

Appendix V

Mileage, CO₂, RTA Calculations Note

Subject Mileage, CO2 and Road Traffic Accidents

Date February 2013

Job No/Ref

229042-00

1.1 Calculating CO₂ Emission

The amount of additional CO₂ generated by commuters from sites using cars is calculated at 2001 Census wards origin-destination pairs level. The calculation uses the following equation:

$$ODCO_2 = OD_{trip} \times OD_{distance} \times CO_2/km$$

where:

- OD_{trip} is the number commuter trips for each origin-destination pair (vehicle trip)
- $OD_{distance}$ is the road distance for each origin-destination pair (km)
- CO_2/km a standard factor of 0.128 is the amount of CO₂ emitted every km travelled (unit = kg/km)

Table 1 compares the average daily distance travelled by commuters per dwelling

	Site	vehicle km
1	Weston Slopes	11.0
2	Odd Down	11.3
3	Ensleigh Lansdown	11.0
4	West of Twerton	13.9
5	East of Keynsham	15.2
6	South of K2	13.5
7	Uplands	16.3
8	West of Keynsham	12.5
9	Hicks Gate	10.8
10	Whitchurch	16.9

Table 2 summarises the calculated total distant travelled by commuters per day

	Site	Scenario 1	Scenario 2	Scenario 3
1	Weston Slopes	3,152	3,152	3,152
2	Odd Down	3,391	0	0
3	Ensleigh Lansdown	1,314	1,314	1,314
4	East of Keynsham	7,182	10,965	4,637
5	South of K2	2,752	6,158	0
6	Whitchurch	3,339	0	12,817
	Total	21,130	21,588	21,919

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Table 3 compares the average daily CO2 generated by commuter per dwelling

	Site	CO2
1	Weston Slopes	1.40
2	Odd Down	1.45
3	Ensleigh Lansdown	1.40
4	West of Twerton	1.77
5	East of Keynsham	1.95
6	South of K2	1.73
7	Uplands	2.09
8	West of Keynsham	1.60
9	Hicks Gate	1.38
10	Whitchurch	2.16

Table 4 summarises the calculated total CO2 generated by commuters per day

	Site	Scenario 1	Scenario 2	Scenario 3
1	Weston Slopes	403	403	403
2	Odd Down	434	0	0
3	Ensleigh Lansdown	168	168	168
4	East of Keynsham	919	1,404	594
5	South of K2	352	788	0
6	Whitchurch	427	0	1,641
	Total	2,705	2,763	2,806

1.2 Calculation Accidents

Additional accident rate by year is calculated according to traffic flow and default accident rates by road classification (COBA Manual Table 4/1). Below formula is used:

$$Link_{VEH} \times 365 \times Link_{km} \times A_N$$

Where:

- $Link_{VEH}$ is the daily traffic on road (vehicle)
- 365 is the number of days in a year
- $Link_{km}$ is the length of the road (km)
- A_N is the accident rate or number of casualties per accident (Pia/mvkm)

Table 5 shows the accident rates by road type calculated for 2013

Road speed	Road type	Accident per year
50/60/70 mph	D2 Roads	0.100
	S2 Roads	0.146
30/40 mph	D2/S2 Roads	0.245

The calculation looked at accidents on journeys from the development sites to 4 key destinations in the area: Bath, Keynsham, Bristol and South Gloucestershire (NE of Bristol)

Table 6 compares the contribution to road accident by commuter per dwelling

	Site	Accidents (number/year)	Residents	per dwelling
1	Weston Slopes	0.66	300	0.0022
2	Odd Down	0.59	300	0.0020
3	Ensleigh Lansdown	0.25	120	0.0021
4	West of Twerton	0.58	300	0.0019
5	East of Keynsham	1.54	500	0.0031
6	South of K2	1.11	400	0.0028
7	Uplands	0.94	300	0.0031
8	West of Keynsham	0.44	200	0.0022
9	Hicks Gate	1.67	800	0.0021
10	Whitchurch	2.84	800	0.0035

Table 7 shows the number of accidents generated by commuters per year

	Site	Scenario 1	Scenario 2	Scenario 3
1	Weston Slopes	0.63	0.63	0.63
2	Odd Down	0.59	0.00	0.00
3	Ensleigh Lansdown	0.25	0.25	0.25
4	East of Keynsham	1.44	2.21	0.94
5	South of K2	0.56	1.26	0.00
6	Whitchurch	0.70	0.00	2.69
	Total number	4.18	4.35	4.51

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Appendix A. Average distance from site to BANES wards (Veh km per journey)

	Weston Slopes	Odd Down	Ensleigh Lansdown	East of Keynsham	South of K2	Whitchurch	West of Twerton	Uplands	West of Keynsham	Hicks Gate
Abbey	4.20	6.95	3.97	10.96	14.33	18.70	8.88	12.84	14.33	14.79
Bathavon North	7.06	10.11	4.95	13.82	17.19	21.55	12.03	15.70	17.18	17.64
Bathavon South	12.80	8.54	15.52	16.02	19.39	23.76	10.77	17.90	19.38	19.84
Bathavon West	15.59	7.08	16.05	12.77	13.89	15.16	11.10	9.67	13.88	15.96
Bathwick	6.35	7.75	6.12	13.10	16.46	20.83	8.77	14.97	16.46	16.92
Chew Valley North	22.96	24.29	27.53	15.62	12.59	9.66	19.44	14.43	12.45	15.73
Chew Valley South	27.72	29.05	32.42	20.52	17.48	14.55	24.14	19.32	17.34	20.62
Clutton	16.31	13.08	20.21	13.49	12.86	9.93	12.79	10.40	12.71	16.00
Combe Down	7.76	4.07	7.73	12.15	15.52	19.89	6.92	14.03	15.52	15.98
Farmborough	12.43	13.76	16.90	4.03	3.90	5.27	9.69	2.97	3.76	7.23
High Littleton	15.80	10.68	19.70	12.98	14.10	13.82	12.28	9.89	14.10	16.18
Keynsham East	9.46	10.79	13.36	0.31	3.40	7.77	5.88	3.03	3.40	3.86
Keynsham North	13.16	15.22	14.77	4.74	2.82	4.29	10.09	3.83	2.23	1.84
Keynsham South	13.28	13.10	14.89	2.62	0.86	5.61	8.26	3.32	1.26	2.69
Kingsmead	3.86	5.56	3.82	9.79	13.15	17.52	6.24	11.66	13.15	13.61
Lambridge	7.51	8.70	3.40	12.22	15.59	19.96	8.83	14.10	15.59	16.05
Lansdown	3.17	6.84	3.36	9.91	13.27	17.64	6.56	11.78	13.27	13.73
Lyncombe	5.20	3.44	7.52	10.39	13.76	18.13	5.12	12.27	13.75	14.21
Mendip	22.97	18.16	26.87	20.15	17.33	14.40	19.44	17.05	17.18	20.46
Midsomer Norton	20.02	12.98	21.95	19.13	20.51	17.58	18.66	16.03	20.37	22.32
Midsomer Norton	21.96	14.85	23.81	19.14	20.52	17.59	18.41	16.04	20.38	22.33
Newbridge	1.66	7.52	5.69	8.51	11.88	17.80	4.87	10.39	13.24	12.34
Odd Down	7.03	2.24	8.63	9.39	12.75	17.12	4.13	11.26	12.75	13.21
Oldfield	4.74	4.29	7.22	10.10	13.47	17.84	5.17	11.98	13.47	13.93
Paulton	19.60	11.80	23.50	16.78	18.06	15.13	16.06	13.69	17.91	19.98
Peasedown	13.45	6.41	15.38	16.28	19.64	20.80	10.47	15.31	19.64	20.10
Publow and Whitchurch	16.83	18.16	20.73	8.74	5.71	4.12	13.24	7.54	5.56	10.19
Radstock	16.99	9.95	18.92	19.81	19.81	21.32	14.00	15.59	24.11	21.89
Saltford	7.26	8.59	11.16	2.08	5.45	9.82	3.68	5.08	5.44	5.90
Southdown	5.15	4.12	7.40	8.23	11.60	15.97	2.99	10.11	11.59	12.05
Timsbury	13.90	8.94	17.80	11.08	12.20	13.47	10.37	7.98	12.19	14.27
Twerton	3.81	4.95	6.06	7.81	11.18	15.54	2.55	9.68	11.17	11.63
Walcot	4.23	7.29	3.47	11.00	14.36	18.73	9.22	12.87	14.36	14.82
Westfield	19.38	12.34	21.31	18.68	24.20	21.27	16.38	15.58	24.05	21.88
Westmoreland	3.90	4.04	6.15	8.66	12.02	16.39	3.63	10.53	12.02	12.48
Weston	1.88	7.62	6.03	9.51	14.27	18.24	6.17	11.39	13.68	13.33
Widcombe	5.63	5.64	5.19	10.99	14.36	18.73	7.41	12.87	14.35	14.81
Ashley	20.33	22.50	26.19	12.01	12.05	9.06	17.58	14.20	11.46	8.35
Avonmouth	28.77	30.09	33.79	19.61	19.65	16.66	25.10	21.80	19.06	15.95
Bedminster	20.44	21.77	25.46	11.29	11.33	7.33	16.92	13.47	10.74	7.63
Bishopston	21.65	23.84	22.30	13.36	13.39	10.78	19.04	15.54	12.81	9.70
Bishopsworth	21.62	22.95	26.64	12.46	11.48	6.45	18.04	14.65	11.33	8.80
Brislington East	16.39	17.72	21.41	7.24	7.28	6.14	12.82	9.42	6.69	3.58
Brislington West	16.56	17.89	21.58	7.40	7.44	6.30	12.77	9.59	6.85	3.74
Cabot	21.47	22.79	26.49	12.31	12.35	9.36	18.09	14.50	11.76	8.65
Clifton	21.46	22.79	26.48	12.30	12.34	9.35	18.07	14.49	11.75	8.64
Clifton East	21.21	22.53	26.23	12.05	12.09	9.10	17.96	14.23	11.50	8.39
Cotham	22.41	23.74	27.43	13.26	13.29	10.30	18.82	15.44	12.70	9.59
Easton	16.99	20.34	18.60	9.86	9.90	8.76	15.75	12.04	9.31	6.20
Eastville	17.53	21.72	19.31	11.24	12.16	10.14	16.57	12.63	11.57	7.57
Filwood	18.68	20.01	23.70	9.53	9.57	5.87	15.11	11.71	8.98	5.87
Frome Vale	17.28	23.44	17.43	12.96	12.99	12.47	18.48	15.14	12.41	10.29
Hartcliffe	19.45	20.78	24.47	10.29	9.51	4.48	16.03	12.48	9.36	6.63
Henbury	27.77	27.45	27.91	16.97	17.00	15.87	22.66	19.15	16.42	13.31
Hengrove	16.38	17.71	21.40	7.23	8.33	3.30	12.82	9.41	8.19	3.57
Henleaze	22.15	24.44	28.13	13.96	14.00	11.01	19.52	16.14	13.41	10.30
Hillfields	16.21	22.36	16.35	11.88	11.92	14.27	17.21	14.07	11.33	9.22
Horfield	25.40	26.08	25.54	15.60	15.64	13.59	20.64	17.78	15.05	11.94
Kingsweston	27.00	28.33	32.02	17.85	17.89	14.90	23.10	20.03	17.30	14.19
Knowle	17.75	19.07	22.77	8.59	9.96	4.93	14.13	10.77	8.04	4.93
Lawrence Hill	18.03	20.95	20.47	10.47	10.50	9.37	16.13	12.65	9.92	6.80
Lockleaze	19.03	22.25	19.98	11.77	11.81	10.36	18.95	13.96	11.22	8.11
Redland	21.00	23.30	26.99	12.82	12.85	9.86	18.38	15.00	12.27	9.15
St George East	15.52	21.63	16.60	11.15	10.15	11.04	17.01	10.62	9.56	8.48
St George West	16.15	20.34	17.77	9.86	10.78	8.76	15.19	11.25	10.19	6.20
Southmead	27.22	27.28	27.36	16.80	16.84	13.85	22.06	18.98	16.25	13.14
Southville	21.80	23.13	26.82	12.65	12.68	9.69	18.30	14.83	12.10	8.98
Stockwood	15.85	17.90	17.46	7.42	5.50	1.60	13.36	6.51	4.91	4.12
Stoke Bishop	27.02	28.35	32.04	17.87	17.90	14.91	22.46	20.05	17.32	14.20
Westbury-on-Trym	29.09	27.28	29.23	16.80	16.83	13.84	22.29	18.98	16.24	13.13
Whitchurch Park	20.55	21.88	25.57	11.40	9.59	4.56	17.13	13.58	9.45	7.74
Windmill Hill	18.74	20.06	23.76	9.58	9.62	5.68	14.98	11.77	9.03	5.92

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Appendix B. Number of commuter journeys resulted in Scenario 1

	Weston Slopes	Odd Down	Enseigh Lansdown	East of Keynsham	South of K2	Whitchurch	West of Twerton	Uplands	West of Keynsham	Hicks Gate
Abbey	57	61	12	39	13	5	0	0	0	0
Bathavon North	9	5	2	4	0	0	0	0	0	0
Bathavon South	3	5	0	2	0	0	0	0	0	0
Bathavon West	4	6	2	11	1	0	0	0	0	0
Bathwick	27	26	10	6	2	0	0	0	0	0
Chew Valley North	0	0	0	7	1	5	0	0	0	0
Chew Valley South	0	0	0	0	0	2	0	0	0	0
Clutton	2	3	1	0	1	8	0	0	0	0
Combe Down	7	18	4	6	1	2	0	0	0	0
Farmborough	2	3	0	10	5	2	0	0	0	0
High Littleton	2	0	0	0	0	2	0	0	0	0
Keynsham East	2	2	0	129	20	9	0	0	0	0
Keynsham North	4	3	1	64	30	13	0	0	0	0
Keynsham South	4	2	1	33	56	9	0	0	0	0
Kingsmead	26	33	6	17	5	5	0	0	0	0
Lambridge	5	7	2	2	0	0	0	0	0	0
Lansdown	31	20	28	13	4	0	0	0	0	0
Lyncombe	11	21	3	5	1	0	0	0	0	0
Mendip	0	1	0	0	0	0	0	0	0	0
Midsomer Norton	3	7	1	4	3	6	0	0	0	0
Midsomer Norton	2	0	1	2	0	2	0	0	0	0
Newbridge	67	42	13	34	12	5	0	0	0	0
Odd Down	4	55	1	0	2	0	0	0	0	0
Oldfield	4	10	1	4	0	0	0	0	0	0
Paulton	4	0	0	7	1	4	0	0	0	0
Peasedown	0	1	0	0	0	0	0	0	0	0
Publow and Whitchurch	0	0	0	2	1	56	0	0	0	0
Radstock	2	4	0	3	1	0	0	0	0	0
Saltford	3	2	1	16	5	0	0	0	0	0
Southdown	4	4	0	2	0	0	0	0	0	0
Timsbury	0	0	1	2	0	0	0	0	0	0
Twerton	6	8	1	5	1	2	0	0	0	0
Walcot	2	5	1	2	1	0	0	0	0	0
Westfield	4	7	2	4	2	2	0	0	0	0
Westmoreland	19	20	4	3	3	2	0	0	0	0
Weston	76	4	1	0	1	0	0	0	0	0
Widcombe	16	29	9	18	4	2	0	0	0	0
Ashley	2	3	1	10	5	10	0	0	0	0
Avonmouth	4	1	1	10	6	7	0	0	0	0
Bedminster	3	1	1	19	6	16	0	0	0	0
Bishopston	0	1	0	0	1	0	0	0	0	0
Bishopsworth	3	0	0	10	4	11	0	0	0	0
Brislington East	3	1	2	40	17	13	0	0	0	0
Brislington West	4	0	1	28	14	17	0	0	0	0
Cabot	24	9	10	78	16	43	0	0	0	0
Clifton	0	1	1	3	2	2	0	0	0	0
Clifton East	0	1	1	10	2	0	0	0	0	0
Cotham	0	1	1	7	3	5	0	0	0	0
Easton	0	0	1	13	2	2	0	0	0	0
Eastville	0	0	1	4	1	4	0	0	0	0
Filwood	2	3	0	8	2	5	0	0	0	0
Frome Vale	3	0	1	5	3	0	0	0	0	0
Hartcliffe	0	0	0	8	3	6	0	0	0	0
Henbury	0	0	0	2	0	0	0	0	0	0
Hengrove	2	0	0	13	7	22	0	0	0	0
Henleaze	0	0	1	0	0	0	0	0	0	0
Hillfields	2	1	0	9	4	6	0	0	0	0
Horfield	2	1	0	3	2	3	0	0	0	0
Kingsweston	0	0	0	0	1	0	0	0	0	0
Knowle	0	0	0	6	1	7	0	0	0	0
Lawrence Hill	3	8	2	66	24	40	0	0	0	0
Lockleaze	0	0	0	6	2	3	0	0	0	0
Redland	0	0	0	0	0	3	0	0	0	0
St George East	2	0	1	4	0	0	0	0	0	0
St George West	2	1	0	2	3	4	0	0	0	0
Southmead	0	0	0	2	0	0	0	0	0	0
Southville	0	0	1	10	4	9	0	0	0	0
Stockwood	0	0	0	7	0	7	0	0	0	0
Stoke Bishop	0	1	0	0	0	0	0	0	0	0
Westbury-on-Trym	0	0	1	0	2	0	0	0	0	0
Whitchurch Park	0	0	1	12	6	13	0	0	0	0
Windmill Hill	0	1	0	2	2	5	0	0	0	0

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Appendix C. Number of commuter journeys resulted in Scenario 2

	Weston Slopes	Odd Down	Enseigh Lansdown	East of Keynsham	South of K2	Whitchurch	West of Twerton	Uplands	West of Keynsham	Hicks Gate
Abbey	57	0	12	59	28	0	0	0	0	0
Bathavon North	9	0	2	7	0	0	0	0	0	0
Bathavon South	3	0	0	3	0	0	0	0	0	0
Bathavon West	4	0	2	17	2	0	0	0	0	0
Bathwick	27	0	10	9	5	0	0	0	0	0
Chew Valley North	0	0	0	11	3	0	0	0	0	0
Chew Valley South	0	0	0	0	0	0	0	0	0	0
Clutton	2	0	1	0	2	0	0	0	0	0
Combe Down	7	0	4	9	3	0	0	0	0	0
Farmborough	2	0	0	16	11	0	0	0	0	0
High Littleton	2	0	0	0	0	0	0	0	0	0
Keynsham East	2	0	0	197	45	0	0	0	0	0
Keynsham North	4	0	1	98	68	0	0	0	0	0
Keynsham South	4	0	1	50	126	0	0	0	0	0
Kingsmead	26	0	6	26	11	0	0	0	0	0
Lambridge	5	0	2	3	0	0	0	0	0	0
Lansdown	31	0	28	21	10	0	0	0	0	0
Lyncombe	11	0	3	8	2	0	0	0	0	0
Mendip	0	0	0	0	0	0	0	0	0	0
Midsomer Norton	3	0	1	7	7	0	0	0	0	0
Midsomer Norton	2	0	1	3	0	0	0	0	0	0
Newbridge	67	0	13	52	26	0	0	0	0	0
Odd Down	4	0	1	0	5	0	0	0	0	0
Oldfield	4	0	1	7	0	0	0	0	0	0
Paulton	4	0	0	11	2	0	0	0	0	0
Peasedown	0	0	0	0	0	0	0	0	0	0
Publow and Whitchurch	0	0	0	3	2	0	0	0	0	0
Radstock	2	0	0	5	2	0	0	0	0	0
Saltford	3	0	1	24	12	0	0	0	0	0
Southdown	4	0	0	3	0	0	0	0	0	0
Timsbury	0	0	1	3	0	0	0	0	0	0
Twerton	6	0	1	8	2	0	0	0	0	0
Walcot	2	0	1	3	2	0	0	0	0	0
Westfield	4	0	2	6	4	0	0	0	0	0
Westmoreland	19	0	4	5	7	0	0	0	0	0
Weston	76	0	1	0	2	0	0	0	0	0
Widcombe	16	0	9	27	8	0	0	0	0	0
Ashley	2	0	1	15	11	0	0	0	0	0
Avonmouth	4	0	1	15	14	0	0	0	0	0
Bedminster	3	0	1	30	14	0	0	0	0	0
Bishopston	0	0	0	0	2	0	0	0	0	0
Bishopsworth	3	0	0	15	9	0	0	0	0	0
Brislington East	3	0	2	60	38	0	0	0	0	0
Brislington West	4	0	1	42	32	0	0	0	0	0
Cabot	24	0	10	118	37	0	0	0	0	0
Clifton	0	0	1	5	5	0	0	0	0	0
Clifton East	0	0	1	15	5	0	0	0	0	0
Cotham	0	0	1	11	7	0	0	0	0	0
Easton	0	0	1	19	5	0	0	0	0	0
Eastville	0	0	1	6	2	0	0	0	0	0
Filwood	2	0	0	13	4	0	0	0	0	0
Frome Vale	3	0	1	8	7	0	0	0	0	0
Hartcliffe	0	0	0	13	7	0	0	0	0	0
Henbury	0	0	0	3	0	0	0	0	0	0
Hengrove	2	0	0	19	16	0	0	0	0	0
Henleaze	0	0	1	0	0	0	0	0	0	0
Hillfields	2	0	0	14	10	0	0	0	0	0
Horfield	2	0	0	5	5	0	0	0	0	0
Kingsweston	0	0	0	0	2	0	0	0	0	0
Knowle	0	0	0	9	2	0	0	0	0	0
Lawrence Hill	3	0	2	101	53	0	0	0	0	0
Lockleaze	0	0	0	9	4	0	0	0	0	0
Redland	0	0	0	0	0	0	0	0	0	0
St George East	2	0	1	7	0	0	0	0	0	0
St George West	2	0	0	3	7	0	0	0	0	0
Southmead	0	0	0	3	0	0	0	0	0	0
Southville	0	0	1	16	9	0	0	0	0	0
Stockwood	0	0	0	10	0	0	0	0	0	0
Stoke Bishop	0	0	0	0	0	0	0	0	0	0
Westbury-on-Trym	0	0	1	0	5	0	0	0	0	0
Whitchurch Park	0	0	1	18	12	0	0	0	0	0
Windmill Hill	0	0	0	3	5	0	0	0	0	0

Subject Mileage, CO2 and Road Traffic Accidents

Date February 2013

Job No/Ref

229042-00

Appendix D. Number of commuter journeys resulted in Scenario 2

	Weston Slopes	Odd Down	Enseigh Lansdown	East of Keynsham	South of K2	Whitchurch	West of Twerton	Uplands	West of Keynsham	Hicks Gate
Abbey	57	0	12	25	0	21	0	0	0	0
Bathavon North	9	0	2	3	0	0	0	0	0	0
Bathavon South	3	0	0	1	0	0	0	0	0	0
Bathavon West	4	0	2	7	0	0	0	0	0	0
Bathwick	27	0	10	4	0	0	0	0	0	0
Chew Valley North	0	0	0	5	0	18	0	0	0	0
Chew Valley South	0	0	0	0	0	8	0	0	0	0
Clutton	2	0	1	0	0	31	0	0	0	0
Combe Down	7	0	4	4	0	8	0	0	0	0
Farmborough	2	0	0	7	0	8	0	0	0	0
High Littleton	2	0	0	0	0	8	0	0	0	0
Keynsham East	2	0	0	83	0	33	0	0	0	0
Keynsham North	4	0	1	41	0	51	0	0	0	0
Keynsham South	4	0	1	21	0	36	0	0	0	0
Kingsmead	26	0	6	11	0	18	0	0	0	0
Lambridge	5	0	2	1	0	0	0	0	0	0
Lansdown	31	0	28	9	0	0	0	0	0	0
Lyncombe	11	0	3	3	0	0	0	0	0	0
Mendip	0	0	0	0	0	0	0	0	0	0
Midsomer Norton	3	0	1	3	0	23	0	0	0	0
Midsomer Norton	2	0	1	1	0	8	0	0	0	0
Newbridge	67	0	13	22	0	21	0	0	0	0
Odd Down	4	0	1	0	0	0	0	0	0	0
Oldfield	4	0	1	3	0	0	0	0	0	0
Paulton	4	0	0	5	0	15	0	0	0	0
Peasedown	0	0	0	0	0	0	0	0	0	0
Publow and Whitchurch	0	0	0	1	0	213	0	0	0	0
Radstock	2	0	0	2	0	0	0	0	0	0
Saltford	3	0	1	10	0	0	0	0	0	0
Southdown	4	0	0	1	0	0	0	0	0	0
Timsbury	0	0	1	1	0	0	0	0	0	0
Twerton	6	0	1	3	0	8	0	0	0	0
Walcot	2	0	1	1	0	0	0	0	0	0
Westfield	4	0	2	2	0	8	0	0	0	0
Westmoreland	19	0	4	2	0	8	0	0	0	0
Weston	76	0	1	0	0	0	0	0	0	0
Widcombe	16	0	9	12	0	8	0	0	0	0
Ashley	2	0	1	6	0	39	0	0	0	0
Avonmouth	4	0	1	6	0	28	0	0	0	0
Bedminster	3	0	1	13	0	62	0	0	0	0
Bishopston	0	0	0	0	0	0	0	0	0	0
Bishopsworth	3	0	0	6	0	41	0	0	0	0
Brislington East	3	0	2	26	0	51	0	0	0	0
Brislington West	4	0	1	18	0	64	0	0	0	0
Cabot	24	0	10	50	0	165	0	0	0	0
Clifton	0	0	1	2	0	8	0	0	0	0
Clifton East	0	0	1	6	0	0	0	0	0	0
Cotham	0	0	1	5	0	21	0	0	0	0
Easton	0	0	1	8	0	8	0	0	0	0
Eastville	0	0	1	2	0	15	0	0	0	0
Filwood	2	0	0	5	0	18	0	0	0	0
Frome Vale	3	0	1	3	0	0	0	0	0	0
Hartcliffe	0	0	0	5	0	23	0	0	0	0
Henbury	0	0	0	1	0	0	0	0	0	0
Hengrove	2	0	0	8	0	85	0	0	0	0
Henleaze	0	0	1	0	0	0	0	0	0	0
Hillfields	2	0	0	6	0	23	0	0	0	0
Horfield	2	0	0	2	0	13	0	0	0	0
Kingsweston	0	0	0	0	0	0	0	0	0	0
Knowle	0	0	0	4	0	28	0	0	0	0
Lawrence Hill	3	0	2	43	0	154	0	0	0	0
Lockleaze	0	0	0	4	0	10	0	0	0	0
Redland	0	0	0	0	0	13	0	0	0	0
St George East	2	0	1	3	0	0	0	0	0	0
St George West	2	0	1	1	0	15	0	0	0	0
Southmead	0	0	0	1	0	0	0	0	0	0
Southville	0	0	1	7	0	33	0	0	0	0
Stockwood	0	0	0	4	0	28	0	0	0	0
Stoke Bishop	0	0	0	0	0	0	0	0	0	0
Westbury-on-Trym	0	0	1	0	0	0	0	0	0	0
Whitchurch Park	0	0	1	8	0	49	0	0	0	0
Windmill Hill	0	0	0	1	0	21	0	0	0	0