

Appendix X

Scenario 1: Trip Generation

Lower Slopes

Base Trips		AM		PM		
		In	Out	In	Out	
Private Residences	195	29	92	87	49	
Affordable Housing	105	7	25	32	19	
Total Resi	300	36	117	119	68	Includes trips to school
Primary School (Pupils - estimated)	220	87	60	4	6	
Primary school staff trips		27	0	4	6	Difference between Arr/dept
Number of "pupil vehicle trips"		60	60	0	0	Gen. from on/off-site
Number of pupil trips originating onsite	41%	25	25	0	0	All originate onsite
Number of pupil trips originating offsite	59%	35	35	0	0	All to/from offsite
Of the onsite trips, 60% stay onsite	60%	15	15	0	0	Discount from residential (never enter/exit site)
Offsite school trips are therefore:		62	35	4	6	Trips entering/existing site
Undiscounted residential trips		36	117	119	68	
Discount for internal capture to/from school		15	15	0	0	Trips which leave home but not site
Resulting Residential offsite trips		21	102	119	68	Discounted Resi
Total Resi/School Trips		84	138	123	74	

Normalise Mode Share to Ward	TRICS	Ward 2011	Factor
Vehicle Occupants	79.10%		
Driver, M/cycle, taxi	71.70%	53%	74%
Pax	7.40%	5%	65%
Public Transport	2.20%	13%	576%
Cyclists	1.90%	5%	257%
Pedestrians	16.80%	23%	140%
Work at home	0%		
Other	0%	1%	
	100.00%	100.00%	

Impact of Modal Shift (to account for behaviour typical of ward)

Car Factor	74.46%				Normalise to BANES ward behaviour
Total School/Resi Trips		62	103	92	55 Resulting resi/school trips

Employment					
Industrial Estate	0	0	0	0	0 Employment trips
Business Park	0	0	0	0	0
Total Industrial	0	0	0	0	0

Internal Capture	0.1				
Reduction in Employment trips		0	0	0	0

Revised Employment trips		0	0	0	0
Revised Residential trips		62	103	92	55
Total trips (employment, school, residential)		62	103	92	55 Trips Offsite

Ward

Weston

Distribution of trips		AM		PM	
		In	Out	In	Out
Bath	57%	35	58	52	31
Keynsham	2%	1	2	1	1
Midsomer Norton, Radstock, Westfield	2%	1	2	2	1
Other BANES	6%	4	6	5	3
Bristol	9%	6	10	9	5
South Glos	9%	6	9	8	5
Somerset	1%	1	1	1	0
Wiltshire	6%	4	7	6	4
Other	9%	6	9	8	5
	100%	64	104	92	55

Trips by other modes	% of Car	AM		PM	
		In	Out	In	Out
Public Transport	24%	15	25	22	13
Cyclists	9%	6	9	8	5
Pedestrians	44%	27	45	40	24

Odd Down

Base Trips		AM		PM		Out
		In	Out	In	Out	
Private Residences	195	29	92	87	49	
Affordable Housing	105	7	25	32	19	
Total Resi	300	36	117	119	68	Includes trips to school
Primary School (Pupils - estimated)	0	0	0	0	0	
Primary school staff trips		0	0	0	0	0 Difference between Arr/dept
Number of "pupil vehicle trips"		0	0	0	0	0 Gen. from on/off-site
Number of pupil trips originating onsite	0%	0	0	0	0	0 All originate onsite
Number of pupil trips originating offsite	100%	0	0	0	0	0 All to/from offsite
Of the onsite trips, 60% stay onsite	60%	0	0	0	0	0 Discount from residential (never enter/exit site)
Offsite school trips are therefore:		0	0	0	0	0 Trips entering/existing site
Undiscounted residential trips		36	117	119	68	
Discount for internal capture to/from school		0	0	0	0	0 Trips which leave home but not site
Resulting Residential offsite trips		36	117	119	68	Discounted Resi
Total Resi/School Trips		36	117	119	68	

Normalise Mode Share to Ward	TRICS	Ward 2011	Factor
Vehicle Occupants	79.10%		
Driver, M/cycle, taxi	71.70%	61%	85%
Pax	7.40%	7%	91%
Public Transport	2.20%	17%	757%
Cyclists	1.90%	3%	137%
Pedestrians	16.80%	13%	76%
Work at home	0%		
Other	0%	0%	
	100.00%	100.00%	

Impact of Modal Shift (to account for behaviour typical of ward)

Car Factor	84.72%				Normalise to BANES ward behaviour
Total School/Resi Trips		30	99	101	58 Resulting resi/school trips

Employment					
Industrial Estate	0	0	0	0	0 Employment trips
Business Park	0	0	0	0	0
Total Industrial	0	0	0	0	0

Internal Capture	0.1				
Reduction in Employment trips		0	0	0	0

Revised Employment trips		0	0	0	0
Revised Residential trips		30	99	101	58
Total trips (employment, school, residential)		30	99	101	58 Trips Offsite

Ward

Odd Down

Distribution of trips		AM		PM	
		In	Out	In	Out
Bath	60%	18	59	60	35
Keynsham	1%	0	1	1	1
Midsomer Norton, Radstock, Westfield	3%	1	3	3	2
Other BANES	8%	2	8	8	4
Bristol	6%	2	6	7	4
South Glos	6%	2	6	6	3
Somerset	2%	1	2	2	1
Wiltshire	7%	2	7	7	4
Other	7%	2	7	7	4
	100%	30	99	101	58

Trips by other modes	% of Car	AM		PM	
		In	Out	In	Out
Public Transport	27%	8	27	28	16
Cyclists	4%	1	4	4	2
Pedestrians	21%	6	21	21	12

Enseigh Lansdown

Base Trips	AM		PM		Out	
	In	Out	In	Out		
Private Residences	72	11	34	32	18	
Affordable Housing	48	3	11	14	9	
Total Resi	120	14	45	46	27	Includes trips to school
Primary School (Pupils - estimated)	0	0	0	0	0	
Primary school staff trips		0	0	0	0	0 Difference between Arr/dept
Number of "pupil vehicle trips"		0	0	0	0	0 Gen. from on/off-site
Number of pupil trips originating onsite	0%	0	0	0	0	0 All originate onsite
Number of pupil trips originating offsite	100%	0	0	0	0	0 All to/from offsite
Of the onsite trips, 60% stay onsite	60%	0	0	0	0	0 Discount from residential (never enter/exit site)
Offsite school trips are therefore:		0	0	0	0	0 Trips entering/existing site
Undiscounted residential trips		14	45	46	27	
Discount for internal capture to/from school		0	0	0	0	0 Trips which leave home but not site
Resulting Residential offsite trips		14	45	46	27	Discounted Resi
Total Resi/School Trips		14	45	46	27	

Normalise Mode Share to Ward	TRICS	Ward 2011	Factor
Vehicle Occupants	79.10%		
Driver, M/cycle, taxi	71.70%	61%	85%
Pax	7.40%	7%	91%
Public Transport	2.20%	17%	757%
Cyclists	1.90%	3%	137%
Pedestrians	16.80%	13%	76%
Work at home	0%		
Other	0%	0%	
	100.00%	100.00%	

Based on Odd Down

Impact of Modal Shift (to account for behaviour typical of ward)

Car Factor	84.72%				Normalise to BANES ward behaviour
Total School/Resi Trips		12	38	39	23 Resulting resi/school trips

Employment					
Industrial Estate	0	0	0	0	0 Employment trips
Business Park	0	0	0	0	0
Total Industrial		0	0	0	0

Internal Capture	0.1				
Reduction in Employment trips		0	0	0	0

Revised Employment trips		0	0	0	0
Revised Residential trips		12	38	39	23
Total trips (employment, school, residential)		12	38	39	23 Trips Offsite

Ward

Lansdown

Distribution of trips		AM		PM	
		In	Out	In	Out
Bath	42%	5	16	16	10
Keynsham	1%	0	0	0	0
Midsomer Norton, Radstock, Westfield	2%	0	1	1	0
Other BANES	5%	1	2	2	1
Bristol	12%	1	4	5	3
South Glos	10%	1	4	4	2
Somerset	1%	0	1	1	0
Wiltshire	13%	2	5	5	3
Other	15%	2	6	6	3
	100%	12	39	40	22

Trips by other modes	% of Car	AM		PM	
		In	Out	In	Out
Public Transport	27%	3	11	11	6
Cyclists	4%	1	2	2	1
Pedestrians	21%	3	8	8	5

South of K2

Base Trips		AM		PM		
		In	Out	In	Out	
Private Residences	130	20	61	58	33	
Affordable Housing	70	5	17	21	13	
Total Resi	200	25	78	79	46	Includes trips to school
Primary School (Pupils - estimated)	0	0	0	0	0	
Primary school staff trips		0	0	0	0	0 Difference between Arr/dept
Number of "pupil vehicle trips"		0	0	0	0	0 Gen. from on/off-site
Number of pupil trips originating onsite	0%	0	0	0	0	0 All originate onsite
Number of pupil trips originating offsite	100%	0	0	0	0	0 All to/from offsite
Of the onsite trips, 60% stay onsite	60%	0	0	0	0	0 Discount from residential (never enter/exit site)
Offsite school trips are therefore:		0	0	0	0	0 Trips entering/existing site
Undiscounted residential trips		25	78	79	46	
Discount for internal capture to/from school		0	0	0	0	0 Trips which leave home but not site
Resulting Residential offsite trips		25	78	79	46	Discounted Resi
Total Resi/School Trips		25	78	79	46	

Normalise Mode Share to Ward	TRICS	Ward 2011	Factor
Vehicle Occupants	79.10%		
Driver, M/cycle, taxi	71.70%	68%	94%
Pax	7.40%	6%	75%
Public Transport	2.20%	12%	533%
Cyclists	1.90%	2%	124%
Pedestrians	16.80%	12%	74%
Work at home	0%		
Other	0%	0%	
	100.00%	100.00%	

Impact of Modal Shift (to account for behaviour typical of ward)

Car Factor	94.46%				Normalise to BANES ward behaviour
Total School/Resi Trips		24	74	75	43 Resulting resi/school trips
Employment					
Industrial Estate	0	0	0	0	0 Employment trips
Business Park	0	0	0	0	0
Total Industrial	0	0	0	0	
Internal Capture	0.1				
Reduction in Employment trips		0	0	0	0
Revised Employment trips		0	0	0	0
Revised Residential trips		24	74	75	43
Total trips (employment, school, residential)		24	74	75	43 Trips Offsite

Ward

Keynsham South

Distribution of trips		AM		PM	
		In	Out	In	Out
Bath	11%	3	8	8	5
Keynsham	25%	6	18	19	11
Midsomer Norton, Radstock, Westfield	1%	0	1	1	1
Other BANES	4%	1	3	3	2
Bristol	34%	8	25	26	15
South Glos	15%	4	11	12	7
Somerset	1%	0	1	1	0
Wiltshire	2%	0	1	1	1
Other	6%	2	5	5	3
	100%	24	73	76	45

Trips by other modes	% of Car	AM		PM	
		In	Out	In	Out
Public Transport	17%	4	13	13	8
Cyclists	3%	1	3	3	2
Pedestrians	18%	4	14	14	8

Whitchurch

Base Trips	AM		PM		Out	
	In	Out	In	Out		
Private Residences	130	20	61	58	33	
Affordable Housing	70	5	17	21	13	
Total Resi	200	25	78	79	46	Includes trips to school
Primary School (Pupils - estimated)	0	0	0	0	0	
Primary school staff trips		0	0	0	0	0 Difference between Arr/dept
Number of "pupil vehicle trips"		0	0	0	0	0 Gen. from on/off-site
Number of pupil trips originating onsite	0%	0	0	0	0	0 All originate onsite
Number of pupil trips originating offsite	100%	0	0	0	0	0 All to/from offsite
Of the onsite trips, 60% stay onsite	60%	0	0	0	0	0 Discount from residential (never enter/exit site)
Offsite school trips are therefore:		0	0	0	0	0 Trips entering/existing site
Undiscounted residential trips		25	78	79	46	
Discount for internal capture to/from school		0	0	0	0	0 Trips which leave home but not site
Resulting Residential offsite trips		25	78	79	46	Discounted Resi
Total Resi/School Trips		25	78	79	46	

Normalise Mode Share to Ward	TRICS	Ward 2011	Factor
Vehicle Occupants	79.10%		
Driver, M/cycle, taxi	71.70%	81%	112%
Pax	7.40%	5%	63%
Public Transport	2.20%	7%	335%
Cyclists	1.90%	1%	62%
Pedestrians	16.80%	6%	34%
Work at home	0%		
Other	0%	1%	
	100.00%	100.00%	

Impact of Modal Shift (to account for behaviour typical of ward)

Car Factor	112.45%				Normalise to BANES ward behaviour
Total School/Resi Trips		28	88	89	52 Resulting resi/school trips

Employment					
Industrial Estate	0	0	0	0	0 Employment trips
Business Park	0	0	0	0	0
Total Industrial	0	0	0	0	0

Internal Capture	0.1				
Reduction in Employment trips		0	0	0	0

Revised Employment trips		0	0	0	0
Revised Residential trips		28	88	89	52
Total trips (employment, school, residential)		28	88	89	52 Trips Offsite

Ward

Publow and Whitchurch

Distribution of trips		AM		PM	
		In	Out	In	Out
Bath	4%	1	4	4	2
Keynsham	6%	2	5	5	3
Midsomer Norton, Radstock, Westfield	2%	1	2	2	1
Other BANES	16%	4	14	14	8
Bristol	52%	14	45	46	27
South Glos	9%	2	8	8	4
Somerset	1%	0	1	1	0
Wiltshire	2%	1	2	2	1
Other	9%	2	8	8	5
	100%	27	89	90	51

Trips by other modes	% of Car	AM		PM	
		In	Out	In	Out
Public Transport	9%	2	8	8	5
Cyclists	1%	0	1	1	1
Pedestrians	7%	2	6	6	4