

Transport Modelling

Appendices

Appendix D1. NTEM growth factors

D.1.1. Growth factors for 2021 Future Year

Table D-1 – Growth factors for car

Description	Work		Commute		Other	
	Origin (AM)	Destination (PM)	Origin (AM)	Destination (PM)	Origin (AM)	Destination (PM)
Slough	1.05	1.04	1.04	1.04	1.06	1.05
South Bucks	1.02	1.02	1.00	1.00	1.04	1.04
Windsor and Maidenhead	1.03	1.03	1.01	1.01	1.05	1.04
Runnymede	1.03	1.03	1.02	1.02	1.05	1.05
Spelthorne	1.03	1.03	1.02	1.02	1.05	1.05
Hillingdon	1.04	1.04	1.03	1.03	1.06	1.05
Chiltern	1.01	1.01	1.00	0.99	1.04	1.03
Wycombe	1.03	1.03	1.02	1.02	1.05	1.05
Bracknell Forest	1.03	1.03	1.02	1.02	1.05	1.05
Aylesbury Vale	1.05	1.05	1.04	1.04	1.07	1.07
Hertfordshire	1.03	1.03	1.03	1.02	1.06	1.06
Outer London (incl Bexley)	1.04	1.05	1.05	1.05	1.08	1.07
Inner London	1.06	1.06	1.08	1.07	1.10	1.08
Surrey (Rest of)	1.02	1.02	1.01	1.01	1.05	1.05
Hampshire	1.05	1.04	1.04	1.04	1.06	1.05
Wokingham	1.06	1.06	1.06	1.06	1.08	1.08
Reading	1.06	1.05	1.06	1.05	1.07	1.06
West Berkshire	1.03	1.03	1.01	1.01	1.05	1.05
Oxfordshire	1.05	1.05	1.06	1.05	1.08	1.07
Milton Keynes	1.05	1.05	1.04	1.04	1.08	1.07
South East (Rest of - north east)	1.04	1.04	1.03	1.03	1.07	1.06
South East (Rest of - south centre)	1.04	1.04	1.04	1.03	1.05	1.05
South East (Rest of - south west)	1.04	1.04	1.03	1.03	1.06	1.05
East of England (Rest of)	1.04	1.04	1.03	1.03	1.06	1.06
South West	1.04	1.03	1.03	1.03	1.05	1.04
Wales	1.03	1.03	1.02	1.02	1.04	1.04
West Midlands	1.04	1.04	1.04	1.03	1.06	1.05
East Midlands	1.03	1.03	1.03	1.02	1.05	1.04
North West/North East/Yorkshire	1.04	1.04	1.04	1.03	1.05	1.04
Scotland	1.04	1.04	1.03	1.03	1.04	1.04
Heathrow	1.05	1.05	1.05	1.05	1.05	1.05

Table D-2 – Growth factors for bus

Description	Work		Commute		Other	
	Origin (AM)	Destination (PM)	Origin (AM)	Destination (PM)	Origin (AM)	Destination (PM)
Slough	0.91	0.90	0.91	0.90	0.94	0.95
South Bucks	0.92	0.93	0.91	0.91	0.98	0.97
Windsor and Maidenhead	0.94	0.93	0.92	0.92	0.98	0.97
Runnymede	0.95	0.94	0.93	0.93	0.97	0.97
Spelthorne	0.96	0.95	0.94	0.94	0.98	0.98
Hillingdon	0.95	0.95	0.94	0.93	0.97	0.97
Chiltern	0.93	0.91	0.91	0.91	0.97	0.96
Wycombe	0.92	0.92	0.92	0.92	0.97	0.97
Bracknell Forest	0.94	0.94	0.94	0.94	0.99	0.98
Aylesbury Vale	0.95	0.96	0.95	0.95	1.01	1.00
Hertfordshire	0.94	0.94	0.93	0.93	0.99	0.99
Outer London (incl Bexley)	0.96	0.97	0.96	0.95	0.99	0.99
Inner London	1.00	1.01	1.02	1.01	1.01	1.02
Surrey (Rest of)	0.95	0.94	0.93	0.93	0.98	0.98
Hampshire	0.95	0.96	0.97	0.96	0.99	0.98
Wokingham	0.97	0.99	0.99	0.99	1.03	1.02
Reading	0.92	0.93	0.94	0.94	0.98	0.97
West Berkshire	0.95	0.95	0.93	0.93	0.99	0.99
Oxfordshire	0.93	0.94	0.95	0.94	0.99	0.99
Milton Keynes	0.95	0.96	0.94	0.94	1.00	1.00
South East (Rest of - north east)	0.92	0.94	0.93	0.93	0.99	0.99
South East (Rest of - south centre)	0.95	0.95	0.96	0.96	0.98	0.98
South East (Rest of - south west)	0.96	0.96	0.96	0.96	0.99	0.99
East of England (Rest of)	0.96	0.96	0.95	0.95	1.00	1.00
South West	0.93	0.94	0.94	0.94	0.98	0.97
Wales	0.94	0.94	0.94	0.94	0.98	0.97
West Midlands	0.94	0.95	0.95	0.94	0.98	0.97
East Midlands	0.93	0.93	0.94	0.94	0.98	0.98
North West/North East/Yorkshire	0.93	0.93	0.94	0.94	0.96	0.96
Scotland	0.94	0.94	0.94	0.94	0.97	0.97
Heathrow	1.05	1.05	1.05	1.05	1.05	1.05

D.1.2. Growth factors for 2036 Future Year

Table D-3 – Growth factors for car

Description	Work		Commute		Other	
	Origin (AM)	Destination (PM)	Origin (AM)	Destination (PM)	Origin (AM)	Destination (PM)
Slough	1.14	1.13	1.13	1.12	1.16	1.17
South Bucks	1.04	1.05	0.99	0.99	1.11	1.13
Windsor and Maidenhead	1.07	1.07	1.03	1.03	1.13	1.14
Runnymede	1.11	1.11	1.10	1.09	1.17	1.18
Spelthorne	1.08	1.09	1.07	1.07	1.15	1.16
Hillingdon	1.10	1.11	1.08	1.08	1.16	1.17
Chiltern	1.00	1.02	0.95	0.95	1.07	1.09
Wycombe	1.09	1.09	1.07	1.06	1.16	1.16
Bracknell Forest	1.09	1.09	1.06	1.06	1.15	1.16
Aylesbury Vale	1.18	1.17	1.19	1.18	1.27	1.26
Hertfordshire	1.08	1.08	1.05	1.05	1.18	1.19
Outer London (incl Bexley)	1.13	1.14	1.14	1.14	1.22	1.22
Inner London	1.19	1.17	1.22	1.22	1.30	1.27
Surrey (Rest of)	1.07	1.07	1.04	1.04	1.15	1.16
Hampshire	1.12	1.12	1.10	1.09	1.17	1.17
Wokingham	1.20	1.19	1.21	1.20	1.27	1.26
Reading	1.17	1.16	1.17	1.16	1.22	1.21
West Berkshire	1.08	1.08	1.04	1.04	1.15	1.16
Oxfordshire	1.16	1.15	1.15	1.14	1.23	1.22
Milton Keynes	1.17	1.15	1.17	1.16	1.27	1.26
South East (Rest of - north east)	1.10	1.10	1.07	1.07	1.20	1.20
South East (Rest of - south centre)	1.13	1.13	1.11	1.11	1.17	1.17
South East (Rest of - south west)	1.12	1.11	1.10	1.09	1.16	1.17
East of England (Rest of)	1.11	1.11	1.09	1.09	1.22	1.21
South West	1.11	1.11	1.10	1.09	1.16	1.15
Wales	1.11	1.10	1.09	1.08	1.10	1.10
West Midlands	1.14	1.13	1.14	1.13	1.18	1.17
East Midlands	1.11	1.11	1.10	1.09	1.15	1.15
North West/North East/Yorkshire	1.13	1.12	1.12	1.10	1.13	1.13
Scotland	1.13	1.13	1.12	1.10	1.14	1.13
Heathrow	1.74	1.74	1.74	1.74	1.74	1.74

Table D-4 – Growth factors for bus

Description	Work		Commute		Other	
	Origin (AM)	Destination (PM)	Origin (AM)	Destination (PM)	Origin (AM)	Destination (PM)
Slough	0.86	0.86	0.86	0.87	0.96	0.96
South Bucks	0.88	0.86	0.84	0.85	0.99	1.00
Windsor and Maidenhead	0.88	0.87	0.84	0.85	0.98	0.99
Runnymede	0.94	0.92	0.91	0.91	1.00	1.02
Spelthorne	0.92	0.90	0.88	0.88	0.98	1.00
Hillingdon	0.93	0.94	0.93	0.92	0.99	1.01
Chiltern	0.87	0.82	0.78	0.80	0.94	0.95
Wycombe	0.87	0.88	0.86	0.86	1.01	1.00
Bracknell Forest	0.90	0.89	0.89	0.89	1.02	1.02
Aylesbury Vale	0.95	0.97	0.94	0.95	1.13	1.12
Hertfordshire	0.89	0.90	0.85	0.86	1.03	1.05
Outer London (incl Bexley)	0.96	0.98	0.95	0.95	1.03	1.06
Inner London	1.06	1.07	1.08	1.07	1.11	1.14
Surrey (Rest of)	0.91	0.90	0.86	0.87	1.00	1.02
Hampshire	0.89	0.90	0.90	0.90	1.00	0.99
Wokingham	1.02	1.02	1.03	1.04	1.14	1.14
Reading	0.87	0.88	0.88	0.87	1.00	0.99
West Berkshire	0.89	0.88	0.85	0.86	1.01	1.02
Oxfordshire	0.88	0.90	0.89	0.89	1.05	1.05
Milton Keynes	0.95	0.97	0.92	0.93	1.10	1.13
South East (Rest of - north east)	0.88	0.90	0.85	0.86	1.03	1.06
South East (Rest of - south centre)	0.87	0.88	0.88	0.88	0.97	0.97
South East (Rest of - south west)	0.88	0.89	0.88	0.88	0.99	0.99
East of England (Rest of)	0.91	0.93	0.89	0.90	1.07	1.07
South West	0.86	0.87	0.87	0.87	0.99	0.98
Wales	0.84	0.85	0.86	0.86	0.93	0.92
West Midlands	0.90	0.90	0.90	0.89	0.97	0.95
East Midlands	0.85	0.86	0.86	0.86	0.98	0.96
North West/North East/Yorkshire	0.84	0.85	0.86	0.85	0.91	0.90
Scotland	0.82	0.82	0.84	0.83	0.92	0.90
Heathrow	1.74	1.74	1.74	1.74	1.74	1.74

Appendix D2. SMMTM Public Transport Services

D.2.1. Bus services in the SMMTM public transport model

Table D-5 - Bus services and headway times coded into the SMMTM public transport model

Service	Operator	Description	Direction	Headway (mins)		
				AM (0700-1000)	IP (1000-1600)	PM (1600-1900)
74_I	Arriva	High Wycombe-Slough	Inbound	60	60	60
74_O	Arriva	Slough-High Wycombe	Outbound	60	60	60
305_A	BearBuses	Staines-Colnbrook(H)	Northbound	90	72	90
305_B	BearBuses	Colnbrook-Staines(H)	Southbound	-	90	-
305_C	BearBuses	Colnbrook-Staines(P)	Southbound	-	-	90
305_D	BearBuses	Staines-Colnbrook(P)	Northbound	90	-	90
702_E	BusDummy	Bracknell - London Victoria	Eastbound	60	60	60
702_W	BusDummy	London Victoria - Bracknell	Westbound	90	60	60
15_I	Courtney	Eton - Slough	Inbound	60	60	60
15_O	Courtney	Slough - Eton	Outbound	60	60	60
16_E	Courtney	Maidenhead-Windsor	Eastbound	60	90	90
16_W	Courtney	Windsor-Maidenhead	Westbound	-	72	90
16AE	Courtney	Maidenhead-Windsor	Eastbound	90	120	60
16AW	Courtney	Windsor-Maidenhead	Westbound	60	120	60
53_E	Courtney	Bracknell - Wexham	Eastbound	60	60	60
53_W	Courtney	Wexham - Bracknell	Westbound	60	60	60
1_I	First	Britwell - Slough	Inbound	15	15	15
1_O	First	Slough-Britwell	Outbound	15	15	15
10_I	First	Heathrow-Slough	Inbound	90	72	60
10_K	First	Slough-Datchet	Outbound	90	-	-
10_L	First	Datchet - Slough	Inbound	-	180	-
10_O	First	Slough-Heathrow	Outbound	60	72	60
11_I	First	Heathrow T5 - Slough	Inbound	90	-	-
11_O	First	Slough - Heathrow T5	Outbound	-	180	-
12_I	First	Priory Estate-Slough	Inbound	30	30	-
12_O	First	Slough-Priory Estate	Outbound	60	30	30
13_I	First	Britwell - Slough	Inbound	-	-	30
13_O	First	Slough - Britwell	Outbound	36	-	-
2_I	First	Dedworth - Slough	Inbound	30	30	30
2_O	First	Slough - Dedworth	Outbound	30	30	30

Service	Operator	Description	Direction	Headway (mins)		
				AM (0700- 1000)	IP (1000- 1600)	PM (1600- 1900)
200_I	First	Legoland - Windsor	Inbound	-	30	60
200_O	First	Windsor - Legoland	Outbound	-	60	60
3_I	First	Iver Heath - Slough	Inbound	36	30	36
3_O	First	Slough - Iver Heath	Outbound	36	30	30
4_I	First	Maidenhead - Slough	Inbound	36	30	30
4_O	First	Slough - Maidenhead	Outbound	30	30	36
5_I	First	Cippenham - Slough	Inbound	45	30	30
5_O	First	Slough - Cippenham	Outbound	36	30	30
6_I	First	Knolton Way - Slough	Inbound	20	20	20
6_O	First	Slough - Knolton Way	Outbound	20	20	20
7_I	First	Heathrow - Slough	Inbound	12.86	10	10
7_O	First	Slough - Heathrow	Outbound	11.25	10	11.25
8_I	First	Heathrow - Slough	Inbound	45	30	30
8_O	First	Slough - Heathrow	Outbound	30	30	36
X74_I	First	High Wycombe-Slough	Inbound	36	30	30
X74_O	First	Slough-High Wycombe	Outbound	30	30	36
81_I	London Underground	Hounslow - Slough	Inbound	12	12	11.25
81_O	London Underground	Slough - Hounslow	Outbound	12	12	13.85
335_I	Redline	Chalfont Common-Slough	Inbound	-	90	-
335_O	Redline	Slough-Chalfont Common	Outbound	-	90	-
335_P	Redline	Slough-Chalfont Common	Outbound	90	-	60
335_Q	Redline	Chalfont Common-Slough	Inbound	60	-	90
353_I	Redline	Amersham - Slough	Inbound	90	90	90
353_O	Redline	Slough - Amersham	Outbound	90	90	90
583_A	Redline	Slough - Uxbridge	Outbound	90	-	-
583_B	Redline	Hedgerley - Slough	Inbound	90	-	-
583_I	Redline	Slough - Uxbridge	Outbound	-	120	-
583_J	Redline	Uxbridge - Slough	Inbound	-	180	90
583_K	Redline	Langley - Slough	Inbound	-	180	-
583_P	Redline	Slough - Wexham	Outbound	-	-	90
WP1_I	Redline	Wexham Park - Slough	Inbound	20	20	20
WP1_O	Redline	Slough - Wexham Park	Outbound	20	20	20
1B_N	Whitebuses	Ascot - Windsor	Northbound	60	72	90
1B_S	Whitebuses	Windsor - Ascot	Southbound	60	90	60
P1_C	Whitebuses	Windsor - Home Park	Circular	20	20	20

Service	Operator	Description	Direction	Headway (mins)		
				AM (0700-1000)	IP (1000-1600)	PM (1600-1900)
W1_C	Whitebuses	Windsor - Clewer	Circular	-	60	-

D.2.2. Rail services in the SMMTM public transport model

Table D-6 - Rail services and headway times coded into SMMTM public transport model

Service	Operator	Description	Headway (mins)		
			AM (0700-1000)	IP (1000-1600)	PM (1600-1900)
GW_C1	GW	London-Reading (exp.)	30	-	-
GW_C4	GW	London-Reading (exp.)	-	30	-
GW_C8	GW	London-Twyford (exp.)	-	-	30
GW_C9	GW	London-Maidenhead (exp.)	-	-	60
GW_E1	GW	Reading-London (reg.)	30	-	-
GW_E2	GW	Maidenhead-London (reg.)	30	-	-
GW_E3	GW	Maidenhead-London (reg.)	60	-	-
GW_E4	GW	Reading-London (reg.)	-	30	-
GW_E5	GW	Reading-London (reg.)	-	30	-
GW_E6	GW	Reading-London (reg.)	-	-	30
GW_E7	GW	Reading-London (reg.)	-	-	30
GW_E8	GW	Maidenhead-London (reg.)	-	-	180
GW_L8	GW	Reading-London (exp.)	-	30	-
GW_L9	GW	Reading-London (exp.)	-	-	30
GW_N1	GW	Twyford-Henley-Marlow-Maidenhead	45	30	36
GW_N2	GW	Maidenhead-Marlow-Henley-Twyford	36	60	36
GW_N3	GW	Windsor-Slough	20	20	20
GW_S1	GW	Twyford-Henley-Marlow-Maidenhead	36	30	36
GW_S2	GW	Maidenhead-Marlow-Henley-Twyford	36	60	36
GW_S3	GW	Slough-Windsor	20	20	20
GW_W1	GW	London-Reading (reg.)	180	-	-
GW_W2	GW	London-Reading (reg.)	60	-	-
GW_W3	GW	London-Maidenhead (reg.)	60	-	-
GW_W4	GW	London-Reading (reg.)	30	-	-
GW_W5	GW	London-Reading (reg.)	-	30	-
GW_W6	GW	London-Reading (reg.)	-	30	-
GW_W7	GW	London-Reading (reg.)	-	-	30
GW_W8	GW	London-Reading (reg.)	-	-	60
GW_W9	GW	London-Maidenhead (reg.)	-	-	60

Service	Operator	Description	Headway (mins)		
			AM (0700- 1000)	IP (1000- 1600)	PM (1600- 1900)
GWC10	GW	London-Maidenhead (exp.)	-	-	60
HC_E1	HC	Heathrow T123-Paddington	30	30	30
HC_W1	HC	Paddington-Heathrow T123	30	30	30
HX_E1	HX	Heathrow T5-Paddington	15	15	15
HX_W1	HX	Paddington-Heathrow T5	15	15	15
SW_E1	SW	Windsor - London Waterloo	30	30	30
SW_W1	SW	London Waterloo - Windsor	30	30	30