	5353	0.48
18:00 - 19:00	5	5353	0.24	5	5353	0.12	5	5353	0.36
19:00 - 20:00	5	5353	0.15	5	5353	0.18	5	5353	0.33
20:00 - 21:00	5	5353	0.10	5	5353	0.08	5	5353	0.18
21:00 - 22:00	5	5353	0.01	5	5353	0.05	5	5353	0.06
22:00 - 23:00	1	5600	0.00	1	5600	0.04	1	5600	0.04
23:00 - 24:00	0	0	0.00	0	0	0.00	0	0	0.00
Daily Trip Rates:			2.88			2.44			5.31

Parameter summary

Trip rate parameter range selected: 3280 - 6000 (units: sqm)
 Survey date range: 01/01/97 - 02/02/06
 Number of weekdays (Monday-Friday): 5
 Number of Saturdays: 0
 Number of Sundays: 0
 Optional parameters used in selection: NO
 Surveys manually removed from selection: 0

TRIP RATE for Land Use 07 - LEISURE/C - SPORTS CENTRES

MULTI-MODAL CYCLISTS

Calculation factor: 100 sqm

BOLD print indicates peak (busiest) period

Time Range	ARRIVALS			DEPARTURES			TOTALS		
	No. Days	Ave. GFA	Trip Rate	No. Days	Ave. GFA	Trip Rate	No. Days	Ave. GFA	Trip Rate
00:00 - 01:00	0	0	0.00	0	0	0.00	0	0	0.00
01:00 - 02:00	0	0	0.00	0	0	0.00	0	0	0.00
02:00 - 03:00	0	0	0.00	0	0	0.00	0	0	0.00
03:00 - 04:00	0	0	0.00	0	0	0.00	0	0	0.00
04:00 - 05:00	0	0	0.00	0	0	0.00	0	0	0.00
05:00 - 06:00	0	0	0.00	0	0	0.00	0	0	0.00
06:00 - 07:00	1	5600	0.00	1	5600	0.00	1	5600	0.00
07:00 - 08:00	3	5829	0.03	3	5829	0.02	3	5829	0.05
08:00 - 09:00	3	5829	0.04	3	5829	0.02	3	5829	0.06
09:00 - 10:00	3	5829	0.06	3	5829	0.06	3	5829	0.12
10:00 - 11:00	4	5192	0.04	4	5192	0.01	4	5192	0.05
11:00 - 12:00	4	5192	0.02	4	5192	0.02	4	5192	0.04
12:00 - 13:00	5	5353	0.01	5	5353	0.01	5	5353	0.02
13:00 - 14:00	5	5353	0.02	5	5353	0.03	5	5353	0.05
14:00 - 15:00	5	5353	0.01	5	5353	0.01	5	5353	0.02
15:00 - 16:00	5	5353	0.01	5	5353	0.04	5	5353	0.05
16:00 - 17:00	5	5353	0.02	5	5353	0.01	5	5353	0.03
17:00 - 18:00	5	5353	0.04	5	5353	0.03	5	5353	0.07
18:00 - 19:00	5	5353	0.03	5	5353	0.04	5	5353	0.07
19:00 - 20:00	5	5353	0.02	5	5353	0.02	5	5353	0.04
20:00 - 21:00	5	5353	0.01	5	5353	0.03	5	5353	0.04
21:00 - 22:00	5	5353	0.00	5	5353	0.01	5	5353	0.01
22:00 - 23:00	1	5600	0.00	1	5600	0.00	1	5600	0.00
23:00 - 24:00	0	0	0.00	0	0	0.00	0	0	0.00
Daily Trip Rates:			0.38			0.37			0.72

Parameter summary

Trip rate parameter range selected: 3280 - 6000 (units: sqm)
 Survey date date range: 01/01/97 - 02/02/06
 Number of weekdays (Monday-Friday): 5
 Number of Saturdays: 0
 Number of Sundays: 0
 Optional parameters used in selection: NO
 Surveys manually removed from selection: 0

TRIP RATE for Land Use 07 - LEISURE/C - SPORTS CENTRES

MULTI-MODAL BUS/TRAM PASSENGERS

Calculation factor: 100 sqm

BOLD print indicates peak (busiest) period

Time Range	ARRIVALS			DEPARTURES			TOTALS		
	No. Days	Ave. GFA	Trip Rate	No. Days	Ave. GFA	Trip Rate	No. Days	Ave. GFA	Trip Rate
00:00 - 01:00	0	0	0.00	0	0	0.00	0	0	0.00
01:00 - 02:00	0	0	0.00	0	0	0.00	0	0	0.00
02:00 - 03:00	0	0	0.00	0	0	0.00	0	0	0.00
03:00 - 04:00	0	0	0.00	0	0	0.00	0	0	0.00
04:00 - 05:00	0	0	0.00	0	0	0.00	0	0	0.00
05:00 - 06:00	0	0	0.00	0	0	0.00	0	0	0.00
06:00 - 07:00	0	0	0.00	0	0	0.00	0	0	0.00
07:00 - 08:00	1	5886	0.02	1	5886	0.02	1	5886	0.04
08:00 - 09:00	1	5886	0.02	1	5886	0.02	1	5886	0.04
09:00 - 10:00	1	5886	0.07	1	5886	0.02	1	5886	0.09
10:00 - 11:00	2	4583	0.56	2	4583	0.03	2	4583	0.59
11:00 - 12:00	2	4583	0.04	2	4583	0.56	2	4583	0.60
12:00 - 13:00	2	4583	0.01	2	4583	0.08	2	4583	0.09
13:00 - 14:00	2	4583	0.04	2	4583	0.04	2	4583	0.08
14:00 - 15:00	2	4583	0.00	2	4583	0.00	2	4583	0.00
15:00 - 16:00	2	4583	0.11	2	4583	0.04	2	4583	0.15
16:00 - 17:00	2	4583	0.15	2	4583	0.05	2	4583	0.20
17:00 - 18:00	2	4583	0.09	2	4583	0.09	2	4583	0.18
18:00 - 19:00	2	4583	0.07	2	4583	0.04	2	4583	0.11
19:00 - 20:00	2	4583	0.01	2	4583	0.07	2	4583	0.08
20:00 - 21:00	2	4583	0.00	2	4583	0.10	2	4583	0.10
21:00 - 22:00	2	4583	0.00	2	4583	0.00	2	4583	0.00
22:00 - 23:00	0	0	0.00	0	0	0.00	0	0	0.00
23:00 - 24:00	0	0	0.00	0	0	0.00	0	0	0.00
Daily Trip Rates:			1.18			1.15			2.35

Parameter summary

Trip rate parameter range selected: 3280 - 6000 (units: sqm)
 Survey date date range: 01/01/97 - 02/02/06
 Number of weekdays (Monday-Friday): 5
 Number of Saturdays: 0
 Number of Sundays: 0
 Optional parameters used in selection: NO
 Surveys manually removed from selection: 0

TRIP RATE CALCULATION SELECTION PARAMETERS:

Land Use : 07 - LEISURE

Category : C - SPORTS CENTRES

MULTI-MODAL TRAIN PASSENGERSSelected regions and areas:

03 SOUTH WEST	
DC DORSET	1 days
GS GLOUCESTERSHIRE	1 days
06 WEST MIDLANDS	
WM WEST MIDLANDS	1 days
WO WORCESTERSHIRE	2 days

Main parameter selection:

Parameter: Gross floor area
 Range: 3280 to 6000 (units: sqm)

Date Range: 01/01/97 to 02/02/06

Selected survey days:

Monday	1 days
Tuesday	1 days
Thursday	1 days
Friday	2 days

Selected survey types:

Manual count	5 days
Directional ATC Count	0 days

Optional parameter selection:Use Class:

D2 5 days

Location:Location Sub Category:

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

Population within 1 mile:

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

Population within 5 miles:

5,001 to 25,000	1 days
25,001 to 50,000	1 days
75,001 to 100,000	2 days
250,001 to 500,000	1 days

TRIP RATE for Land Use 07 - LEISURE/C - SPORTS CENTRES

MULTI-MODAL TRAIN PASSENGERS

Calculation factor: 100 sqm

BOLD print indicates peak (busiest) period

Time Range	ARRIVALS			DEPARTURES			TOTALS		
	No. Days	Ave. GFA	Trip Rate	No. Days	Ave. GFA	Trip Rate	No. Days	Ave. GFA	Trip Rate
00:00 - 01:00	0	0	0.00	0	0	0.00	0	0	0.00
01:00 - 02:00	0	0	0.00	0	0	0.00	0	0	0.00
02:00 - 03:00	0	0	0.00	0	0	0.00	0	0	0.00
03:00 - 04:00	0	0	0.00	0	0	0.00	0	0	0.00
04:00 - 05:00	0	0	0.00	0	0	0.00	0	0	0.00
05:00 - 06:00	0	0	0.00	0	0	0.00	0	0	0.00
06:00 - 07:00	0	0	0.00	0	0	0.00	0	0	0.00
07:00 - 08:00	0	0	0.00	0	0	0.00	0	0	0.00
08:00 - 09:00	0	0	0.00	0	0	0.00	0	0	0.00
09:00 - 10:00	0	0	0.00	0	0	0.00	0	0	0.00
10:00 - 11:00	0	0	0.00	0	0	0.00	0	0	0.00
11:00 - 12:00	0	0	0.00	0	0	0.00	0	0	0.00
12:00 - 13:00	0	0	0.00	0	0	0.00	0	0	0.00
13:00 - 14:00	0	0	0.00	0	0	0.00	0	0	0.00
14:00 - 15:00	0	0	0.00	0	0	0.00	0	0	0.00
15:00 - 16:00	0	0	0.00	0	0	0.00	0	0	0.00
16:00 - 17:00	0	0	0.00	0	0	0.00	0	0	0.00
17:00 - 18:00	0	0	0.00	0	0	0.00	0	0	0.00
18:00 - 19:00	0	0	0.00	0	0	0.00	0	0	0.00
19:00 - 20:00	0	0	0.00	0	0	0.00	0	0	0.00
20:00 - 21:00	0	0	0.00	0	0	0.00	0	0	0.00
21:00 - 22:00	0	0	0.00	0	0	0.00	0	0	0.00
22:00 - 23:00	0	0	0.00	0	0	0.00	0	0	0.00
23:00 - 24:00	0	0	0.00	0	0	0.00	0	0	0.00
Daily Trip Rates:			0.00			0.00			0.00

Parameter summary

Trip rate parameter range selected: 3280 - 6000 (units: sqm)
 Survey date date range: 01/01/97 - 02/02/06
 Number of weekdays (Monday-Friday): 5
 Number of Saturdays: 0
 Number of Sundays: 0
 Optional parameters used in selection: NO
 Surveys manually removed from selection: 0

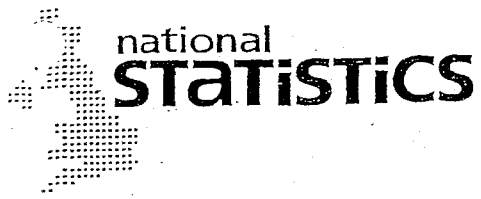


APPENDIX K

Mode Share Data

BICESTER AS ORIGIN DISTRIBUTION

ACTUAL TRIP SPLIT	ROUTE							TOTAL	%	Mode	%	Mode
CODE	A	B	C	D	E	F	G					
DESCRIPTION	A4421/A421	A41(E/W)	M40(S) VIA A41	A34(S)	M40 (N) VIA B4030		Internal (All Bicester)					
TRAIN	0	18	222	63	9	0	21	333	2%	TRAIN	33%	Public Transport
BUS	30	12	33	559	9	0	78	721	5%	BUS		
CAR D	526	832	1379	5081	327	0	2834	10979	71%	CAR D		
CAR P	30	39	51	538	9	0	482	1149	7%	CAR P		
MCYCLE	3	3	21	93	9	0	39	168	1%	MCYCLE		
BICYCLE	3	9	9	168	0	0	633	822	5%	BICYCLE	25%	BICYCLE
WALKING	0	3	15	83	0	0	1262	1363	9%	WALKING	42%	WALKING
ALL MODES	592	916	1730	6585	363	0	5349	15535	100%			



Department for
Transport

Personal Travel Factsheets

WSPD BASINGSTOKE
LIBRARY
C3

Table 4: Percentage of trips to school and average length by main mode and area type: 1999/2001

							Percentage/miles	
	London	English Metropolitan	Large Urban	Medium Urban	Small Urban	Rural	All areas 1999/2001	All areas 1989/1991
5-10 year olds								
Walk	62	64	56	53	51	41	54	62
Car	31	32	38	41	42	42	39	27
Bus	5	3	4	5	6	14	6	9
Other (mostly taxi)	3	1	1	1	1	3	1	2
All modes	100	100	100	100	100	100	100	100
Average trip length	1.1	1.1	1.0	1.3	1.6	2.2	1.4	1.3
11-16 year olds								
Walk	38	42	42	52	44	25	43	48
Bicycle	1	1	2	3	3	1	2	5
Car	13	20	18	20	19	20	18	14
Bus	36	35	33	23	33	49	32	30
Other (mostly rail)	13	2	5	3	1	5	4	3
All modes	100	100	100	100	100	100	100	100
Average trip length	3.2	2.1	2.4	2.5	3.1	5.1	2.9	2.8
5-16 year olds								
Walk	50	53	49	53	48	33	49	56
Bicycle	1	1	1	2	2	1	1	3
Car	22	26	28	30	30	31	28	21
Bus	20	19	18	17	19	32	19	19
Other	7	1	3	2	1	4	2	2
All modes	100	100	100	100	100	100	100	100
Average trip length	2.1	1.6	1.7	1.9	2.3	3.7	2.2	2.0

EDUCATION MODE SHARE

reduce for affordable (30% affordable at 25% lower rates)

	AM			PM		
	in	out	tot	in	out	tot
Non Car	162	679	841	350	153	503
driver	147	616	762	572	249	821
pass	68	284	352	245	107	352
total	376	1579	1955	1167	509	1676

Education Trips - 43% of AM : 4% of PM

	AM			PM		
	in	out	tot	in	out	tot
total	-104	-438	-542	-30	-13	-43

0.43 43% of trips in AM
0.04 4% of trips in pm

Breakdown of Education

Primary	0.45	0.64 Not on the site
Secondary	0.19	
Tertiary	0.20	
Total	0.84	

Primary Trips

	AM			PM		
	in	out	tot	in	out	tot
total	-73	-306	-378	-21	-9	-30

Secondary Trips

	AM			PM		
	in	out	tot	in	out	tot
total	-31	-132	-163	-9	-4	-13

Non Car Mode Share of school trips

driver	0.453
pass	0.219
total	0.328
total	1.00

Non Car Mode Share of school trips

driver	0.706
pass	0.118
total	0.176
total	1.00

Calculating Mode Share

	5-10 yr olds	11-16 yr olds
Walk	41	25
Bicycle	0	1
Car	42	20
Bus	14	49
Other (mostly Rail)	3	5
All Modes	100	100

Primary Trips

	AM			PM		
	in	out	tot	in	out	tot
Non Car	-33	-138	-171	-10	-4	-14
driver	-16	-67	-83	-5	-2	-7
pass	-24	-100	-124	-7	-3	-10
total	-73	-306	-378	-21	-9	-30

Secondary Trips

	AM			PM		
	in	out	tot	in	out	tot
Non Car	-22	-93	-115	-6	-3	-9
driver	-4	-16	-19	-1	0	-2
pass	-6	-23	-29	-2	-1	-2
total	-31	-132	-163	-9	-4	-13

Mode Shares of School Children

	5-10 yr olds	11-16 yr olds
Non Car	58	80
Driver	-	-
Pass	42	20
All Modes	100	100

South West Bicester Internal Secondary Trips 5/9 of overall trips

	AM			PM		
	in	out	tot	in	out	tot
Non Car	-12	-52	-64	-4	-2	-5
driver	-2	-9	-11	-1	0	-1
pass	-3	-13	-16	-1	0	-1
total	-17	-73	-91	-5	-2	-7

Allow for Driver

	5-10 yr olds	11-16 yr olds
Non Car	58	80
Driver	28	13
Pass	42	20
All Modes	128	113

1.5 Children Per Car

Re-Adjust for 100%

	5-10 yr olds	11-16 yr olds
Non Car	0.453	0.706
Driver	0.219	0.118
Pass	0.328	0.176
All Modes	1	1

Mode Share Results

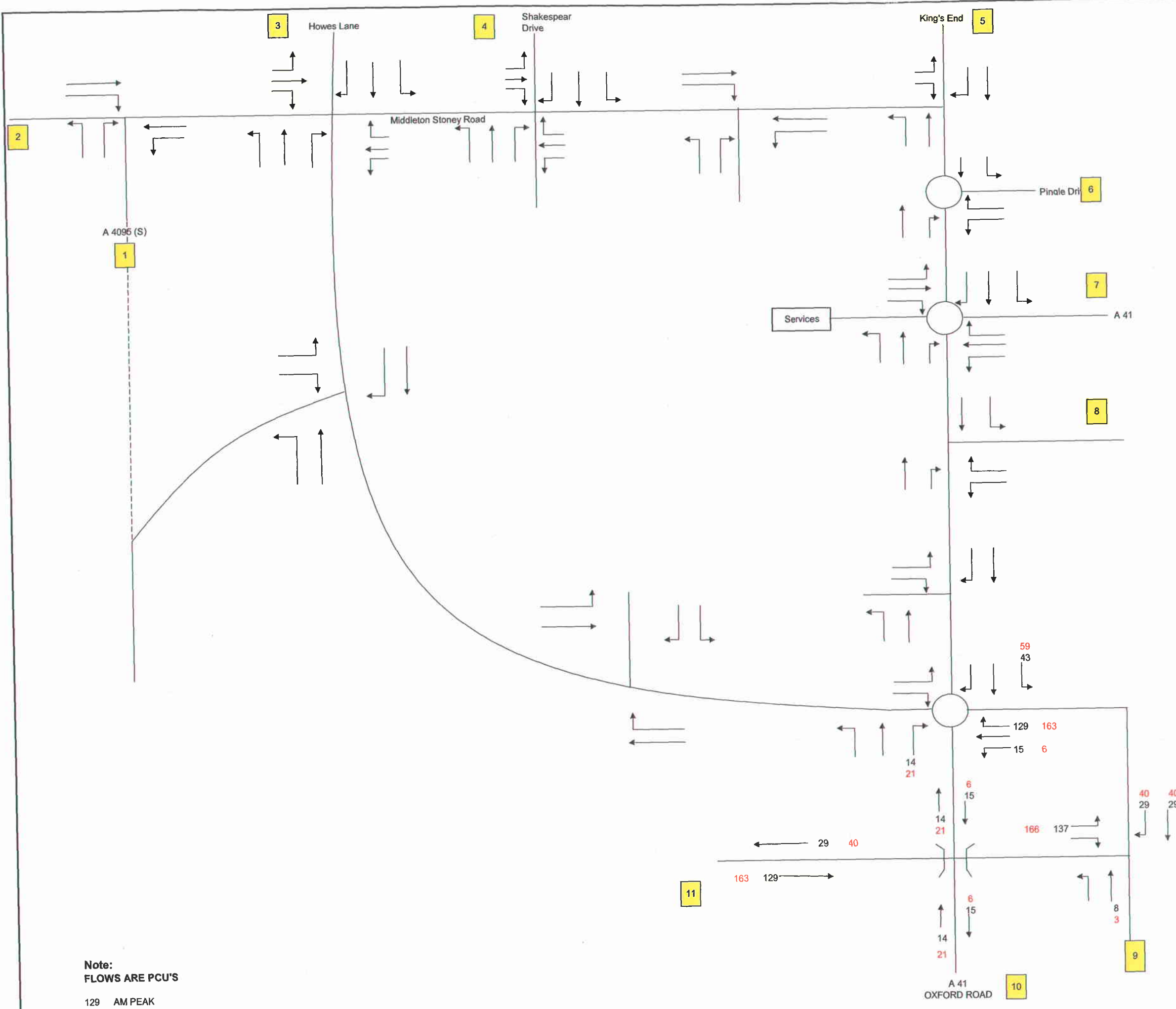
	AM			PM		
	in	out	tot	in	out	tot
Non Car	-45	-190	-235	-13	-6	-19
driver	-18	-75	-93	-5	-2	-7
pass	-27	-113	-140	-8	-3	-11
total	-90	-379	-469	-26	-11	-37

	5-10 yr olds	11-16 yr olds
Non Car	45.3%	70.6%
Driver	21.9%	11.8%
Pass	32.8%	17.6%
All Modes	100.0%	100.0%



APPENDIX L

Reassignment Effects of A41 Slip Road Closures



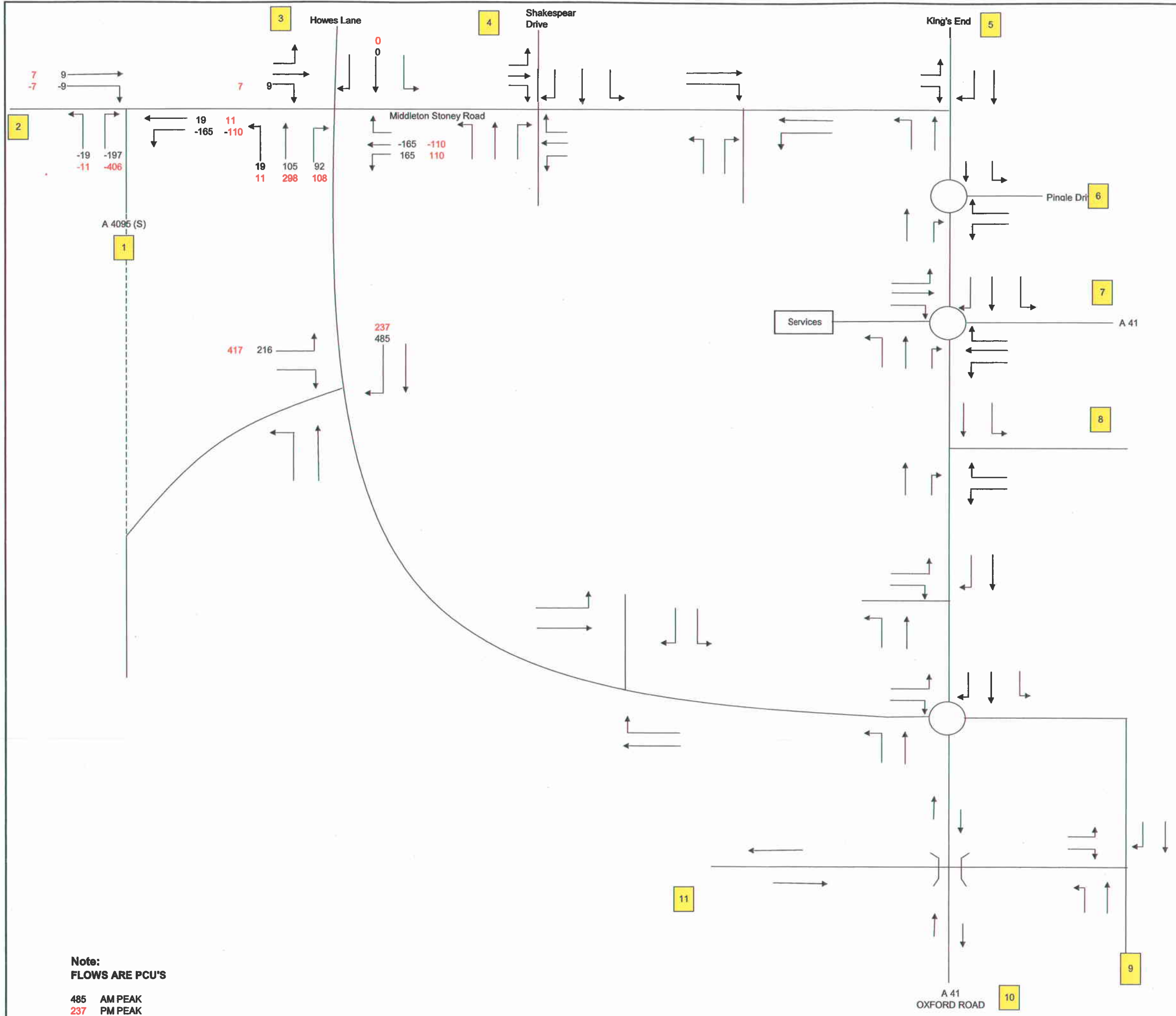
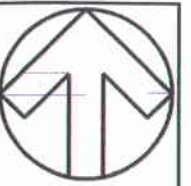
Note:
FLOWS ARE PCU'S
129 AM PEAK
163 PM PEAK

TITLE:	SLIP ROAD CLOSURE FLOWS
FIGURE No:	L1



APPENDIX M

Reassignment Effects of Howes Lane Junction



Note:
FLOWS ARE PCU'S
485 AM PEAK
237 PM PEAK

TITLE
HOWES LANE JUNCTION FLOWS

FIGURE No.
M1



APPENDIX N

Diversion Effects of Perimeter Road

South West Bicester – Diverting Traffic

Cordon surveys undertaken on Tuesday 12 July 2005 in order to determine the existing distribution of vehicle trips in and around South West Bicester. Average journey times were also recorded between each of the cordon points.

Cordons were placed at the following locations:

1. South of the slip roads on the A41 Oxford Road;
2. Middleton Stoney Road, east of the junction with Shakespeare Drive
3. On the B4030 Bicester Road, west of the A4095 staggered priority junction
4. To the south St Johns Street and north of St Georges Street on Queen street Avenue in Central Bicester;
5. On the B4100, north of the four-arm roundabout junction with the A4095
6. On the A41 by the railway bridge
7. North of Bicester on the A4421, north of the roundabout junction with the A4095; and
8. On the A4095 Bignell View Road south of the staggered priority junction with Middleton Stoney Road

From these cordon and journey time surveys it has been established which routes are most likely to divert onto the proposed by-pass between the A41 Oxford Road to the A4095 during the peak hours. These routes are as follows:

- 1,2,3 and 3,2,1;
- 1,2,5 and 5,2,1;
- 1,4,5 and 4,5,1;
- 1,4,7 and 7,4,1; and
- 1,6,5 and 5,6,1;

In addition it was considered that 50% of trips routing through 1,6,7 and 7,6,1 would divert to the by-pass as a result of the saving in journey time. In order to identify the likely number of trip which would divert during the peak hours, 60% of the 2 hour recorded flows were assumed to occur in the peak hours. Table 1 below sets out the number of vehicle trips which were recorded as routing through the above cordons.

Table 1. – Vehicle trips which are likely to divert to the proposed by-pass

Cordon	AM		PM	
	Inbound	Outbound	Inbound	Outbound
1,2,3 and 3,2,1	5	2	4	0
1,2,5 and 5,2,1	0	0	2	2
1,4,5 and 5,4,1	8	13	5	10
1,4,7 and 7,4,1	50	74	101	64
1,6,5 and 5,6,1	3	4	4	1

The above flows were growthed to the opening year of 2014. These flows are set out in Table 2 below.

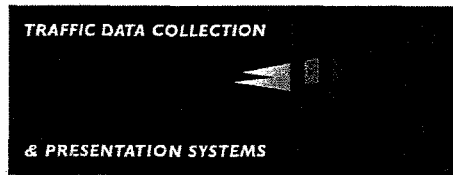
Table 2. – 2014 Forecast Base Flows likely to divert to the proposed by-pass

Cordon	AM		PM	
	Inbound	Outbound	Inbound	Outbound
1,2,3 and 3,2,1	5	2	4	0
1,2,5 and 5,2,1	0	0	2	2
1,4,5 and 5,4,1	8	13	5	10
1,4,7 and 7,4,1	50	74	101	64
1,6,5 and 5,6,1	3	4	4	1

11546/c

THE PAUL CASTLE CONSULTANCY

TRAFFIC DATA COLLECTION & PRESENTATION SPECIALISTS



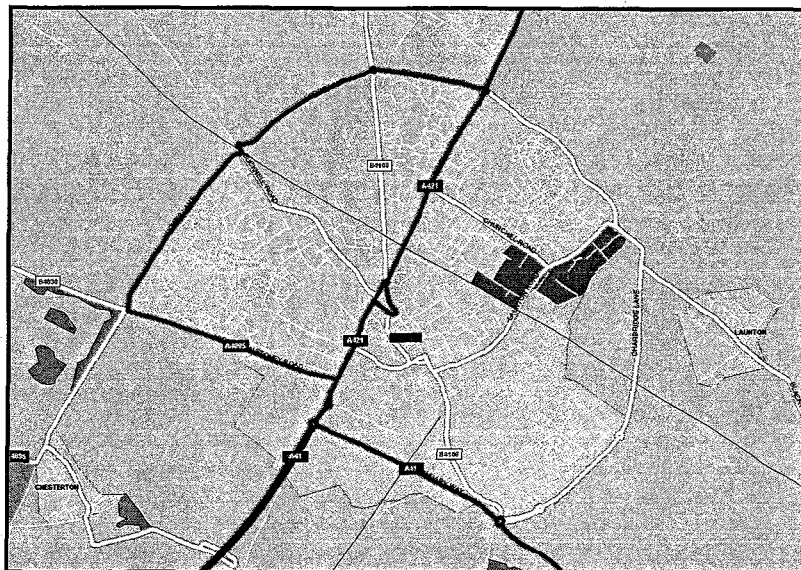
Bicester
O&D Survey

July 2005

FOR

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PCC 7838

The Paul Castle Consultancy has prepared this report in accordance with the instructions of WSP DEVELOPMENT for its sole and specific use. The Paul Castle Consultancy shall not be liable for any such use of any information contained herein for any purpose other than that for which the same was prepared and provided, pursuant to their appointment as Traffic Data Collection Specialists in this matter.

Authorisation for Issue:


Fieldwork

Supervisor: Joe Kendhammer

Report

Compiler: Steve Lilley-Hopkins

Project Manager: Paul Castle



Report Date: 23rd August 2005

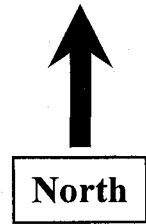
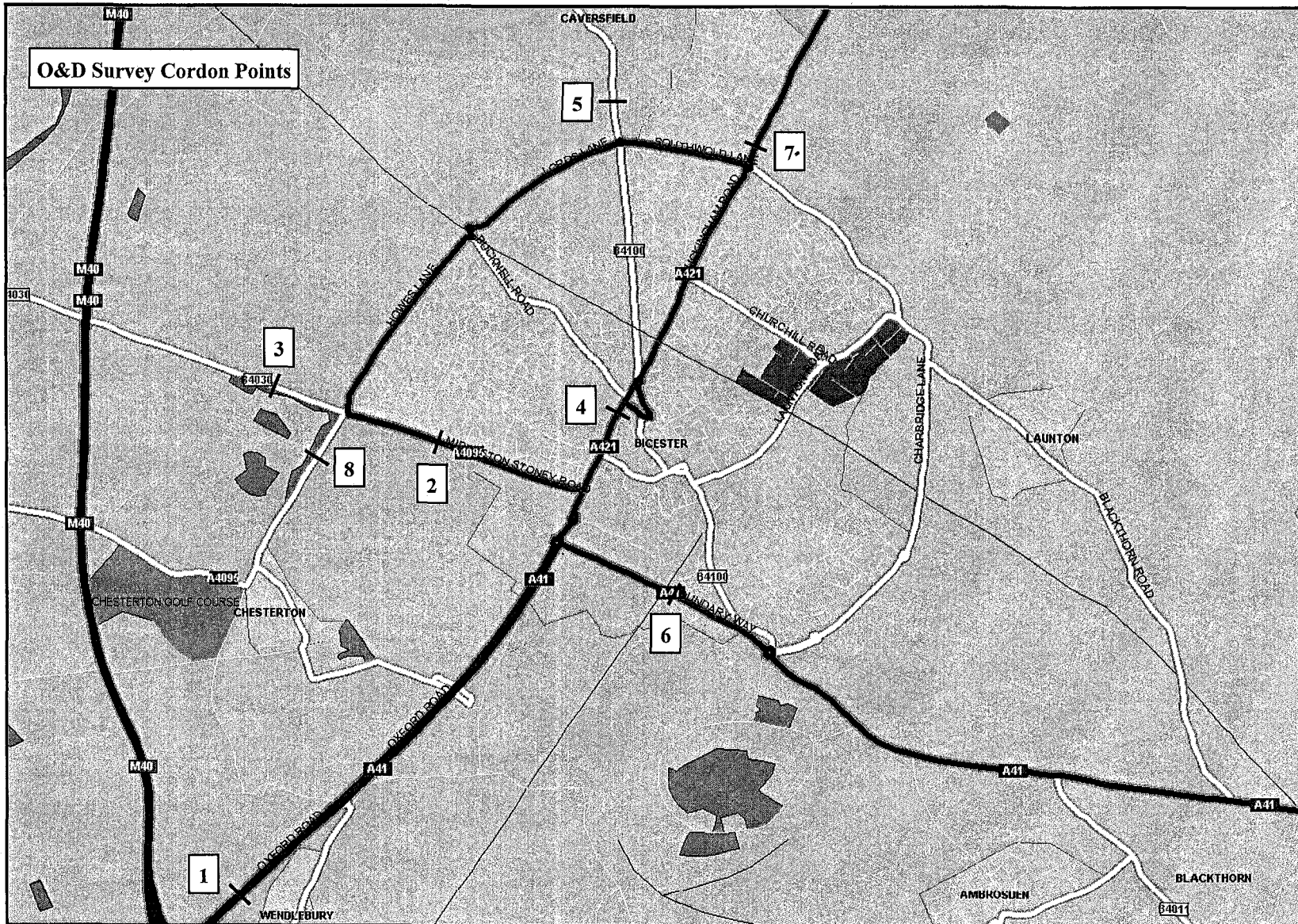
In the event of any queries regarding the content of this report, please contact the Report Compiler (by fax or telephone) who shall deal with your questions.

Project: Bicester O&D

PCC No: 7838

Originator: Steve Lilley-Hopkins

Date: July 2005



Preface

The Paul Castle Consultancy were appointed by Rebecca Williams of WSP Development, Basingstoke, to undertake an Registration Plate Survey at the above location, in order to determine vehicle origin and destination movements in July 2005.

Methodology: Registration Plate Matching - Cordon O&D Survey

In order to complete this survey, enumerators undertook the following recordings at each of the cordon points. Registration plate numbers were recorded of all heavy vehicles and approximately 50% of all light vehicles (due to 100% of light vehicles being an impossible task at this particular area). In order to achieve the 50% of light vehicles sample rate white, silver and red coloured vehicles were chosen. In addition to the above, Automatic Traffic Counters were placed to record the total number of vehicles passing through each cordon point, as a control count in order to expand the results during analysis.

To complete the data analysis, the following method was used. The registration recordings were imported into the MicroMatch software, and were matched on a site-to-site and 3-way basis for particular routes of interest. These results showed an overall match percentage of ~30% indicating that some ~70% of traffic recorded is either lost within the cordon (for example vehicles parking within the cordon), or exited the cordon via a road which was not surveyed (for example southbound on the B4100). With our local knowledge of the area, this seemed sensible and so we could proceed. The final stage of this process was to expand the actual number of vehicle matches to an estimated figure of matches, were we to have recorded all vehicles – due to the 50% sample rate this means essentially doubling the matched vehicle figures.

In addition to the above, we were able to produce average site-to-site trip times based on the real-time entry and exit times recorded.

All of the results were finally tabulated and presented in a Microsoft Excel spreadsheet.

Site Survey Details

Survey Dates: Tuesday 12th July 2005

Hours: 0730 – 0930, 1300 – 1500 & 1630 – 1830

Location: See enclosed map

Intervals: N/A (real-time)

Weather: Hot & sunny

Survey Results

Bicester - O&D Survey, Tuesday 12th July 2005

Produced by The Paul Castle Consultancy

Total Vehicle Flow (Inbound & Outbound of Cordon)

PERIOD	INBOUND							
	1	2	3	4	5	6	7	8
AM	2036	468	400	935	964	3537	1181	422
OFF-PEAK	1971	566	325	992	567	2804	702	522
PM	2670	1001	556	1349	841	3626	964	754

PERIOD	OUTBOUND							
	1	2	3	4	5	6	7	8
AM	2659	880	402	1546	725	3540	1002	674
OFF-PEAK	1795	565	329	1260	532	2797	853	440
PM	2130	609	411	1503	882	3630	1322	463

Note: Site 2 'Inbound' is Westbound, 'Outbound' is Eastbound
Site 4 'Inbound' is Northbound, 'Outbound' is Southbound

Bicester - O&D Survey, Tuesday 12th July 2005

Produced by The Paul Castle Consultancy

Outer Cordon Matched Vehicles (Ignoring Sites 2 & 4)

AM	DESTINATION						
ORIGIN	1	3	5	6	7	8	TOTAL
1	35	13	19	529	146	9	751
3	9	32	9	58	22	13	143
5	55	16	35	9	19	19	153
6	601	84	16	29	6	22	758
7	344	26	22	19	68	78	557
8	13	35	19	19	61	13	160
TOTAL	1057	206	120	663	322	154	2522

OFF-PEAK	DESTINATION						
ORIGIN	1	3	5	6	7	8	TOTAL
1	143	29	32	464	276	9	953
3	16	45	3	42	13	3	122
5	29	6	58	13	26	16	148
6	503	42	19	39	13	3	619
7	243	32	26	6	113	26	446
8	9	9	3	22	52	19	114
TOTAL	943	163	141	586	493	76	2402

PM	DESTINATION						
ORIGIN	1	3	5	6	7	8	TOTAL
1	94	16	32	510	260	13	925
3	16	22	19	91	42	6	196
5	26	9	29	13	19	19	115
6	513	81	13	58	3	35	703
7	269	3	0	26	48	42	388
8	13	3	6	35	107	19	183
TOTAL	931	134	99	733	479	134	2510

Bicester - O&D Survey, Tuesday 12th July 2005

Produced by The Paul Castle Consultancy

3-Way Matched Vehicles from Site 1

PERIOD	ROUTE							
	1-8-3	1-8-5	1-2-3	1-2-5	1-4-5	1-4-7	1-6-5	1-6-7
AM	0	0	9	0	13	84	9	91
OFF-PEAK	0	0	19	0	13	162	16	48
PM	0	0	6	3	9	169	13	104

3-Way Matched Vehicles to Site 1

PERIOD	ROUTE							
	3-8-1	5-8-1	3-2-1	5-2-1	5-4-1	7-4-1	5-6-1	7-6-1
AM	3	0	3	0	22	123	13	91
OFF-PEAK	0	0	3	3	6	84	3	81
PM	0	0	0	3	16	107	3	100

Bicester - O&D Survey, Tuesday 12th July 2005

Produced by The Paul Castle Consultancy

2-Way Matched Vehicles from Site 2

PERIOD	ROUTE						
	2-1	2-3	2-4	2-5	2-6	2-7	2-8
AM	55	211	58	22	68	22	104
OFF-PEAK	29	188	35	19	19	0	58
PM	58	221	71	0	74	48	100

2-Way Matched Vehicles to Site 2

PERIOD	ROUTE						
	1-2	3-2	4-2	5-2	6-2	7-2	8-2
AM	61	195	91	22	149	35	84
OFF-PEAK	97	97	133	9	58	9	35
PM	162	159	162	16	178	9	120

2-Way Matched Vehicles from Site 4

PERIOD	ROUTE						
	4-1	4-2	4-3	4-5	4-6	4-7	4-8
AM	503	91	45	55	32	263	29
OFF-PEAK	321	133	84	91	65	338	26
PM	344	162	61	78	78	383	39

2-Way Matched Vehicles to Site 4

PERIOD	ROUTE						
	1-4	2-4	3-4	5-4	6-4	7-4	8-4
AM	247	58	22	104	68	276	29
OFF-PEAK	399	35	71	104	48	227	19
PM	539	71	58	84	94	234	13

Note: 2-4 figures may include vehicles from other matches, eg 2-5 & 2-7
4-2 figures may include vehicles from other matches, eg 4-3 & 4-8