



Focus on Personal Travel

December 2001

London: The Stationery Office

FOCUS ON PERSONAL TRAVEL

Table 7.14 Trips-in-progress by time of day and main mode (weekdays): 1992/2000

Index: Average hour for all modes = 100

	Walk	Bicycle	Car/van driver	Car/van passenger	Other private	Local bus	Rail	Taxi/minicab	Other public	All modes
0000-0059	-	-	1	1	-	-	-	-	-	3
0100-0159	-	-	1	-	-	-	-	-	-	2
0200-0259	-	-	1	-	-	-	-	-	-	1
0300-0359	-	-	1	-	-	-	-	-	-	1
0400-0459	-	-	1	-	-	-	-	-	-	2
0500-0559	1	1	6	1	-	-	-	-	-	10
0600-0659	4	1	16	4	1	2	2	-	-	30
0700-0759	13	3	53	14	3	8	7	-	1	102
0800-0859	71	4	93	44	5	20	10	1	1	249
0900-0959	55	2	63	25	3	13	6	1	1	169
1000-1059	46	2	50	25	2	14	3	1	1	145
1100-1159	50	2	52	29	2	14	3	1	1	153
1200-1259	51	2	57	29	2	13	2	1	1	158
1300-1359	46	2	56	26	2	12	2	1	1	148
1400-1459	43	2	55	28	2	12	3	1	1	147
1500-1559	93	3	68	49	5	19	3	2	1	244
1600-1659	45	4	75	40	5	18	5	1	1	193
1700-1759	31	3	87	39	3	13	8	1	1	136
1800-1859	25	2	66	33	2	7	8	1	1	145
1900-1959	21	1	49	28	1	3	4	1	1	109
2000-2059	15	1	32	19	1	2	2	1	-	74
2100-2159	12	1	25	14	1	2	1	1	-	56
2200-2259	9	-	17	9	1	2	1	1	-	40
2300-2359	7	-	11	6	-	1	1	2	-	28
All day	27	2	39	19	2	7	3	1	1	100

N.B. The overall averages for each hour are slightly lower than that shown on Table 7.11 because the average hour for this table is for weekday journeys only.



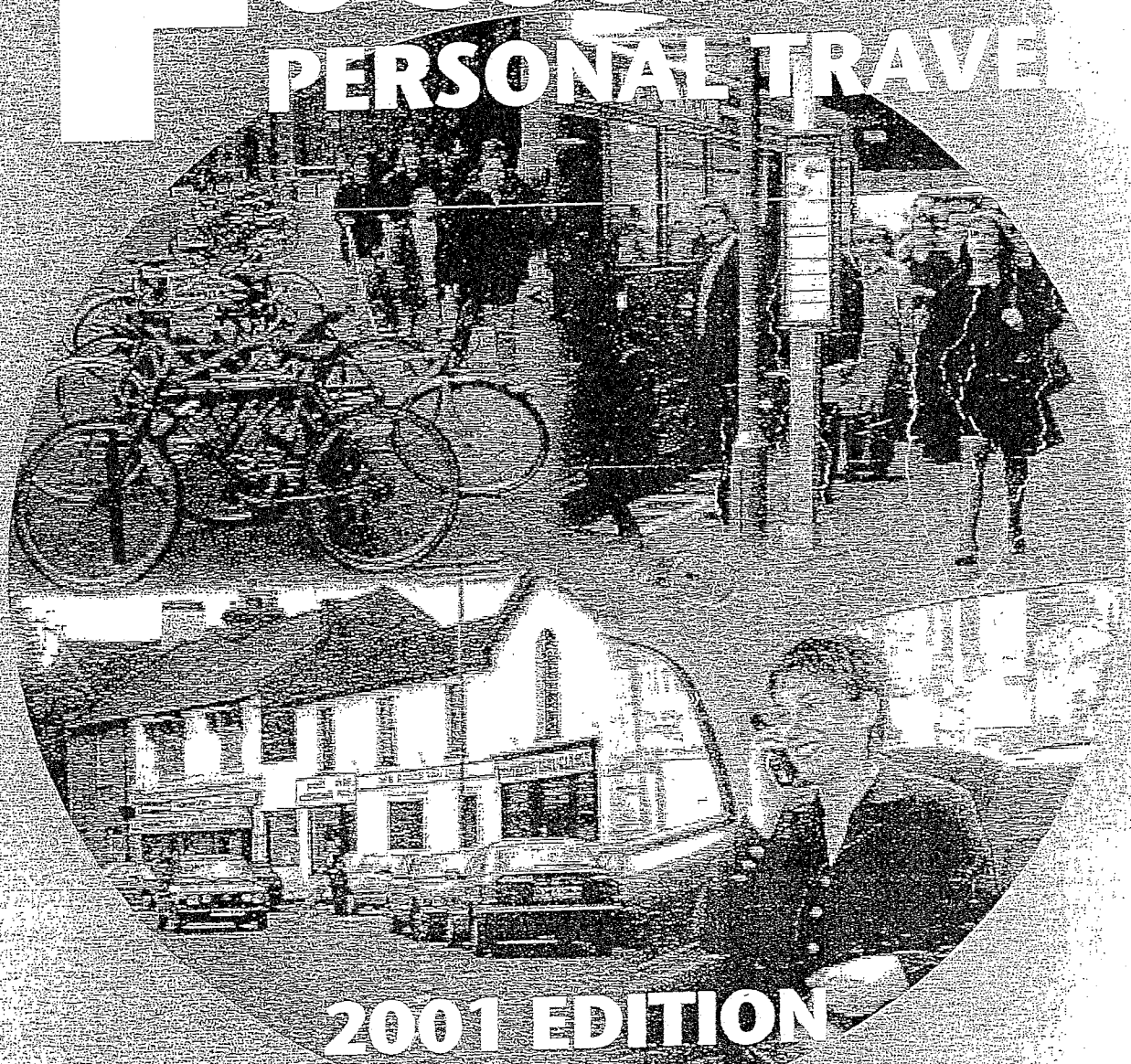
**Annex C
Patterns**

Affordable Housing Trip

PLANNING



FOCUS ON PERSONAL TRAVEL



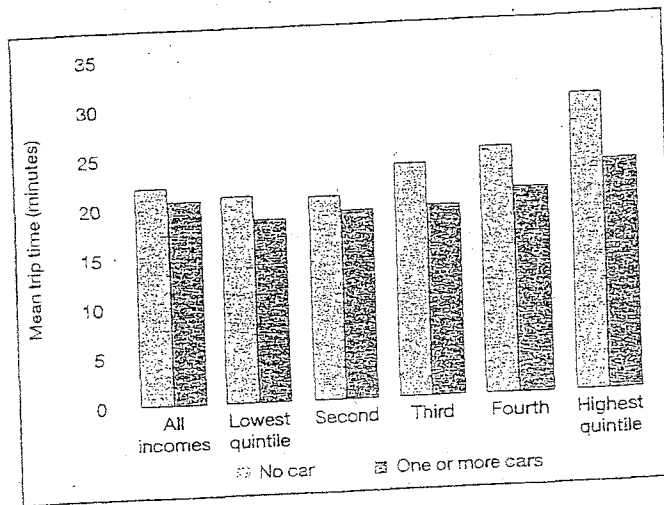
2001 EDITION

INCLUDING THE

WSPD BASINGSTOKE
LIBRARY
C3

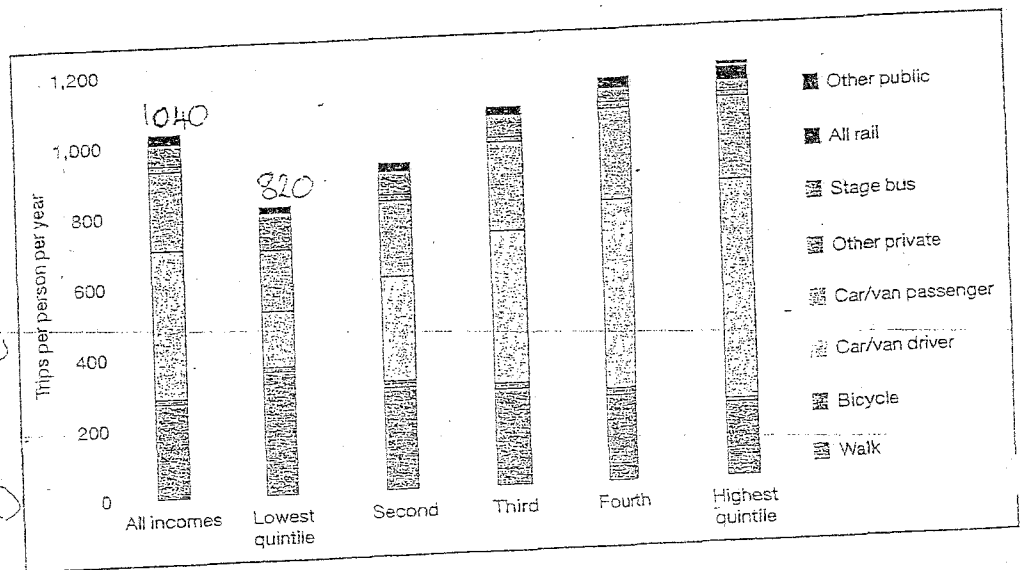


Chart 5.9c Trip time by income quintile and household car ownership: 1998/2000



People living in households in the lowest income quintile, made more of their trips on foot in 1998/2000 (43 per cent) than by car (39 per cent) or bus (12 per cent) (Chart 5.10). With increasing income car use increases, and the number of trips on foot and by bus decline. Rail use (including London Underground) is highest in the highest income quintile.

Chart 5.10 Mode of transport by income quintile: 1998/2000



V INCOME = 1040 TRIPS
 LOWEST INCOME = 820 TRIPS
 $Factor = \frac{820}{1040} = 80\%$ (Approx)

Access to bus and rail services

Travel by public transport is also affected by variations in access to these services. Chapter 6 (Tables 6.4 and 6.5) gives details of access by area type, and, not surprisingly, people living in London and the major cities are much more likely to have good access than rural residents. Poor access to public transport is also a factor in high car ownership in rural areas.

Tables 5.5a and 5.5b illustrate how public transport use varies according to access to services. Over the period 1992/2000, the average number of bus trips per person per year was 65. People with access to the best bus services (within a three minute walk of a service running at least every quarter hour) averaged 100 trips a year, ten times as many as those with the lowest levels of service shown (over 13 minutes walk from a service running less than once an hour).

Affordable Housing

Trip Generation Patterns

The TRICS (Trip Rate Information Computer System) database has been used to provide a comparison between mixed private housing and mixed non-private housing sites throughout England (excluding London).

A summary of the vehicular trip rates for mixed private housing and mixed non-private housing for the morning and evening peak hours together with the percentage reduction in the two-way trip rate between market and affordable housing is shown the Table below. The accompanying TRICS output is included within this Appendix.

Table C.1 TRICS Trip Rate Comparison and Percentage Reduction

Time	Mixed Private Housing			Mixed Non- Private Housing			Percentage Reduction in Total
	Arrivals	Departures	Total	Arrivals	Departures	Total	
0800 – 0900	0.10	0.45	0.55	0.13	0.23	0.36	65%
1700 – 1800	0.40	0.18	0.58	0.26	0.17	0.44	76%

Based on the above, it can be demonstrated that the percentage reduction in the two-way peak hour trip rate between market and affordable housing is approximately 70%.

TRIP RATE CALCULATION SELECTION PARAMETERS:

Land Use : 03 - RESIDENTIAL
Category : K - MIXED PRIVATE HOUSING

Selected Regions and Areas:

02	SOUTH EAST	
	ES EAST SUSSEX	1 days
	HC HAMPSHIRE	13 days
	HF HERTFORDSHIRE	1 days
	WS WEST SUSSEX	5 days
03	SOUTH WEST	
	DC DORSET	1 days
04	EAST ANGLIA	
	CA CAMBRIDGESHIRE	1 days
	NF NORFOLK	1 days
	SF SUFFOLK	1 days
05	EAST MIDLANDS	
	NT NOTTINGHAMSHIRE	4 days
06	WEST MIDLANDS	
	SH SHROPSHIRE	1 days
	ST STAFFORDSHIRE	6 days
	WK WARWICKSHIRE	1 days
	WO WORCESTERSHIRE	3 days
08	NORTH WEST	
	GM GREATER MANCHESTER	5 days
	LC LANCASHIRE	2 days

VEHICULAR TRIP RATES
MIXED PRIVATE HOUSING

Main Parameter Selection:

Parameter: Number of Households
Range: 26 to 1165 (units:)

Date Range: 01/01/95 to 03/06/03

Selected Survey Days:

Monday	3 days
Tuesday	9 days
Wednesday	5 days
Thursday	17 days
Friday	12 days

Selected Survey Types:

Manual Count	23 days
One Way ATC Count	23 days

LIST OF SITES relevant to selection parameters

- | | | | | |
|---|------------|-----------------------------|------------|--------------------------|
| 1 | CA-03-K-01 | MIXED HOUSING, CAMBRIDGE | | CAMBRIDGESHIRE |
| | | FALLOWFIELD | | |
| | | CHESTERTON | | |
| | | CAMBRIDGE | | |
| | | Total Number of Households: | 124 ***** | |
| | | Survey Date: TUESDAY | 06/02/01 | Survey Type: MANUAL |
| 2 | DC-03-K-02 | WAREHAM HOUSING | | DORSET |
| | | WOODLANDS ESTATE | | |
| | | SANDFORD | | |
| | | WAREHAM | | |
| | | Total Number of Households: | 171 ***** | |
| | | Survey Date: THURSDAY | 18/04/96 | Survey Type: MANUAL |
| 3 | ES-03-K-01 | MIXED HOUSING, LEWES | | EAST SUSSEX |
| | | OLD MALLING WAY | | |
| | | SOUTH MALLING | | |
| | | LEWES | | |
| | | Total Number of Households: | 491 ***** | |
| | | Survey Date: THURSDAY | 29/03/01 | Survey Type: MANUAL |
| 4 | GM-03-K-02 | TAMESIDE HOUSING | | GREATER MANCHESTER |
| | | SPRINGWOOD WAY | | |
| | | LIMEHURST | | |
| | | TAMESIDE | | |
| | | Total Number of Households: | 342 ***** | |
| | | Survey Date: FRIDAY | 15/05/98 | Survey Type: ONE WAY ATC |
| | | Survey Date: MONDAY | 18/05/98 | Survey Type: ONE WAY ATC |
| | | Survey Date: TUESDAY | 19/05/98 | Survey Type: ONE WAY ATC |
| | | Survey Date: WEDNESDAY | 20/05/98 | Survey Type: ONE WAY ATC |
| | | Survey Date: THURSDAY | 21/05/98 | Survey Type: ONE WAY ATC |
| 5 | HC-03-K-04 | PORTSMOUTH HOUSING | | HAMPSHIRE |
| | | ST GEORGES ROAD | | |
| | | PORTSMOUTH | | |
| | | Total Number of Households: | 150 ***** | |
| | | Survey Date: THURSDAY | 11/12/97 | Survey Type: MANUAL |
| 6 | HC-03-K-05 | PORTSMOUTH HOUSING | | HAMPSHIRE |
| | | BROAD STREET | | |
| | | PORTSMOUTH | | |
| | | Total Number of Households: | 64 ***** | |
| | | Survey Date: THURSDAY | 18/12/97 | Survey Type: MANUAL |
| 7 | HC-03-K-08 | FLEET HOUSING | | HAMPSHIRE |
| | | ANCELLS ROAD | | |
| | | ANCELLS FARM | | |
| | | FLEET | | |
| | | Total Number of Households: | 747 ***** | |
| | | Survey Date: THURSDAY | 05/03/98 | Survey Type: MANUAL |
| 8 | HC-03-K-09 | WINCHESTER HOUSING | | HAMPSHIRE |
| | | RIDGEWAY/MEADOW W. | | |
| | | BADGER FARM | | |
| | | WINCHESTER | | |
| | | Total Number of Households: | 1040 ***** | |
| | | Survey Date: THURSDAY | 26/02/98 | Survey Type: MANUAL |
| 9 | HC-03-K-10 | EASTLEIGH HOUSING | | HAMPSHIRE |
| | | KNIGHTWOOD ROAD | | |
| | | BADGER'S COPSE | | |
| | | EASTLEIGH | | |
| | | Total Number of Households: | 700 ***** | |
| | | Survey Date: WEDNESDAY | 18/08/99 | Survey Type: MANUAL |

LIST OF SITES relevant to selection parameters (Cont.)

10	HC-03-K-11	WINCHESTER HOUSING	HAMPSHIRE
		RIDGEWAY/MEADOW W. BADGER FARM WINCHESTER	
		Total Number of Households:	1040 *****
		Survey Date: THURSDAY	09/03/00
		Survey Date: FRIDAY	10/03/00
		Survey Date: THURSDAY	15/06/00
		Survey Date: FRIDAY	16/06/00
		Survey Date: THURSDAY	21/09/00
		Survey Date: FRIDAY	22/09/00
		Survey Date: THURSDAY	07/12/00
		Survey Date: FRIDAY	08/12/00
			Survey Type: ONE WAY ATC
			Survey Type: ONE WAY ATC
			Survey Type: ONE WAY ATC
			Survey Type: ONE WAY ATC
			Survey Type: ONE WAY ATC
			Survey Type: ONE WAY ATC
			Survey Type: ONE WAY ATC
			Survey Type: ONE WAY ATC
			Survey Type: ONE WAY ATC
11	HF-03-K-01	MIXED PRI. HOUSING, WELWYN GC	HERTFORDSHIRE
		LONGCROFT GARDENS	
		WELWYN GARDEN CITY	
		Total Number of Households:	53 *****
		Survey Date: FRIDAY	06/09/02
			Survey Type: MANUAL
12	LC-03-K-03	FRECKLETON HOUSING	LANCASHIRE
		SPRING HILL	
		FRECKLETON	
		Total Number of Households:	66 *****
		Survey Date: THURSDAY	04/05/95
			Survey Type: MANUAL
13	LC-03-K-07	LANCASTER HOUSING	LANCASHIRE
		HERONSKYE SKERTON LANCASTER	
		Total Number of Households:	135 *****
		Survey Date: WEDNESDAY	25/06/97
			Survey Type: MANUAL
14	NF-03-K-01	MIXED HOUSING, NORWICH	NORFOLK
		ROBERT GYBSON WAY	
		NORWICH	
		Total Number of Households:	51 *****
		Survey Date: FRIDAY	03/11/00
			Survey Type: MANUAL
15	NT-03-K-02	NEWARK HOUSING	NOTTINGHAMSHIRE
		BEACON HILL ROAD BEACON HILL NEWARK-ON-TRENT	
		Total Number of Households:	394 *****
		Survey Date: THURSDAY	26/11/98
			Survey Type: MANUAL
16	NT-03-K-03	MANSFIELD HOUSING	NOTTINGHAMSHIRE
		LOXLEY DRIVE BERRYHILL MANSFIELD	
		Total Number of Households:	61 *****
		Survey Date: TUESDAY	08/12/98
			Survey Type: MANUAL
17	NT-03-K-04	NOTTINGHAM HOUSING	NOTTINGHAMSHIRE
		BEAUMARIS DRIVE GEDLING NOTTINGHAM	
		Total Number of Households:	160 *****
		Survey Date: TUESDAY	24/11/98
			Survey Type: MANUAL

LIST OF SITES relevant to selection parameters (Cont.)

18	NT-03-K-05	NOTTINGHAM HOUSING	NOTTINGHAMSHIRE
		JENNY BURTON WAY	
		ASHFIELD	
		NOTTINGHAM	
		Total Number of Households:	174 *****
		Survey Date: TUESDAY	08/12/98
19	SF-03-K-01	MIXED HOUSING, IPSWICH	SUFFOLK
		FINBARS WALK	
		IPSWICH	
		Total Number of Households:	99 *****
		Survey Date: FRIDAY	29/09/00
20	SH-03-K-01	BRIDGNORTH HOUSING	SHROPSHIRE
		BRAMBLE RIDGE	
		BRIDGNORTH	
		Total Number of Households:	52 *****
		Survey Date: FRIDAY	08/05/98
21	ST-03-K-01	MIXED HOUSING, STAFFORD	STAFFORDSHIRE
		THE MEADOWS	
		QUEENSVILLE	
		STAFFORD	
		Total Number of Households:	224 *****
		Survey Date: TUESDAY	04/07/00
22	ST-03-K-02	STAFFORD MIXED HOUSING	STAFFORDSHIRE
		THE MEADOWS	
		QUEENSVILLE	
		STAFFORD	
		Total Number of Households:	224 *****
		Survey Date: MONDAY	10/07/95
		Survey Date: TUESDAY	11/07/95
		Survey Date: WEDNESDAY	12/07/95
		Survey Date: THURSDAY	13/07/95
		Survey Date: FRIDAY	14/07/95
23	WK-03-K-01	MIXED HOUSING, STRATFORD	WARWICKSHIRE
		OLD TOWN MEWS	
		OLD TOWN	
		STRATFORD UPON AVON	
		Total Number of Households:	64 *****
		Survey Date: THURSDAY	07/09/00
24	WO-03-K-01	MIXED HOUSING, WORCESTER	WORCESTERSHIRE
		MALVERN ROAD	
		LOWER WICK	
		WORCESTER	
		Total Number of Households:	775 *****
		Survey Date: FRIDAY	24/05/02
25	WO-03-K-02	MIXED HOUSING, BROMSGROVE	WORCESTERSHIRE
		ST GODWALDS ROAD	
		ASTON FIELDS	
		BROMSGROVE	
		Total Number of Households:	215 *****
		Survey Date: THURSDAY	23/05/02

LIST OF SITES relevant to selection parameters (Cont.)

26	WO-03-K-03	MIXED HOUSING, WORCESTER	WORCESTERSHIRE
		BYFIELD RISE	
		WORCESTER	
		Total Number of Households: 103 *****	
		Survey Date: TUESDAY 03/06/03	Survey Type: MANUAL
27	WS-03-K-03	CHICHESTER HOUSING	WEST SUSSEX
		LAVANT DOWN ROAD	
		LAVANT	
		CHICHESTER	
		Total Number of Households: 90 *****	
		Survey Date: MONDAY 20/11/00	Survey Type: ONE WAY ATC
		Survey Date: TUESDAY 21/11/00	Survey Type: ONE WAY ATC
		Survey Date: WEDNESDAY 22/11/00	Survey Type: ONE WAY ATC
		Survey Date: THURSDAY 23/11/00	Survey Type: ONE WAY ATC
		Survey Date: FRIDAY 24/11/00	Survey Type: ONE WAY ATC

TRIP RATE for Land Use 03 - RESIDENTIAL/K - MIXED PRIVATE HOUSING
Calculation Factor: 1 HHOLDS
BOLD print indicates peak (busiest) period

Time Range	ARRIVALS			DEPARTURES			TOTALS		
	No Days	Ave HHOLDS	Trip Rate	No Days	Ave HHOLDS	Trip Rate	No Days	Ave HHOLDS	Trip Rate
00:00 - 01:00	18	582	0.02	18	582	0.01	18	582	0.04
01:00 - 02:00	18	582	0.01	18	582	0.00	18	582	0.01
02:00 - 03:00	18	582	0.00	18	582	0.00	18	582	0.01
03:00 - 04:00	18	582	0.00	18	582	0.00	18	582	0.00
04:00 - 05:00	18	582	0.00	18	582	0.01	18	582	0.01
05:00 - 06:00	18	582	0.00	18	582	0.02	18	582	0.03
06:00 - 07:00	18	582	0.01	18	582	0.10	24	486	0.13
07:00 - 08:00	24	486	0.03	24	486	0.34	46	385	0.41
08:00 - 09:00	46	385	0.07	46	385	0.45	46	385	0.55
09:00 - 10:00	46	385	0.10	46	385	0.19	46	385	0.32
10:00 - 11:00	46	385	0.13	46	385	0.14	46	385	0.25
11:00 - 12:00	46	385	0.11	46	385	0.14	46	385	0.27
12:00 - 13:00	46	385	0.13	46	385	0.14	46	385	0.30
13:00 - 14:00	46	385	0.17	46	385	0.15	46	385	0.30
14:00 - 15:00	46	385	0.15	46	385	0.15	46	385	0.30
15:00 - 16:00	46	385	0.15	46	385	0.17	46	385	0.40
16:00 - 17:00	46	385	0.23	46	385	0.16	46	385	0.44
17:00 - 18:00	46	385	0.28	46	385	0.18	46	385	0.58
18:00 - 19:00	46	385	0.40	46	385	0.22	46	385	0.56
19:00 - 20:00	46	385	0.35	46	385	0.21	24	486	0.48
20:00 - 21:00	24	486	0.27	24	486	0.15	24	486	0.34
21:00 - 22:00	24	486	0.19	24	486	0.08	24	486	0.22
22:00 - 23:00	24	486	0.14	24	486	0.05	18	582	0.15
23:00 - 24:00	18	582	0.10	18	582	0.04	18	582	0.12
Daily Trip Rates:			3.11			3.10			6.21

Parameter Summary

Trip Rate Parameter Range Selected: 26 - 1165 (units:)
 Survey Date Date Range: 01/01/95 - 03/06/03
 Number of Weekdays (Monday-Friday): 46
 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 : 03 - RESIDENTIAL
Category : L - MIXED NON-PRIVATE HOUSING

Selected Regions and Areas:

04	EAST ANGLIA	
	NF NORFOLK	1 days
06	WEST MIDLANDS	
	WO WORCESTERSHIRE	1 days
07	YORKSHIRE & NORTH LINCOLNSHIRE	
	NO NORTH LINCOLNSHIRE	1 days

Main Parameter Selection:

Parameter: Number of Households
Range: 39 to 920 (units:)

Date Range: 01/01/95 to 11/04/03

Selected Survey Days:

Tuesday	1 days
Friday	2 days

Selected Survey Types:

Manual Count	3 days
One Way ATC Count	0 days

VEHICULAR TRIP RATES

MIXED NON-PRIVATE HOUSING

LIST OF SITES relevant to selection parameters

- | | | | | |
|---|------------|-----------------------------|-----------|---------------------|
| 1 | NF-03-L-01 | HOUSING, NORWICH | | NORFOLK |
| | | CHESTNUT COURT | | |
| | | NORWICH | | |
| | | Total Number of Households: | 39 ***** | |
| | | Survey Date: TUESDAY | 07/11/00 | Survey Type: MANUAL |
| 2 | NO-03-L-01 | HOUSES/FLATS, BELTON | | NORTH LINCOLNSHIRE |
| | | ASHTREE CLOSE | | |
| | | BELTON | | |
| | | Total Number of Households: | 79 ***** | |
| | | Survey Date: FRIDAY | 11/04/03 | Survey Type: MANUAL |
| 3 | WO-03-L-01 | NON-PRIVATE HOUSES/FLATS | | WORCESTERSHIRE |
| | | MARTINDALE CLOSE | | |
| | | WARNDON | | |
| | | WORCESTER | | |
| | | Total Number of Households: | 152 ***** | |
| | | Survey Date: FRIDAY | 08/03/02 | Survey Type: MANUAL |

TRIP RATE for Land Use 03 - RESIDENTIAL/L - MIXED NON-PRIVATE HOUSING
Calculation Factor: 1 HHOLDS
 BOLD print indicates peak (busiest) period

Time Range	ARRIVALS			DEPARTURES			TOTALS		
	No. Days	Ave. HHOLDS	Trip Rate	No. Days	Ave. HHOLDS	Trip Rate	No. Days	Ave. HHOLDS	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	3	90	0.06	3	90	0.13	3	90	0.19
08:00 - 09:00	3	90	0.13	3	90	0.23	3	90	0.36
09:00 - 10:00	3	90	0.11	3	90	0.15	3	90	0.26
10:00 - 11:00	3	90	0.13	3	90	0.12	3	90	0.25
11:00 - 12:00	3	90	0.15	3	90	0.18	3	90	0.33
12:00 - 13:00	3	90	0.18	3	90	0.15	3	90	0.33
13:00 - 14:00	3	90	0.17	3	90	0.13	3	90	0.30
14:00 - 15:00	3	90	0.18	3	90	0.16	3	90	0.34
15:00 - 16:00	3	90	0.23	3	90	0.22	3	90	0.46
16:00 - 17:00	3	90	0.25	3	90	0.23	3	90	0.48
17:00 - 18:00	3	90	0.26	3	90	0.17	3	90	0.44
18:00 - 19:00	3	90	0.25	3	90	0.16	3	90	0.41
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:			2.11			2.03			4.14

Parameter Summary

Trip Rate Parameter Range Selected: 39 - 920 (units:)
 Survey Date Date Range: 01/01/95 - 11/04/03
 Number of Weekdays (Monday-Friday): 3
 Number of Saturdays: 0
 Number of Sundays: 0
 Optional Parameters Used in Selection: NO
 Surveys Manually Removed from Selection: 0

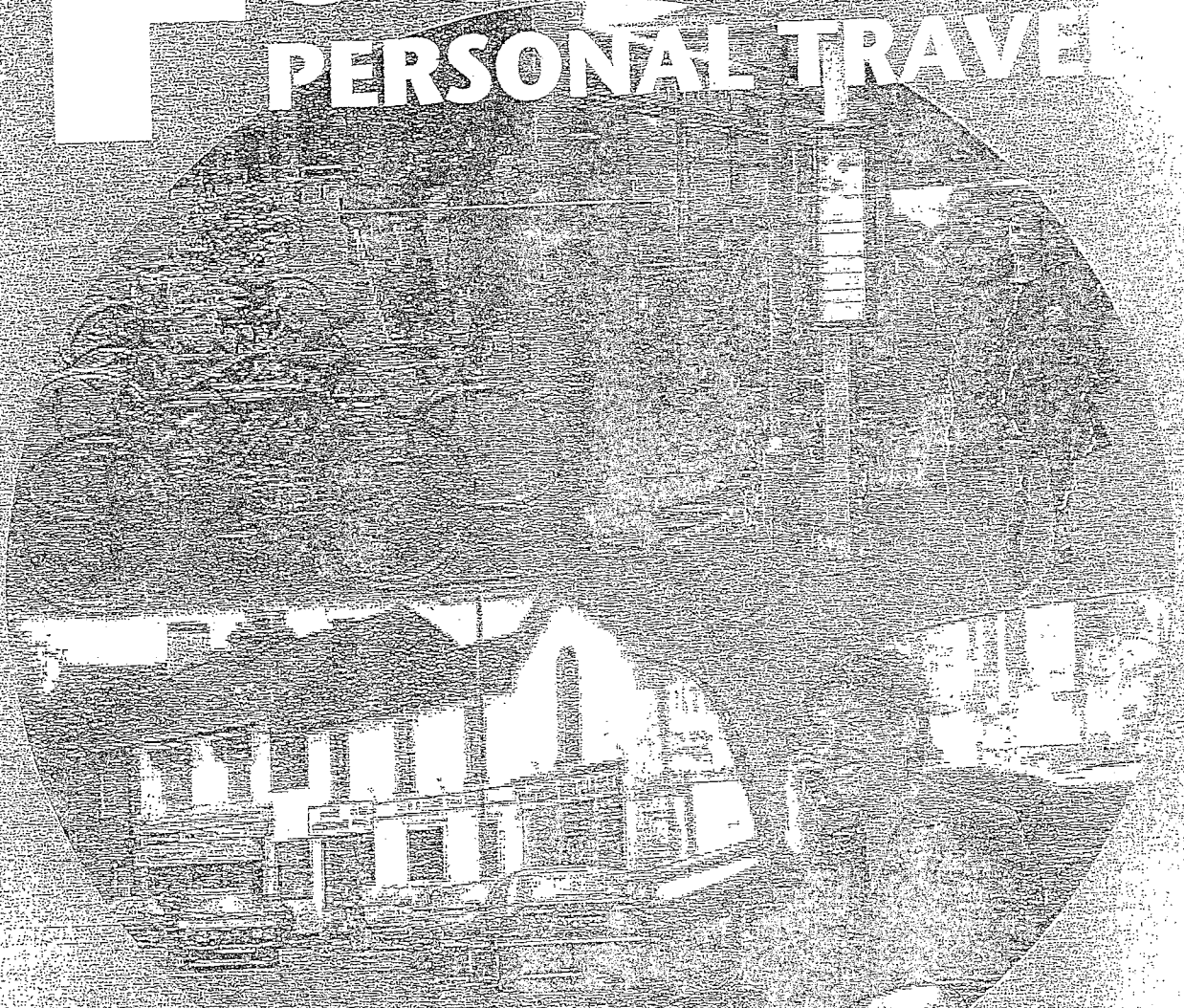


Annex D Extracts from NTS – Daily Profile by Trip Journey Purpose



DTLR
TRANSPORT
LOCAL GOVERNMENT
REGIONS

FOCUS ON PERSONAL TRAVEL



2001 EDITION

WSPD BASINGSTOKE
LIBRARY

C3

integrated

transport

CHAPTER 7 PATTERNS OF TRAVEL

Table 7.12 Trips-in-progress by time of day and trip purpose (weekdays): 1992/2000

	Percentage											
	Commuting	Business	Education	Escort education	Shopping	Other personal business and escort	Visit friends at private home	Visit friends elsewhere	Sport/ entertainment	Holiday/ day trip	Other including just walk	All purposes
0000-0059	19	4	-	1	2	9	29	19	11	4	2	100
0100-0159	24	7	1	2	4	8	24	15	9	6	1	100
0200-0259	31	6	1	2	4	7	17	15	11	6	-	100
0300-0359	52	7	1	-	2	10	11	5	4	6	2	100
0400-0459	74	5	-	-	1	5	3	1	2	6	4	100
0500-0559	79	5	-	-	1	7	1	-	1	2	3	100
0600-0659	71	7	-	-	2	9	1	-	2	2	6	100
0700-0759	64	7	6	1	3	12	2	-	1	1	4	100
0800-0859	32	4	28	15	4	11	2	-	1	1	2	100
0900-0959	16	7	8	12	21	22	6	1	3	2	3	100
1000-1059	5	7	2	1	39	23	10	1	4	4	4	100
1100-1159	5	6	2	3	37	21	11	2	3	5	4	100
1200-1259	9	6	4	3	31	21	10	4	4	4	4	100
1300-1359	13	6	4	2	27	23	10	3	4	4	4	100
1400-1459	9	6	2	5	28	20	12	2	4	5	6	100
1500-1559	6	4	22	17	16	15	9	1	3	3	4	100
1600-1659	19	6	10	3	18	18	12	2	4	4	4	100
1700-1759	35	6	3	1	13	18	12	2	5	3	3	100
1800-1859	25	5	2	1	12	18	16	4	10	3	4	100
1900-1959	13	4	1	-	12	18	21	8	15	3	5	100
2000-2059	11	3	1	-	9	17	24	12	14	4	6	100
2100-2159	12	3	2	-	5	16	23	13	17	3	6	100
2200-2259	13	3	1	-	2	12	25	16	17	3	7	100
2300-2359	11	2	-	-	1	9	27	28	13	3	5	100
All day	19	5	8	5	18	18	11	3	5	3	4	100

Table 7.13 Trips-in-progress by time of day and trip purpose (weekdays): 1992/2000

	Percentage											
	Commuting	Business	Education	Escort education	Shopping	Other personal business and escort	Visit friends at private home	Visit friends elsewhere	Sport/ entertainment	Holiday/ day trip	Other including just walk	All purposes
0000-0059	-	-	-	-	-	-	1	2	1	-	-	-
0100-0459	1	-	-	-	-	-	-	1	-	1	-	-
0500-0559	2	-	-	-	-	-	-	-	-	-	-	-
0600-0659	5	2	-	-	-	1	-	-	-	1	2	1
0700-0759	14	5	3	1	1	3	1	-	1	1	4	4
0800-0859	17	9	36	29	2	7	2	-	2	2	5	10
0900-0959	6	9	7	15	8	9	4	1	4	5	6	7
1000-1059	2	8	1	1	13	8	5	2	4	8	7	6
1100-1159	2	8	2	3	13	8	6	4	4	9	7	6
1200-1259	3	8	4	3	11	8	6	3	5	8	6	7
1300-1359	4	7	3	2	9	8	6	6	5	8	6	6
1400-1459	3	7	2	6	9	7	7	5	4	9	8	6
1500-1559	3	8	28	32	9	8	8	4	5	10	9	10
1600-1659	8	9	10	4	8	8	9	4	7	10	8	8
1700-1759	14	8	3	1	6	8	8	4	8	8	6	8
1800-1859	8	5	1	1	4	6	9	7	12	6	7	6
1900-1959	3	3	1	-	3	5	9	12	13	5	6	5
2000-2059	2	2	-	-	1	3	7	12	8	4	4	3
2100-2159	1	1	1	-	1	2	5	9	8	2	3	2
2200-2259	1	1	-	-	-	1	4	3	6	2	3	2
2300-2359	1	1	-	-	-	1	3	11	3	1	1	1
All day	100	100	100	100	100	100	100	100	100	100	100	100

Peak Hour Person Trips by Journey Purpose

Data Derived from 'Focus on Personal Travel - DTLR - 2001 Edition'

Trips in Progress by Time of Day and Trip Purpose (weekdays)

	A	B	C	D	E	F	G	H	I	J	K	Total
	Commuting	Business	Education	Escort Education	Shopping	Other Personal Business & Escort	Visit Friends at Private Home	Visit Friends Elsewhere	Sport / Entertainment	Holiday / Day Trip	Other (Incl Just Walk)	
0000-0059	19	4	0	1	2	9	29	19	11	4	2	100%
0100-0159	24	7	1	2	4	8	24	15	9	6	1	101%
0200-0259	31	6	1	2	4	7	17	15	11	6	0	100%
0300-0359	62	7	1	0	2	10	11	5	4	6	2	100%
0400-0459	74	5	0	0	1	5	3	1	2	6	4	101%
0500-0559	79	5	0	0	1	7	1	0	1	2	3	99%
0600-0659	71	7	0	0	2	9	1	0	2	2	6	100%
0700-0759	84	7	6	1	3	12	2	0	1	1	4	101%
0800-0859	32	4	28	15	4	11	2	0	1	1	2	100%
0900-0959	16	7	6	12	21	22	6	1	3	2	3	101%
1000-1059	5	7	2	1	39	23	10	1	4	4	4	100%
1100-1159	5	6	2	3	37	21	11	2	3	5	4	99%
1200-1259	9	6	4	3	31	21	10	4	4	4	4	100%
1300-1359	13	6	4	2	27	23	10	3	4	4	4	100%
1400-1459	9	6	2	5	28	20	12	2	4	5	6	99%
1500-1559	6	4	22	17	16	15	9	1	3	3	4	100%
1600-1659	19	6	10	3	18	18	12	2	4	4	4	100%
1700-1759	35	6	3	1	13	18	12	2	5	3	3	101%
1800-1859	25	5	2	1	12	18	16	4	10	3	4	100%
1900-1959	13	4	1	0	12	18	21	8	15	3	5	100%
2000-2059	11	3	1	0	9	17	24	12	14	4	6	101%
2100-2159	12	3	2	0	5	16	23	13	17	3	6	100%
2200-2259	13	3	1	0	2	12	25	16	17	3	7	99%
2300-2359	11	2	0	0	1	9	27	28	13	3	5	99%

Summary Table (Rebased to 100% where appropriate)

	(A+B)	(C+D)	(E+F)	(I)	(G+H+J+K)	Total
	Employment	Education	Retail	Leisure / Entertainment	Other Recreational	
0800-0859	36	43	15	1	5	100%
1700-1759	41	4	31	5	20	100%

From similar studies, education trips can be broken down as follows

Breakdown of Education

Primary	0.45
Secondary	0.35
Tertiary	0.20
Total	1.00

Peak Hour Person Trips by Purpose

	Employment	Primary Education	Secondary Education	Tertiary Education	Retail	Leisure / Entertainment	Other Recreational	Total
0800-0859	36	19	15	9	15	1	5	100
1700-1759	41	2	1	1	31	5	20	100



Annex E Cambridge New Settlement
Survey Data

Cambourne Survey 2002

Report

Summary

Moving to CAMBOURNE

- 35% of the people moved from another UK region, 25% moved from Cambridge
- 25% of people wanted to be nearer their jobs
- 25% of people wanted to buy another home in a new village and/or with attractive prices

Home

- 80% of Cambourne residents are owner occupiers
- 50% of the houses are detached
- A third of the houses have 4 bedrooms
- Three quarter of the household hold 2 adults
- 70% of the households have access to the Internet

Work, study and travel

- Two third of the adults are employed full-time
- 40% of the adults work/study in Cambridge
- 70% of the people use their car to study/go to work
- Half of the households have two cars

Other activities

- 65% of Cambourne community identify themselves as being Christian
- 70% of the residents are of White origin, 2% of Asian origin
- Almost 90% of people speaks English as first language
- The most practiced activities are Outdoor/Indoor and Gym (10% each)
- A quarter of people have those activities in Cambourne or within 5 miles
- 80% of residents are registered at Monkfield Medical practice
- Less than 3% of people are disabled
- 64% of people are not using a public library
- About 20% of people are not going to a library because they find opening times/access not convenient
- 32% would visit Cambourne library monthly, mainly to borrow books for themselves (65%)

Cambourne Survey 2002
Report

Content

Summary	1
Introduction	3
Demographics	3
Section A: About your move to CAMBOURNE	3
Q1: Which city/town/village did you move to Cambourne from?	3
Q2: What was your main reason for moving home?	3
Q3: What was your main reason for choosing to move to Cambourne rather than elsewhere in the area?	4
Section B: About your home	6
Q5.1: Is your home (owned, rented, etc)	6
Q5.2: Is your home (type)?	6
Q5.3: How many bedrooms do you have in your house?	6
Q6: How many adults, children are there in your household?	7
Q11: Which nursery or school does each child in your household attend during the day?	11
Q7: Do you have access to Internet at home?	11
Section C: About your work, study and travel	12
Q8: Are the adults in your household self-employed, employed full-time, part-time, students, retired, looking after home/family, or unemployed?	12
Q9: In which city/town/village do those that are employed/self employed or students work/study?	12
Q10: How do those people in question get to their place of work/study from home?	13
Q12: How many cars are available for use by your household?	13
Section E: About your other activities	14
Q14: What, if any, is your religion?	14
Q15: What is your ethnic origin?	14
Q16.1: What leisure-activity does your household take part in?	15
Q16.2: In which city/town/village do these activities take place?	16
Q17: Places people do there main food shopping?	16
Q18: Which doctor's surgery/health centre are you registered with?	16
Q19: How many people in your household are disabled?	17
Q20: Do you use a public library in Cambridgeshire?	17
Q21: If you answered YES above, how often do you visit a library? If NO, how often do you think you would visit the library at Cambourne?	18
Q22: Which services do you use or would you use if provided at the library in Cambourne?	18
Annexes	
Annex 1	20
Annex 2	21
Annex 3	21
Annex 10	22
Annex 16	24
Annex 17	26
Annex 20	26
Annex 22	27

Cambourne Survey 2002 Report

Introduction

The questionnaire was sent to every household in Cambourne. The aim of the survey is to follow up the development of Cambourne and what the residents are expecting from services providers. Alternatively, the residents commuting and living habits will also help to improve services. Some results will be compared to the New Estates Survey of Huntingdon, St Neots and St Ives (Research Group, Cambridgeshire County Council, 1991), and Ely New Estate Survey (Development Services, East Cambridgeshire District Council, 2002).

Demographics

A total of 214 household responded to the questionnaire, representing a total population of 558. At that date, it corresponds nearly to 30% response rate of all the houses (784) in Cambourne.

Section A: About your move to CAMBOURNE

Question 1: Which city/town/village did you move to Cambourne from?

Table 1	Frequency	Percent
Other UK Region	73	34.1%
Cambridge City	50	23.4%
East of England	36	16.8%
South Cambridgeshire	28	13.1%
Huntingdonshire	11	5.1%
Foreign Country	9	4.2%
East Cambridgeshire	2	0.9%
Peterborough	1	0.5%
Total	214	100.0%

1. Of those who answered the question, nearly 35% of the people moved from another UK region and nearly a quarter moved from Cambridge (Table 1). The village of Cambourne is also attracting people from the East of England area. Details are in Annex 1.

Question 2: What was your main reason for moving home?

Table 2	Frequency	Percent
Not answered / other	73	34.1%
To be nearer to job	59	27.6%
To find a larger / smaller home	55	25.7%
To be nearer family / friends	23	10.7%
To be nearer children's school	4	1.9%
Total	214	100%

2. Of the people that responded to the survey (Table 2), nearly a third of them moved to Cambourne to be nearer to job, and a quarter wanted to find a larger/smaller home.

Household densities	Number of type of household	Number of people	Density	Ely New Estates Survey Density
One bedroom	3	4	1.3	1.3
Two bedrooms	52	86	1.7	1.6
Three bedrooms	55	123	2.2	2.2
Four bedrooms	72	225	3.1	2.7
Five bedrooms	18	66	3.7	3.5 (5+)
Six bedrooms or more	11	46	4.2	/
Not answered	3	9	3.0	/
Total	214	559	2.6	/

Densities are similar in both surveys for the one, two and three bedrooms. In Cambourne, four and five bedrooms or more have higher densities than in the Ely New Estates Survey.

Question 6: How many adults are there in your household?

Table 6	Frequency	Percent
2 Adults	157	73.4%
1 Adult	46	21.5%
3 Adults	7	3.3%
4 Adults	3	1.4%
No Adult	1	0.5%
Total	214	100.0%

6. There are two adults in three-quarter of the households (Table 6) and more than 20% of the household have one adult.

6.1 Number of children per household?

Table 6.1	Frequency	Percent
No children	128	59.8%
Two children	38	17.8%
One child	28	13.1%
Three children	19	8.9%
Four children	1	0.5%
Total	214	100.0%

6.1 Nearly 60% of the households (Table 6.1) have no children.

Question 6.2: How many children aged 0-4 (preschool) are there in your household?

Table 6.2	Frequency	Percent
No children	172	80.4%
One child	30	14.0%
Two children	12	5.6%
Total	214	100.0%

Section C: About your work, study and travel

Question 8: Are the adults in your household self-employed, employed full-time, part-time, students, retired, looking after home/family, or unemployed?

Table 8	Frequency	Percentage	New Estates Survey (1991)	Cambridgeshire (Census 2001)
Employed full time	247	62.5%	80.0%	44.6%
Employed part time	37	9.4%	7.5%	12.0%
Retired	36	9.1%	2.5%	12.1%
Looking after home/family	34	8.6%	9.0%	5.7%
Self employed	25	6.3%	/	8.9%
Student	14	3.5%	0.2%	2.4%
Unemployed	2	0.5%	0.8%	2.1%
Total	395	100.0%	100.0%	87.8%*

*Not included "Permanently disabled/sick" and "Other" categories

8. Nearly two third of the adults in Cambourne were in full-time employment (Table 8), which is higher than the Census County data; but less people (9.4%) were in part-time employment. In Cambourne, there was 79% of people employed (full time, part time and self employed), 87% in the New Estates Survey and only 65.5% in the county; those percentages reflect the proportion of economically active people in a young development. However, the proportion of Retired people living in Cambourne is high in comparison to the New Estates Survey.

Question 9: In which city/town/village do those that are employed/self employed or students work/study?

Table 9	Frequency	Percentage	Ely New Estates Survey (2002)
Cambridge	133	41.3%	31.5%
Over 15 Miles	58	18.0%	/
Cambourne	30	9.3%	24% (work in Ely/at home)
London	29	9.0%	7%
Within 15 miles	20	6.2%	/
Within 10 miles	20	6.2%	/
Royston	13	4.0%	/
Within 5 miles	11	3.4%	/
Bedford	8	2.5%	/
Total	322	100.0%	/

9. More than 40% of the adults are working/studying in Cambridge (Table 9). There were more people working in Cambridge or London with a house in Cambourne than in Ely. The Ely New Estates Surveys showed that more people work in the City of Ely (4.3% in Cambourne) and about 3% were working from home (1.8% in Cambourne). Details are in Annex 10.

Localities included:

Within 5 miles: Bar Hill, Bourn, Madingley, Papworth Everard, Cambourne, Greater Cambourne Business Park, Home.



Annex F

Mode Share of Education Trips



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	47	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	1.5	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	25	28	30	30	31	28	21	
Bus	20	19	18	12	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

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

Breakdown of Education

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

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

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

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

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

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

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

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

	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%



Annex G Hotel Trip Rates

TRIP RATE CALCULATION SELECTION PARAMETERS:

Land Use : 06 - HOTEL, FOOD & DRINK
 Category : A - HOTELS

Selected regions and areas:

02 SOUTH EAST		
HC HAMPSHIRE		2 days
HF HERTFORDSHIRE		3 days
KC KENT		1 days
SC SURREY		1 days
03 SOUTH WEST		
DC DORSET		6 days
04 EAST ANGLIA		
CA CAMBRIDGESHIRE		1 days
05 EAST MIDLANDS		
NT NOTTINGHAMSHIRE		1 days
06 WEST MIDLANDS		
WO WORCESTERSHIRE		3 days
08 NORTH WEST		
GM GREATER MANCHESTER		2 days

Main parameter selection:

Parameter: Gross floor area
 Range: 355 to 9700 (units: sqm)

Date Range: 01/01/96 to 08/07/04

Selected survey days:

Monday	2 days
Tuesday	4 days
Wednesday	6 days
Thursday	6 days
Friday	2 days

Selected survey types:

Manual count	15 days
Directional ATC Count	5 days

Optional parameter selection:Use Class:

C1	20 days
----	---------

Location:

Town Centre	1 days
Neighbourhood Centre	1 days
Suburban Area	1 days
Edge of Town	2 days
Edge of Town Centre	4 days
Free Standing	9 days
Commercial Zone	1 days
Development Zone	1 days

Optional parameter selection (Cont.):Population within 1 mile:

1,000 or Less	6 days
1,001 to 5,000	5 days
5,001 to 10,000	2 days
10,001 to 15,000	3 days
15,001 to 20,000	2 days
20,001 to 25,000	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	5 days
50,001 to 75,000	2 days
75,001 to 100,000	2 days
100,001 to 125,000	3 days
125,001 to 250,000	2 days
250,001 to 500,000	4 days
500,001 or More	1 days

Car ownership within 5 miles:

0.6 to 1.0	9 days
1.1 to 1.5	11 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	8 days
<20 per day	1	20	0 days
20-39 per day	2	40	2 days
40-59 per day	3	60	1 days
60-79 per day	4	80	1 days
80+ per day	> 4	> 80	8 days

TRIP RATE for Land Use 06 - HOTEL, FOOD & DRINK/A - HOTELS

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	5	5700	0.04	5	5700	0.06	5	5700	0.10
01:00 - 02:00	5	5700	0.02	5	5700	0.01	5	5700	0.03
02:00 - 03:00	5	5700	0.00	5	5700	0.00	5	5700	0.00
03:00 - 04:00	5	5700	0.00	5	5700	0.00	5	5700	0.00
04:00 - 05:00	5	5700	0.00	5	5700	0.00	5	5700	0.00
05:00 - 06:00	5	5700	0.02	5	5700	0.02	5	5700	0.04
06:00 - 07:00	8	6556	0.08	8	6556	0.07	8	6556	0.15
07:00 - 08:00	19	5377	0.16	19	5377	0.23	19	5377	0.39
08:00 - 09:00	20	5126	0.32	20	5126	0.35	20	5126	0.67
09:00 - 10:00	20	5126	0.30	20	5126	0.28	20	5126	0.58
10:00 - 11:00	20	5126	0.18	20	5126	0.22	20	5126	0.40
11:00 - 12:00	20	5126	0.20	20	5126	0.21	20	5126	0.41
12:00 - 13:00	20	5126	0.26	20	5126	0.23	20	5126	0.49
13:00 - 14:00	20	5126	0.26	20	5126	0.28	20	5126	0.54
14:00 - 15:00	20	5126	0.27	20	5126	0.32	20	5126	0.59
15:00 - 16:00	20	5126	0.27	20	5126	0.31	20	5126	0.58
16:00 - 17:00	20	5126	0.27	20	5126	0.29	20	5126	0.56
17:00 - 18:00	20	5126	0.36	20	5126	0.27	20	5126	0.63
18:00 - 19:00	20	5126	0.45	20	5126	0.27	20	5126	0.72
19:00 - 20:00	12	5980	0.37	12	5980	0.26	12	5980	0.63
20:00 - 21:00	12	5980	0.24	12	5980	0.18	12	5980	0.42
21:00 - 22:00	9	6248	0.14	9	6248	0.28	9	6248	0.42
22:00 - 23:00	7	6314	0.13	7	6314	0.21	7	6314	0.34
23:00 - 24:00	7	6314	0.03	7	6314	0.12	7	6314	0.15
Daily Trip Rates:			4.36			4.47			8.84

Parameter summary

Trip rate parameter range selected: 355 - 9700 (units: sqm)
 Survey date range: 01/01/96 - 08/07/04
 Number of weekdays (Monday-Friday): 20
 Number of Saturdays: 0
 Number of Sundays: 0
 Optional parameters used in selection: NO
 Surveys manually removed from selection: 0

Greater London Authority - Trip Rate Assessment Valid for London
Trip Rate 4 - Average by Time.

Trip rate for: Gross Floor Area:

Sites selected and survey periods displayed:

- Elm Hotel , 1 Elm Road 29/04/1994 Friday survey period: 06:00-24:00
- Woodford Moat House , 30 Oak Hill 21/04/1994 Thursday survey period: 12:00-24:00
- Forte Posthouse Hotel , Southwold Road 12/06/1996 Wednesday survey period: 07:00-24:00
- Ibis Hotel , 30 Stockwell Street 27/01/1997 Monday survey period: 07:00-24:00
- Croydon Park Hotel , 7 Altyre Road 06/05/1997 Tuesday survey period: 07:00-24:00
- County Hotel , 30 Oak Hill 25/04/2002 Thursday survey period: 07:00-22:00

MODE: All Modes		IN	OUT	TOTALS
Time Range	No of Sites	Trip Rate	Trip Rate	Trip Rate
06:00-06:30	1	0.00	0.00	0.00
06:30-07:00	1	0.17	0.00	0.17
07:00-07:30	5	0.14	0.23	0.37
07:30-08:00	5	0.16	0.33	0.49
08:00-08:30	5	0.13	0.28	0.40
08:30-09:00	5	0.27	0.48	0.75
09:00-09:30	5	0.10	0.21	0.31
09:30-10:00	5	0.14	0.19	0.33
10:00-10:30	5	0.14	0.22	0.36
10:30-11:00	5	0.15	0.26	0.40
11:00-11:30	5	0.16	0.16	0.32
11:30-12:00	5	0.10	0.11	0.21
12:00-12:30	6	0.36	0.11	0.47
12:30-13:00	6	0.36	0.21	0.58
13:00-13:30	6	0.39	0.22	0.61
13:30-14:00	6	0.27	0.37	0.64
14:00-14:30	6	0.11	0.31	0.42
14:30-15:00	6	0.12	0.35	0.47
15:00-15:30	6	0.19	0.22	0.42
15:30-16:00	6	0.18	0.25	0.43
16:00-16:30	6	0.45	0.35	0.80
16:30-17:00	6	0.30	0.31	0.61
17:00-17:30	6	0.39	0.27	0.67
17:30-18:00	6	0.41	0.28	0.69
18:00-18:30	6	0.35	0.30	0.65
18:30-19:00	6	0.42	0.34	0.76
19:00-19:30	6	0.64	0.41	1.04
19:30-20:00	6	0.29	0.20	0.50
20:00-20:30	6	0.28	0.31	0.59
20:30-21:00	6	0.25	0.14	0.38
21:00-21:30	6	0.28	0.23	0.51
21:30-22:00	6	0.23	0.15	0.38
22:00-22:30	5	0.13	0.09	0.22
22:30-23:00	5	0.32	0.34	0.67
23:00-23:30	5	0.20	0.28	0.47
23:30-24:00	5	0.20	0.09	0.29

Greater London Authority - Trip Rate Assessment Valid for London
Trip Rate 4 - Average by Time.

Trip rate for: Gross Floor Area:

Sites selected and survey periods displayed:

- Elm Hotel , 1 Elm Road 29/04/1994 Friday survey period: 06:00-24:00
- Woodford Moat House , 30 Oak Hill 21/04/1994 Thursday survey period: 12:00-24:00
- Forte Posthouse Hotel , Southwold Road 12/06/1996 Wednesday survey period: 07:00-24:00
- Ibis Hotel , 30 Stockwell Street 27/01/1997 Monday survey period: 07:00-24:00
- Croydon Park Hotel , 7 Altyre Road 06/05/1997 Tuesday survey period: 07:00-24:00
- County Hotel , 30 Oak Hill 25/04/2002 Thursday survey period: 07:00-22:00

Peak Period for <u>All Modes</u>	Timeband(s)	Trip Rate
IN	19:00-19:30	0.64
OUT	08:30-09:00	0.48
TOTALS	19:00-19:30	1.04

Greater London Authority - Trip Rate Assessment Valid for London
Trip Rate 4 - Average by Time.

Trip rate for: Gross Floor Area:

Sites selected and survey periods displayed:

Elm Hotel , 1 Elm Road 29/04/1994 Friday survey period: 06:00-24:00

Woodford Moat House , 30 Oak Hill 21/04/1994 Thursday survey period: 12:00-24:00

Forfe Posthouse Hotel , Southwold Road 12/06/1996 Wednesday survey period: 07:00-24:00

Ibis Hotel , 30 Stockwell Street 27/01/1997 Monday survey period: 07:00-24:00

Croydon Park Hotel , 7 Altyre Road 06/05/1997 Tuesday survey period: 07:00-24:00

County Hotel , 30 Oak Hill 25/04/2002 Thursday survey period: 07:00-22:00

MODE: CAR (All)		IN	OUT	TOTALS
Time Range	No of Sites	Trip Rate	Trip Rate	Trip Rate
06:00-06:30	1	0.00	0.00	0.00
06:30-07:00	1	0.00	0.00	0.00
07:00-07:30	5	0.10	0.17	0.26
07:30-08:00	5	0.10	0.26	0.35
08:00-08:30	5	0.10	0.22	0.32
08:30-09:00	5	0.19	0.30	0.49
09:00-09:30	5	0.05	0.11	0.16
09:30-10:00	5	0.08	0.10	0.18
10:00-10:30	5	0.08	0.11	0.19
10:30-11:00	5	0.12	0.17	0.29
11:00-11:30	5	0.08	0.09	0.17
11:30-12:00	5	0.07	0.07	0.14
12:00-12:30	6	0.26	0.06	0.33
12:30-13:00	6	0.28	0.11	0.39
13:00-13:30	6	0.23	0.15	0.38
13:30-14:00	6	0.16	0.24	0.40
14:00-14:30	6	0.08	0.21	0.29
14:30-15:00	6	0.08	0.23	0.31
15:00-15:30	6	0.14	0.17	0.31
15:30-16:00	6	0.12	0.21	0.33
16:00-16:30	6	0.20	0.23	0.43
16:30-17:00	6	0.20	0.18	0.38
17:00-17:30	6	0.22	0.17	0.40
17:30-18:00	6	0.21	0.15	0.36
18:00-18:30	6	0.22	0.19	0.42
18:30-19:00	6	0.26	0.15	0.42
19:00-19:30	6	0.24	0.20	0.44
19:30-20:00	6	0.20	0.10	0.30
20:00-20:30	6	0.15	0.18	0.33
20:30-21:00	6	0.09	0.07	0.16
21:00-21:30	6	0.16	0.14	0.31
21:30-22:00	6	0.09	0.09	0.18
22:00-22:30	5	0.06	0.05	0.12
22:30-23:00	5	0.12	0.14	0.27
23:00-23:30	5	0.07	0.07	0.15
23:30-24:00	5	0.06	0.05	0.11

Greater London Authority - Trip Rate Assessment Valid for London
Trip Rate 4 - Average by Time.

Trip rate for: Gross Floor Area:

Sites selected and survey periods displayed:

- Elm Hotel , 1 Elm Road 29/04/1994 Friday survey period: 06:00-24:00
- Woodford Moat House , 30 Oak Hill 21/04/1994 Thursday survey period: 12:00-24:00
- Forte Posthouse Hotel , Southwold Road 12/06/1996 Wednesday survey period: 07:00-24:00
- Ibis Hotel , 30 Stockwell Street 27/01/1997 Monday survey period: 07:00-24:00
- Croydon Park Hotel , 7 Altyre Road 06/05/1997 Tuesday survey period: 07:00-24:00
- County Hotel , 30 Oak Hill 25/04/2002 Thursday survey period: 07:00-22:00

Peak Period for <u>CAR (All)</u>	Timeband(s)	Trip Rate
IN	12:30-13:00	0.28
OUT	08:30-09:00	0.30
TOTALS	08:30-09:00	0.49

Greater London Authority - Trip Rate Assessment Valid for London

Trip Rate 4 - Average by Time.

Trip rate for: Gross Floor Area:

Sites selected and survey periods displayed:

Elm Hotel , 1 Elm Road 29/04/1994 Friday survey period: 06:00-24:00

Woodford Moat House , 30 Oak Hill 21/04/1994 Thursday survey period: 12:00-24:00

Forte Posthouse Hotel , Southwold Road 12/06/1996 Wednesday survey period: 07:00-24:00

Ibis Hotel , 30 Stockwell Street 27/01/1997 Monday survey period: 07:00-24:00

Croydon Park Hotel , 7 Altyre Road 06/05/1997 Tuesday survey period: 07:00-24:00

County Hotel , 30 Oak Hill 25/04/2002 Thursday survey period: 07:00-22:00

MODE: car driver		IN	OUT	TOTALS
Time Range	No of Sites	Trip Rate	Trip Rate	Trip Rate
06:00-06:30	1	0.00	0.00	0.00
06:30-07:00	1	0.00	0.00	0.00
07:00-07:30	5	0.08	0.11	0.18
07:30-08:00	5	0.07	0.16	0.23
08:00-08:30	5	0.07	0.16	0.23
08:30-09:00	5	0.17	0.18	0.35
09:00-09:30	5	0.05	0.08	0.13
09:30-10:00	5	0.06	0.08	0.14
10:00-10:30	5	0.07	0.06	0.14
10:30-11:00	5	0.09	0.12	0.21
11:00-11:30	5	0.06	0.07	0.13
11:30-12:00	5	0.05	0.04	0.10
12:00-12:30	6	0.16	0.05	0.21
12:30-13:00	6	0.20	0.09	0.29
13:00-13:30	6	0.17	0.12	0.28
13:30-14:00	6	0.11	0.17	0.28
14:00-14:30	6	0.05	0.16	0.21
14:30-15:00	6	0.06	0.17	0.23
15:00-15:30	6	0.07	0.14	0.20
15:30-16:00	6	0.08	0.14	0.22
16:00-16:30	6	0.14	0.16	0.30
16:30-17:00	6	0.13	0.11	0.25
17:00-17:30	6	0.16	0.10	0.26
17:30-18:00	6	0.14	0.12	0.26
18:00-18:30	6	0.17	0.15	0.32
18:30-19:00	6	0.19	0.11	0.30
19:00-19:30	6	0.17	0.15	0.31
19:30-20:00	6	0.15	0.08	0.24
20:00-20:30	6	0.09	0.11	0.19
20:30-21:00	6	0.07	0.04	0.11
21:00-21:30	6	0.09	0.08	0.17
21:30-22:00	6	0.07	0.06	0.13
22:00-22:30	5	0.04	0.02	0.07
22:30-23:00	5	0.07	0.09	0.17
23:00-23:30	5	0.05	0.04	0.10
23:30-24:00	5	0.03	0.04	0.07

Greater London Authority - Trip Rate Assessment Valid for London
Trip Rate 4 - Average by Time.

Trip rate for: Gross Floor Area:

Sites selected and survey periods displayed:

Elm Hotel , 1 Elm Road 29/04/1994 Friday survey period: 06:00-24:00

Woodford Moat House , 30 Oak Hill 21/04/1994 Thursday survey period: 12:00-24:00

Forte Posthouse Hotel , Southwold Road 12/06/1996 Wednesday survey period: 07:00-24:00

Ibis Hotel , 30 Stockwell Street 27/01/1997 Monday survey period: 07:00-24:00

Croydon Park Hotel , 7 Altyre Road 06/05/1997 Tuesday survey period: 07:00-24:00

County Hotel , 30 Oak Hill 25/04/2002 Thursday survey period: 07:00-22:00

Peak Period for car driver	Timeband(s)	Trip Rate
IN	12:30-13:00	0.20
OUT	08:30-09:00	0.18
TOTALS	08:30-09:00	0.35

Greater London Authority - Trip Rate Assessment Valid for London
Trip Rate 4 - Average by Time.

Trip rate for: Gross Floor Area:

Sites selected and survey periods displayed:

- Elm Hotel , 1 Elm Road 29/04/1994 Friday survey period: 06:00-24:00
- Woodford Moat House , 30 Oak Hill 21/04/1994 Thursday survey period: 12:00-24:00
- Forte Posthouse Hotel , Southwold Road 12/06/1996 Wednesday survey period: 07:00-24:00
- Ibis Hotel , 30 Stockwell Street 27/01/1997 Monday survey period: 07:00-24:00
- Croydon Park Hotel , 7 Altyre Road 06/05/1997 Tuesday survey period: 07:00-24:00
- County Hotel , 30 Oak Hill 25/04/2002 Thursday survey period: 07:00-22:00

MODE: car passenger		IN	OUT	TOTALS
Time Range	No of Sites	Trip Rate	Trip Rate	Trip Rate
06:00-06:30	1	0.00	0.00	0.00
06:30-07:00	1	0.00	0.00	0.00
07:00-07:30	5	0.02	0.06	0.08
07:30-08:00	5	0.02	0.10	0.12
08:00-08:30	5	0.03	0.06	0.09
08:30-09:00	5	0.02	0.11	0.14
09:00-09:30	5	0.00	0.03	0.03
09:30-10:00	5	0.02	0.02	0.04
10:00-10:30	5	0.01	0.04	0.05
10:30-11:00	5	0.03	0.05	0.08
11:00-11:30	5	0.02	0.02	0.04
11:30-12:00	5	0.01	0.02	0.04
12:00-12:30	6	0.10	0.02	0.12
12:30-13:00	6	0.08	0.02	0.10
13:00-13:30	6	0.06	0.03	0.10
13:30-14:00	6	0.05	0.07	0.11
14:00-14:30	6	0.03	0.05	0.08
14:30-15:00	6	0.02	0.06	0.08
15:00-15:30	6	0.07	0.03	0.10
15:30-16:00	6	0.04	0.06	0.10
16:00-16:30	6	0.06	0.07	0.13
16:30-17:00	6	0.07	0.06	0.14
17:00-17:30	6	0.07	0.07	0.14
17:30-18:00	6	0.07	0.03	0.10
18:00-18:30	6	0.05	0.05	0.10
18:30-19:00	6	0.08	0.04	0.11
19:00-19:30	6	0.07	0.05	0.12
19:30-20:00	6	0.05	0.01	0.06
20:00-20:30	6	0.06	0.07	0.14
20:30-21:00	6	0.02	0.03	0.05
21:00-21:30	6	0.07	0.06	0.13
21:30-22:00	6	0.03	0.03	0.05
22:00-22:30	5	0.02	0.03	0.05
22:30-23:00	5	0.05	0.05	0.10
23:00-23:30	5	0.02	0.03	0.05
23:30-24:00	5	0.02	0.01	0.03

Greater London Authority - Trip Rate Assessment Valid for London
Trip Rate 4 - Average by Time.

Trip rate for: Gross Floor Area:

Sites selected and survey periods displayed:

- Elm Hotel , 1 Elm Road 29/04/1994 Friday survey period: 06:00-24:00
- Woodford Moat House , 30 Oak Hill 21/04/1994 Thursday survey period: 12:00-24:00
- Forte Posthouse Hotel , Southwold Road 12/06/1996 Wednesday survey period: 07:00-24:00
- Ibis Hotel , 30 Stockwell Street 27/01/1997 Monday survey period: 07:00-24:00
- Croydon Park Hotel , 7 Altyre Road 06/05/1997 Tuesday survey period: 07:00-24:00
- County Hotel , 30 Oak Hill 25/04/2002 Thursday survey period: 07:00-22:00

Peak Period for <u>car passenger</u>	Timeband(s)	Trip Rate
IN	12:00-12:30	0.10
OUT	08:30-09:00	0.11
TOTALS	08:30-09:00 16:30-17:00 17:00-17:30 20:00-20:30	0.14



Annex H

Employment Trip Rates

TRIP RATE CALCULATION SELECTION PARAMETERS:

Land Use : 02 - EMPLOYMENT
 Category : B - BUSINESS PARK

Selected regions and areas:

02 SOUTH EAST		
BU	BUCKINGHAMSHIRE	1 days
OX	OXFORDSHIRE	1 days
04 EAST ANGLIA		
CA	CAMBRIDGESHIRE	1 days
06 WEST MIDLANDS		
ST	STAFFORDSHIRE	1 days
08 NORTH WEST		
GM	GREATER MANCHESTER	1 days
LC	LANCASHIRE	1 days

Main parameter selection:

Parameter: Gross floor area
 Range: 2120 to 118448 (units: sqm)

Date Range: 01/01/96 to 08/07/04

Selected survey days:

Monday	1 days
Tuesday	1 days
Thursday	3 days
Friday	1 days

Selected survey types:

Manual count	6 days
Directional ATC Count	0 days

Optional parameter selection:Use Class:

B1	6 days
----	--------

Location:

Suburban Area	1 days
Edge of Town	1 days
Commercial Zone	2 days
Industrial Zone	1 days
Development Zone	1 days

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
25,001 to 50,000	2 days

Optional parameter selection (Cont.):Population within 5 miles:

50,001 to 75,000	1 days
75,001 to 100,000	1 days
125,001 to 250,000	3 days
500,001 or More	1 days

Car ownership within 5 miles:

0.6 to 1.0	3 days
1.1 to 1.5	3 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	0 days
<20 per day	1	20	0 days
20-39 per day	2	40	0 days
40-59 per day	3	60	1 days
60-79 per day	4	80	0 days
80+ per day	> 4	> 80	5 days

LIST OF SITES relevant to selection parameters

1	BU-02-B-01 LONDON ROAD	BUSINESS PARK, HIGH WYCOMBE	BUCKINGHAMSHIRE	13300 sqm 591 Parking Spaces 22.5 per sqm
	HIGH WYCOMBE			
	Total Gross floor area:	13300 sqm		
	Survey date:	THURSDAY 08/07/04		Survey Type: MANUAL
2	CA-02-B-01 MILTON ROAD	CAMBRIDGE SCIENCE PARK	CAMBRIDGESHIRE	118448 sqm 3685 Parking Spaces 32.1 per sqm
	CAMBRIDGE			
	Total Gross floor area:	118448 sqm		
	Survey date:	MONDAY 27/11/00		Survey Type: MANUAL
3	GM-02-B-03 CROSS STREET	BUSINESS PARK, SALE	GREATER MANCHESTER	3985 sqm 165 Parking Spaces 24.2 per sqm
	SALE			
	Total Gross floor area:	3985 sqm		
	Survey date:	FRIDAY 28/05/04		Survey Type: MANUAL
4	LC-02-B-02 NAVIGATION WAY PRESTON DOCKLANDS DEVELOPMENT PRESTON	NAVIGATION BUSINESS VILLAGE	LANCASHIRE	3450 sqm 126 Parking Spaces 27.4 per sqm
	Total Gross floor area:	3450 sqm		
	Survey date:	THURSDAY 14/03/96		Survey Type: MANUAL
5	OX-02-B-01 GARSINGTON ROAD COWLEY OXFORD	BUSINESS PARK, OXFORD	OXFORDSHIRE	33105 sqm 1750 Parking Spaces 18.9 per sqm
	Total Gross floor area:	33105 sqm		
	Survey date:	TUESDAY 21/10/03		Survey Type: MANUAL
6	ST-02-B-03 FRANK FOLEY WAY GREYFRIARS STAFFORD	BUSINESS PARK, STAFFORD	STAFFORDSHIRE	4064 sqm 111 Parking Spaces 36.6 per sqm
	Total Gross floor area:	4064 sqm		
	Survey date:	THURSDAY 06/07/00		Survey Type: MANUAL

Average

$$= \frac{(22.5 + 32.1 + 24.2 + 27.4 + 18.9 + 36.6)}{6}$$

$$= \frac{161.7}{6}$$

$$= 26.95$$

Average = 27 spaces per sqm

TRIP RATE for Land Use 02 - EMPLOYMENT/B - BUSINESS PARK

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 - 00:30	0	0	0.00	0	0	0.00	0	0	0.00
00:30 - 01:00	0	0	0.00	0	0	0.00	0	0	0.00
01:00 - 01:30	0	0	0.00	0	0	0.00	0	0	0.00
01:30 - 02:00	0	0	0.00	0	0	0.00	0	0	0.00
02:00 - 02:30	0	0	0.00	0	0	0.00	0	0	0.00
02:30 - 03:00	0	0	0.00	0	0	0.00	0	0	0.00
03:00 - 03:30	0	0	0.00	0	0	0.00	0	0	0.00
03:30 - 04:00	0	0	0.00	0	0	0.00	0	0	0.00
04:00 - 04:30	0	0	0.00	0	0	0.00	0	0	0.00
04:30 - 05:00	0	0	0.00	0	0	0.00	0	0	0.00
05:00 - 05:30	0	0	0.00	0	0	0.00	0	0	0.00
05:30 - 06:00	0	0	0.00	0	0	0.00	0	0	0.00
06:00 - 06:30	0	0	0.00	0	0	0.00	0	0	0.00
06:30 - 07:00	0	0	0.00	0	0	0.00	0	0	0.00
07:00 - 07:30	6	29392	0.13	6	29392	0.03	6	29392	0.16
07:30 - 08:00	6	29392	0.41	6	29392	0.04	6	29392	0.45
08:00 - 08:30	6	29392	0.67	6	29392	0.05	6	29392	0.72
08:30 - 09:00	6	29392	0.75	6	29392	0.07	6	29392	0.82
09:00 - 09:30	6	29392	0.58	6	29392	0.08	6	29392	0.66
09:30 - 10:00	6	29392	0.37	6	29392	0.09	6	29392	0.46
10:00 - 10:30	6	29392	0.16	6	29392	0.07	6	29392	0.23
10:30 - 11:00	6	29392	0.13	6	29392	0.08	6	29392	0.21
11:00 - 11:30	6	29392	0.13	6	29392	0.08	6	29392	0.21
11:30 - 12:00	6	29392	0.10	6	29392	0.13	6	29392	0.23
12:00 - 12:30	6	29392	0.13	6	29392	0.31	6	29392	0.44
12:30 - 13:00	6	29392	0.23	6	29392	0.27	6	29392	0.50
13:00 - 13:30	6	29392	0.25	6	29392	0.25	6	29392	0.50
13:30 - 14:00	6	29392	0.28	6	29392	0.14	6	29392	0.42
14:00 - 14:30	6	29392	0.16	6	29392	0.16	6	29392	0.32
14:30 - 15:00	6	29392	0.12	6	29392	0.15	6	29392	0.27
15:00 - 15:30	6	29392	0.09	6	29392	0.15	6	29392	0.24
15:30 - 16:00	6	29392	0.07	6	29392	0.22	6	29392	0.29
16:00 - 16:30	6	29392	0.07	6	29392	0.32	6	29392	0.39
16:30 - 17:00	6	29392	0.06	6	29392	0.49	6	29392	0.55
17:00 - 17:30	6	29392	0.06	6	29392	0.57	6	29392	0.63
17:30 - 18:00	6	29392	0.06	6	29392	0.52	6	29392	0.58
18:00 - 18:30	6	29392	0.04	6	29392	0.35	6	29392	0.39
18:30 - 19:00	6	29392	0.03	6	29392	0.20	6	29392	0.23
19:00 - 19:30	0	0	0.00	0	0	0.00	0	0	0.00
19:30 - 20:00	0	0	0.00	0	0	0.00	0	0	0.00
20:00 - 20:30	0	0	0.00	0	0	0.00	0	0	0.00
20:30 - 21:00	0	0	0.00	0	0	0.00	0	0	0.00
21:00 - 21:30	0	0	0.00	0	0	0.00	0	0	0.00
21:30 - 22:00	0	0	0.00	0	0	0.00	0	0	0.00
22:00 - 22:30	0	0	0.00	0	0	0.00	0	0	0.00
22:30 - 23:00	0	0	0.00	0	0	0.00	0	0	0.00
23:00 - 23:30	0	0	0.00	0	0	0.00	0	0	0.00
23:30 - 24:00	0	0	0.00	0	0	0.00	0	0	0.00
Daily Trip Rates:			5.07			4.81			9.90

AM
08:30-10:00

AV 1142
0.12

Total 1.54

PM
16:30-18:00

AV 212
0.12

Total 1.26

Parameter summary

Trip rate parameter range selected:	2120 - 118448 (units: sqm)
Survey date date range:	01/01/96 - 08/07/04
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 : 02 - EMPLOYMENT
 Category : B - BUSINESS PARK

Selected regions and areas:

02 SOUTH EAST		
BU	BUCKINGHAMSHIRE	1 days
OX	OXFORDSHIRE	1 days
04 EAST ANGLIA		
CA	CAMBRIDGESHIRE	1 days
06 WEST MIDLANDS		
ST	STAFFORDSHIRE	1 days
08 NORTH WEST		
GM	GREATER MANCHESTER	1 days
LC	LANCASHIRE	1 days

Main parameter selection:

Parameter: Gross floor area
 Range: 2120 to 118448 (units: sqm)

Date Range: 01/01/96 to 08/07/04

Selected survey days:

Monday	1 days
Tuesday	1 days
Thursday	3 days
Friday	1 days

Selected survey types:

Manual count	6 days
Directional ATC Count	0 days

Optional parameter selection:Use Class:

B1	6 days
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Location:

Suburban Area	1 days
Edge of Town	1 days
Commercial Zone	2 days
Industrial Zone	1 days
Development Zone	1 days

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
25,001 to 50,000	2 days

Optional parameter selection (Cont.):Population within 5 miles:

50,001 to 75,000	1 days
75,001 to 100,000	1 days
125,001 to 250,000	3 days
500,001 or More	1 days

Car ownership within 5 miles:

0.6 to 1.0	3 days
1.1 to 1.5	3 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	0 days
<20 per day	1	20	0 days
20-39 per day	2	40	0 days
40-59 per day	3	60	1 days
60-79 per day	4	80	0 days
80+ per day	> 4	> 80	5 days

LIST OF SITES relevant to selection parameters

1	BU-02-B-01 LONDON ROAD HIGH WYCOMBE Total Gross floor area: 13300 sqm Survey date: THURSDAY 08/07/04	BUSINESS PARK, HIGH WYCOMBE BUCKINGHAMSHIRE	13300 sqm 5.91 Parking Spaces 22.5 per sqm
2	CA-02-B-01 MILTON ROAD CAMBRIDGE Total Gross floor area: 118448 sqm Survey date: MONDAY 27/11/00	CAMBRIDGE SCIENCE PARK CAMBRIDGESHIRE	118448 sqm 3585 Parking Spaces 32.1 per sqm
3	GM-02-B-03 CROSS STREET SALE Total Gross floor area: 3985 sqm Survey date: FRIDAY 28/05/04	BUSINESS PARK, SALE GREATER MANCHESTER	3985 sqm 165 Parking Spaces 24.2 per sqm
4	LC-02-B-02 NAVIGATION WAY PRESTON DOCKLANDS DEVELOPMENT PRESTON Total Gross floor area: 3450 sqm Survey date: THURSDAY 14/03/96	NAVIGATION BUSINESS VILLAGE LANCASHIRE	3450 sqm 126 Parking Spaces 27.4 per sqm
5	OX-02-B-01 GARSINGTON ROAD COWLEY OXFORD Total Gross floor area: 33105 sqm Survey date: TUESDAY 21/10/03	BUSINESS PARK, OXFORD OXFORDSHIRE	33105 sqm 1750 Parking Spaces 18.9 per sqm
6	ST-02-B-03 FRANK FOLEY WAY GREYFRIARS STAFFORD Total Gross floor area: 4064 sqm Survey date: THURSDAY 06/07/00	BUSINESS PARK, STAFFORD STAFFORDSHIRE	4064 sqm 111 Parking Spaces 36.6 per sqm

Average

$$\frac{(22.5 + 32.1 + 24.2 + 27.4 + 18.9 + 36.6)}{6}$$

$$= \frac{161.7}{6}$$

$$= 26.95$$

Average = 27 spaces per sqm

TRIP RATE for Land Use 02 - EMPLOYMENT/B - BUSINESS PARK

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 - 00:30	0	0	0.00	0	0	0.00	0	0	0.00
00:30 - 01:00	0	0	0.00	0	0	0.00	0	0	0.00
01:00 - 01:30	0	0	0.00	0	0	0.00	0	0	0.00
01:30 - 02:00	0	0	0.00	0	0	0.00	0	0	0.00
02:00 - 02:30	0	0	0.00	0	0	0.00	0	0	0.00
02:30 - 03:00	0	0	0.00	0	0	0.00	0	0	0.00
03:00 - 03:30	0	0	0.00	0	0	0.00	0	0	0.00
03:30 - 04:00	0	0	0.00	0	0	0.00	0	0	0.00
04:00 - 04:30	0	0	0.00	0	0	0.00	0	0	0.00
04:30 - 05:00	0	0	0.00	0	0	0.00	0	0	0.00
05:00 - 05:30	0	0	0.00	0	0	0.00	0	0	0.00
05:30 - 06:00	0	0	0.00	0	0	0.00	0	0	0.00
06:00 - 06:30	0	0	0.00	0	0	0.00	0	0	0.00
06:30 - 07:00	0	0	0.00	0	0	0.00	0	0	0.00
07:00 - 07:30	6	29392	0.13	6	29392	0.03	6	29392	0.16
07:30 - 08:00	6	29392	0.41	6	29392	0.04	6	29392	0.45
08:00 - 08:30	6	29392	0.67	6	29392	0.05	6	29392	0.72
08:30 - 09:00	6	29392	0.75	6	29392	0.07	6	29392	0.82
09:00 - 09:30	6	29392	0.58	6	29392	0.08	6	29392	0.66
09:30 - 10:00	6	29392	0.37	6	29392	0.09	6	29392	0.46
10:00 - 10:30	6	29392	0.16	6	29392	0.07	6	29392	0.23
10:30 - 11:00	6	29392	0.13	6	29392	0.08	6	29392	0.21
11:00 - 11:30	6	29392	0.13	6	29392	0.08	6	29392	0.21
11:30 - 12:00	6	29392	0.10	6	29392	0.13	6	29392	0.23
12:00 - 12:30	6	29392	0.13	6	29392	0.31	6	29392	0.44
12:30 - 13:00	6	29392	0.23	6	29392	0.27	6	29392	0.50
13:00 - 13:30	6	29392	0.25	6	29392	0.25	6	29392	0.50
13:30 - 14:00	6	29392	0.28	6	29392	0.14	6	29392	0.42
14:00 - 14:30	6	29392	0.16	6	29392	0.16	6	29392	0.32
14:30 - 15:00	6	29392	0.12	6	29392	0.15	6	29392	0.27
15:00 - 15:30	6	29392	0.09	6	29392	0.15	6	29392	0.24
15:30 - 16:00	6	29392	0.07	6	29392	0.22	6	29392	0.29
16:00 - 16:30	6	29392	0.07	6	29392	0.32	6	29392	0.39
16:30 - 17:00	6	29392	0.06	6	29392	0.49	6	29392	0.55
17:00 - 17:30	6	29392	0.06	6	29392	0.57	6	29392	0.63
17:30 - 18:00	6	29392	0.06	6	29392	0.52	6	29392	0.58
18:00 - 18:30	6	29392	0.04	6	29392	0.35	6	29392	0.39
18:30 - 19:00	6	29392	0.03	6	29392	0.20	6	29392	0.23
19:00 - 19:30	0	0	0.00	0	0	0.00	0	0	0.00
19:30 - 20:00	0	0	0.00	0	0	0.00	0	0	0.00
20:00 - 20:30	0	0	0.00	0	0	0.00	0	0	0.00
20:30 - 21:00	0	0	0.00	0	0	0.00	0	0	0.00
21:00 - 21:30	0	0	0.00	0	0	0.00	0	0	0.00
21:30 - 22:00	0	0	0.00	0	0	0.00	0	0	0.00
22:00 - 22:30	0	0	0.00	0	0	0.00	0	0	0.00
22:30 - 23:00	0	0	0.00	0	0	0.00	0	0	0.00
23:00 - 23:30	0	0	0.00	0	0	0.00	0	0	0.00
23:30 - 24:00	0	0	0.00	0	0	0.00	0	0	0.00
Daily Trip Rates:			5.07			4.81			9.90

Handwritten calculations:
 ARR 08:30-09:00: 6 / 29392 = 0.12, Total 1.314
 ARR 17:00-17:30: 6 / 29392 = 0.12, Total 1.21

Parameter summary

Trip rate parameter range selected:	2120 - 118448 (units: sqm)
Survey date date range:	01/01/96 - 08/07/04
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