

South West Bicester Technical Report 1 (Rev D) Trip Generation, Distribution & Analysis

Countryside Properties (Bicester) Ltd

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1 Introduction

1.1 CONTEXT

- 1.1.1 WSP Development Ltd has been appointed by Countryside Properties (Bicester) Ltd to provide transport advice in relation to the proposed residential development at South West Bicester, Bicester.
- 1.1.2 The proposals for South West Bicester are based on providing a high quality development which would include the provision of 1,585 residential units, approximately 20,000sqm of B1 / B2 employment land, a hotel, a health village, a local centre (including 1,000sqm GFA of employment) and associated amenities, a sports centre, open space and community facilities including two primary schools and secondary school provision.

Table 1.1: South West Bicester Land Uses

Land Use	Quantum
Non Educational Uses	
Residential Units	1,585 units
Employment Use (Local Centre)	1,000 sqm GFA
B1 / B2 Employment Use	20,000 sqm GFA
Hotel	100 Bedrooms
Health Village	3.5 Hectares
Sports Centre	2,323 sqm GFA
Educational Uses	
Primary Schools	630 Pupils
Secondary school provision	650 Pupils

It is considered that the local centre and associated amenities will cater predominantly for residents of the new development. Therefore, for the purposes of this trip generation assessment, their effect has not been evaluated as it is not considered that they would generate significant external vehicular trips.

- 1.1.3 This Technical Report presents an assessment of the generation of person trips associated with the proposed South West Bicester development.
- 1.1.4 Section 2 of this Technical Report details the trip generation by the residential element of the proposals while Section 3 outlines the external trips that would be generated by the hotel use.
- 1.1.5 The trip generation associated with the 1,000 sqm GFA of local employment use is assessed in Section 4 while in Section 5 the externally generated trips generated by the 20,000 sqm GFA of B1 / B2 employment is assessed.
- 1.1.6 In Section 6 the trips associated with the on-site education provision are identified, while in Section 7 external trips generated by the health village are outlined.
- 1.1.7 The trip generation associated with the proposed sports centre is detailed in Section 8.

Finally, Section 9 of this technical report presents a summary of the total external trip generation and also identified the zonal distribution of the vehicular trips.

2 Residential Generation

2.1 RESIDENTIAL PERSON TRIP GENERATION

2.1.1 The TRICS database has been interrogated in order to determine the quantum of peak hour vehicle trips that would be generated by the proposed residential development. A range of 'mixed private housing' sites have been selected within England from the TRICS database and have been assessed to derive the peak hour vehicular trip rates shown in Table 2.1 below. Extracts from the TRICS database are attached as Annex A.

Table 2.1: Residential Vehicular Trip Rates and Trips – Gross Generation

		AM Peak Hour 0800-0900			/ Peak Hour 1700-1800	
	In	Out	Total	In	Out	Total
Trip Rate – Vehs / Unit	0.10	0.42	0.52	0.39	0.17	0.56
Total Trips (Vehs)	159	666	824	618	269	888

Source: TRICS database

- 2.1.2 Based on the above, the 1,585 dwelling residential development is predicted to generate 824 and 888 vehicle trips during the morning and evening peak hours respectively.
- 2.1.3 The TRICS database is considered to be suitable for forecasting the quantum of vehicular trips generated by the proposed development. However, use has been made of National Travel Survey (NTS) data in order to establish the typical mode share of residential journeys, to determine the quantum of non-car and car passenger trips.
- 2.1.4 Using the NTS data (extracts attached as Annex B), it can be established that car driver trips presently comprise 39% of all morning peak hour trips. The corresponding figure during the evening peak hour is 49%. The existing mode share obtained from NTS data is summarised in Table 2.2 below.

Table 2.2: Mode Share of Residential Trips

Mode of Travel	AM Peak Hour	PM Peak Hour
Non-Car	43%	30%
Car Driver	39%	49%
Car Passenger	18%	21%
Total	100%	100%

Source: NTS Data

2.1.5 The mode share percentages shown in Table 2.2 have been applied to the vehicular trip generation in order to factor-up the vehicle trips to represent the total person trip generation of the residential development (see Table 2.3). It is important to note that the number of car drivers does not reduce as a result of this adjustment.

Table 2.3: Total Residential Person Trips – Gross Generation

	AM Peak Hour 0800-0900				our O	
	In	Out	Total	In	Out	Total
Non-Car	175	734	909	378	165	543
Car Driver	159	666	824	618	269	888
Car Passenger	73	307	380	265	115	380
Total	406	1,707	2,113	1,262	550	1,811

2.2 ALLOWANCE FOR AFFORDABLE HOUSING

- 2.2.1 The residential element of the proposed development is likely to comprise approximately 30% affordable units. Analysis of the TRICS database indicates that peak hour trips attributable to affordable units in England are approximately 30% lower than private housing trip rates. This correlates well with information contained within the National Travel Survey (NTS) which indicates that housing occupants on lower incomes generate approximately 20% fewer person trips. Relevant extracts of the TRICS and NTS data are attached as Annex C.
- 2.2.2 Based on the above, it is considered appropriate to reduce the residential trips generated by the affordable element of the units by 25%. Therefore, it can be demonstrated that the proposed development would generate some 7.5% fewer person trips than if it were wholly market housing.

$$[(0.70 \times 1.0) + (0.30 \times 0.75)] = 0.925$$

2.2.3 Table 2.4 shows the number of person trips that would be generated by the residential component of the development, accounting for the element of affordable housing that would be promoted.

Table 2.4: Total Residential Person Trips – Allowing for Affordable Units

	AM Peak Hour 0800-0900			PM Peak Hour 1700-1800		
	In	Out	Total	In	Out	Total
Non-Car	162	679	841	350	153	503
Car Driver	147	616	762	572	249	821
Car Passenger	68	284	352	245	107	352
Total	376	1,579	1,955	1,167	509	1,676

2.3 ALLOWANCE FOR COMMUTING JOURNEYS MODE SHIFT

- 2.3.1 It is anticipated that a proportion of the new residents would gain work at the proposed on-site employment and neighbouring land, to the east of the A41. Analysis of NTS data, presented within Annex D, indicates that 36% of morning peak hour trips are for employment purposes. The corresponding proportion of commuting trips during the evening peak hour is 41%.
- 2.3.2 Surveys undertaken in a range of mixed-use settlements in England demonstrate that for new developments, approximately 10% of financially active adults work and live in the same development. The same surveys identified a significantly higher proportion (24%) of internal employment trips in more established mixed-use areas. Extracts of the survey data is attached as Annex E.
- 2.3.3 There are two immediate employment areas available to the new residents, 20,000sqm within the proposed development and an additional 60,000sqm on neighbouring land. The available on-site employment will result in a reduction in external trips and, whilst it is acknowledged that the neighbouring employment development would be external to the site, it is considered that its close proximity would result in a higher number of trips being made by non-car modes.
- 2.3.4 In order to reflect the level of mode shift that is likely to be achieved at the proposed development, it is considered that 17% of the residential trips for employment purposes (the average of the mixed use development surveyed figures) would shift to non-car modes of transport. This equates to a mode shift of 6.1% of the morning peak trips by car and 7.0% of the evening peak hour trips by car. These trips have been apportioned to the car passenger and non-car modes based on their existing proportions. Tables 2.5 and 2.6 show the mode shift for the on-site and neighbouring employment respectively, while Table 2.7 shows the total mode shift for the new residents.

Table 2.5: Commuting Mode Shift to On-Site Employment

	AM Peak Hour 0800-0900			PM Peak Hour 1700-1800		
	In	Out	Total	In	Out	Total
Non-Car	3	14	17	14	6	20
Car Driver	-2	-9	-12	-10	-4	-14
Car Passenger	-1	-4	-5	-4	-2	-6
Total	0	0	0	0	0	0

Table 2.6: Commuting Mode Shift to Neighbouring Employment

	AM Peak Hour 0800-0900			PM Peak Hour 1700-1800		
	In	Out	Total	In	Out	Total
Non-Car	10	41	51	43	19	61
Car Driver	-7	-28	-35	-30	-13	-43
Car Passenger	-3	-13	-16	-13	-6	-18
Total	0	0	0	0	0	0

Table 2.7: Allowance for Commuting Mode Shift

- 6	AM Peak Hour 0800-0900			PM Peak Hour 1700-1800		
	ln	Out	Total	In	Out	Total
Non-Car	+13	+55	+68	+57	+25	+82
Car Driver	-9	-38	-47	-40	-17	-57
Car Passenger	-4	-17	-22	-17	-7	-25
Total	0	0	0	0	0	0

2.4 ALLOWANCE FOR INTERNAL EDUCATION TRIPS

- 2.4.1 As stated in Section 1 of this Technical Report, primary and secondary education provision will be incorporated into the development. Therefore, as the person trips illustrated in Table 2.4 include trips to schools, this element needs to be discounted when deriving the total number of trips that would be external to the development.
- 2.4.2 Analysis of NTS data (attached as Annex D) indicates that approximately 43% of morning peak hour trips and 4% of evening peak hour trips are likely to be for educational purposes. A further breakdown of the education shows that primary schools account for 45% of all education trips, while secondary and tertiary education account for 35% and 20% respectively. Therefore the proposed education trips for the site equate to 542 and 43 trips during the morning and evening peak hours respectively.
- 2.4.3 The mode share of these trips has been established using NTS data (extracts attached as Annex F) in order to reflect the typical mode share of primary and secondary trips.
- 2.4.4 It should be noted that the proposed secondary school provision will only provide facilities for pupils of 14 to 19 years. Consequently, secondary pupils between 11 and 14 years will be required to use off-site secondary schools. It has therefore been assumed that the on-site secondary provision will cater for 5/9ths of secondary education trips, while the remaining 4/9ths will go to external secondary schools.
- 2.4.5 Tables 2.8 and 2.9 show the resultant mode shift for primary and secondary education.

Table 2.8: Allowance for Internal Primary School Trips

	AM Peak Hour 0800-0900			P	M Peak Ho	
	In	Out	Total	In	Out	Total
Non-Car	-33	-138	-171	-10	-4	-14
Car Driver	-16	-67	-83	-5	-2	-7
Car Passenger	-24	-100	-124	-7	-3	-10
Total	-73	-306	-378	-21	-9	-30

Table 2.9: Allowance for Internal Secondary School Trips

	AM Peak Hour 0800-0900			PM Peak H		
	In	Out	Total	ln	Out	Total
Non-Car	-12	-52	-64	-4	-2	-5
Car Driver	-2	-9	3-11	-1	0	-1
Car Passenger	-3	-13	-16	-1	0	-1
Total	-17	-73	-91	-5	-2	-7

2.4.6 Given that these trips will remain internal to the development, Table 2.10 shows the total reduction in the external residential trips.

Table 2.10: Allowance for Internal Trips to Schools

	A	AM Peak Hour 0800-0900			M Peak Ho 1700-1800	
	In	Out	Total	In	Out	Total
Non-Car	-45	-190	-235	-13	-6	-19
Car Driver	-18	-75	-93	-5	-2	-7
Car Passenger	-27	-113	-140	-8	-3	-11
Total	-90	-379	-469	-26	-11	-37

2.5 EXTERNAL RESIDENTIAL TRIPS

2.5.1 Table 2.11 shows the total number of external person trips that would be generated by the residential development at South West Bicester, derived by applying the allowances for the mode shift of commuting trips (Table 2.7) and the internalisation of school trips (Table 2.10) to the to the total residential person trips (Table 2.4).

Table 2.11: External Residential Person Trips

	AM Peak Hour 0800-0900				M Peak Ho 1700-1800	
	In	Out	Total	In	Out	Total
Non-Car	129	544	673	394	172	566
Car Driver	120	503	622	527	230	756
Car Passenger	37	154	190	220	96	316
Total	286	1200	1486	1141	497	1638

2.5.2 The resultant external car driver trip rates correspond to 0.39 and 0.48 vehs / unit during the morning and evening peak hours respectively.

3 Hotel Generation

3.1 HOTEL PERSON TRIP GENERATION

- 3.1.1 The proposed development will comprise up to 100 bedrooms. This equates to approximately 7,000 sqm GFA of hotel use.
- 3.1.2 The TRICS database has been interrogated to determine the vehicular trip rates attributable to this land use. However, as the TRICS database does not hold any multi-modal data on hotels, the TRAVL database has been used to establish the total person trip generation and hence the derivation of the non-car trip rates.
- 3.1.3 Table 3.1 illustrates the peak hour trip rates for the hotel use within the proposed development while relevant extracts from the TRICS and TRAVL databases are attached as Annex G. It should be noted that an occupancy rate of 1.25 has been used to calculate the passenger trip rate.

Table 3.1: Hotel Person Trip Rates

Trips per 100 sqm GFA		M Peak Ho 0800-0900			/I Peak Ho 1700-1800	
	In	Out	Total	ln	Out	Total
Non-Car	0.00	0.32	0.31	0.35	0.21	0.57
Car Driver	0.32	0.35	0.67	0.36	0.27	0.63
Car Passenger	0.08	0.09	0.17	0.09	0.07	0.16
Total	0.40	0.76	1.15	0.80	0.55	1.36

Source: TRICS and TRAVL databases

3.1.4 Table 3.2 shows the number of person trips that would be generated by the hotel, derived by applying the trip generation rates to the quantum of hotel floor space proposed.

Table 3.2: Hotel Person Trips

	AM Peak Hour 0800-0900				M Peak Ho 1700-1800	
	In	Out	Total	In	Out	Total
Non-Car	0	23	22	25	15	40
Car Driver	22	25	47	25	19	44
Car Passenger	6	6	12	6	5	11
Total	28	53	81	56	39	95

4 Local Centre Employment Generation

4.1 EMPLOYMENT TRIP GENERATION

- 4.1.1 The forecast vehicular trip generation of the 1,000 sqm GFA of local employment use has been taken from English business park sites contained in the TRICS database. It is considered that this will provide a fair assessment of the likely vehicular trip generation of the proposed employment uses within the local centre, given the accessibility of this part of the site by foot, cycle and public transport.
- 4.1.2 The resultant vehicular trips are shown in Table 4.1 while full details of the TRICS outputs are attached as Annex H.

Table 4.1: Local Employment Vehicular Trip Rates and Trips – Gross Generation

	AM Peak Hour 0800-0900			PM Peak Hour 1700-1800		
	In	Out	Total	In	Out	Total
Trip Rate – Vehs/100sqm	1.42	0.12	1.54	0.12	1.09	1.21
Total Trips (Vehs)	14	1	15	1	11	12

Source: TRICS database

- 4.1.3 Based on the above, the 1,000 sqm employment development would generate a total of 15 vehicle trips during the morning peak hour. The corresponding number of vehicle trips during the evening peak hour is predicted to be 12.
- 4.1.4 In order to establish the total person trip generation of the employment development, 2001 Census data for employment journeys that have a destination within Bicester has been used to establish the number of trips that would be generated by other modes of travel. As can be seen from Table 4.2, car drivers account for 68% of all employment person trips.

Table 4.2: Mode Share of Local Employment Trips

Mode of Travel	Percentage Share
Non-Car	24%
Car Driver	68%
Car Passenger	8%
Total	100%

Source: 2001 Census

4.1.5 Table 4.3 summarises the number of person trips that would be generated by the proposed employment development, derived by factoring-up the vehicle trips to represent person trips by all modes of travel. It is important to note that the number of car drivers does not reduce as a result of this adjustment.

Table 4.3: Total Local Employment Person Trips – Gross Generation

	AM Peak Hour 0800-0900				M Peak Ho 1700-180	
	In	Out	Total	In	Out	Total
Non-Car	5	0	5	0	4	4
Car Driver	14	1	15	1	11	12
Car Passenger	2	0	2	0	1	1
Total	21	2	23	2	16	18

4.2 ALLOWANCE FOR REDUCED CAR PARKING PROVISION

- 4.2.1 It is important to note that the resultant person trips shown in Table 4.3 are derived using vehicular trip rates associated with existing employment developments that have been operational for some time and do not therefore reflect the benefits of local and national polices aimed at reducing car use. The effect of these polices is difficult to quantify. However, one area which can be examined is the relationship between the provision of on-site car parking spaces and the vehicular mode share.
- 4.2.2 The sites within the TRICS database used to derive the vehicular trip rate reflect a parking provision of one space per 27 sqm whereas, in accordance with current local and national policy, parking at the proposed development is likely to be at a rate no greater than one space per 30 sqm. Indeed, given that the employment development is likely to incorporate a mix of employment uses (which will result in a lower number of spaces per GFA), the overall parking provision is likely to be between 1 space per 30 sqm and 1 space per 50 sqm. Therefore, for the purposes of this assessment, an overall provision of 1 space per 35 sqm has been applied.
- 4.2.3 It is considered that the reduced parking provision at the development will induce a proportionate mode shift away from car use when compared to sites within the TRICS database that exhibit higher parking provisions.
- 4.2.4 Therefore, a mode shift of 30% [(35-27) / 27] away from car drivers has been applied in order to reflect the reduced parking provision that will be provided. These trips have been apportioned onto the other modes of travel, including car passengers, based on the existing proportions (Table 4.4 refers).

Table 4.4: Total Local Employment Person Trips Allowing for Reduced Car Parking

	AM Peak Hour 0800-0900			P	M Peak Ho 1700-1800	
	In	Out	Total	In	Out	Total
Non-Car	+3	0	+3	0	+2	+2
Car Driver	-4	0	-4	0	-3	-3
Car Passenger	+1	0	+1	0	+1	+1
Total	0	0	0	0	0	0

4.2.5 Table 4.5 shows the resultant mode share of the total person trips which would be generated by the on-site local centre employment uses, derived by applying the allowance for reduced parking provision (Table 4.4) to the total trips (Table 4.3).

Table 4.5: Total Local Employment Person Trips Allowing for Reduced Car Parking

	AM Peak Hour 0800-0900			P	M Peak Ho	
	In	Out	Total	In	Out	Total
Non-Car	8	1	9	1	- 6	7
Car Driver	10	1	11	1	8	9
Car Passenger	3	0	3	0	2	2
Total	21	0	23	2	16	18

5 On Site Employment Generation

5.1 EMPLOYMENT TRIP GENERATION

- 5.1.1 The forecast vehicular trip generation of the 20,000 sqm GFA of B1 / B2 employment use has been taken from English business park sites contained in the TRICS database. It is considered that this will provide a fair assessment of the likely vehicular trip generation of the proposed employment uses within the South West Bicester development, particularly given that these employment uses will be located adjacent to the existing high quality and frequent bus services along the A41 corridor.
- 5.1.2 The resultant vehicular trips are shown in Table 5.1 while full details of the TRICS outputs are attached as Annex H.

Table 5.1: B1 / B2 Employment Vehicular Trip Rates and Trips – Gross Generation

	AM Peak Hour 0800-0900				PM Peak Hour 1700-1800	
	In	Out	Total	In	Out	Total
Trip Rate – Vehs/100sqm	1.42	0.12	1.54	0.12	1.09	1.21
Total Trips (Vehs)	284	24	308	24	218	242

Source: TRICS database

- 5.1.3 Based on the above, the 20,000 sqm of B1 / B2 employment development would generate a total of 308 vehicle trips during the morning peak hour. The corresponding number of vehicle trips during the evening peak hour is predicted to be 242.
- 5.1.4 In order to establish the total person trip generation of the employment development, 2001 Census data for employment journeys that have a destination within Bicester has been used to establish the number of trips that would be generated by other modes of travel. As can be seen from Table 5.2, car drivers account for 68% of all employment person trips.

Table 5.2: Mode Share of B1 / B2 Employment Trips

Mode of Travel	Percentage Share
Non-Car	24%
Car Driver	68%
Car Passenger	8%
Total	100%

Source: 2001 Census

5.1.5 Table 5.3 summarises the number of person trips that would be generated by the proposed B1 / B2 employment development, derived by factoring-up the vehicle trips to represent person trips by all modes of travel. It is important to note that the number of car drivers does not reduce as a result of this adjustment.

Table 5.3: Total B1 / B2 Employment Person Trips – Gross Generation

	AM Peak Hour 0800-0900				M Peak H	
	In	Out	Total	In	Out	Total
Non-Car	100	8	109	8	77	85
Car Driver	284	24	308	24	218	242
Car Passenger	33	3	36	3	26	28
Total	418	35	453	35	321	356

5.2 ALLOWANCE FOR REDUCED CAR PARKING PROVISION

- 5.2.1 It is important to note that the resultant person trips shown in Table 5.3 are derived using vehicular trip rates associated with existing employment developments that have been operational for some time and do not therefore reflect the benefits of local and national polices aimed at reducing car use. The effect of these polices is difficult to quantify. However, one area which can be examined is the relationship between the provision of on-site car parking spaces and the vehicular mode share.
- 5.2.2 The sites within the TRICS database used to derive the vehicular trip rate reflect a parking provision of one space per 27 sqm whereas, in accordance with current local and national policy, parking at the proposed development is likely to be at a rate no greater than one space per 30 sqm. Indeed, given that the employment development is likely to incorporate a mix of employment uses (which will result in a lower number of spaces per GFA), the overall parking provision is likely to be between 1 space per 30 sqm and 1 space per 50 sqm. Therefore, for the purposes of this assessment, an overall provision of 1 space per 35 sqm has been applied.
- 5.2.3 It is considered that the reduced parking provision at the development will induce a proportionate mode shift away from car use when compared to sites within the TRICS database that exhibit higher parking provisions.
- 5.2.4 Therefore, a mode shift of 30% [(35-27) / 27] away from car drivers has been applied in order to reflect the reduced parking provision that will be provided. These trips have been apportioned onto the other modes of travel, including car passengers, based on the existing proportions (Table 5.4 refers).

Table 5.4: Total B1 / B2 Employment Person Trips Allowing for Reduced Car Parking

10.0	AM Peak Hour 0800-0900			PM Peak Hour 1700-1800		
	In	Out	Total	In	Out	Total
Non-Car	+63	+5	+68	+5	+48	+54
Car Driver	-84	-7	-91	-7	-65	-72
Car Passenger	+21	+2	+23	+2	+16	+18
Total	0	0	0	0	0	0

5.2.5 Table 5.5 shows the resultant mode share of the total person trips which would be generated by the on-site employment use, derived by applying the allowance for reduced parking provision (Table 5.4) to the total trips (Table 5.3).

Table 5.5: Total B1 / B2 Employment Person Trips Allowing for Reduced Car Parking

	AM Peak Hour 0800-0900			Р	our)	
	In	Out	Total	In	Out	Total
Non-Car	163	14	177	14	125	139
Car Driver	200	17	217	17	153	170
Car Passenger	54	5	59	5	42	46
Total	418	35	453	35	321	356

5.3 ALLOWANCE FOR EMPLOYMENT MODE SHIFT

5.3.1 Due to the close proximity of the new residential element of the South West Bicester development, a proportion of the B1 / B2 employment will be satisfied by its future residents. Section 2 (Table 2.5) of this report identifies the likely mode shift in commuting trips that is likely to occur because of the immediate proximity of the new residents. Table 5.6 shows the resultant mode shift as described in Section 2.

Table 5.6: Allowance for B1 / B2 Employment Mode Shift

107.0	AM Peak Hour 0800-0900			PM Peak Hour 1700-1800		
	In	Out	Total	In	Out	Total
Non-Car	+14	+3	+17	+6	+14	+20
Car Driver	-9	-2	-12	-4	-10	-14
Car Passenger	-4	-1	-5	-2	-4	-6
Total	0	0	0	0	0	0

5.4 EXTERNAL EMPLOYMENT TRIPS

5.4.1 Table 5.7 shows the total number of external trips that will be generated by the proposed on site employment. These figures have been derived by applying the reductions due to mode shift of employment (Table 5.6) to the total employment trips (Table 5.5).

Table 5.7: External B1 / B2 Employment Person Trips

	AM Peak Hour 0800-0900			P	PM Peak Hour 1700-1800	
	In	Out	Total	In	Out	Tota
Non-Car	177	17	194	20	140	160
Car Driver	190	15	205	13	143	156
Car Passenger	50	4	54	3	38	40
Total	418	35	453	35	321	356

5.4.2 The resulting car driver trip rates correspond to 1.03 and 0.78 vehs / 100sqm GFA during the morning and evening hours respectively.

6 School Generation

6.1 PUPIL TRIP GENERATION

- 6.1.1 The proposed development includes the provision of two primary schools and secondary school provision for pupils between 14 and 19 years.
- 6.1.2 It is understood that the primary schools will accommodate a total of 630 pupils while the secondary school provision will cater for a further 650 pupils.
- 6.1.3 Therefore, it can be seen that the total education facilities provided on the South West Bicester site will attract a total of 1,280 pupils.
- 6.1.4 Using pupil yield factors a comparison of 0.25 pupils per dwelling (primary) and 0.20 pupils per dwelling (secondary), it can be seen that the proposed South West Bicester development could generate for a total of 713 pupils.
- 6.1.5 As stated in Section 2, the proposed secondary school provision has been assumed to provide facilities for 5/9ths of the secondary education age groups. Consequently, given that the proposed primary schools will accommodate all predicted primary pupils associated with new residents, the South West Bicester Development will generate a total of 572 pupils (396 primary pupils and 176 secondary pupils) to the proposed on-site education facilities. Therefore, 55% of the pupils at the proposed schools will travel from outside of the development.
- 6.1.6 As Table 2.10 illustrates, the 572 pupils on the South West Bicester development would generate a total of 469 and 37 person trips during the morning and evening peak hour. Therefore, on a pro-rata basis, the remaining 708 pupils which would originate from outside of the site will generate a further 580 and 46 trips during the respective peak hours.
- 6.1.7 Table 6.1 depicts these externally generated trips. The mode share has been established using NTS data (extracts attached as Annex F) in order to reflect the typical mode share of primary and secondary education trips.

Table 6.1: Externally Generated (by Pupils) Education Trips

	AM Peak Hour 0800-0900			PM Peak Hour 1700-1800		
	In	Out	Total	In	Out	Total
Non-Car	235	56	291	7	16	23
Car Driver	93	22	116	3	6	9
Car Passenger	140	33	173	4	10	14
Total	468	112	580	14	32	46

6.1.8 In order to ensure a robust assessment, the trips in the above table make no allowance for any student absences.

6.2 STAFF TRIP GENERATION

6.2.1 Using data contained within the TRICS database it can be established that, on average, one full time equivalent member of staff is required for every 12 pupils. Therefore, a total of 107 staff are likely to be employed within the primary and secondary establishments in order to cater for the 1,280 pupils.

- 6.2.2 Again, using information within the TRICS database it can be demonstrated that 75% of trips in the morning period (0700-1000) occur during the 0800 to 0900 peak hour. Similarly, 20% of trips during the afternoon period (1500 to 1800) occur during the 1700 to 1800 peak hour.
- 6.2.3 Based on the above it can be established that 81 and 21 staff trips will be generated during the 0800-0900 and 1700-1800 peak hours.
- 6.2.4 Table 6.2 summarises these trips. The trips have been attributed to each mode of travel by applying the mode share for employment trips established from 2001 census data for Bicester (summarised in Table 4.2).

Table 6.2: Externally Generated (by Staff) Education Trips

	AM Peak Hour 0800-0900			Р	our)	
	In	Out	Total	In	Out	Total
Non-Car	14	0	14	0	4	4
Car Driver	64	0	64	0	17	17
Car Passenger	3	0	3	0	1	1
Total	81	0	81	0	21	21

6.3 TOTAL EDUCATION TRIP GENERATION

6.3.1 Table 6.3 shows the total external trip generation for the proposed educational uses on the South West Bicester development site, derived by combining the pupil (Table 6.1) and staff (Table 6.2) trip generations.

Table 6.3: Total Externally Generation Education Trips

	AM Peak Hour 0800-0900			PM Peak Hour 1700-1800		
	In	Out	Total	In	Out	Total
Non-Car	249	56	305	7	20	27
Car Driver	157	22	180	3	23	26
Car Passenger	143	33	177	4	10	15
Total	549	112	661	14	54	68

7 Health Centre Generation

7.1 DEVELOPMENT PROPOSALS

- 7.1.1 The proposed health village will be located in the north eastern corner of the site, adjacent to Middleton Stoney Road, covering an area of approximately 3.5 hectares. Whilst the final uses for the site will need to be determined by the local health authority, it is currently considered that the following mix of health uses could be provided within this site:
- Nursing Home approximately 80 beds / residents;
- Doctors Surgery approximately 8.5 full time equivalent staff;
- GP Medical Centre approximately 26 full time equivalent staff;
- Diagnostic Clinic approximately 15 full time equivalent staff;
- Community Hospital approximately 30 beds.
- 7.1.2 Given the intended uses within the health village, it is anticipated that the majority of visitors would be residents of the proposed South West Bicester development and other local residents, who would be within reasonable walking and cycling distance. Furthermore, the facilities are located adjacent to the Middleton Stoney Road and A4421 Oxford Road corridors and are therefore highly accessible in relation to existing bus services.
- 7.1.3 Consequently, it is likely that a large proportion of person trips associated with these uses would be undertaken by non-car modes. In this respect, the vehicular trip generation for the proposed health village has been derived by determining the overall number of person trips and then applying an appropriate vehicular mode share, based on the location and accessibility of the health village.

7.2 PERSON TRIP GENERATION

7.2.1 The forecast person trip generation of the health village has been taken from appropriate multi-modal sites in the TRICS database. The resultant vehicular trip rates are shown in Table 7.1, while full details of the TRICS outputs are attached as Annex I.

Table 7.1: Health Village Person Trip Rates

	-	M Peak Ho 0800-0900		PM Peak Hour 1700-1800		
	ln	Out	Total	ln	Out	Total
Nursing Home (per bed)	0.09	0.06	0.15	0.06	0.08	0.14
Doctors Surgery (per FTE staff)	1.71	0.88	2.59	1.14	1.59	2.73
GP Medical Centre (per FTE staff)	1.71	0.88	2.59	1.14	1.59	2.73
Diagnostic Clinic (per FTE staff)	1.18	0.41	1.59	0.66	1.00	1.66
Community Hospital (per bed)	1.16	0.24	1.40	0.42	0.98	1.40

7.2.2 The person trip rates shown in Table 7.1 have then been multiplied by the anticipated quantum of each health village use, as detailed in paragraph 7.1.1, to derive the total person trips shown in Table 7.2.

Table 7.2: Health Village Person Trip Generation

	AM Peak Hour 0800-0900			PM Peak Hour 1700-1800		
	In	Out	Total	In	Out	Total
Nursing Home (per bed)	7	5	12	5	6	11
Doctors Surgery (per FTE staff)	15	7	22	10	14	23
GP Medical Centre (per FTE staff)	44	23	67	30	41	71
Diagnostic Clinic (per FTE staff)	18	6	24	10	15	25
Community Hospital (per bed)	35	7	42	13	29	42
Total Person Trips	119	49	167	67	106	172

7.2.3 As can be seen from Table 7.2, the proposed health village is predicted to generate 167 and 172 two-way person trips during the morning and evening peak hours respectively.

7.3 VEHICULAR TRIP GENERATION

- 7.3.1 In order to derive the predicted car driver and car passenger trips associated with the proposed health village, an appropriate vehicular mode share and car occupancy has then been applied to the total person trips.
- 7.3.2 As described in paragraph 7.1.2, it is anticipated that a large proportion of person trips associated with the proposed health village would be undertaken by non-car modes. Consequently, given the site's accessibility, it is considered that an overall car mode share (car driver and passenger) of 70% will provide a robust assessment of the potential car person trips associated with the health village. In order to derive the split of car drivers and car passengers, it has been assumed that car trips associated with the health village uses would have an occupancy of 1.2 persons per vehicle. This is considered to provide an appropriate balance between staff and visitor.
- 7.3.3 Based on the above assumptions, Table 7.3 provides a breakdown of the predicted person trips by car and non-car modes.

Table 7.3: External Health Village Trip Generation

		W Peak H 0800-090	PM Peak Hour 1700-1800			
	In	Out	Total	in	Out	Total
Non-Car	36	15	50	20	32	51
Car Driver	69	28	98	39	62	100
Car Passenger	14	6	19	8	12	21
Total Person Trips	119	49	167	67	106	172

7.3.4 From Table 7.3, it can be seen that the health village would generate 98 and 100 two-way vehicular trips during the morning and evening peak hours respectively. To provide a robust assessment, it is assumed these would all be external person trips.

8 Sports Centre Generation

8.1 SPORTS CENTRE PERSON TRIP GENERATION

- 8.1.1 The proposed development will comprise up to 2,323 sqm GFA of sports centre.
- 8.1.2 The TRICS database has been interrogated to determine the multi-modal trip rates attributable to this land use. Multi-modal trips rates for pedestrians, cyclists, bus users, vehicles and vehicle occupants have been obtained. The car passenger trip rates have been derived by obtaining the difference between the number of vehicle occupants and the number of vehicles, whilst the number of car drivers equates to the number of vehicles.
- 8.1.3 Table 8.1 illustrates the peak hour trip rates for the sports centre use within the proposed development while relevant extracts from the TRICS database are attached as Annex J.

Table 8.1: Sports Centre Person Trip Rates

Trips per 100 sqm GFA		M Peak Ho 0800-0900		PM Peak Hour 1700-1800			
	In	Out	Total	In	Out	Total	
Non-Car (bus, walk, cycle)	0.32	0.18	0.5	0.37	0.36	0.73	
Car Driver	0.53	0.53	1.06	1.02	0.9	1.92	
Car Passenger	0.2	0.1	0.3	0.47	0.81	1.28	
Total	1.05	0.81	1.86	1.86	1.71	3.93	

Source: TRICS databases

8.1.4 Table 8.2 shows the number of person trips that would be generated by the sports centre, derived by applying the trip generation rates to the quantum of sports centre floor space proposed.

Table 8.2: Sports Centre Person Trips

	AM Peak Hour 0800-0900			P	M Peak Ho	
	In	Out	Total	ln	Out	Tota
Non-Car	7	4	11	9	8	17
Car Driver	12	12	25	24	21	45
Car Passenger	5	2	7	11	19	30
Total	24	18	43	44	48	91

9 Total South West Bicester Generation

9.1 **CUMULATIVE TRIP GENERATION**

9.1.1 Tables 9.1 and 9.2 present the total external person trip generation for the South West Bicester development, derived by combining the external residential (Table 2.11), hotel (Table 3.2), local employment (Table 4.5), B1 / B2 employment (Table 5.7) and education (Table 6.3), health village (Table 7.3) and sports centre (Table 8.2) trip generation forecasts.

Table 9.1: South West Bicester External Trip Generation – AM Peak Hour (0800-0900)

Mode of Travel	Non Educational Uses		Educational Uses			Total			
	In	Out	Total	In	Out	Total	In	Out	Total
Non-Car	358	603	962	249	56	305	607	659	1266
Car Driver	424	583	1007	157	22	180	581	605	1186
Car Passenger	114	172	286	143	33	177	257	205	462
Total	896	1358	2254	549	112	661	1445	1470	2915

Note: Minor discrepancies due to rounding

Table 9.2: South West Bicester External Trip Generation – PM Peak Hour (1700-1800)

Mode of Travel	Non Educational Uses		Educational Uses			Total			
	In	Out	Total	ln	Out	Total	In	Out	Total
Non-Car	468	373	841	7	20	27	475	393	867
Car Driver	628	483	1111	3	23	26	631	506	1137
Car Passenger	248	171	420	4	10	15	253	182	434
Total	1344	1027	2371	14	54	68	1358	1080	2438

Note: Minor discrepancies due to rounding

9.2 TRIP DISTRIBUTION & ASSIGNMENT

9.2.1 The forecast vehicular trips have been distributed in accordance with zonal distributions derived from the 2001 Journey to Work census. Data relating to commuting trips originating within all wards within Bicester has been averaged in order to derive the vehicular distribution for both the residential and employment for the South West Bicester development trips. The resultant zonal distribution are summarised in Table 9.3 and 9.4 while Figure 1 illustrates the depiction of the areas covered by each of the zones.

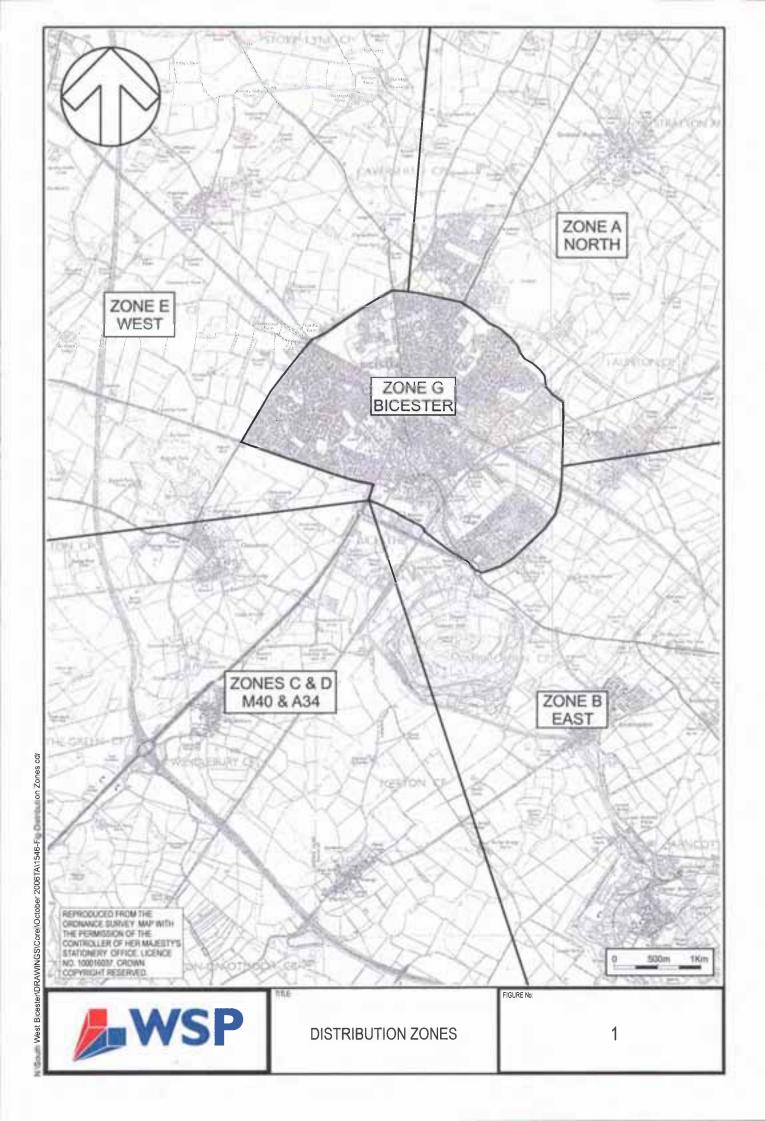
Table 9.3: Residential Vehicular Trip Distribution

Area	Percentage Distribution	
Bicester	25.8%	
North	4.8%	
East	7.6%	
South (M40)	12.6%	
South (A34)	46.3%	
West	3.0%	
Total	100%	

Table 9.4: Employment Vehicular Trip Distribution

Area	Percentage Distribution
Bicester	40.8%
North	8.3%
East	11.4%
South (M40)	2.9%
South (A34)	32.5%
West	4.1%
Total	100%

Figure 1 Zonal Distribution



Annex A Residential Trip Rates

TRICS 2005(a) (C) 2005 JMP Consulting on behalf of the TRICS Consortium Tuesday 28/06/05 Page 1 WSP Management Services Ltd Mountbatten House, Basing View

Basingstoke

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TRIP RATE CALCULATION SELECTION PARAMETERS:

Land Use : 03 - RESIDENTIAL

Category : K - MIXED PRIVATE HOUSING

Selected regions and areas:

02	SOU	TH EAST	
	ES	EAST SUSSEX	1 days
	HC	HAMPSHIRE	13 days
	HF	HERTFORDSHIRE	1 days
	WS	WEST SUSSEX	5 days
05	EAS"	T MIDLANDS	
	NT	NOTTINGHAMSHIRE	4 days
06	WES	T MIDLANDS	
	SH	SHROPSHIRE	1 days
	ST	STAFFORDSHIRE	1 days
	WK	WARWICKSHIRE	1 days
	WO	WORCESTERSHIRE	3 days

Main parameter selection:

Parameter:

Number of households

Range:

26 to 1165 (units:)

Date Range:

01/01/96 to 03/06/03

Selected survey days:

Monday	1 days
Tuesday	6 days
Wednesday	2 days
Thursday	13 days
Friday	8 days

Selected survey types:

Manual count		17 days
Directional ATC Count		13 days

Optional parameter selection:

<u>Use Class:</u>		
C3		

Location:	
Neighbourhood Centre	5 days
Edge of Town	22 days
Edge of Town Centre	3 days

30 days

Population within 1 mile:

1 oparation within 1 mile.	
1,001 to 5,000	6 days
5,001 to 10,000	3 days
10,001 to 15,000	14 days
15,001 to 20,000	5 days
20,001 to 25,000	1 days
25,001 to 50,000	1 days

TRICS 2005(a)

1.6 to 2.0

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Tuesday 28/06/05 Page 2

WSP Management Services Ltd Mountbatten House, Basing View

1 days

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Optional parameter selection (Cont.):

Population within 5 miles:	
5,001 to 25,000	1 days
25,001 to 50,000	3 days
75,001 to 100,000	16 days
100,001 to 125,000	2 days
125,001 to 250,000	2 days
250,001 to 500,000	5 days
500,001 or More	1 days
Car ownership within 5 miles:	
0.5 or Less	2 days
0.6 to 1.0	5 days
1.1 to 1.5	22 days

Buses/Trains per day (both directions):

Freguency	Per Hour	Per Day	Surveys
Not Known			0 days
0	0	0	1 days
<20 per day	1 -	20	1 days
20-39 per day	2	40	0 days
40-59 per day	3	60	5 days
60-79 per day	4	80	1 days
80+ per day	> 4	> 80	22 days

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WSP Management Services Ltd Mountbatten House, Basing View

LIST OF SITES relevant to selection parameters

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

PORTSMOUTH HOUSING HC-03-K-04 HAMPSHIRE

ST GEORGES ROAD

PORTSMOUTH

150 ****** Total Number of households:

> Survey date: THURSDAY 11/12/97 Survey Type: MANUAL

PORTSMOUTH HOUSING HC-03-K-05 HAMPSHIRE

BROAD STREET

PORTSMOUTH

64 ***** Total Number of households:

Survey date: THURSDAY 18/12/97 Survey Type: MANUAL

HC-03-K-08 FLEET HOUSING **HAMPSHIRE**

ANCELLS ROAD ANCELLS FARM

FLEET

Total Number of households: 747 *****

> Survey date: THURSDAY Survey Type: MANUAL 05/03/98

HC-03-K-09 WINCHESTER HOUSING **HAMPSHIRE**

RIDGEWAY/MEADOW W.

BADGER FARM WINCHESTER

1040 ****** Total Number of households:

> Survey date: THURSDAY 26/02/98 Survey Type: MANUAL

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

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 Type: DIRECTIONAL Survey date: FRIDAY 10/03/00 Survey Type: DIRECTIONAL Survey date: THURSDAY Survey Type: DIRECTIONAL 15/06/00 Survey date: FRIDAY Survey Type: DIRECTIONAL 16/06/00 Survey date: THURSDAY 21/09/00 Survey Type: DIRECTIONAL Survey Type: DIRECTIONAL Survey date: FRIDAY 22/09/00 Survey date: THURSDAY 07/12/00 Survey Type: DIRECTIONAL Survey date: FRIDAY 08/12/00 Survey Type: DIRECTIONAL

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HF-03-K-01

WSP Management Services Ltd Mountbatten House, Basing View Basingstoke

MIXED PRI. HOUSING, WELWYN GC

Licence No: 100301

LIST OF SITES relevant to selection parameters (Cont.)

HERTFORDSHIRE

WELWYN GARDEN CITY

LONGCROFT GARDENS

Total Number of households:

53 *****

Survey date: FRIDAY

06/09/02 **NEWARK HOUSING**

Survey Type: MANUAL **NOTTINGHAMSHIRE**

NT-03-K-02 BEACON HILL ROAD

BEACON HILL

NEWARK-ON-TRENT

Total Number of households:

394 *****

Survey date: THURSDAY 26/11/98

MANSFIELD HOUSING

Survey Type: MANUAL **NOTTINGHAMSHIRE**

NT-03-K-03 LOXLEY DRIVE

> BERRYHILL **MANSFIELD**

Total Number of households:

61 *****

Survey date: TUESDAY 08/12/98 NOTTINGHAM HOUSING

Survey Type: MANUAL NOTTINGHAMSHIRE

BEAUMARIS DRIVE

GEDLING

NOTTINGHAM

Total Number of households:

160 ***** 24/11/98

Survey date: TUESDAY

Survey Type: MANUAL **NOTTINGHAMSHIRE**

NT-03-K-05 NOTTINGHAM HOUSING

JENNY BURTON WAY

ASHFIELD

NOTTINGHAM

Total Number of households:

174 ******

Survey date: TUESDAY 08/12/98 BRIDGNORTH HOUSING

Survey Type: MANUAL SHROPSHIRE

SH-03-K-01 13

BRAMBLE RIDGE

BRIDGNORTH

Total Number of households:

52 *****

Survey date: FRIDAY

08/05/98

ST-03-K-01 MIXED HOUSING, STAFFORD

Survey Type: MANUAL **STAFFORDSHIRE**

THE MEADOWS

QUEENSVILLE

STAFFORD

Total Number of households:

224 *****

Survey date: TUESDAY

04/07/00 Survey Type: MANUAL

WK-03-K-01 MIXED HOUSING, STRATFORD

OLD TOWN MEWS OLD TOWN

STRATFORD UPON AVON

Total Number of households:

64 *****

Survey date: THURSDAY

07/09/00 Survey Type: MANUAL

WO-03-K-01

MIXED HOUSING, WORCESTER

WORCESTERSHIRE

WARWICKSHIRE

MALVERN ROAD

LOWER WICK

WORCESTER

Total Number of households:

775 *****

Survey date: FRIDAY

24/05/02

Survey Type: MANUAL

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WSP Management Services Ltd Mountbatten House, Basing View

LIST OF SITES relevant to selection parameters (Cont.)

MIXED HOUSING, BROMSGROVE WORCESTERSHIRE WO-03-K-02

ST GODWALDS ROAD

ASTON FIELDS BROMSGROVE

Total Number of households: 215 ******

Survey date: THURSDAY 23/05/02 Survey Type: MANUAL

WORCESTERSHIRE WO-03-K-03 MIXED HOUSING, WORCESTER 18

BYFIELD RISE

WORCESTER

103 ***** Total Number of households:

> Survey date: TUESDAY 03/06/03 Survey Type: MANUAL

WEST SUSSEX 19 WS-03-K-03 CHICHESTER HOUSING

LAVANT DOWN ROAD

LAVANT

CHICHESTER

90 ***** Total Number of households:

Survey date: MONDAY 20/11/00 Survey Type: DIRECTIONAL Survey date: TUESDAY 21/11/00 Survey Type: DIRECTIONAL Survey date: WEDNESDAY 22/11/00 Survey Type: DIRECTIONAL Survey Type: DIRECTIONAL Survey date: THURSDAY 23/11/00 Survey date: FRIDAY 24/11/00 Survey Type: DIRECTIONAL

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Tuesday 28/06/05 Page 6

WSP Management Services Ltd Mountbatten House, Basing View

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Licence No: 100301

TRIP RATE for Land Use 03 - RESIDENTIAL/K - MIXED PRIVATE HOUSING

Calculation factor: 1 HHOLDS

BOLD print indicates peak (busiest) period

	ARRIVALS			DEPARTURES			TOTALS		
Section 1	No.	Ave.	Trip	No.	Ave.	Trip	No.	Ave.	Trip
Time Range	Days	HHOLDS	Rate	Days	HHOLDS	Rate	Days	HHOLDS	Rate
00:00 - 01:00	13	675	0.02	. 13	675	0.01	13	675	0.03
01:00 - 02:00	13	675	0.01	13	675	0.00	13	675	0.01
02:00 - 03:00	13	675	0.00	13	675	0.00	13	675	0.00
03:00 - 04:00	13	675	0.00	13	675	0.00	13	675	0.00
04:00 - 05:00	13	675	0.00	13	675	0.00	13	675	0.00
05:00 - 06:00	13	675	0.01	13	675	0.02	13	675	0.03
06:00 - 07:00	13	675	0.02	13	675	0.10	13	675	0.12
07:00 - 08:00	30	475	0.07	30	475	0.34	30	475	0.41
08:00 - 09:00	30	475	0.10	30	475	0.42	30	475	0.52
09:00 - 10:00	30	475	0.12	30	475	0.18	30	475	0.30
10:00 - 11:00	30	475	0.11	30	475	0.14	30	475	0.25
11:00 - 12:00	30	475	0.13	30	475	0.13	30	475	0.26
12:00 - 13:00	30	475	0.16	30	475	0.13	30	475	0.29
13:00 - 14:00	30	475	0.14	30	475	0.15	30	475	0.29
14:00 - 15:00	30	475	0.15	30	475	0.14	30	475	0.29
15:00 - 16:00	30	475	0.21	30	475	0.16	30	475	0.37
16:00 - 17:00	30	475	0.27	30	475	0.16	30	475	0.43
17:00 - 18:00	30	475	0.39	30	475	0.17	30	475	0.56
18:00 - 19:00	30	475	0.34	30	475	0.21	30	475	0.55
19:00 - 20:00	13	675	0.25	13	675	0.19	13	675	0.44
20:00 - 21:00	13	675	0.16	13	675	0.12	13	675	0.28
21:00 - 22:00	13	675	0.12	13	675	0.06	13	675	0.18
22:00 - 23:00	13	675	0.09	13	675	0.05	13	675	0.14
23:00 - 24:00	13	675	0.08	13	675	0.04	13	675	0.12
Daily Trip Rates	i de la companione	20 (10 (10 (10 (10 (10 (10 (10 (10 (10 (1	2.94	- 140a F 15		2.93	eta di	100	5.87

Parameter summary

Trip rate parameter range selected:

26 - 1165 (units:)

Survey date date range:

01/01/96 - 03/06/03

Number of weekdays (Monday-Friday):

30

Number of Saturdays:

0

Number of Sundays:

0

Optional parameters used in selection:

NO

Surveys manually removed from selection:

Annex B Extracts from NTS – Residential Mode Share



Focus on Personal Travel

December 2001

London: The Stationery Office

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

Index: Average hour for all modes = 100 All Taxi Other Other Local Car/varı Car/yan modes public Rail minicab private bus Bicycle driver passenger Walk 0000-0059 0100-0159 ---... 0200-0259 1. 0300-0359 2. 0400-0459 0500-0559 0600-0659 0700-0759 93. 0800-0859 0900-0959 1. 3. 1000-1059 29. 1100-1159 1200-1259 .12 1300-1359. 1400-1459 244. 1500-1559 1600-1659 1. 1700-1759 . 2 1800-1859 4. 28. 1900-1959 2000-2059 2100-2159 2200-2259 2300-2359

All day 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

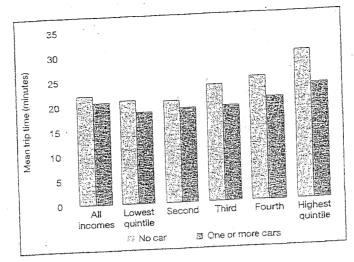


WSPD BASINGSTOKE
LIBRARY

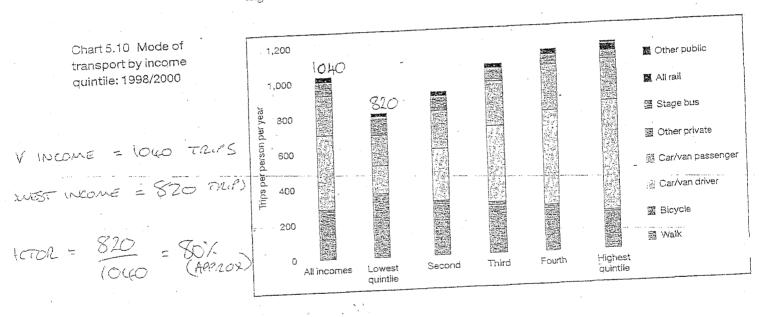
WINDER THE

Trainstrum

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.



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

	Mix	ed Private Hou			Non- Private Ho		Percentage Reduction
Time	Arrivals	Departures	. Total	Arnvals.	Departures	Total	in 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%.

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3P Management Services Ltd.

Mountbatten House, Basing View

Basingstoke

Licence No: 100301

TRIP RATE CALCULATION SELECTION PARAMETERS:

Land Use : 03 - RESIDENTIAL

: K - MIXED PRIVATE HOUSING Category

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	A
	SF SUFFOLK	1 days	VENICULAL TLIP RATES
05	EAST MIDLANDS		MENICOPUL IVI
	NT NOTTINGHAMSHIRE	4 days	1
06	WEST MIDLANDS	,	11 a QUILATE HOUSING
	SH. SHROPSHIRE	1 days	MIXED FLIVATE MOUSING
	ST STAFFORDSHIRE	6 days	
	WK WARWICKSHIRE	1 days	
	WO WORCESTERSHIRE	3 days	
08	NORTH WEST		
	GM GREATER MANCHESTER	5 days	
	LC LANCASHIRE	2 days	

Main Parameter Selection:

Parameter:

Number of Households

Range:

26 to 1165 (units:)

Date Range:

01/01/95 to 03/06/03

Selected Survey Days:

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

Selected Survey Types:

23 days Manual Count 23 days One Way ATC Count

Monday 10/05/04 Page 2

Licence No: 100301

LIST OF SITES relevant to selection parameters

CAMBRIDGESHIRE MIXED HOUSING, CAMBRIDGE CA-03-K-01

FALLOWFIELD CHESTERTON

CAMBRIDGE 124 ****** Total Number of Households:

Survey Date: TUESDAY 06/02/01 Survey Type: MANUAL DORSET

DC-03-K-02 WAREHAM HOUSING WOODLANDS ESTATE

SANDFORD WAREHAM

171 ***** Total Number of Households: 18/04/96

Survey Type: MANUAL Survey Date: THURSDAY EAST SUSSEX

ES-03-K-01 MIXED HOUSING, LEWES OLD MALLING WAY SOUTH MALLING LEWES

491 ****** Total Number of Households: Survey Type: MANUAL Survey Date: THURSDAY 29/03/01 GREATER MANCHESTER

GM-03-K-02 TAMESIDE HOUSING

SPRINGWOOD WAY

LIMEHURST TAMESIDE

342 ****** Total Number of Households: Survey Type: ONE WAY ATC 15/05/98 Survey Date: FRIDAY Survey Type: ONE WAY ATC 18/05/98 Survey Date: MONDAY 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 HAMPSHIRE

HC-03-K-04 PORTSMOUTH HOUSING ST GEORGES ROAD

PORTSMOUTH

150 ***** Total Number of Households: Number of Households: 150
Survey Date: THURSDAY 11/12/97

Survey Type: MANUAL HAMPSHIRE

HC-03-K-05 PORTSMOUTH HOUSING

BROAD STREET

PORTSMOUTH 64 *****

Total Number of Households: Survey Type: MANUAL 18/12/97

Survey Date: THURSDAY HAMPSHIRE FLEET HOUSING HC-03-K-08

ANCELLS ROAD ANCELLS FARM

FLEET 747 ***** Total Number of Households:

Survey Date: THURSDAY 05/03/98 Survey Type: MANUAL HAMPSHIRE

HC-03-K-09 WINCHESTER HOUSING

RIDGEWAY/MEADOW W. BADGER FARM

WINCHESTER 1040 ****** Total Number of Households:

Survey Type: MANUAL Survey Date: THURSDAY 26/02/98 HAMPSHIRE

EASTLEIGH HOUSING HC-03-K-10 KNIGHTWOOD ROAD

BADGER'S COPSE

EASTLEIGH 700 ***** Total Number of Households: Survey Type: MANUAL 18/08/99 Survey Date: WEDNESDAY

Monday 10/05/04 Copyright(C) 1998-2004, JMP Consultants Ltd ICS 2004(a) Page 3 vate Housing.

3P Management Services Ltd.

NOTTINGHAM

Total Number of Households:

Survey Date: TUESDAY

Mountbatten House, Basing View

Basingstoke

Licence No: 100301

LIST OF SITES relevant to selection parameters (Cont.)

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

160 ******

24/11/98

Survey Type: MANUAL

Monday 10/05/04 Page 4

WSP Management Services Ltd. Mountbatten House, Basing View Basingstoke

Survey Type: MANUAL

Licence No: 100301

LIST OF SITES relevant to selection parameters (Cont.)

NOTTINGHAMSHIRE NOTTINGHAM HOUSING NT-03-K-05

JENNY BURTON WAY

ASHFIELD

NOTTINGHAM

174 ***** Total Number of Households:

Survey Date: TUESDAY 08/12/98 SUFFOLK SF-03-K-01 MIXED HOUSING, IPSWICH

FINBARS WALK

IPSWICH

99 ****** Total Number of Households:

Survey Type: MANUAL 29/09/00 Survey Date: FRIDAY SHROPSHIRE

SH-03-K-01 BRIDGNORTH HOUSING 20

BRAMBLE RIDGE

BRIDGNORTH

52 ***** Total Number of Households: Survey Type: MANUAL 08/05/98 Survey Date: FRIDAY

STAFFORDSHIRE ST-03-K-01 MIXED HOUSING, STAFFORD 21

THE MEADOWS QUEENSVILLE STAFFORD

224 ***** Total Number of Households:

Survey Type: MANUAL 04/07/00 Survey Date: TUESDAY STAFFORDSHIRE

ST-03-K-02 STAFFORD MIXED HOUSING THE MEADOWS

QUEENSVILLE

STAFFORD 224 ****** Total Number of Households:

Survey Type: ONE WAY ATC 10/07/95 Survey Date: MONDAY Survey Type: ONE WAY ATC Survey Date: TUESDAY 11/07/95 Survey Type: ONE WAY ATC 12/07/95 Survey Date: WEDNESDAY Survey Type: ONE WAY ATC 13/07/95 Survey Type: ONE WAY ATC Survey Date: THURSDAY 14/07/95

Survey Date: FRIDAY WARWICKSHIRE WK-03-K-01 MIXED HOUSING, STRATFORD

OLD TOWN MEWS

OLD TOWN

23

STRATFORD UPON AVON

64 ***** Total Number of Households:

Survey Type: MANUAL 07/09/00 Survey Date: THURSDAY WORCESTERSHIRE MIXED HOUSING, WORCESTER

WO-03-K-01 MALVERN ROAD

LOWER WICK

WORCESTER 775 *****

Total Number of Households: Survey Type: MANUAL 24/05/02 WORCESTERSHIRE

Survey Date: FRIDAY WO-03-K-02 MIXED HOUSING, BROMSGROVE

ST GODWALDS ROAD

ASTON FIELDS

BROMSGROVE 215 ****** Total Number of Households:

Survey Type: MANUAL Survey Date: THURSDAY 23/05/02

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23/11/00

LIST OF SITES relevant to selection parameters (Cont.)

WORCESTERSHIRE MIXED HOUSING, WORCESTER WO-03-K-03 26

BYFIELD RISE

WORCESTER

103 ***** Total Number of Households:

03/06/03 Survey Date: TUESDAY

WEST SUSSEX CHICHESTER HOUSING WS-03-K-03 27

LAVANT DOWN ROAD

LAVANT

CHICHESTER

90 ***** Total Number of Households:

20/11/00 Survey Date: MONDAY 21/11/00 Survey Date: TUESDAY 22/11/00 Survey Date: WEDNESDAY

Survey Date: THURSDAY 24/11/00 Survey Date: FRIDAY

Survey Type: ONE WAY ATC

Survey Type: MANUAL

Survey Type: ONE WAY ATC Survey Type: ONE WAY ATC Survey Type: ONE WAY ATC

Survey Type: ONE WAY ATC

Monday 10/05/04 Page 6

Private Housing --WSP Management Services Ltd.

Mountbatten House, Basing View

Basingstoke

Licence No: 100301

TRIP RATE for Land Use 03 - RESIDENTIAL/K - MIXED PRIVATE HOUSING

Calculation Factor: 1 HHOLDS BOLD print indicates peak (busiest) period

DOLD Pim		•					ali sanga sa	TOTALS	
		ARRIVALS:			PARTURE		No.	Ave.	Trip
	Nō.	**Ave	Trip		Ave:	JUTTIP 4.	Days:	The state of the s	Rate
Time Range		HHOLDS	Rafe		HHOLDS	0.01	18	582	0.04
00:00 - 01:00	18	582	0.02	18	582	0.00	18	582	0.01
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	0.00
03:00 - 04:00	18	582	0.00	18	582	0.00	18	582	0.01
04:00 - 05:00	18	582	0.00	18	582 582	0.02	18	582	0.03
05:00 - 06:00	18	582	0.01	18	486	0.10	24	486	0.13
06:00 - 07:00	24	486	0.03	24	385	0.34	46	385	0.41
07:00 - 08:00	46	385	0.07	46	385	0.45	46	385	0.55
08:00 - 09:00	46	385	0.10	46 46	385	0.19	46	385	0.32
09:00 - 10:00	46	385	0.13	46	385	0.14	46	385	0.25
10:00 - 11:00	46	385	0.11	46	385	0.14	46	385	0.27
.1:00 - 12:00	46	385	0.13	46	385	0.14	46	385	0.30
12:00 - 13:00	46	385	0.17	46	385	0.15	46	385	0.30
13:00 - 14:00	46	385	0.15	46	385	0,15	46	385	0.30
14:00 - 15:00	46	385	0.15	46	385	0.17	46	385.	0.40
15:00 - 16:00	46	385	0.23	46	385	0.16	46	385	0.44
16:00 - 17:00	46	385	0.40	46	385	0.18	46	385	0.58
17:00 - 18:00	46	385	0.40	46	385	0.22	46	385	0.56
18:00 - 19:00	46	385 486	0.27	24	486	0.21	24	486	0.48
19:00 - 20:00	2.4		0.19	24	486	0.15	24	486	0.34
20:00 - 21:00	24		0.13	24	486	0.08	24		0.22
21:00 - 22:00	. 24		0.10		582	0.05	18		0.13
22:00 - 23:00	18	1	0.08	+	582		and the second s	582	6:21
23:00 - 24:00	18	1 304	3.11	The second second second second		3.10			S. W. S. S. G. Z. H.
Daily Trip Rate		and the second second	Server descriptions that he description						

Parameter Summary

Trip Rate Parameter Range Selected:

Survey Date Date Range:

Number of Weekdays (Monday-Friday):

Number of Saturdays:

Number of Sundays:

Optional Parameters Used in Selection:

Surveys Manually Removed from Selection:

26 - 1165 (units:) 01/01/95 - 03/06/03

46

0

0

NO

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Monday 10/05/04

ordable Housing,

3P Management Services Ltd.

Mountbatten House, Basing View

Basingstoke

Licence No: 100301

TRIP RATE CALCULATION SELECTION PARAMETERS:

Land Use : 03 - RESIDENTIAL

Category : L - MIXED NON-PRIVATE HOUSING

Selected Regions and Areas:

EAST ANGLIA

NORFOLK

1 days

WEST MIDLANDS 06

WO WORCESTERSHIRE

1 days

YORKSHIRE & NORTH LINCOLNSHIRE 07

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

TRICS 2004(a)

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Monday 10/05/04 Page 2

Affordable Housing

WSP Management Services Ltd. Mountbatten House, Basing View Basingstoke

Licence No: 100301

LIST OF SITES relevant to selection parameters

HOUSING, NORWICH NF-03-L-01 CHESTNUT COURT

NORFOLK

NORWICH

Total Number of Households:

39 *****

Survey Date: TUESDAY

. 07/11/00

NO-03-L-01

HOUSES/FLATS, BELTON

Survey Type: MANUAL NORTH LINCOLNSHIRE

ASHTREE CLOSE

BELTON

Total Number of Households:

79 ******

Survey Date: FRIDAY

11/04/03

WO-03-L-01 NON-PRIVATE HOUSES/FLATS

Survey Type: MANUAL WORCESTERSHIRE

MARTINDALE CLOSE

WARNDON

WORCESTER

152 ******

Total Number of Households: Survey Date: FRIDAY

08/03/02

Survey Type: MÅNUAL

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3P Management Services Ltd.

Mountbatten House, Basing View

Basingstoke

Licence No: 100301

TRIP RATE for Land Use 03 - RESIDENTIAL/L - MIXED NON-PRIVATE HOUSING

Calculation Factor: 1 HHOLDS BOLD print indicates peak (busiest) period

		ARRIVALS		i a la l	PARTURE	Szer		TOTALS	
		ARRIVALO.	Trip	Nossa		Trip"	No.	Ave.	-Trip
Do-nor	7 (2 Sept 1 2 Sept 2 Se	HHOLDS	Rate	Davs	HHOLDS	Rate	Days,	HHOLDS	€ Rate €
Time:Range: 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
01700	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	3	90	0.06	3	90	0.13	3	90	0.19
07:00 - 08:00	3	90	0.13	3	90	0.23	3	90	0.36
08:00 - 09:00	3	90	0.11	3	90	0.15	3	90	0.26
09:00 - 10:00	3	90	0.11	3	90	0.12	3	90	0.25
10:00 - 11:00	. 3	90	0.15	3	90	0.18	3	90	0.33
11:00 - 12:00	3	90	0.18	3	90	0.15	3	90	0.33
12:00 - 13:00	3	90	0.17	3	90	0.13	3	90	0.30
13:00 - 14:00	3	90	0.17	3	90	0.16	3	90	0.34
14:00 - 15:00	3	90	0.13	3	90	0.22	3	90	0.46
15:00 - 16:00	3	90	0.25	3	90	0.23	3	90	0.48
16:00 - 17:00	3	90	0.26	3	90	0.17	3	90	0.44
17:00 - 18:00	3	90	0.25	3	90	0,16	3	90	0.41
18:00 - 19:00	0	90	0.20	. 0	0	0.00	0	0	0.00
19:00 - 20:00		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	U	0.00			2 03			414
Daily Trip Rates			25 d 10				and the second s		

Parameter Summary

39 - 920 (units:) Trip Rate Parameter Range Selected:

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:

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





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WSPD BASINGSTOKE

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

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

						•						ili ere er ik
· · · · · · · · · · · · · · · · · · ·	Commuting	Business	Education	Escort education	Shopping	Other personal business and escort	Visit friends at private home	Visit friends elsewhere	Sport/ enter- tainment	Holiday/ day trip	Other including just walk	All purposes
0000-0059						المراشلين ووادريان بالدوواد	I.	2	1	er had generally granted that it is	and to Wellington	
0100-0459	1	Artic			_		·	1		1 .		_ ,
0500-0559	2:			, <u>.</u>				Auri	-	-	-	· _
0600-0659	5	2			_	1		nerv	_	1.	Z	<u>L</u>
0700-0759	14	5 - 5	3			3	· 1	_	1	1	4	4
0800-0859	17	9	36	29	2	7	2		2	2	5	- 10
0900-0959	6	g -	7	15	8	9	4	1	4	5.	6	7
1000-1059	7	, 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 1300-1359 1400-1459 1500-1559	3 4 3 3	8 7 7 8	4 3 2 28	3 2 6 32	11 9 9 9	8 8 7 8	6 6 7 8	. 3 . 6 5 . 4	5 5 4 5	8 8 9 10	6 6 8. 9	7 6 6 10
1600–1659	. 8	9	10	4	. 8	. 8	9	4	7	10	3	. 8
1700–1759	14	8	. 3	1	6	8	. 8	4	8	8	6	δ.
1800-1859	8	5	- I	. 1	4	6	9	7	12	6	/	0
1900-1959	3	3	· İ	***	3	. 5	9	12 .	13 -)		. i
2000-2059	7	2.	.· _		1	3	7,	. 12	8	4	4	3
2100-2159	ī	1	· 1		1 .	2	5	9	8	2	3	2.
2200-2259	1	1			_	1	4		6	2	• 3	2
 2300-2359	1	1	- : -		'- '.	. 1	3	11	3	. 1	1	1 -
All day	[00]	100	100	100	100	100	100	100	100	100	100	100

Peak Hour Person Trips by Journey Purpose

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

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

	A	8	Talling of Conjections	D. P. J. S	E	File	G	H	a company of the company of the	and the second second	Selection Property of Security and	Transplations in
PHARMA	Commuting	Business	Education 7	Escort Education	Shopping	Other Personal Business & Escort	Visit Friends at Private Home	Visit Friends Elsewhere	Sport / Entertainment	Holiday / Day Trip 🙉	Other (incl Just Walk)	Total
0000-0059	19	4	0	1	2	9	29	19	11	A	2	100%
0100-0159	24	7	1	2	4	8	24	15	q	6	4	101%
0200-0259	.31	6	1	2	4.	7	17	15	11	6	^	100%
0300-0359	52	7	1	0	2	10	11	. 5	4			
0400-0459	74	5	0	0	1	5	3	1	2	6		100%
0500-0559	79	5	0	0	1	7	1	· · · · · · · · · · · · · · · · · · ·	1	3	4	101%
0600-0659	71	7	0	0	2	9	1	0	2	2	. 3	99%
0700-0759	64	7	6	1	3	12	2			4		100%
0800-0859	92	4.	28 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7	15	4	11	2	0	CONTRACTOR AND	2002 6 3 This first - Page 6 - P. 15	4 ey@dustres.hydees_crossessessessesses	101%
0900-0959	16	. 7	8	12	21	22	6	1	30 (04.00 molecules)	Significant Significant	2 - 10 100 100	100%
1000-1059	5	7	2	1	39	23	40	-			3	101%
1100-1159	5	6	2	3	37	21	11	3		4	4	100%
1200-1259	9	6	4	3	31	21	10	4			4	99%
1300-1359	13	6	4	2	27	23	10	7	4	4	4	100%
1400-1459	9	6	2	5	28	20	12	3	4	4	4	100%
1500-1559	6	4	22	17	16	15	0		4	5	6	99%
1600-1659	19	6	10	3	18	19	12	2	3	3	4	100%
1700-1759	7 25 2 35	Ĝ i	3745 or 3745 or 45	15,10,5 \$6.50 ± 10,00 * 2,05 × 0	13 44	18	- AU TERRITO (P. 100 TERRITOR OF THE	A Committee of the committee of	5 5 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6	3	4	100%
1800-1859	25	5	2	1	12	18	16	#15783993638487 5 78638863843	40	3	3.00	101%
1900-1959	13	4	1	0	12	18	21	<u> </u>	10	3	4	100%
2000-2059	11	3	1	0	9	17	24	12	13	3	5	100%
2100-2159	12	3	2	0	5	16	23	13	17	4	6	101%
2200-2259	13	3	1	0	2	12	25	16	17	3	- 6	100%
2300-2359	11	2	0	0	1	9	27	28	1/	3	7	99%
				<u> </u>	L	1		L 48	13	3	5	99%

Summary Table (Rebased to 100% where appropriate)

Total States - Laurenting	(A+B)	(C + D)	(E+F)	(I) (I)	(G+H+J+K)	Total
0800-0859	Employment	Education	Retail	Leisure / Entertainment	Other Recreational	and the support
	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 15	Secondary Education &	Tertlary Education	Retail	Leisure / Entertainment	Other Recreational	Total
0800-0859	36	19	15	9	15	1	5	100
1700-1759	41	2	<u> </u>	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

Sur	mmary	1
Intr	oduction ·	3
Der	mographics	3
Sec	ction A: About your move to CAMBOURNE	3
,		•
	Q1: Which city/town/village did you move to Cambourne from? Q2: What was your main reason for moving home? Q3: What was your main reason for choosing to move to Cambourne rather than elsewhere in the	3 3
	area?	4
Sec	tion 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?	1-
	Q7: Do you have access to Internet at home?	11
Sec	tion C: About your work, study and travel	12
	Q8: Are the adults in your household self-employed, employed full-time, part-time, students, retire	
	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? Q12: How many cars are available for use by your household?	13
!	The many sais are available for use by your flousehold?	13
Sect	tion 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 vi	ou
	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
۹ппе	exes	
	Annex 1	
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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	1 -
Not answered	3	9	3.0	1
Total	214	559	2.6	1

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%	1	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

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%	1
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%	λ
Royston	13	4.0%	1
Within 5 miles	11	3.4%	1
Bedford	8	2.5%	1
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

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

74515							Percentage/mile			
a de la companya de l	London	English Metropolitan	Large Urban	Medium Urban	Small Urban	Rural	All areas 1999/2001	All areas 1989/1991		
5-10 year olds						47	. 54	52		
Walk	62	64	56	53	51	1 1	39	27		
Car .	31	32	38	. 47	42	42	39 6	9		
Bus	. 5	3	4	5	6	14	1	2		
Other (mostly taxi)	3	J	7	1	1	3		100		
All modes	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				52	44	25	43	48		
Valk	. 38	. 42	42	3	3	7	2.	. 5		
Bicycle	. 7	1	2		19	20	18	74		
Car	. 13	20	18	20	33	49	32	30		
Bus	36	[*] 35	33	23	35 1	5	4	3		
Other (mostly rail)	. 13	2	5	3	100	100	100	100		
All modes	100	100	100	100	3.1	5.7	2.9	2.8		
Average trip length	-3_2	2.7	2.4	2.5	ა.)	٦, ١	. 23			
5-16 year olds	·		40	53	48	33	49	56		
Walk ·	50	53	49	2	2	. 7	1	3		
Bicycle	7	1 '	1	30	30	31	28	21		
Car	- 22	26	. 28	30 14	19	32	19	7.9		
Bus	. 20	19	18	2	7 -	4	2	. 2		
Other	. 7	7	,3		100	700	100	100		
All modes	100	100	100	100	2.3	. 3.7	2.2	2.0		
Average trip length	2.1	1.6	1.7	1.9	_ ئىدے	. الوت				

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		

ducation	Trips - 43%	of AM : 4% (of PM	THE REPORT OF THE PARTY OF THE	NATIONAL REPORT OF THE PARTY OF	TO THE PROPERTY AND ADDRESS OF THE
	,	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 Tri	ps	O MICHINESIA MANAGAMINA MANAGAMINA MANAGAMINA MANAGAMINA MANAGAMINA MANAGAMINA MANAGAMINA MANAGAMINA MANAGAMINA	CONTROL STATE OF STAT	(Official substitution of the second laborator)	A STATE OF THE PARTY OF THE PAR	AND DESCRIPTION OF THE PERSON
		AM			PM	
	in	out	tot	in	out	tot
total	-73	-306	-378	-21	-9	-30

	CAMPAGE AND PARTY OF THE PARTY	CONTRACTOR OF PROPERTY OF PROPERTY OF THE PROP
Non Car	0.453	
driver	0.219	Mode Share of school trips
pass	0.328	
total	1.00	

	AM			PM		
	in	out	tot	ìn	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

 Breakdown of Education

 Primary
 0.45
 0.64

 Secondary
 0.19
 Not on the site

 Total
 0.84

Secondary		The State of Community of State of Stat	CTALLER OF STREET, STR	NAME AND ADDRESS OF THE PARTY O	No resident of the second of t	e a service manage of the Street Contraction of
		AM			PM	
	in	out	tot	in	out	tot
total	-31	-132	-163	-9	-4	-13

	PARAMETERS OF THE PARAMETERS O	THE RESIDENCE OF THE PROPERTY
Non Car	0.706	
driver	0.118	Mode Share of school trips
pass	0.176	
total	1.00	

Secondary T	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

Bicester Ir	nternal Seco	ondary Trips	5/9 of ove	rall trips	178321000
	AM			PM	
in	out	tot	in	out	tot
-12	-52	-64	-4	-2	-5
-2	-9	-11	-1	0	-1
-3	-13	-16	-1	0	-1
-17	-73	-91	-5	-2	-7
	in	AM in out -12 -52 -2 -9	AM in out tot -12 -52 -64 -2 -9 -11	AM in out tot in -12 -52 -64 -4 -2 -9 -11 -1	in out tot in out -12 -52 -64 -4 -2 -2 -9 -11 -1 0

		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

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%

1.5 Children Per Car

Annex G Hotel Trip Rates

TRICS 2005(a) (C) 2005 JMP Consulting on behalf of the TRICS Consortium

Friday 15/07/05 Page 1

WSP Management Services Ltd Mountbatten House, Basing View

Basingstoke

Licence No: 100301

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
80	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

TRICS 2005(a)

(C) 2005 JMP Consulting on behalf of the TRICS Consortium

Friday 15/07/05

WSP Management Services Ltd Mountbatten House, Basing View Basingstoke

Page 2 Licence No: 100301

Optional parameter selection (Cont.):

Population within 1 mile: 1,000 or Less 1,001 to 5,000 5,001 to 10,000 10,001 to 15,000 15,001 to 20,000 20,001 to 25,000 25,001 to 50,000	6 days 5 days 2 days 3 days 2 days 1 days 1 days
Population within 5 miles: 5,001 to 25,000 25,001 to 50,000 50,001 to 75,000 75,001 to 100,000 100,001 to 125,000 125,001 to 250,000 250,001 or More	1 days 5 days 2 days 2 days 3 days 2 days 4 days 1 days
Car ownership within 5 miles: 0.6 to 1.0 1.1 to 1.5	9 days 11 days

Buses/Trains per day (both directions):

Frequency	Per Hour	Per Day	Surveys
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

Friday 15/07/05 Page 3

WSP Management Services Ltd

Mountbatten House, Basing View

Basingstoke

Licence No: 100301

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

Calculation factor: 100 sqm

BOLD print indicates peak (busiest) period

	ARRIVALS		Dt	EPARTURE	S	TOTALS			
	No.	Ave.	Trip	No.	Ave.	Trip	No.	Ave.	Trip
Time Range	Days	GFA	Rate	Days	GFA	Rate	Days	- GFA	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:

Survey date date range:

355 - 9700 (units: sqm)

01/01/96 - 08/07/04

Number of weekdays (Monday-Friday):

20

Number of Saturdays:

0

Number of Sundays: Optional parameters used in selection:

NO

Surveys manually removed from selection:

Λ .

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	orus in the entire de North and had not the description of the entire	and the second distance of the second
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		5 '
08:00-08:30	5	0.13		0.28	0.40		
08:30-09:00	5	0.27		0.48	0.75		consistence of the second of t
. 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		S and the
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	3.5	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		

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 f	or All Modes 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

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 (All)		IN	OUT	TOTALS		
Time Range	No of Sites	Trip Rate	Trip Rate	Trip Rate	ANNERSON STANTOS LAURINISTEN IN STRANGE (S. 1994) ANNERSON STANTOS (S. 1994	
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	+	

Trip rate for: Gross Floor Area:

Sites selected and survey periods displayed:

Elm Hotel, 1 Elm Road 29/04/1994 Friday survey period: 06:90-24:00

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 f		Timeband(s)	Trip Rate
IN	12:30-13:00		0.28
OUT	08:30-09:00	CONTROL OF THE PROPERTY OF THE	0.30
TOTALS	08:30-09:00		0.49

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	No of Citor	IN	OUT Trip Rate	TOTALS Trip Rate		
Time Range 06:00-06:30	No of Sites	Trip Rate 0.00	0.00	0.00	A COLUMN CONTRACTOR DE TRANSPORTATION DE SENTE EN PRESENTATION DE SENTE EN PRESENTATION DE SENTE DE SENTE EN P	niether musik werendentellikterik
06:39-07:00	1	0.00	0.00	0.00		
07:00-07:30	5	0.08	0.11	0.18		
	5 5	0.07	0.16	0.23		
07:30-08:00	5	0.07	0.16	0.23		
08:00-08:30 08:30-09:00	5	0.17	0.18	0.35		
09:00-09:30	5 5	0.05	0.08	0.13		
09:30-10:00	5	0.06	0.08	0.14		
	5	0.07	0.06	0.14		
10:00-10:30	5	0.09	0.12	0.14		
10:30-11:00		0.06	0.12	0.13		
11:00-11:30	5 پ		0.04	0.10		
11:30-12:00	5	0.05		0.10		
12:00-12:30	6	0.16	0.05	0.21		*** :
12:30-13:00	6	0.20	0.09		•	
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		•

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 f	or <u>car driver</u>	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

Printed: 15/07/2005 12:34:32

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 , $30\ \text{Stockwell}\ \text{Street}\ 27/01/1997\ \text{Monday survey period:}\ 07:00-24:00$

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

	TOTALS	OUT	IN		MODE: car passenger
lakkar veneraksi periode selekti kirik selekti. Kiri kenta yarat 2. anakser pauta-kenta kiri yake ya kirik selekti	Trip Rate	Trip Rate	Trip Rate	No of Sites	Time Range
	0.00	0.00	0.00	1	06:00-06:30
	0.00	0.00	0.00	1	06:30-07:00
	0.08	0.06	0.02	5	07:00-07:30
	0.12	0.10	0.02	5	07:30-08:00
	0.09	0.06	0.03	5	08:00-08:30
	0.14	0.11	0.02	5	08:30-09:00
	0.03	0.03	0.00	5	09:00-09:30
	0.04	0.02	0.02	5	09:30-10:00
	0.05	0.04	0.01	5 .	10:00-10:30
	0.08	0.05	0.03	5	10:30-11:00
•	0.04	0.02	0.02	5	11:00-11:30
	0.04	0.02	0.01	5	11:30-12:00
	0.12	0.02	0.10	6	12:00-12:30
	0.10	0.02	0.08	6	12:30-13:00
ener e	0.10	0.03	0.06	6	13:00-13:30
	0.11	0.07	0.05	6	13:30-14:00
	0.08	0.05	0.03	6	14:00-14:30
	0.08	0.06	0.02	6 .	14:30-15:00
	0.10	0.03	0.07	6	15:00-15:30
	0.10	0.06	0.04	6	15:30-16:00
	0.13	0.07	0.06	6	16:00-16:30
	0.14	0.06	0.07	6	16:30-17:00
	0.14	0.07	0.07	6	17:00-17:30
V.	0.10	0.03	0.07	6	17:30-18:00
	0.10	0.05	0.05	6	18:00-18:30
	0.11	0.04	0.08	6	18:30-19:00
	0.12	0.05	0.07	6	19:00-19:30
	0.06	0.01	0.05	6	19:30-20:00
•	0.14	0.07	0.06	-6	20:00-20:30
	0.05	0.03	0.02	6	20:30-21:00
	0.13	0.06	0.07	6	21:00-21:30
	0.05	0.03	0.03	6	21:30-22:00
	0.05	0.03	0.02	5	22:00-22:30
	0.10	0.05	0.05	5	22:30-23:00
	0.05	0.03	0.02	5	23:00-23:30
	0.03	0.01	0.02	5	23:30-24:00

Printed: 15/07/2005 12:34:32

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 f	or <u>car passenger</u> Timeband(s)	Trip Rate
$\mathbf{I}\mathbf{N}$	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

Printed: 15/07/2005 12:34:32

Annex H Employment Trip Rates

TRICS 2005(a) (C) 2005 JMP Consulting on behalf of the TRICS Consortium Tuesday 28/06/05

Page 1

WSP Management Services Ltd Mountbatten House, Basing View Basingstoke Licence No: 100301

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:

Monday1 daysTuesday1 daysThursday3 daysFriday1 days

Selected survey types:

Manual count 6 days
Directional ATC Count 0 days

Optional parameter selection:

Use Class:

B1 6 days

Location:

Suburban Area1 daysEdge of Town1 daysCommercial Zone2 daysIndustrial Zone1 daysDevelopment Zone1 days

Population within 1 mile:

i opaiation maini i mio.	
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

TRICS 2005(a) (C) 2005 JMP Consulting on behalf of the TRICS Consortium Tuesday 28/06/05
Page 2
WSP Management Services Ltd Mountbatten House, Basing View Basingstoke Licence No: 100301

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>	Per Hour	Per Day	Surveys
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

Tuesday 28/06/05 Page 3

WSP Management Services Ltd

Mountbatten House, Basing View Basingstoke

Licence No: 100301

13300 5211

LIST OF SITES relevant to selection parameters

BU-02-B-01 BUSINESS PARK, HIGH WYCOMBE LONDON ROAD

HIGH WYCOMBE

Total Gross floor area:

Survey date: THURSDAY

13300 sqm 08/07/04

2 CA-02-B-01

CAMBRIDGE SCIENCE PARK

MILTON ROAD

CAMBRIDGE

Total Gross floor area:

118448 sgm

Survey date: MONDAY

27/1-1/00

3

GM-02-B-03 BUSINESS PARK, SALE

CROSS STREET

SALE

Total Gross floor area:

3985 sqm

Survey date: FRIDAY

28/05/04

LC-02-B-02 NAVIGATION BUSINESS VILLAGE

NAVIGATION WAY

PRESTON DOCKLANDS DEVELOPMENT

PRESTON

Total Gross floor area:

3450 sam

Survey date: THURSDAY

14/03/96

OX-02-B-01

BUSINESS PARK, OXFORD

GARSINGTON ROAD

COWLEY

OXFORD

Total Gross floor area:

33105 sqm

Survey date: TUESDAY

21/10/03

6

ST-02-B-03 BUSINESS PARK, STAFFORD

FRANK FOLEY WAY

GREYFRIARS

STAFFORD

Total Gross floor area:

4064 sqm

Survey date: THURSDAY

06/07/00

BUCKINGHAMSHIRE

Survey Type: MANUAL

CAMBRIDGESHIRE

118448 300 YSCS Pool ra Spor 32-1 per 50,00

EGI Palking Speca

Survey Type: MANUAL

GREATER MANCHESTER

3985 Sam

Survey Type: MANUAL

LANCASHIRE

3450 Cam 126 Parking Sport

27.4 maszn

Survey Type: MANUAL

OXFORDSHIRE

33105 Salm

Survey Type: MANUAL

STAFFORDSHIRE

Survey Type: MANUAL

(225+321)+24-2+27.4+18.9+364)

= 26.95

Average = 27 spaces per Som

TRICS 2005(a)

(C) 2005 JMP Consulting on behalf of the TRICS Consortium

Tuesday 28/06/05 Page 4

WSP Management Services Ltd Mountbatten House, Basing View

Basingstoke

Licence No: 100301

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

Calculation factor: 100 sqm

BOLD print indicates peak (busiest) period

	100	ARRIVALS		D.	EPARTURI	ES		TOTALS	
	No.	Ave.	Trip	No.	Ave.	Trip	No:	Ave.	Trip
_Time Range	Days	GFA	Rate	Days	GFA	Rate	Days	GFA	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	0.07	6	29392	0.23
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	0.13	6	29392	0.44
12:30 - 13:00	6	29392	0.13	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	0.26	6	29392	0.16	6	29392	0.32
14:30 - 15:00	6.	29392	0.12	6	29392	0.15	6	29392	0.32
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	0.13	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	23332	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:		U	0.00 <u> </u> 5:07	U	<u> </u>	4.81	· U	U	9.90
party rup ixates.		2000 Sept. 2	S. U.U.			4:01			3.30

TRICS 2005(a)

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Tuesday 28/06/05 Page 5

WSP Management Services Ltd

Mountbatten House, Basing View

Basingstoke

Licence No: 100301

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):

Number of Saturdays:

0

Number of Sundays:

0

Optional parameters used in selection:

NO

Surveys manually removed from selection:

0

TRICS 2005(a) (C) 2005 JMP Consulting on behalf of the TRICS Consortium Tuesday 28/06/05
Page 1
WSP Management Services Ltd Mountbatten House, Basing View Basingstoke Licence No: 100301

1 days

6 days

TRIP RATE CALCULATION SELECTION PARAMETERS:

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

Selected regions and areas:

SOUTH EAST BUCKINGHAMSHIRE BU 1 days **OXFORDSHIRE** OX 1 days EAST ANGLIA CA CAMBRIDGESHIRE 1 days 06 **WEST MIDLANDS** STAFFORDSHIRE 1 days 80 **NORTH WEST** GM GREATER MANCHESTER 1 days

Main parameter selection:

LANCASHIRE

Parameter:

LC

Gross floor area

Range:

2120 to 118448 (units: sqm)

Date Range:

01/01/96 to 08/07/04

Selected survey days:

Monday1 daysTuesday1 daysThursday3 daysFriday1 days

Selected survey types:

Manual count 6 days
Directional ATC Count 0 days

Optional parameter selection:

Use	Class.

B1

Location:Suburban Area1 daysEdge of Town1 daysCommercial Zone2 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

TRICS 2005(a) (C) 2005 JMP Consulting on behalf of the TRICS Consortium Tuesday 28/06/05
Page 2
WSP Management Services Ltd Mountbatten House, Basing View Basingstoke Licence No: 100301

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

0.0 10 1.0	3 days
1.1 to 1.5	3 days

Buses/Trains	per day	(both	directions):
--------------	---------	-------	--------------

Frequency	Per Hour	Per Day	Surveys
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

TRICS 2005(a) (C) 2005 JMP Consulting on behalf of the TRICS Consortium Tuesday 28/06/05 Page 3

WSP Management Services Ltd

Mountbatten House, Basing View Basingstoke

Licence No: 100301

13300 5211

LIST OF SITES relevant to selection parameters

BU-02-B-01 BUSINESS PARK, HIGH WYCOMBE LONDON ROAD

HIGH WYCOMBE

Total Gross floor area:

Survey date: THURSDAY

OR/O7/04 2 CA-02-B-01

MILTON ROAD

CAMBRIDGE SCIENCE PARK

CAMBRIDGE

Total Gross floor area:

118448 sqm

Survey date: MONDAY

27/11/00

GM-02-B-03 BUSINESS PARK, SALE

CROSS STREET

SALE

Total Gross floor area:

3985 sgm

Survey date: FRIDAY

28/05/04

LC-02-B-02 NAVIGATION BUSINESS VILLAGE

NAVIGATION WAY

PRESTON DOCKLANDS DEVELOPMENT

PRESTON

Total Gross floor area:

3450 sgm

Survey date: THURSDAY

14/03/96

OX-02-B-01 BUSINESS PARK, OXFORD

GARSINGTON ROAD

COWLEY

OXFORD

Total Gross floor area:

33105 sqm

Survey date: TUESDAY

21/10/03

ST-02-B-03 BUSINESS PARK, STAFFORD

FRANK FOLEY WAY

GREYFRIARS

STAFFORD

Total Gross floor area:

4064 sqm

Survey date: THURSDAY

06/07/00

BUCKINGHAMSHIRE

Survey Type: MANUAL

CAMBRIDGESHIRE

118448 Sem 3685 Porthing Space

E Cal Paiking grace

22. PER BORK

Survey Type: MANUAL GREATER MANCHESTER

3985 Sami

165 Rushing Spaces -24-2 001 Sem

Survey Type: MANUAL

LANCASHIRE

3450 Cam 126 _ Pad Ga 150000

27.4 Dar som

Survey Type: MANUAL

OXFORDSHIRE

33105 Sayus 1750 Parking Force

Survey Type: MANUAL

STAFFORDSHIRE

Survey Type: MANUAL

(225+321+242+274+18.7+366)

Amage = 27 spaces per som

TRICS 2005(a)

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Tuesday 28/06/05 Page 4

WSP Management Services Ltd

Mountbatten House, Basing View

Basingstoke

Licence No: 100301

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

Calculation factor: 100 sqm

BOLD print indicates peak (busiest) period

7.25		ARRIVALS		D	EPARTURE	ES.		TOTALS	
	No.	Ave.	Trip	No.	Ave.	Trip	No.	Ave.	Trip
Time Range	Days	GFA	Rate	Days	GFA	Rate	Days	GFA	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
						21.34			

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TRICS 2005(a)

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Tuesday 28/06/05 Page 5

WSP Management Services Ltd

Mountbatten House, Basing View

Basingstoke

Licence No: 100301

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):

Number of Saturdays:

0

Number of Sundays:

0

Optional parameters used in selection:

NO

Surveys manually removed from selection:

Annex I Health Village Trip Rates

TRICS 2006(a) Nursing Home (C) 2006 JMP Consulting on behalf of the TRICS Consortium

Monday 13/03/06 Page 1

WSP Mountbatten House

Basingstoke

Licence No: 100301

TRIP RATE CALCULATION SELECTION PARAMETERS:

Land Use : 05 - HEALTH

Category: F - NURSING HOMES

MULTI-MODAL TOTAL PEOPLE

Selected regions and areas:

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

TRICS 2006(a) **Nursing Home**

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Monday 13/03/06 Page 2

WSP Mountbatten House Basingstoke

Licence No: 100301

LIST OF SITES relevant to selection parameters

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

TRICS 2006(a) Nursing Home (C) 2006 JMP Consulting on behalf of the TRICS Consortium

Monday 13/03/06 Page 3

WSP Mount

Mountbatten House

Basingstoke

Licence No: 100301

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

MULTI-MODAL TOTAL PEOPLE

Calculation factor: 1 RESIDE

BOLD print indicates peak (busiest) period

		ARRIVALS		DE	PARTURES	S		TOTALS	
	No.	Ave.	Trip	No.	Ave.	Trip	No.	Ave,	Trip -
Time Range	Days	RESIDE	Rate	Days	RESIDE	Rate	Days	RESIDE :	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	11	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		Water	1.07			2.24

Parameter summary

Trip rate parameter range selected:

Survey date date range:

Number of weekdays (Monday-Friday):

Number of Saturdays:

Number of Sundays:

Optional parameters used in selection: Surveys manually removed from selection: 180 - 180 (units:)

01/01/97 - 22/06/04

1

0

0

NO

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TRICS 2006(a) **GP** Surguries FTE

(C) 2006 JMP Consulting on behalf of the TRICS Consortium

Monday 13/03/06 Page 1

WSP Mountbatten House

Basingstoke

Licence No: 100301

TRIP RATE CALCULATION SELECTION PARAMETERS:

Land Use : 05 - HEALTH

Category : G - GP SURGERIES

MULTI-MODAL TOTAL PEOPLE

Selected regions and areas:

02	SOUT	H EAST
	HC	HAMPSHIRE

2 days

SOUTH WEST 03

1 days

DC DORSET

06 WEST MIDLANDS STAFFORDSHIRE ST

1 days

NORTH 09

> **CUMBRIA** CB TV TEES VALLEY

1 days

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:

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

Selected survey types:

Manual count 6 days Directional ATC Count 0 days

TRICS 2006(a) **GP** Surguries FTE (C) 2006 JMP Consulting on behalf of the TRICS Consortium

Monday 13/03/06 Page 2

WSP Mountbatten House

Basingstoke

Licence No: 100301

LIST OF SITES relevant to selection parameters

CB-05-G-01

GP SURGERY, CARLISLE

CUMBRIA

PORT ROAD NEWTOWN

CARLISLE

Total Number of Employees:

04/09/02

Survey Type: MANUAL

DC-05-G-03

GP SURGERY, NEAR WEYMOUTH

DORSET

PRESTON ROAD

PRESTON

NEAR WEYMOUTH

Total Number of Employees:

0

Survey date: MONDAY

Survey date: WEDNESDAY

08/07/02

Survey Type: MANUAL

HC-05-G-02

GP SURGERY, ROMSEY

HAMPSHIRE

ALMA ROAD

ROMSEY

Total Number of Employees:

0

07/11/02

Survey Type: MANUAL

HC-05-G-03

GP SURGERY, WINCHESTER

HAMPSHIRE

FRIARSGATE

WINCHESTER

Total Number of Employees:

0

Survey date: THURSDAY

Survey date: THURSDAY

07/11/02

Survey Type: MANUAL

ST-05-G-01

GP SURGERY, STOKE-ON-TRENT

GP SURGERY, DARLINGTON

STAFFORDSHIRE

TEES VALLEY

NEW INN LANE

HANFORD

STOKE-ON-TRENT

Total Number of Employees:

Survey date: TUESDAY

16/07/02

Survey Type: MANUAL

TV-05-G-01

VICTORIA ROAD

DARLINGTON

Total Number of Employees:

 \cap

Survey date: MONDAY

18/04/05

Survey Type: MANUAL

TRICS 2006(a)
GP Surguries FTE

(C) 2006 JMP Consulting on behalf of the TRICS Consortium.

Monday 13/03/06 Page 3

WSP Mountbatten House

atten House Basingstoke

Licence No: 100301

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

MULTI-MODAL TOTAL PEOPLE Calculation factor: 1 EMPLOY

BOLD print indicates peak (busiest) period

		RRIVALS		D	EPARTURE	S		TOTALS	
	No.	Ave.	Trip	No.	Ave.	Trip	No.	Ave.	Trip
Time Range	Days	EMPLOY .	Rate	Days	EMPLOY	Rate	Days	EMPLOY	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	00	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 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:

1

TRICS 2006(a) Clinics

(C) 2006 JMP Consulting on behalf of the TRICS Consortium

Monday 13/03/06 Page 1

WSP

Mountbatten House

Basingstoke

Licence No: 100301

TRIP RATE CALCULATION SELECTION PARAMETERS:

Land Use : 05 - HEALTH

Category : E - CLINICS

MULTI-MODAL TOTAL PEOPLE

Selected regions and areas:

GREATER LONDON

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

TRICS 2006(a) Clinics

(C) 2006 JMP Consulting on behalf of the TRICS Consortium

Monday 13/03/06 Page 2

WSP

Mountbatten House Basingstoke

Licence No: 100301

LIST OF SITES relevant to selection parameters

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

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

TRICS 2006(a) Clinics

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Monday 13/03/06 Page 3

WSP

Mountbatten House

Basingstoke

Licence No: 100301

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

MULTI-MODAL TOTAL PEOPLE

Calculation factor: 1 EMPLOY

BOLD print indicates peak (busiest) period

		ARRIVALS		DE	EPARTURE	S .		TOTALS	
	No.	Ave.	Trip	No.	Ave.	Trip	No.	Ave,	Trip
Time Range	Days	EMPLOY	Rate	Days	EMPLOY	Rate I	Days	EMPLOY	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		a sanding a	27.28

Parameter summary

Trip rate parameter range selected:

0 - 0 (units:)

Survey date 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:

TRICS 2006(a) Hospital (No Casualty) (C) 2006 JMP Consulting on behalf of the TRICS Consortium

Monday 13/03/06 Page 1

Mountbatten House

Basingstoke

Licence No: 100301

TRIP RATE CALCULATION SELECTION PARAMETERS:

Land Use : 05 - HEALTH

Category : B - GENERAL HOSPITAL - WITHOUT CASUALTY

MULTI-MODAL TOTAL PEOPLE

Selected regions and areas:

SOUTH EAST

EAST SUSSEX ES

1 days

SOUTH WEST 03

> 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

TRICS 2006(a) Hospital (No Casualty)

(C) 2006 JMP Consulting on behalf of the TRICS Consortium

Monday 13/03/06 Page 2

WSP Mountbatten House Basingstoke

Licence No: 100301

LIST OF SITES relevant to selection parameters

COMMUNITY HOSPITAL, BRIDPORT DC-05-B-01 DORSET

HOSPITAL LANE NORTH ALLINGTON BRIDPORT

Total Number of beds:

55 *****

Survey date: MONDAY

21/10/02

COMMUNITY HOSPITAL, UCKFIELD EAST SUSSEX

Survey Type: MANUAL

2 ES-05-B-03

FRAMFIELD ROAD NEW TOWN UCKFIELD

Total Number of beds:

56 *****

Survey date: THURSDAY

12/09/02

Survey Type: MANUAL

TRICS 2006(a) Hospital (No Casualty) (C) 2006 JMP Consulting on behalf of the TRICS Consortium

Monday 13/03/06 Page 3

Mountbatten House WSP

Basingstoke

Licence No: 100301

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

	Δ	RRIVALS		DE	PARTURES	5		TOTALS	
	No.	Ave.	Trip	No.	Ave.	Trip	No.	Ave.	Trip
Time Range	Days	BEDS	Rate	Days	BEDS :	Rate	Days	BEDS	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		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	· <u>:</u>	56	0.13	1	56	0.20	1	56	0.32
21:00 - 22:00	1	56	0.07	1	56	0.16	<u> </u>	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:

Survey date date range:

Number of weekdays (Monday-Friday):

Number of Saturdays:

Number of Sundays:

Optional parameters used in selection:

Surveys manually removed from selection:

55 - 56 (units:)

01/01/97 - 21/10/02

2

0

0

NO

0

Annex J Sports Centre Trip Rates

Thursday 21/09/06 Page 1

WSP

Mountbatten House

Basingstoke

Licence No: 100301

TRIP RATE CALCULATION SELECTION PARAMETERS:

Land Use : 07 - LEISURE

Category : C - SPORTS CENTRES MULTI-MODAL VEHICLES

Selected regions and areas:

03	SOUT	H WEST
----	------	--------

DC -DORSET 1 days 1 days **GLOUCESTERSHIRE** GS

WEST MIDLANDS 06

> 1 days WM WEST MIDLANDS 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:

5 days Manual count **Directional ATC Count** 0 days

Optional parameter selection:

Use Class:

D2 5 days

Location:	Location Sub Category:

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

Population within 1 mile:

1 days
1 days
1 days
1 days
1 days

Population within 5 miles:

i opalation vitami o 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

ics :		

Not Known

Yes No (C) 2006 JMP Consulting on behalf of the TRICS Consortium

2 days 1 days

2 days

Thursday 21/09/06

WSP

Mountbatten House Bas

Basingstoke

Page 2 Licence No: 100301

Optional parameter selection (Cont.):

Car	owi	nership	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):

Frequency .	Per Hour	Per Day	Surveys
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:			

TRICS 2006(b)

(C) 2006 JMP Consulting on behalf of the TRICS Consortium

Thursday 21/09/06 Page 3

WSP Mountbatten House

Basingstoke

Licence No: 100301

LIST OF SITES relevant to selection parameters

1 SPORTS CENTRE, BRIDPORT DC-07-C-05 **DORSET**

SKILLING HILL ROAD

SKILLING BRIDPORT

Total Gross floor area:

5600 sqm

Survey date: TUESDAY

11/07/00

LEISURE CENTRE, GLOUCESTER GS-07-C-01

Survey Type: MANUAL **GLOUCESTERSHIRE**

BRUTON WAY

GLOUCESTER

Total Gross floor area:

5886 sqm

Survey date: MONDAY

24/05/04 Survey Type: MANUAL

WEST MIDLANDS WM-07-C-01 SPORTS CENTRE, COVENTRY

LIVINGSTONE ROAD

COVENTRY

Total Gross floor area:

3280 sqm

Survey date: THURSDAY

02/02/06 Survey Type: MANUAL

WO-07-C-01 SPORTS CENTRE, DROITWICH

BRIAR MILL WYCHAVON DROITWICH

Total Gross floor area:

6000 sqm

Survey date: FRIDAY

21/07/00 Survey Type: MANUAL

WO-07-C-02

SPORTS CENTRE, DROITWICH

WORCESTERSHIRE

WORCESTERSHIRE

BRIAR HILL WYCHAVON DROITWICH SPA

Total Gross floor area:

6000 sqm

Survey date: FRIDAY

01/07/05

Survey Type: MANUAL

Mountbatten House

Basingstoke

Licence No: 100301

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

MULTI-MODAL VEHICLES Calculation factor: 100 sqm

BOLD print indicates peak (busiest) period

	ARRIVALS			DI	PARTURE	S	TOTALS		
	No.	Ave.	Trip	No.	Ave.	Trip	No.	Ave.	Trip
Time Range	Days	GFA	Rate	Days	GFA	Rate	Days	GFA I	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	7515		10.38		表书 图卷	9.96	1 多 6 以 61		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

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

REVENUE TO THE PROPERTY OF THE	ARRIVALS			D	EPARTURE	Sanda	TOTALS		
	No.	Ave.	Trip	No.	Ave.	Trip	No.	Ave.	Trip
Time Range	Days	GFA	Rate	Days	GFA	Rate	Days	GFA	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		A A E I A S	15.20			30.74

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:

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

	ARRIVALS			DI	EPARTURE	S	TOTALS		
Pages :	No.	Ave.	Trip	No.	Ave.	Trip	No.	Ave.	Trip
Time Range	Days	GFA	Rate	Days	GFA	Rate	Days	GFA #	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	\$ 11 LE	TEATE	2.44		11613	5.31

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 NO

Optional parameters used in selection: Surveys manually removed from selection:

Mountbatten House

Basingstoke

Licence No: 100301

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

MULTI-MODAL CYCLISTS
Calculation factor: 100 sqm

BOLD print indicates peak (busiest) period

	ARRIVALS				EPARTURE	S	TOTALS		
	No.	Ave.	Trip	No.	Ave.	Trip	No.	Ave.	Trip
Time Range	Days	GFA	Rate	Days	GFA	Rate	Days	GFA	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	s:	排散器 [表示	0.38		非报债 医红毛	0.37		3 2 3 3 4	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:

Mountbatten House

Basingstoke

Licence No: 100301

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

	ARRIVALS			- LA A ADI	EPARTURE	S	TOTALS		
	No.	Ave.	Trip	No.	Ave.	Trip	No.	Ave.	Trip
Time Range	Days	GFA	Rate	Days	GFA	Rate	Days	GFA	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	特別資料數數	11年間の表現の表現の	1.18	1///		1.15	1 2 3	aiddet.	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: Surveys manually removed from selection:

TRICS 2006(b)

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Wednesday 27/09/06 Page 1

WSP

Mountbatten House

Basingstoke

Licence No: 100301

TRIP RATE CALCULATION SELECTION PARAMETERS:

Land Use : 07 - LEISURE

Category : C - SPORTS CENTRES

MULTI-MODAL TRAIN PASSENGERS

Selected regions and areas:

03	S	o	U	T	Н	W	ľΕ	S	T
----	---	---	---	---	---	---	----	---	---

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:

1 days
1 days
1 days
2 days

Selected survey types:

Manual count 5 days
Directional ATC Count 0 days

Optional parameter selection:

Use Class:

D2 5 days

<u>Location:</u> <u>Location Sub Category:</u>

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

Mountbatten House

Basingstoke

Licence No: 100301

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

MULTI-MODAL TRAIN PASSENGERS

Calculation factor: 100 sqm

BOLD print indicates peak (busiest) period

	ARRIVALS			DEPARTURES			TOTALS		
	No.	Ave.	Trip	No.	Ave.	Trip	No.	Ave.	Trip
Time Range	Days	GFA	Rate	Days	GFA	Rate	Days	GFA	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	Q	0.00	0	0	0.00	0	0	0.00
Daily Trip Rates		新工业报关 主	0.00	18.75	111211	0.00	11211		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

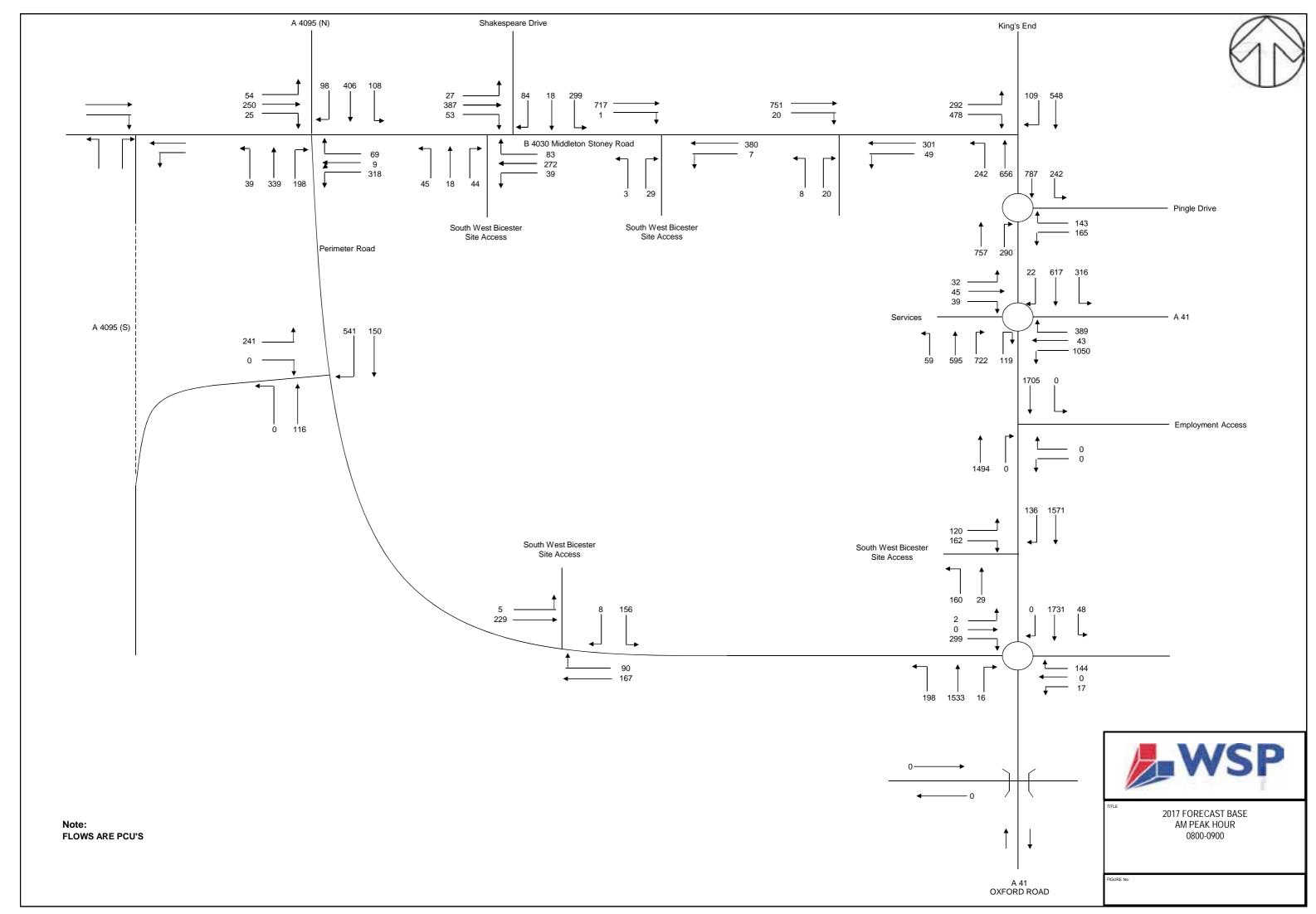
Optional parameters used in selection:

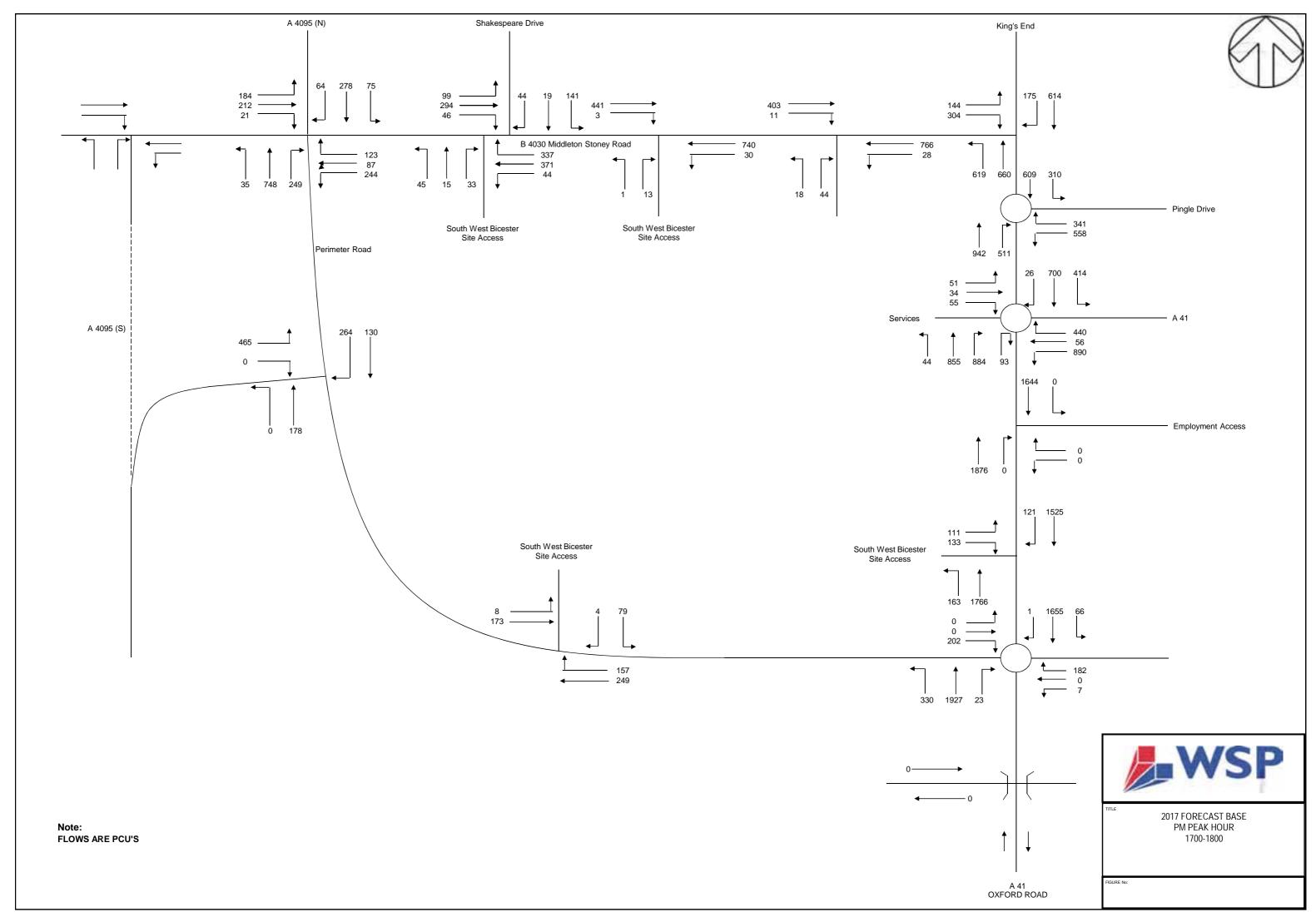
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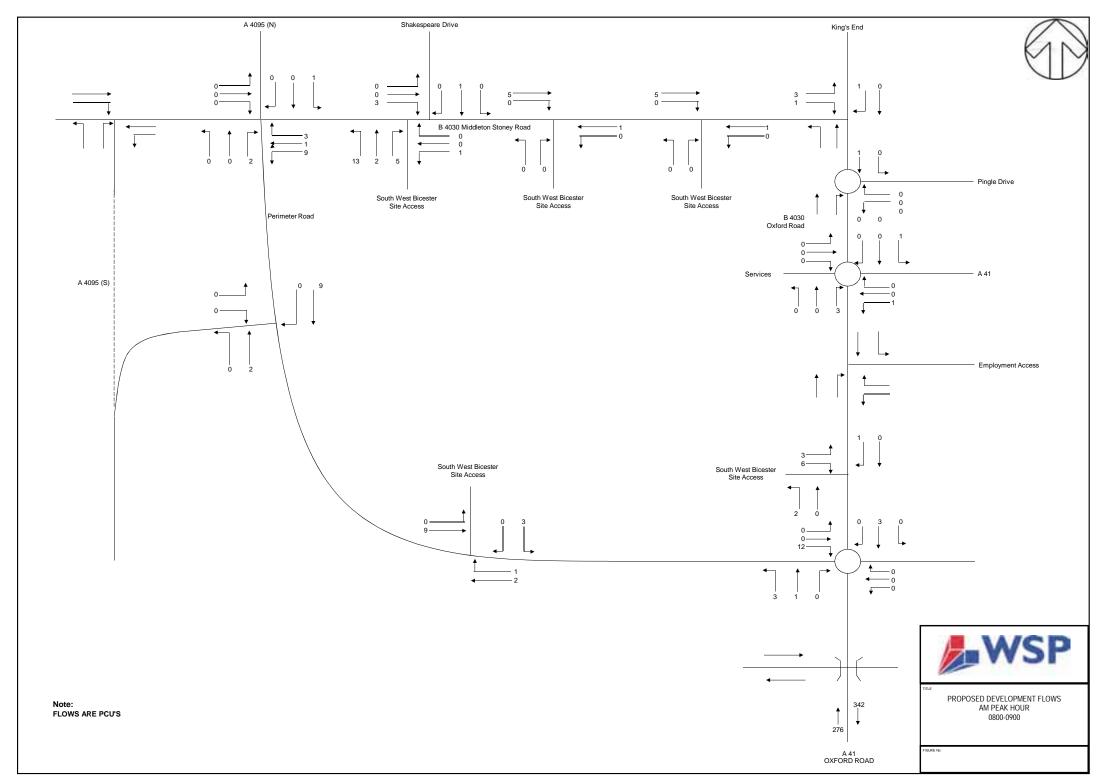
Surveys manually removed from selection:

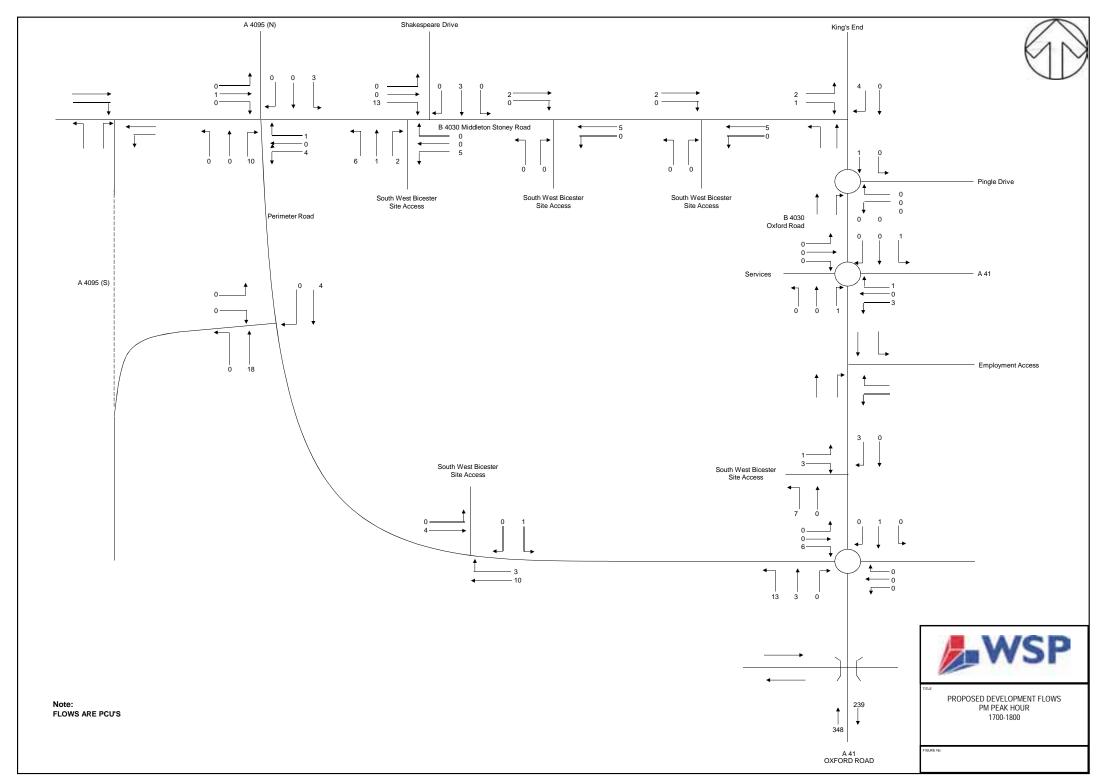
APPENDIX C Traffic Flow Diagrams

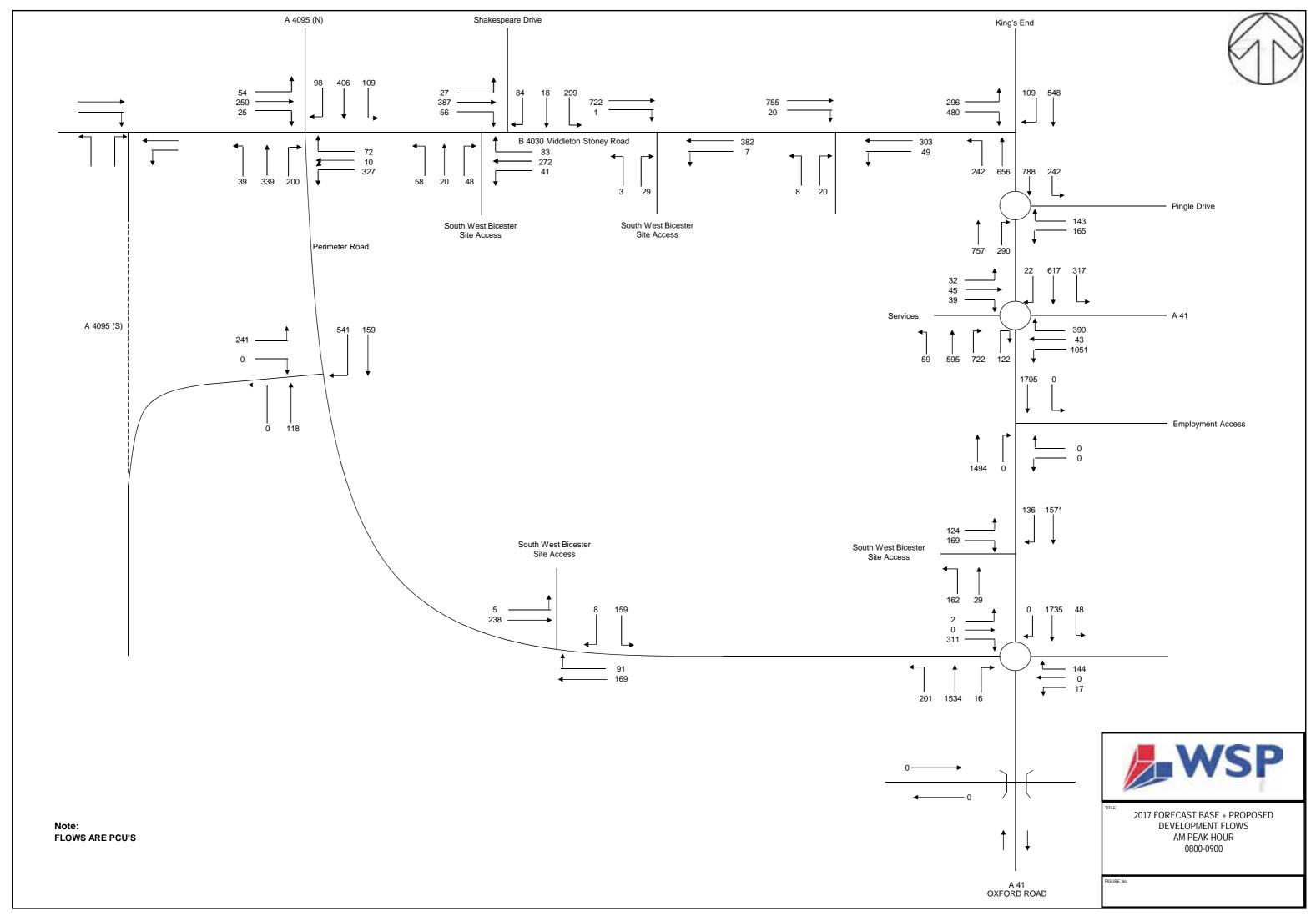


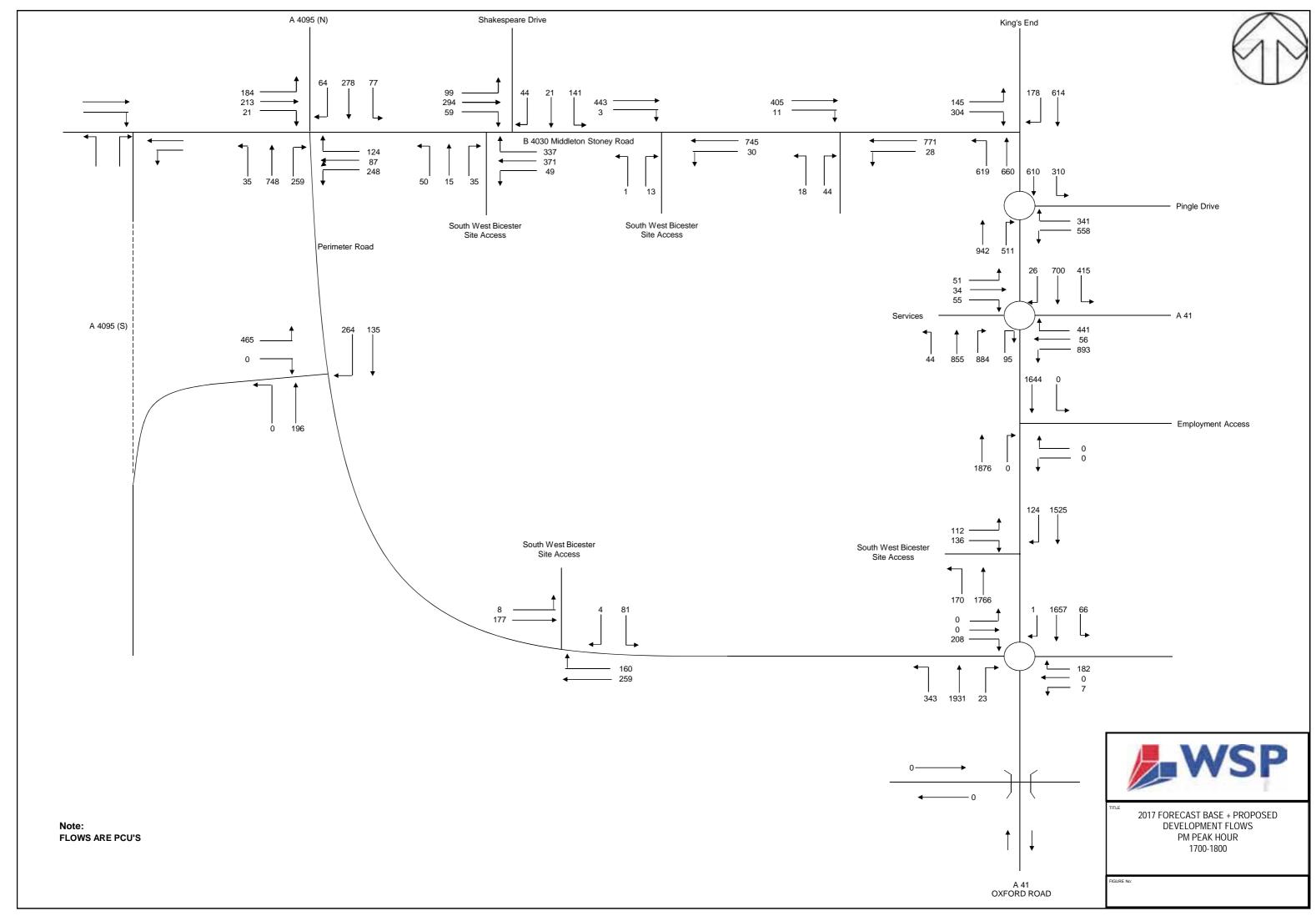












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