

Land-Use and Transport Integration in Scotland (LATIS)

TMfS:07 National Public Transport Model Calibration and Validation Report

Report for Transport Scotland - Appendices

October 2009



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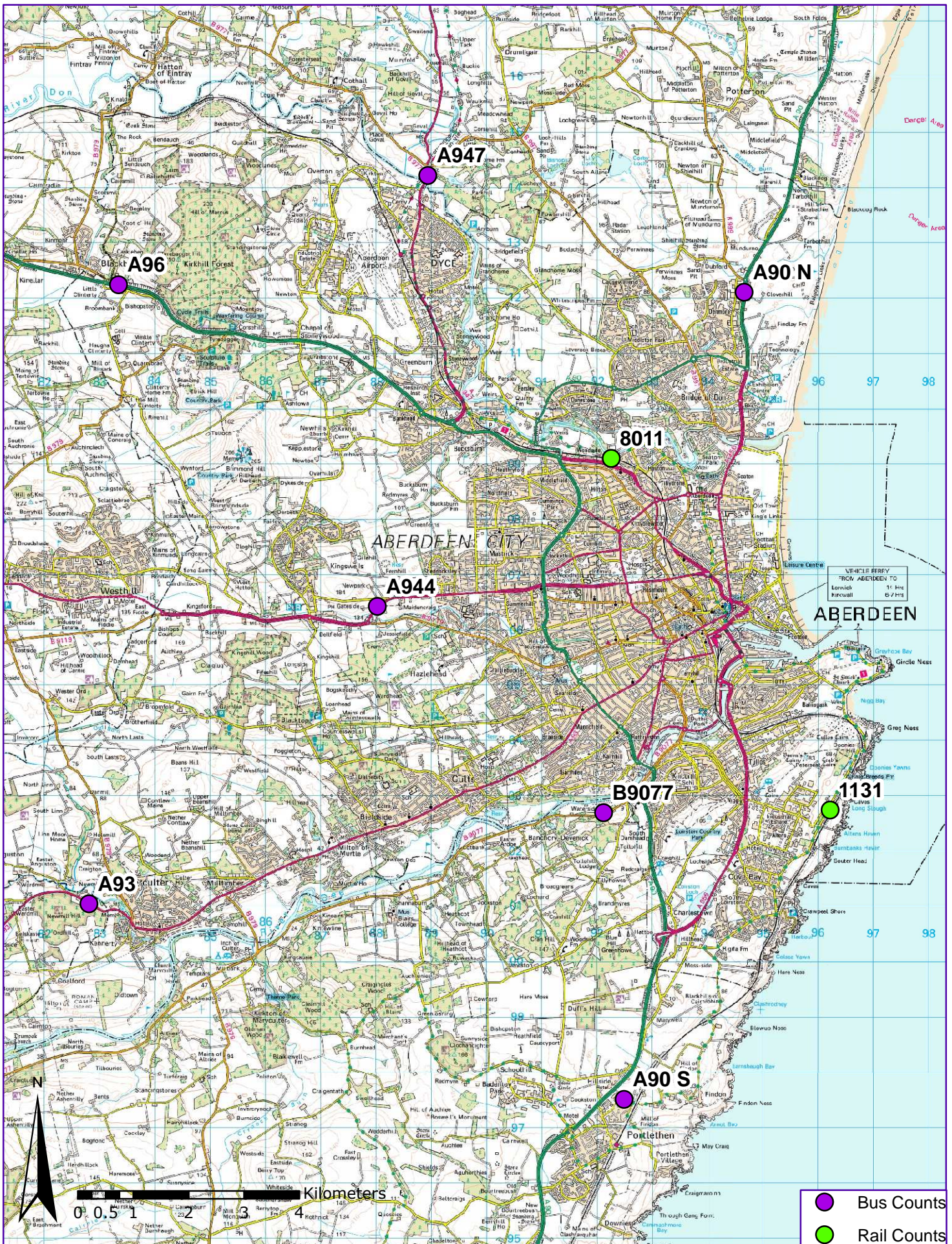
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1	26/01/09	David Connolly	Draft for Internal Review
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Appendix A –Bus and Rail Count Locations



TMFS.07 Model Development

Title
Aberdeen Count Locations

Not to Scale

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January 2009

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Figure A1

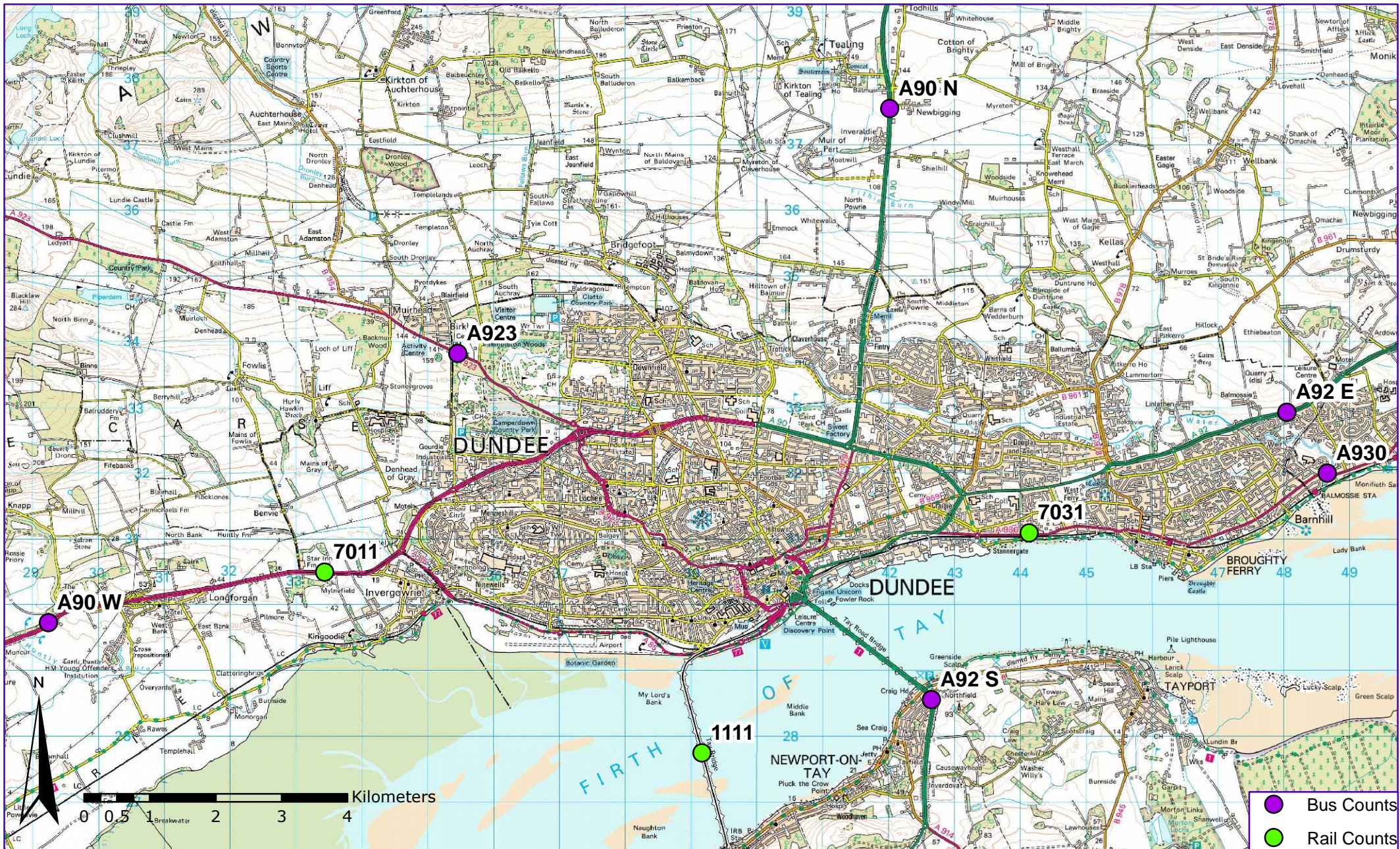
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Aberdeen Cordon Count Locations

Map Ref.	Mode	Station/Road Name
8011	Rail	Aberdeen to Dyce
1131	Rail	Portlethen to Aberdeen
A96	Bus	A96 (at Blackburn)
A947	Bus	A947 (at Dyce Drive)
A90 N	Bus	A90 North (by Denmore)
A90 S	Bus	A90 South (nr A956 Junction)
A93	Bus	A93 (west of Peterculter)
A944	Bus	A944 (by Old Skene Rd)

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- Bus Counts
- Rail Counts

TMFS:07 Model Development

Title
Dundee Count Locations



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Figure
A2

Not to Scale



Dundee Cordon Count Locations

Map Ref.	Mode	Station/Road Name
7011	Rail	Invergowrie to Dundee
1111	Rail	Leuchars to Dundee
7031	Rail	Balmossie to Monifieth
A90 W	Bus	A90 West
A923	Bus	A923 (East of Birkhill)
A90 N	Bus	A90 North (at Fintry)
A92 E	Bus	A92 East (West of W Grange Rd Roundabout)
A930	Bus	A930 (West of Grange Rd South)
A92 S	Bus	A92 South (Tay Bridge)

Office: #Location# Drawn: #INIT# Date: #Date Of Creation# Revised: #RR# Client: #Client# File Path: #File Path#



- Bus Counts
- Rail Counts

TMFS:07 Model Development

Title
Edinburgh Count Locations



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Figure
A3

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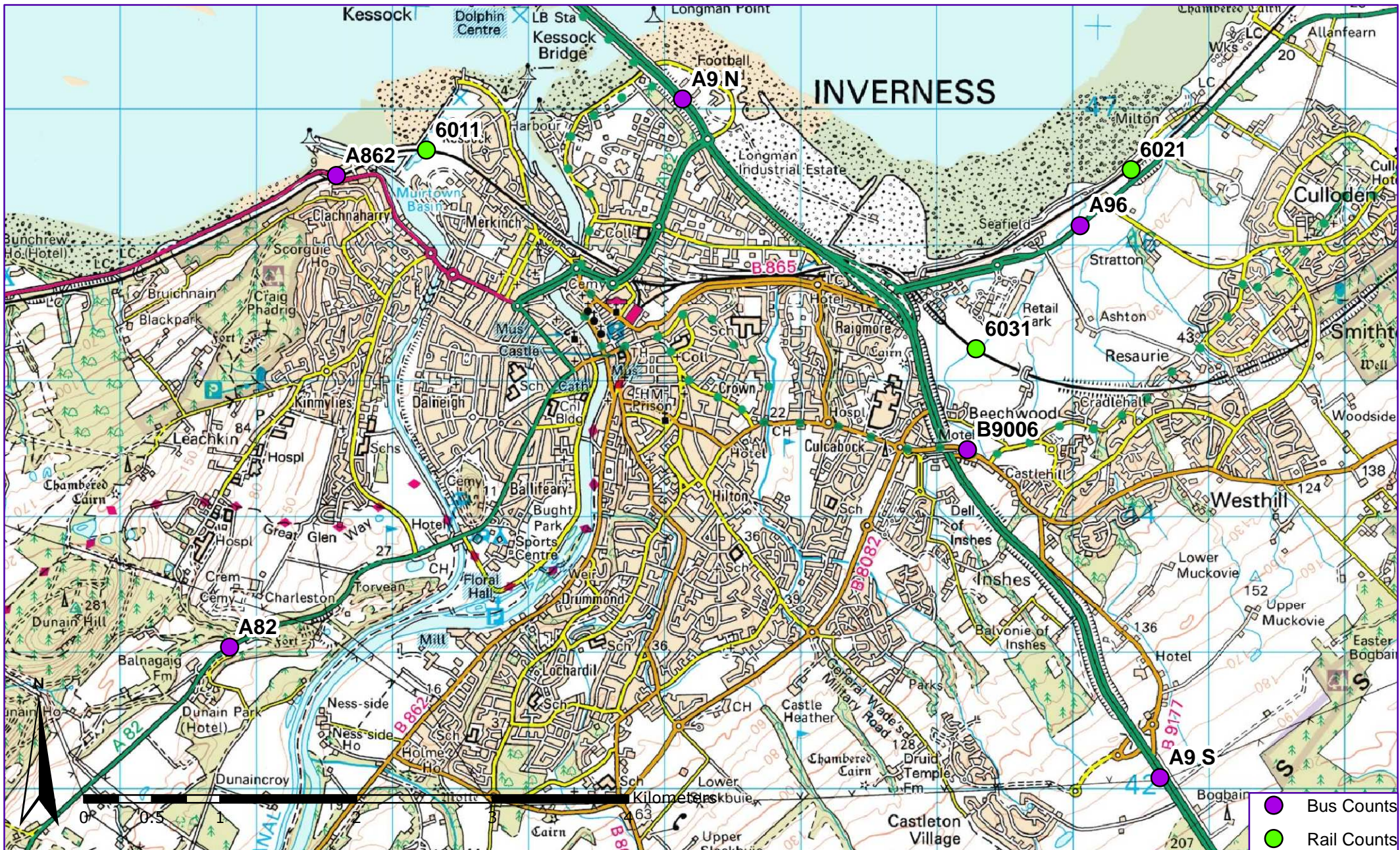
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Edinburgh Cordon Count Locations

Map Ref.	Mode	Station/Road Name
4111	Rail	South Gyle to Dalmeny
4121	Rail	West of Edinburgh Park
4131	Rail	Wester Hailes to Curriehill
4141	Rail	Brunstane to Newcraighall
4151	Rail	West of Musselburgh
A90	Bus	A90 (at South Queensferry)
A8	Bus	A8 (West of Airport)
M8	Bus	M8 (at Hermiston Gait Roundabout)
A71	Bus	A71 (at Hermiston House Rd)
A702	Bus	A702 (South of City Bypass)
A701	Bus	A701 (South of B702 Junction)
Lasswade Rd	Bus	Lasswade Road (South of City Bypass)
Gimerton Rd	Bus	Gimerton Road (South of City Bypass)
A7/A68	Bus	A7/A68 (South of Danderhall)
A1	Bus	A1 (South of The Jewel)
Newcraighall Rd	Bus	Newcraighall Road (by Clayknowes Cres)
A199	Bus	A199 (West of B6415 Junction)

Glasgow Cordon Count Locations

Map Ref.	Mode	Station Name
1012	Rail	West of Bishopbriggs
5121	Rail	Springburn to Stepps
5131	Rail	Easterhouse to Blairhill
5141	Rail	Baillieston to Bargeddie
5151	Rail	Cambuslang to Newton
5161	Rail	Kirkhill to Newton
5171	Rail	Giffnock to Clarkston
5181	Rail	Muirend to Williamwood
5191	Rail	Kennishead to Priesthill & Darnley
5201	Rail	Mossspark to Crookston
5211	Rail	Hillington East to Hillington West
5221	Rail	Garscadden to Yorker
5231	Rail	Drumchapel to Drumry
5241	Rail	Westerton to Bearsden
A803	Bus	A803 (North of Colston Rd)
B757	Bus	B757 (South of Lenzie)
A80	Bus	A80 (East of Crowwood Roundabout)
A89	Bus	A89 (West of Bargeddie)
A74	Bus	A74 (North of B7001 Junction)
A724	Bus	A724 (Manse Brae)
A749	Bus	A749 (at Neilston Sounthbound Offslip)
A726	Bus	A726 (West of Phillipshill)
B767	Bus	B767 (North of Waterfoot)
Mearns Rd	Bus	Mearns Road
A77	Bus	A77 Ayr Rd at The Loaning
A736	Bus	A736 (At Salterland Rd Junction)
A761	Bus	A761 (Oldshaw Rd, Barshaw)
A741	Bus	A741 (at Arkleston Rd)
A8	Bus	A8 (Inchinnan Rd at Argyll Avenue)
A814	Bus	A814 (at Dock St, Yoker)
A82	Bus	A82 (East of Drumry Rail Station)
A739	Bus	A739 (South of Canniesburn Toll)
A81	Bus	A81 (South of Canniesburn Toll)
Bothwell St	Bus	Bothwell Street (for M8 west + M77 buses)
Waterloo St	Bus	Bothwell Street (for M8 west + M77 buses)
Harthill	Bus	M8 at Harthill
Newhouse	Bus	B7066 at Newhouse
Hamilton	Bus	At Hamilton Bus Station
Motherwell	Bus	A723 Hamilton Road near Airbles Road



● Bus Counts
● Rail Counts

TMFS:07 Model Development

Title
Inverness Count Locations



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Figure
A5

Not to Scale



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Inverness Cordon Count Locations

Map Ref.	Mode	Station/Road Name
6011	Rail	Beauly to Inverness
6021	Rail	Nairn to Inverness
6031	Rail	Carrbridge to Inverness
A862	Bus	A862 (West of Mid St/High St)
A9 N	Bus	A9 North (Kessock Bridge)
A96	Bus	A96 (West of Inverness Retail Park)
B9006	Bus	B9006 (Over A9)
A9 S	Bus	A9 South (South of Raigmore Interchange)
A82	Bus	A82 (South of General Booth Rd)

Appendix B – Passenger Loading Comparisons

**Transport Model for Scotland
Aberdeen Cordon
Excludes Non ScotRail Services**

INBOUND

Station/Road Name	ID	REF	Mode	Dir	In/Out	AM					IP					PM									
						OBS					AM					OBS					PM				
						Hour	Hour	Diff	% Diff	GEH	Hour	Hour	Diff	% Diff	GEH	Hour	Hour	Diff	% Diff	GEH	Hour	Hour	Diff	% Diff	GEH
Aberdeen to Dyce	8011	AC_I_R1	Rail	S	I	141	105	-36	-26%	3	53	62	9	17%	1	171	92	-79	-46%	7					
Portlethen to Aberdeen	1131	AC_I_R2	Rail	N	I	290	140	-150	-52%	10	114	102	-12	-11%	1	180	106	-74	-41%	6					
A96 (at Greenburn Rd)	8031	AC_I_B1	Bus	E	I	160	122	-38	-24%	3	56	58	2	4%	0	78	18	-60	-77%	9					
A947 (at Stoneywood Terrace)	8041	AC_I_B2	Bus	S	I	83	206	123	148%	10	43	126	83	193%	9	31	116	85	274%	10					
A90 North (by Denmore)	8051	AC_I_B3	Bus	S	I	278	200	-78	-28%	5	72	75	3	4%	0	97	74	-23	-24%	2					
A90 South (nr A956 Junction)	8061	AC_I_B4	Bus	N	I	155	246	91	59%	6	106	114	8	8%	1	131	149	18	14%	2					
A93 (west of Peterculter)	8081	AC_I_B5	Bus	E	I	28	80	52	186%	7	8	33	25	313%	6	13	39	26	200%	5					
A944 (by Old Skene Rd)	8091	AC_I_B6	Bus	E	I	153	106	-47	-31%	4	28	47	19	68%	3	48	60	12	25%	2					
TOTAL - Rail						431	245	-186	-43%	10	167	164	-3	-2%	0	351	198	-153	-44%	9					
TOTAL - Bus						857	960	103	12%	3	313	453	140	45%	7	398	456	58	15%	3					
TOTAL						1288	1205	-83	-6%	2	480	617	137	29%	6	749	654	-95	-13%	4					

OUTBOUND

Station/Road Name	ID	REF	Mode	Dir	In/Out	AM					IP					PM									
						OBS					AM					OBS					PM				
						Hour	Hour	Diff	% Diff	GEH	Hour	Hour	Diff	% Diff	GEH	Hour	Hour	Diff	% Diff	GEH	Hour	Hour	Diff	% Diff	GEH
Aberdeen to Dyce	8012	AC_O_R1	Rail	N	O	162	42	-120	-74%	12	52	47	-5	-10%	1	141	129	-12	-9%	1					
Portlethen to Aberdeen	1132	AC_O_R2	Rail	S	O	106	81	-25	-24%	3	138	82	-56	-41%	5	326	237	-89	-27%	5					
A96 (at Greenburn Rd)	8032	AC_O_B1	Bus	W	O	57	30	-27	-47%	4	51	55	4	8%	1	160	187	27	17%	2					
A947 (at Stoneywood Terrace)	8042	AC_O_B2	Bus	N	O	24	81	57	238%	8	47	84	37	79%	5	101	232	131	130%	10					
A90 North (by Denmore)	8052	AC_O_B3	Bus	N	O	90	52	-38	-42%	5	125	84	-41	-33%	4	395	293	-102	-26%	5					
A90 South (nr A956 Junction)	8062	AC_O_B4	Bus	S	O	109	137	28	26%	3	92	79	-13	-14%	1	146	187	41	28%	3					
A93 (west of Peterculter)	8082	AC_O_B5	Bus	W	O	16	40	24	150%	5	14	35	21	150%	4	87	117	30	34%	3					
A944 (by Old Skene Rd)	8092	AC_O_B6	Bus	W	O	80	52	-28	-35%	3	29	39	10	34%	2	108	81	-27	-25%	3					
TOTAL - Rail						268	123	-145	-54%	10	190	129	-61	-32%	5	467	366	-101	-22%	5					
TOTAL - Bus						376	392	16	4%	1	358	376	18	5%	1	997	1097	100	10%	3					
TOTAL						644	515	-129	-20%	5	548	505	-43	-8%	2	1464	1463	-1	0%	0					

**Transport Model for Scotland
Dundee Cordon
Excludes Non ScotRail Services**

INBOUND

Station/Road Name	ID	REF	Mode	Dir	In/Out	AM					IP					PM				
						OBS	MODELLED	Diff	% Diff	GEH	OBS	MODELLED	Diff	% Diff	GEH	OBS	MODELLED	Diff	% Diff	GEH
Invergowrie to Dundee	7011	DC I R1	Rail	E	I	136	109	-27	-20%	2	96	94	-2	-2%	0	167	138	-29	-17%	2
Leuchars to Dundee	1111	DC I R2	Rail	N	I	125	201	76	61%	6	73	149	76	104%	7	138	108	-30	-22%	3
Balmossie to Monifieth	7031	DC I R3	Rail	W	I	251	182	-69	-27%	5	148	136	-12	-8%	1	190	200	10	5%	1
A90 West	7041	DC I B1	Bus	E	I	99	112	13	13%	1	72	91	19	26%	2	82	172	90	110%	8
A923 (East of Birkhill)	7051	DC I B2	Bus	E	I	110	77	-33	-30%	3	36	111	75	208%	9	10	30	20	200%	4
A90 North (at Fintry)	7061	DC I B3	Bus	S	I	299	469	170	57%	9	118	196	78	66%	6	72	155	83	115%	8
A92 East (West of W Grange Rd Roundabout)	7071	DC I B4	Bus	W	I	40	52	12	30%	2	49	37	-12	-24%	2	35	80	45	129%	6
A930 (West of Grange Rd South)	7081	DC I B5	Bus	W	I	218	202	-16	-7%	1	118	121	3	3%	0	108	109	1	1%	0
A92 South (Tay Bridge)	7091	DC I B6	Bus	N	I	404	404	0	0%	0	193	159	-34	-18%	3	99	116	17	17%	2
TOTAL - Rail						512	492	-20	-4%	1	317	379	62	20%	3	495	446	-49	-10%	2
TOTAL - Bus						1170	1316	146	12%	4	586	715	129	22%	5	406	662	256	63%	11
TOTAL						1682	1808	126	7%	3	903	1094	191	21%	6	901	1108	207	23%	7

OUTBOUND

Station/Road Name	ID	REF	Mode	Dir	In/Out	AM					IP					PM				
						OBS	MODELLED	Diff	% Diff	GEH	OBS	MODELLED	Diff	% Diff	GEH	OBS	MODELLED	Diff	% Diff	GEH
Invergowrie to Dundee	7012	DC O R1	Rail	W	O	153	120	-33	-22%	3	104	72	-32	-31%	3	97	130	33	34%	3
Leuchars to Dundee	1112	DC O R2	Rail	S	O	130	123	-7	-5%	1	95	100	5	5%	1	207	209	2	1%	0
Balmossie to Monifieth	7032	DC O R3	Rail	E	O	126	119	-7	-6%	1	133	157	24	18%	2	284	211	-73	-26%	5
A90 West	7042	DC O B1	Bus	W	O	164	213	49	30%	4	116	95	-21	-18%	2	155	129	-26	-17%	2
A923 (East of Birkhill)	7052	DC O B2	Bus	W	O	28	23	-5	-18%	1	46	24	-22	-48%	4	113	52	-61	-54%	7
A90 North (at Fintry)	7062	DC O B3	Bus	N	O	49	179	130	265%	12	119	223	104	87%	8	204	389	185	91%	11
A92 East (West of W Grange Rd Roundabout)	7072	DC O B4	Bus	E	O	20	72	52	260%	8	43	41	-2	-5%	0	102	75	-27	-26%	3
A930 (West of Grange Rd South)	7082	DC O B5	Bus	E	O	32	67	35	109%	5	88	59	-29	-33%	3	302	240	-62	-21%	4
A92 South (Tay Bridge)	7092	DC O B6	Bus	S	O	119	108	-11	-9%	1	156	109	-47	-30%	4	400	357	-43	-11%	2
TOTAL - Rail						409	362	-47	-11%	2	332	329	-3	-1%	0	588	550	-38	-6%	2
TOTAL - Bus						412	662	250	61%	11	568	551	-17	-3%	1	1276	1242	-34	-3%	1
TOTAL						821	1024	203	25%	7	900	880	-20	-2%	1	1864	1792	-72	-4%	2

**Transport Model for Scotland
Edinburgh Cordon
Excludes Non ScotRail Services**

INBOUND

Station/Road Name	ID	REF	Mode	Dir	In/Out	AM					IP					PM					
						OBS		MODELLED			OBS		MODELLED			OBS		MODELLED			
						Hour	Hour	Diff	% Diff	GEH	Hour	Hour	Diff	% Diff	GEH	Hour	Hour	Diff	% Diff	GEH	
South Gyle to Dalmeny	4111	EC_I_R1	Rail	E	I	1608	1716	108	7%		3	309	269	-40	-13%	2	389	368	-21	-5%	1
West of Edinburgh Park	4121	EC_I_R2	Rail	E	I	2402	2201	-201	-8%		4	575	684	109	19%	4	1057	981	-76	-7%	2
Wester Hailes to Curriehill	4131	EC_I_R3	Rail	E	I	177	174	-3	-2%		0	28	41	13	46%	2	33	87	54	164%	7
Brunstane to Newcraighall	4141	EC_I_R4	Rail	W	I	85	67	-18	-21%		2	11	7	-4	-36%	1	4	5	1	25%	0
West of Musselburgh	4151	EC_I_R5	Rail	W	I	533	478	-55	-10%		2	42	89	47	112%	6	27	94	67	248%	9
A90 (at South Queensferry)	4161	EC_I_B1	Bus	S	I	448	252	-196	-44%	10	142	136	-6	-4%	1	106	197	91	86%	7	
A8 (West of Airport)	4171	EC_I_B2	Bus	E	I	869	1341	472	54%	14	291	298	7	2%	0	554	552	-2	0%	0	
M8 (at Hermiston Gait Roundabout)	4181	EC_I_B3	Bus	E	I	72	215	143	199%	12	2	1	-1	-50%	1	20	0	-20	-100%	6	
A71 (at Hermiston House Rd)	4191	EC_I_B4	Bus	E	I	343	483	140	41%	7	69	103	34	49%	4	232	241	9	4%	1	
A702 (South of City Bypass)	4201	EC_I_B5	Bus	N	I	81	203	122	151%	10	64	51	-13	-20%	2	39	45	6	15%	1	
A701 (South of B702 Junction)	4211	EC_I_B6	Bus	N	I	690	380	-310	-45%	13	161	147	-14	-9%	1	377	249	-128	-34%	7	
Lasswade Road (South of City Bypass)	4221	EC_I_B7	Bus	N	I	221	226	5	2%	0	57	66	9	16%	1	74	34	-40	-54%	5	
Gimerton Road (South of City Bypass)	4241	EC_I_B8	Bus	W	I	491	464	-27	-5%	1	139	195	56	40%	4	257	128	-129	-50%	9	
A7/A68 (South of Danderhall)	4251	EC_I_B9	Bus	W	I	570	550	-20	-4%	1	185	164	-21	-11%	2	195	210	15	8%	1	
A1 (South of The Jewel)	4261	EC_I_B10	Bus	N	I	427	170	-257	-60%	15	79	62	-17	-22%	2	121	64	-57	-47%	6	
Newcraighall Road (by Clayknowes Cres)	4271	EC_I_B11	Bus	W	I	160	201	41	26%	3	203	111	-92	-45%	7	199	130	-69	-35%	5	
A199 (West of B6415 Junction)	4281	EC_I_B12	Bus	W	I	889	877	-12	-1%	0	445	415	-30	-7%	1	642	604	-38	-6%	2	
TOTAL - Rail						4805	4636	-169	-4%	2	965	1090	125	13%	4	1510	1535	25	2%	1	
TOTAL - Bus						5261	5362	101	2%	1	1837	1749	-88	-5%	2	2816	2454	-362	-13%	7	
TOTAL						10066	9998	-68	-1%	1	2802	2839	37	1%	1	4326	3989	-337	-8%	5	

OUTBOUND

Station/Road Name	ID	REF	Mode	Dir	In/Out	AM					IP					PM					
						OBS		MODELLED			OBS		MODELLED			OBS		MODELLED			
						Hour	Hour	Diff	% Diff	GEH	Hour	Hour	Diff	% Diff	GEH	Hour	Hour	Diff	% Diff	GEH	
South Gyle to Dalmeny	4112	EC_O_R1	Rail	W	O	320	386	66	21%		4	270	326	56	21%	3	1386	1513	127	9%	3
West of Edinburgh Park	4122	EC_O_R2	Rail	W	O	953	761	-192	-20%		7	533	591	58	11%	2	2308	2192	-116	-5%	2
Wester Hailes to Curriehill	4132	EC_O_R3	Rail	W	O	24	94	70	292%		9	31	27	-4	-13%	1	188	251	63	34%	4
Brunstane to Newcraighall	4142	EC_O_R4	Rail	E	O	3	15	12	400%		4	22	9	-13	-59%	3	88	47	-41	-47%	5
West of Musselburgh	4152	EC_O_R5	Rail	E	O	19	132	113	595%	13	53	81	28	53%	3	462	674	212	46%	9	
A90 (at South Queensferry)	4162	EC_O_B1	Bus	N	O	90	127	37	41%	4	143	90	-53	-37%	5	366	137	-229	-63%	14	
A8 (West of Airport)	4172	EC_O_B2	Bus	W	O	424	507	83	20%	4	255	242	-13	-5%	1	890	1345	455	51%	14	
M8 (at Hermiston Gait Roundabout)	4182	EC_O_B3	Bus	W	O	0	1	1		1	0	1	1		1	0	122	122		16	
A71 (at Hermiston House Rd)	4192	EC_O_B4	Bus	W	O	140	131	-9	-6%	1	118	89	-29	-25%	3	336	467	131	39%	7	
A702 (South of City Bypass)	4202	EC_O_B5	Bus	S	O	84	31	-53	-63%	7	67	12	-55	-82%	9	99	9	-90	-91%	12	
A701 (South of B702)	4212	EC_O_B6	Bus	S	O	243	194	-49	-20%	3	192	144	-48	-25%	4	864	641	-223	-26%	8	
Lasswade Road (South of City Bypass)	4222	EC_O_B7	Bus	S	O	77	35	-42	-55%	6	65	64	-1	-2%	0	252	239	-13	-5%	1	
Gimerton Road (South of City Bypass)	4242	EC_O_B8	Bus	E	O	254	113	-141	-56%	10	151	129	-22	-15%	2	646	561	-85	-13%	3	
A7/A68 (South of Danderhall)	4252	EC_O_B9	Bus	E	O	158	227	69	44%	5	192	153	-39	-20%	3	697	725	28	4%	1	
A1 (South of The Jewel)	4262	EC_O_B10	Bus	S	O	28	32	4	14%	1	89	39	-50	-56%	6	424	179	-245	-58%	14	
Newcraighall Road (by Clayknowes Cres)	4272	EC_O_B11	Bus	E	O	216	149	-67	-31%	5	137	121	-16	-12%	1	186	285	99	53%	6	
A199 (West of B6415 Junction)	4282	EC_O_B12	Bus	E	O	373	427	54	14%	3	487	334	-153	-31%	8	924	700	-224	-24%	8	
TOTAL - Rail						1319	1388	69	5%	2	909	1034	125	14%	4	4432	4677	245	6%	4	
TOTAL - Bus						2087	1974	-113	-5%	3	1896	1418	-478	-25%	12	5684	5410	-274	-5%	4	
TOTAL						3406	3362	-44	-1%	1	2805	2452	-353	-13%	7	10116	10087	-29	0%	0	

**Transport Model for Scotland
Glasgow Cordon
Excludes Non ScotRail Services**

INBOUND

Station Name	ID	REF	Mode	Dir	In/Out	AM					IP					PM				
						OBS	MODELLED	Hour	Diff	% Diff	GEH	OBS	MODELLED	Hour	Diff	% Diff	GEH	OBS	MODELLED	Hour
West of Bishopbriggs	1012	GC 1 R1	Rail	W	I	2317	1950	-367	-16%	8	601	631	30	5%	1	1153	1085	-68	-6%	2
Springburn to Stepps	5121	GC 1 R2	Rail	W	I	281	110	-171	-61%	12	40	17	-23	-58%	4	41	12	-29	-71%	6
Easterhouse to Blairhill	5131	GC 1 R3	Rail	W	I	871	869	-2	0%	0	210	279	69	33%	4	208	298	90	43%	6
Baillieston to Bargeddie	5141	GC 1 R4	Rail	W	I	145	23	-126	-89%	14	36	22	-14	-39%	3	33	18	-15	-45%	3
Cambuslang to Newton	5151	GC 1 R5	Rail	W	I	1824	1466	-358	-20%	9	301	319	18	6%	1	391	581	190	49%	6
Kirkhill to Newton	5161	GC 1 R6	Rail	W	I	58	21	-37	-64%	6	9	4	-5	-56%	2	12	24	12	100%	3
Giffnock to Clarkston	5171	GC 1 R7	Rail	N	I	716	362	-354	-49%	15	121	60	-61	-50%	6	154	90	-64	-42%	6
Muirhead to Williamwood	5181	GC 1 R8	Rail	N	I	402	320	-82	-20%	4	73	27	-46	-63%	7	70	31	-39	-56%	5
Kennished to Priesthill & Darnley	5191	GC 1 R9	Rail	E	I	436	333	-103	-24%	5	71	186	115	162%	10	128	150	22	17%	2
Mosspark to Crookston	5201	GC 1 R10	Rail	E	I	192	43	-149	-78%	14	48	15	-33	-69%	6	62	50	-12	-19%	2
Hillington East to Hillington West	5211	GC 1 R11	Rail	E	I	2757	2038	-719	-26%	15	630	735	105	17%	4	737	1006	269	36%	9
Garscadden to Yorker	5221	GC 1 R12	Rail	E	I	780	632	-148	-19%	6	140	158	18	13%	1	161	259	98	61%	7
Drumchapel to Drumry	5231	GC 1 R13	Rail	E	I	532	483	-49	-9%	2	171	171	0	0%	0	231	261	30	13%	2
Westerton to Bearsden	5241	GC 1 R14	Rail	S	I	452	680	228	50%	10	89	247	158	178%	12	113	221	108	96%	8
A803 (North of Colston Rd)	5251	GC 1 B1	Bus	S	I	341	614	273	80%	12	231	187	-44	-19%	3	272	347	75	28%	4
B757 (South of Lenzie)	5261	GC 1 B2	Bus	S	I	331	717	386	117%	17	113	136	23	20%	2	83	86	3	4%	0
A80 (East of Crowwood Roundabout)	5271	GC 1 B3	Bus	W	I	1057	1130	73	7%	2	290	377	87	30%	5	276	396	120	43%	7
A89 (West of Bargeddie)	5281	GC 1 B4	Bus	W	I	56	134	78	139%	8	14	70	56	400%	9	37	82	45	122%	6
A74 (North of B7001 Junction)	5291	GC 1 B5	Bus	W	I	230	354	124	54%	7	120	186	66	55%	5	115	145	30	26%	3
A724 (Manse Brae)	5311	GC 1 B6	Bus	W	I	161	201	40	25%	3	68	95	27	40%	3	131	106	-25	-19%	2
A749 (at Neilston Southbound Offslip)	5321	GC 1 B7	Bus	N	I	326	445	119	37%	6	177	172	-5	-3%	0	261	210	-51	-20%	3
A726 (West of Phillipshill)	5331	GC 1 B8	Bus	N	I	239	407	168	70%	9	107	158	51	48%	4	205	265	60	29%	4
B767 (North of Waterfoot)	5341	GC 1 B9	Bus	N	I	71	51	-20	-28%	3	21	23	2	10%	0	15	26	11	73%	2
A77 (Ayr Rd at The Loaning + Mearns Road)	5351	GC 1 B10	Bus	N	I	134	139	5	4%	0	146	104	-42	-29%	4	180	150	-30	-17%	2
A736 (at Salterland Rd Junction)	5361	GC 1 B11	Bus	N	I	82	142	60	73%	6	25	80	55	220%	8	33	50	17	52%	3
A761 (Oldshaw Rd, Barshaw)	5371	GC 1 B12	Bus	E	I	380	676	296	78%	13	227	181	-46	-20%	3	346	336	-10	-3%	1
A741 (at Arkleston Rd)	5381	GC 1 B13	Bus	E	I	441	226	-215	-49%	12	322	130	-192	-60%	13	612	253	-359	-59%	17
A8 (Inchinnan Rd at Argyll Avenue)	5391	GC 1 B14	Bus	E	I	94	113	19	20%	2	118	129	11	9%	1	269	92	-177	-66%	13
A814 (at Dock St, Yoker)	5401	GC 1 B15	Bus	E	I	368	284	-84	-23%	5	203	58	-144	-71%	13	190	67	-123	-65%	11
A82 (East of Drumry Rail Station)	5411	GC 1 B16	Bus	E	I	149	483	334	224%	19	182	278	96	53%	6	218	299	81	37%	5
A739 (South of Canniesburn Toll)	5421	GC 1 B17	Bus	S	I	123	0	-123	-100%	16	43	0	-43	-100%	9	69	0	-69	-100%	12
A81 (South of Canniesburn Toll)	5431	GC 1 B18	Bus	S	I	503	306	-197	-39%	10	216	45	-171	-79%	15	293	85	-208	-71%	15
Bothwell Street (for M8 west + M77 buses)	5441	GC 1 B19	Bus	S	I	971	1158	187	19%	6	343	139	-204	-59%	13	287	85	-202	-70%	15
M8 at Harthill + B7066 at Newhouse	5451	GC 1 B20	Bus	S	I	312	413	101	32%	6	163	66	-97	-59%	9	140	313	173	124%	11
M74 north of J6 (Hamilton+Motherwell)	5461	GC 1 B21	Bus	S	I	180	948	768	427%	32	87	426	339	390%	21	39	204	165	423%	15
TOTAL - Rail						11767	9330	-2437	-21%	24	2540	2871	331	13%	6	3494	4086	592	17%	10
TOTAL - Bus						6549	8941	2392	37%	27	3215	3040	-175	-5%	3	4071	3597	-474	-12%	8
TOTAL						18316	18271	-45	0%	0	5755	5911	156	3%	2	7565	7683	118	2%	1

OUTBOUND

Station Name	ID	REF	Mode	Dir	In/Out	AM					IP					PM				
						OBS	MODELLED	Hour	Diff	% Diff	GEH	OBS	MODELLED	Hour	Diff	% Diff	GEH	OBS	MODELLED	Hour
West of Bishopbriggs	1011	GC 0 R1	Rail	E	O	1023	1161	138	13%	4	630	671	41	7%	2	2209	2023	-186	-8%	4
Springburn to Stepps	5122	GC 0 R2	Rail	E	O	26	9	-17	-65%	4	41	34	-7	-17%	1	249	74	-175	-70%	14
Easterhouse to Blairhill	5132	GC 0 R3	Rail	E	O	154	284	130	84%	9	129	207	78	60%	6	740	880	140	19%	5
Baillieston to Bargeddie	5142	GC 0 R4	Rail	E	O	18	24	6	33%	1	28	15	-13	-46%	3	152	39	-113	-74%	12
Cambuslang to Newton	5152	GC 0 R5	Rail	E	O	337	381	44	13%	2	245	287	42	17%	3	1467	1518	51	3%	1
Kirkhill to Newton	5162	GC 0 R6	Rail	E	O	10	8	-2	-20%	1	9	6	-3	-33%	1	55	11	-44	-80%	8
Giffnock to Clarkston	5172	GC 0 R7	Rail	S	O	113	71	-42	-37%	4	112	61	-51	-46%	5	627	424	-203	-32%	9
Muirhead to Williamwood	5182	GC 0 R8	Rail	S	O	104	55	-49	-47%	5	54	37	-17	-31%	3	371	213	-158	-43%	9
Kennished to Priesthill & Darnley	5192	GC 0 R9	Rail	W	O	92	153	61	66%	6	116	132	16	14%	1	453	365	-88	-19%	4
Mosspark to Crookston	5202	GC 0 R10	Rail	W	O	65	39	-26	-40%	4	38	19	-19	-50%	4	197	79	-118	-60%	10
Hillington East to Hillington West	5212	GC 0 R11	Rail	W	O	514	850	336	65%	13	358	671	313	87%	14	1639	2204	565	34%	13
Garscadden to Yorker	5222	GC 0 R12	Rail	W	O	148	172	24	16%	2	135	183	48	36%	4	786	732	-54	-7%	2
Drumchapel to Drumry	5232	GC 0 R13	Rail	W	O	259	142	-117	-45%	8	140	108	-32	-23%	3	510	332	-178	-35%	9
Westerton to Bearsden	5242	GC 0 R14	Rail	N	O	92	179	87	95%	7	99	200	101	102%	8	491	710	219	45%	9
A803 (North of Colston Rd)	5252	GC 0 B1	Bus	N	O	236	390	154	65%	9	245	151	-94	-38%	7	510	409	-101	-20%	5
B757 (South of Lenzie)	5262	GC 0 B2	Bus	N	O	79	104	25	32%	3	110	139	29	26%	3	295	735	440	149%	19
A80 (East of Crowwood Roundabout)	5272	GC 0 B3	Bus	E	O	232	434	202	87%	11	245	10	-4%	1	767	914	147	19%	5	
A89 (West of Bargeddie)	5282	GC 0 B4	Bus	E	O	33	104	71	215%	4	39	55	16	41%	4	98	102	4	4%	0
A74 (North of B7001 Junction)	5292	GC 0 B5	Bus	E	O	98	166	68	69%	6	99	176	77	78%	7	264	412	148	56%	8
A724 (Manse Brae)	5312	GC 0 B6	Bus	E	O	117	198	81	69%	6	66	49	-17	-26%	2	186	149	-37	-20%	3
A749 (at Neilston Southbound Offslip)	5322	GC 0 B7	Bus	S	O	159	175	16	10%	1	91	110	19	21%	2	386	412	26	7%	1
A726 (West of Phillipshill)	5332	GC 0 B8	Bus	S	O	222	229	7	3%	0	100	135	35	35%	3	210	296	86	41%	5
B767 (North of Waterfoot)	5342	GC 0 B9	Bus	S	O	8	23	15	18%	0	23	1	-1	-4%	0	21	9	-12	-57%	2
A77 (Ayr Rd at The Loaning + Mearns Road)	5352	GC 0 B10	Bus	S	O	149	179	30	20%	2	131	71	-60	-46%	6	257	120	-137	-53%	10
A736 (at Salterland Rd Junction)	5362	GC 0 B11	Bus	S	O	10	34	24	240%	5	27	63	36	133%	5	89	202	113	127%	9
A761 (Oldhall Rd, Barshaw)	5372	GC 0 B12	Bus	W	O	377	361	-16	-4%	1	320	154	-166	-52%	11	778	874	96	12%	3
A741 (at Arkleston Rd)	5382	GC 0 B13	Bus	W	O	472	224	-248	-53%	13	324	165	-159	-49%	10	664	147	-517	-78%	26
A8 (Inchinnan Rd at Argyll Avenue)	5392	GC 0 B14	Bus	W	O	268	92	-176	-66%	13	129	103	-26	-20%	2	203	158	-45	-22%	3
A814 (at Dock St, Yoker)	5402	GC 0 B15	Bus	W	O	265	194	-71	-27%	5	193	120	-73	-38%	6	352	206	-146	-41%	9
A82 (East of Drumry Rail Station)	5412	GC 0 B16	Bus	W	O	156	318	162	104%	11	147	212	65	44%	5	121	537	416	344%	23
A739 (South of Canniesburn Toll)	5422	GC 0 B17	Bus	N	O	53	0	-53	-100%	10	49	0	-49	-100%	10	139	0	-139	-100%	17
A81 (South of Canniesburn Toll)	5432	GC 0 B18	Bus	N	O	162	96	-66	-41%	7	233	45	-188	-81%	16	706	355	-351	-50%	15
Bothwell Street (for M8 west + M77 buses)	5442	GC 0 B19	Bus	N	O	92	65	-27	-29%	3	210	115	-95	-45%	7	441	1126	685	155%	24</

**Transport Model for Scotland
Inverness Cordon
Excludes Non ScotRail Services**

INBOUND

Station/Road Name	ID	REF	Mode	Dir	In/Out	AM					IP					PM									
						OBS					MODELLED					OBS					MODELLED				
						Hour	Hour	Diff	% Diff	GEH	Hour	Hour	Diff	% Diff	GEH	Hour	Hour	Diff	% Diff	GEH	Hour	Hour	Diff	% Diff	GEH
Beauly to Inverness	6011	IC I R1	Rail	E	I	79	37	-42	-53%	6	9	15	6	67%	2	22	17	-5	-23%	1					
Nairn to Inverness	6021	IC I R2	Rail	W	I	67	7	-60	-90%	10	24	24	0	22	28	6	27%	1							
Carrbridge to Inverness	6031	IC I R3	Rail	W	I	25	15	-10	-40%	2	28	22	-6	-21%	1	38	22	-16	-42%	3					
A862 (West of Mid St/High St)	6041	IC I B1	Bus	E	I	48	0	-48	-100%	10	6	0	-6	-100%	3	20	0	-20	-100%	6					
A9 North (Kessock Bridge)	6051	IC I B3	Bus	S	I	227	304	77	34%	5	96	154	58	60%	5	102	85	-17	-17%	2					
A96 (West of Inverness Retail Park)	6061	IC I B4	Bus	W	I	305	192	-113	-37%	7	177	99	-78	-44%	7	123	54	-69	-56%	7					
B9006 (Over A9)	6071	IC I B5	Bus	W	I	197	249	52	26%	3	68	81	13	19%	2	40	96	56	140%	7					
A9 South (South of Raigmore Interchange)	6081	IC I B6	Bus	N	I	41	110	69	168%	8	44	72	28	64%	4	41	76	35	85%	5					
A82 (South of General Booth Rd)	6091	IC I B7	Bus	E	I	14	30	16	114%	3	10	24	14	140%	3	8	31	23	288%	5					
TOTAL - Rail						171	59	-112	-65%	10	61	61	0	82	67	-15	-18%	2							
TOTAL - Bus						832	885	53	6%	2	401	430	29	7%	1	334	342	8	2%	0					
TOTAL						1003	944	-59	-6%	2	462	491	29	6%	1	416	409	-7	-2%	0					

OUTBOUND

Station/Road Name	ID	ID	Mode	Dir	In/Out	AM					IP					PM									
						OBS					MODELLED					OBS					MODELLED				
						Hour	Hour	Diff	% Diff	GEH	Hour	Hour	Diff	% Diff	GEH	Hour	Hour	Diff	% Diff	GEH	Hour	Hour	Diff	% Diff	GEH
Beauly to Inverness	6012	IC O R1	Rail	W	O	18	28	10	56%	2	13	14	1	8%	0	82	32	-50	-61%	7					
Nairn to Inverness	6022	IC O R2	Rail	E	O	25	28	3	12%	1	34	16	-18	-53%	4	76	22	-54	-71%	8					
Carrbridge to Inverness	6032	IC O R3	Rail	E	O	23	26	3	13%	1	43	13	-30	-70%	6	67	20	-47	-70%	7					
A862 (West of Mid St/High St)	6042	IC O B1	Bus	W	O	109	0	-109	-100%	15	12	0	-12	-100%	5	10	0	-10	-100%	4					
A9 North (Kessock Bridge)	6052	IC O B3	Bus	N	O	119	102	-17	-14%	2	139	118	-21	-15%	2	196	242	46	23%	3					
A96 (West of Inverness Retail Park)	6062	IC O B4	Bus	E	O	123	68	-55	-45%	6	129	64	-65	-50%	7	302	175	-127	-42%	8					
B9006 (Over A9)	6072	IC O B5	Bus	E	O	86	94	8	9%	1	84	96	12	14%	1	170	194	24	14%	2					
A9 South (South of Raigmore Interchange)	6082	IC O B6	Bus	S	O	60	130	70	117%	7	45	108	63	140%	7	97	108	11	11%	1					
A82 (South of General Booth Rd)	6092	IC O B7	Bus	W	O	5	23	18	360%	5	19	36	17	89%	3	18	25	7	39%	2					
TOTAL - Rail						66	82	16	24%	2	90	43	-47	-52%	6	225	74	-151	-67%	12					
TOTAL - Bus						502	417	-85	-17%	4	428	422	-6	-1%	0	793	744	-49	-6%	2					
TOTAL						568	499	-69	-12%	3	518	465	-53	-10%	2	1018	818	-200	-20%	7					

Transport Model for Scotland
Lower Forth Crossing
Excludes Non ScotRail Services

NORTHBOUND

Location	ID	REF	Mode	Dir	AM					IP					PM				
					OBS		MODELLED			OBS		MODELLED			OBS		MODELLED		
					Hour	Hour	Diff	% Diff	GEH	Hour	Hour	Diff	% Diff	GEH	Hour	Hour	Diff	% Diff	GEH
Forth Bridge	1071	FL_N_R1	Rail	N	271	360	89	33%	5	229	326	97	42%	6	1471	1435	-36	-2%	1
A90 (at South Queensferry)	4162	EC_O_B1	Bus	N	90	127	37	41%	4	143	90	-53	-37%	5	366	137	-229	-63%	14
TOTAL					361	487	126	35%	6	372	416	44	12%	2	1837	1572	-265	-14%	6

SOUTHBOUND

Location	ID	REF	Mode	Dir	AM					IP					PM				
					OBS		MODELLED			OBS		MODELLED			OBS		MODELLED		
					Hour	Hour	Diff	% Diff	GEH	Hour	Hour	Diff	% Diff	GEH	Hour	Hour	Diff	% Diff	GEH
Forth Bridge	1072	FL_S_R1	Rail	S	1505	1609	104	7%	3	312	263	-49	-16%	3	350	338	-12	-3%	1
A90 (at South Queensferry)	4161	EC_I_B1	Bus	S	448	252	-196	-44%	10	142	136	-6	-4%	1	106	197	91	86%	7
TOTAL					1953	1861	-92	-5%	2	454	399	-55	-12%	3	456	535	79	17%	4

**Transport Model for Scotland
Lower Tay Crossing
Excludes Non ScotRail Services**

NORTHBOUND

Station/Road Name	ID	REF	Mode	Dir	AM					IP					PM				
					OBS		MODELLED			OBS		MODELLED			OBS		MODELLED		
					Hour	Hour	Diff	% Diff	GEH	Hour	Hour	Diff	% Diff	GEH	Hour	Hour	Diff	% Diff	GEH
Tay Bridge	1111	DC_I_R2	Rail	N	125	201	76	61%	6	73	149	76	104%	7	138	108	-30	-22%	3
A92 South (Tay Bridge)	7091	DC_I_B6	Bus	N	404	404	0	0%	0	193	159	-34	-18%	3	99	116	17	17%	2
TOTAL					529	605	76	14%	3	266	308	42	16%	2	237	224	-13	-5%	1

SOUTHBOUND

Station/Road Name	ID	REF	Mode	Dir	AM					IP					PM				
					OBS		MODELLED			OBS		MODELLED			OBS		MODELLED		
					Hour	Hour	Diff	% Diff	GEH	Hour	Hour	Diff	% Diff	GEH	Hour	Hour	Diff	% Diff	GEH
Tay Bridge	1112	DC_O_R2	Rail	S	130	123	-7	-5%	1	95	100	5	5%	1	207	209	2	1%	0
A92 South (Tay Bridge)	7092	DC_O_B6	Bus	S	119	108	-11	-9%	1	156	109	-47	-30%	4	400	357	-43	-11%	2
TOTAL					249	231	-18	-7%	1	251	209	-42	-17%	3	607	566	-41	-7%	2

**Transport Model for Scotland
Rail Data Passenger Validation
Key Links
Excludes Non ScotRail Services**

DIRECTION 1

Location	ID	REF	Mode	Dir	AM					IP					PM				
					OBS	MODELLED	Diff	% Diff	GEH	OBS	MODELLED	Diff	% Diff	GEH	OBS	MODELLED	Diff	% Diff	GEH
West of Bishopbriggs	1011	MP 2 E	Rail	E	1023	1161	138	13%	4	630	671	41	7%	2	2209	2023	-186	-8%	4
Between Falkirk High and Polmont	1021	MP 3 E	Rail	E	985	1222	237	24%	7	365	444	79	22%	4	833	865	32	4%	1
Between Larbert and Stirling	1031	MP 4 N	Rail	N	396	368	-28	-7%	1	228	272	44	19%	3	707	689	-18	-3%	1
Between Livingston and Uphall	1041	MP 5 E	Rail	E	478	146	-332	-69%	19	81	83	2	2%	0	104	83	-21	-20%	2
East of Edinburgh Waverley	1051	MP 6 E	Rail	E	25	210	185	740%	17	89	111	22	25%	2	595	854	259	44%	10
West of Edinburgh Haymarket	1061	MP 7 E	Rail	E	3901	3941	40	1%	1	912	967	55	6%	2	1559	1542	-17	-1%	0
Forth Bridge	1071	MP 8 N	Rail	N	271	360	89	33%	5	229	326	97	42%	6	1471	1435	-36	-2%	1
Between Inverkeithing and Rosyth	1081	MP 9 E	Rail	E	494	361	-133	-27%	6	73	71	-2	-3%	0	92	91	-1	-1%	0
Between Inverkeithing and Dalgety Bay	1091	MP 10 E	Rail	E	127	281	154	121%	11	82	274	192	234%	14	457	723	266	58%	11
Between Markinch and Ladybank	1101	MP 11 N	Rail	N	178	239	61	34%	4	100	201	101	101%	8	500	193	-107	-36%	7
Tay Bridge	1111	MP 12 N	Rail	N	125	201	76	61%	6	73	149	76	104%	7	138	108	-30	-22%	3
Between Dundee and Broughty Ferry	1121	MP 13 E	Rail	E	126	119	-7	-6%	1	133	157	24	18%	2	288	214	-74	-26%	5
Between Aberdeen and Fortiethen	1131	MP 14 N	Rail	N	290	140	-150	-52%	10	114	102	-12	-11%	1	180	106	-74	-41%	6
Between Port Glasgow and Woodhall	1141	MP 15 E	Rail	E	657	667	10	2%	0	203	295	92	45%	6	231	560	329	142%	17
Between Ayr and Newton-On-Ayr	1151	MP 16 N	Rail	N	279	263	-16	-6%	1	108	209	101	94%	8	173	244	71	41%	5
Between Dalry and Kilwinning	1161	MP 17 N	Rail	N	1159	1181	22	2%	1	240	567	327	136%	16	365	894	529	145%	21
Between Paisley and Hillington West	1171	MP 18 E	Rail	E	2770	2074	-696	-25%	14	627	732	105	17%	4	708	926	218	31%	8
Between Partick and Hyndland	1181	MP 19 E	Rail	E	2602	2592	-10	0%	0	497	929	432	87%	16	780	1190	410	53%	13
Between High Street and Bellaroe	1191	MP 20 E	Rail	E	262	352	90	34%	5	222	349	127	57%	8	1256	1580	324	26%	9
Between Argyle Street and Bridgeton	1201	MP 21 E	Rail	E	373	673	300	80%	13	283	417	134	47%	7	1593	1998	405	25%	10
Between Crosshill and Mount Florida	1211	MP 22 N	Rail	N	1095	1019	-76	-7%	2	140	206	66	47%	5	181	252	71	39%	5
Between Maxwell Park and Pollokshields West	1221	MP 23 N	Rail	N	334	199	-135	-40%	8	42	51	9	21%	1	56	39	-17	-30%	2
Between Crossmyloof and Pollokshaws West	1231	MP 24 N	Rail	N	1251	796	-455	-36%	14	205	276	71	35%	5	294	241	-53	-18%	3
Between Hamilton West and Hamilton Central	1241	MP 25 N	Rail	N	370	386	16	4%	1	97	144	47	48%	4	138	160	22	16%	2
Between Shotts and Fauldhouse	1251	MP 26 E	Rail	E	39	60	21	54%	3	18	56	38	211%	6	51	107	56	110%	6
Between Coatdyke and Airdrie	1261	MP 27 E	Rail	E	52	95	43	83%	5	66	146	80	121%	8	353	507	154	44%	7
Between Dumbarton East and Dumbarton Central	1271	MP 28 E	Rail	E	826	997	171	21%	6	167	206	39	23%	3	187	305	118	63%	8
Nairn to Forres	1281	MP 29 E	Rail	E	31	32	1	3%	0	30	17	-13	-43%	3	67	22	-45	-67%	7
Kingussie to Aviemore	1291	MP 30 N	Rail	N	24	22	-2	-8%	0	28	30	2	7%	0	72	22	-50	-69%	7
Ardlui to Crianlarich	1301	MP 31 N	Rail	N	37	5	-32	-86%	7	26	5	-21	-81%	5	0	1	1	1	1
Oban to Connel Ferry	1311	MP 32 E	Rail	E	17	0	-17	-100%	6	9	0	-9	-100%	4	18	0	-18	-100%	6
Invergordon to Fearn	1321	MP 33 N	Rail	N	8	16	8	100%	2	4	2	-2	-50%	1	17	8	-9	-53%	3
Lochluchart to Garve	1331	MP 34 E	Rail	E	3	7	4	133%	2	3	2	-1	-33%	1	5	6	1	20%	0

DIRECTION 2

Location	ID	REF	Mode	Dir	AM					IP					PM				
					OBS	MODELLED	Diff	% Diff	GEH	OBS	MODELLED	Diff	% Diff	GEH	OBS	MODELLED	Diff	% Diff	GEH
West of Bishopbriggs	1012	MP 1 W	Rail	W	2317	1950	-367	-16%	8	601	631	30	5%	1	1153	1085	-68	-6%	2
Between Falkirk High and Polmont	1022	MP 2 W	Rail	W	871	787	-84	-10%	3	338	386	48	14%	3	1076	1102	26	2%	1
Between Larbert and Stirling	1032	MP 3 S	Rail	S	679	683	4	1%	0	245	301	56	23%	3	484	459	-25	-5%	1
Between Livingston and Uphall	1042	MP 4 W	Rail	W	91	61	-30	-33%	3	75	62	-13	-17%	2	436	224	-212	-49%	12
East of Edinburgh Waverley	1052	MP 5 W	Rail	W	698	657	-41	-6%	2	59	129	70	119%	7	35	122	87	249%	10
West of Edinburgh Haymarket	1062	MP 6 W	Rail	W	1383	1383	0	0%	0	833	923	90	11%	3	3746	3823	77	2%	1
Forth Bridge	1072	MP 7 S	Rail	S	1505	1609	104	7%	3	312	263	-49	-16%	3	350	338	-12	-3%	1
Between Inverkeithing and Rosyth	1082	MP 8 W	Rail	W	104	145	41	39%	4	112	109	-3	-3%	0	657	417	-240	-37%	10
Between Inverkeithing and Dalgety Bay	1092	MP 9 W	Rail	W	558	807	249	45%	10	189	228	39	21%	3	206	284	78	38%	5
Between Markinch and Ladybank	1102	MP 10 S	Rail	S	162	260	98	60%	7	167	171	4	2%	0	216	248	32	15%	2
Tay Bridge	1112	MP 11 S	Rail	S	130	123	-7	-5%	1	95	100	5	5%	1	207	209	2	1%	0
Between Dundee and Broughty Ferry	1122	MP 12 W	Rail	W	251	188	-63	-25%	4	148	136	-12	-8%	1	190	200	10	5%	1
Between Aberdeen and Fortiethen	1132	MP 13 S	Rail	S	106	81	-25	-24%	3	138	82	-56	-41%	5	326	237	-89	-27%	5
Between Port Glasgow and Woodhall	1142	MP 14 W	Rail	W	232	485	253	109%	13	161	252	91	57%	6	572	702	130	23%	5
Between Ayr and Newton-On-Ayr	1152	MP 15 S	Rail	S	183	316	133	73%	8	119	136	17	14%	2	281	347	66	23%	4
Between Dalry and Kilwinning	1162	MP 16 S	Rail	S	250	766	516	206%	23	311	547	236	76%	11	1095	1292	197	18%	6
Between Paisley and Hillington West	1172	MP 17 W	Rail	W	469	774	305	65%	12	362	680	318	88%	14	1657	2249	592	36%	13
Between Partick and Hyndland	1182	MP 18 W	Rail	W	706	913	207	29%	7	455	780	325	71%	13	2364	2626	262	11%	5
Between High Street and Bellaroe	1192	MP 19 W	Rail	W	1594	1439	-155	-10%	4	283	352	69	24%	4	345	399	54	16%	3
Between Argyle Street and Bridgeton	1202	MP 20 W	Rail	W	1966	1643	-323	-16%	8	319	370	51	16%	3	433	576	143	33%	6
Between Crosshill and Mount Florida	1212	MP 21 S	Rail	S	137	220	83	61%	6	159	243	84	53%	6	1052	1049	-3	0%	0
Between Maxwell Park and Pollokshields West	1222	MP 22 S	Rail	S	37	42	5	14%	1	45	54	9	20%	1	338	221	-117	-35%	7
Between Crossmyloof and Pollokshaws West	1232	MP 23 S	Rail	S	189	217	28	15%	2	240	197	-43	-18%	3	1217	961	-256	-21%	8
Between Hamilton West and Hamilton Central	1242	MP 24 S	Rail	S	105	162	57	54%	5	96	160	64	67%	6	350	498	148	42%	7
Between Shotts and Fauldhouse	1252	MP 25 W	Rail	W	41	132	91	222%	10	17	40	23	135%	4	81	136	55	68%	5
Between Coatdyke and Airdrie	1262	MP 26 W	Rail	W	443	554	111	25%	5	89	157	68	76%	6	90	158	68	76%	6
Between Dumbarton East and Dumbarton Central	1272	MP 27 W	Rail	W	182	190	8	4%	1	138	266	128	93%	9	724	888	164	23%	6
Forres to Nairn	1282	MP 28 W	Rail	W	50	7	-43	-86%	8	23	26	3	13%	1	22	29	7	32%	1
Aviemore to Kingussie	1292	MP 29 S	Rail	S	24	5	-19	-79%	11	52	19	-34	-64%	6	41	32	-9	-22%	1
Crianlarich to Ardlui	1302	MP 30 S	Rail	S	65	12	-53	-82%	9	18	1	-17	-94%	6	0	3	3	3	
Connel Ferry to Oban	1312	MP 31 W	Rail	W	0	0	0	0%	0	19	0	-19	-100%	6	0	0	0	0	
Fearn to Invergordon	1322	MP 32 S	Rail	S	3	11	8	267%	5	7	2	-5	-71%	2	0	8	8	4	
Garve to Lochluchart	1332	MP 33 W	Rail	W	28	7	-21	-75%	5	2	2	0	0%	0	0	8	8	4	

**Transport Model for Scotland
 Rail Data Passenger Validation
 Central Scotland - East West Screenline
 Excludes Non ScotRail Services**

EASTBOUND

Location	ID	REF	Mode	Dir	AM					IP					PM						
					OBS		MODELLED			OBS		MODELLED			OBS		MODELLED				
					Hour	Hour	Diff	% Diff	GEH	Hour	Hour	Diff	% Diff	GEH	Hour	Hour	Diff	% Diff	GEH		
East of Camelon Station	2011	CL_E_R1	Rail	E	396	366	-30	-8%		2	76	147	71	93%		7	230	213	-17	-7%	1
West of Falkirk High Station	2021	CL_E_R2	Rail	E	849	978	129	15%		4	382	403	21	5%		1	911	979	68	7%	2
East of Shotts Station	1251	CL_E_R3	Rail	E	39	60	21	54%		3	18	56	38	211%		6	51	107	56	110%	6
East of Carstairs Junction	2041	CL_E_R4	Rail	E	0	39	39			9	0	9	9			4	0	12	12		5
TOTAL					1284	1443	159	12%		4	476	615	139	29%		6	1192	1311	119	10%	3

WESTBOUND

Location	ID	REF	Mode	Dir	AM					IP					PM						
					OBS		MODELLED			OBS		MODELLED			OBS		MODELLED				
					Hour	Hour	Diff	% Diff	GEH	Hour	Hour	Diff	% Diff	GEH	Hour	Hour	Diff	% Diff	GEH		
East of Camelon Station	2012	CL_W_R1	Rail	W	207	164	-43	-21%		3	72	97	25	35%		3	312	362	50	16%	3
West of Falkirk High Station	2022	CL_W_R2	Rail	W	985	890	-95	-10%		3	344	373	29	8%		2	936	882	-54	-6%	2
East of Shotts Station	1252	CL_W_R3	Rail	W	41	132	91	222%		10	17	40	23	135%		4	81	136	55	68%	5
East of Carstairs Junction	2042	CL_W_R4	Rail	W	0	9	9			4	0	0	0			0	23	23		7	
TOTAL					1233	1195	-38	-3%		1	433	510	77	18%		4	1329	1403	74	6%	2

**Transport Model for Scotland
 Rail Data Passenger Validation
 Central Scotland - Forth Screenline
 Excludes Non ScotRail Services**

Northbound

Location	ID	REF	Mode	Dir	AM					IP					PM				
					OBS		MODELLED			OBS		MODELLED			OBS		MODELLED		
					Hour	Hour	Diff	% Diff	GEH	Hour	Hour	Diff	% Diff	GEH	Hour	Hour	Diff	% Diff	GEH
Forth Bridge	1071	FL_N_R1	Rail	N	271	360	89	33%	5	229	326	97	42%	6	1471	1435	-36	-2%	1
North of Stirling Station	3021	FL_N_R2	Rail	N	180	195	15	8%	1	148	193	45	30%	3	463	444	-19	-4%	1
TOTAL					451	555	104	23%	5	377	519	142	38%	7	1934	1879	-55	-3%	1

Southbound

Location	ID	REF	Mode	Dir	AM					IP					PM				
					OBS		MODELLED			OBS		MODELLED			OBS		MODELLED		
					Hour	Hour	Diff	% Diff	GEH	Hour	Hour	Diff	% Diff	GEH	Hour	Hour	Diff	% Diff	GEH
Forth Bridge	1072	FL_S_R1	Rail	S	1505	1609	104	7%	3	312	263	-49	-16%	3	350	338	-12	-3%	1
North of Stirling Station	3022	FL_S_R2	Rail	S	402	432	30	7%	1	159	193	34	21%	3	242	248	6	2%	0
TOTAL					1907	2041	134	7%	3	471	456	-15	-3%	1	592	586	-6	-1%	0

Appendix C – Rail Passenger / Alighting Comparisons

**Transport Model for Scotland
Comparison of Boardings and Alightings - AM Peak
Scotrail Data
Excludes Non ScotRail Services**

Station	Node	Scotrail		TMs07		Difference		% Difference		GEH	
		Boarding	Alighting	Boarding	Alighting	Boarding	Alighting	Boarding	Alighting	Boarding	Alighting
Aberdeen	100048	209	352	95	217	-115	-135	-55%	-38%	9.29	8.01
Aberdour	100314	46	3	45	29	-2	26	-3%	817%	0.24	6.43
Achanalt	100022	0	0	0	0	0	0	-	-	-	-
Achnasheen	100021	0	0	0	0	-0	0	-100%	-	0.95	-
Achnashellach	100020	0	0	7	10	7	10	-	-	-	-
Addiewell	100295	3	0	63	7	60	7	1916%	-	10.45	-
Airbles	100266	37	23	31	22	-6	-1	-17%	-5%	1.06	0.22
Airdrie	100277	367	52	419	67	52	15	14%	29%	2.62	1.95
Alexandra Parade	100251	55	12	55	32	0	19	0%	160%	0.02	4.16
Alexandria	100145	124	28	102	29	-22	1	-18%	4%	2.10	0.21
Alness	100031	7	1	1	6	-6	5	-82%	361%	2.79	2.50
Altnabreac	100008	0	0	0	0	0	0	-	-	-	-
Anderston	100219	39	408	268	1191	229	783	584%	192%	18.46	27.68
Annan	100339	20	7	4	9	-16	2	-79%	33%	4.55	0.79
Anniesland	100218	243	239	308	374	65	135	27%	57%	3.91	7.73
Arbroath	100098	87	30	43	55	-44	25	-51%	85%	5.44	3.86
Ardgay	100032	1	0	19	4	17	4	1290%	-	5.49	-
Ardlui	100069	1	2	1	0	-0	-2	-1%	-99%	0.01	1.88
Ardrossan Harbour	100111	8	0	0	0	-8	0	-100%	-	4.02	-
Ardrossan South Beach	100369	66	12	52	23	-14	10	-21%	85%	1.81	2.49
Ardrossan Town	100109	18	11	2	0	-16	-11	-89%	-100%	5.00	4.65
Argyle Street	100217	89	582	82	207	-7	-376	-8%	-64%	0.74	18.91
Arisaig	100049	1	0	0	0	-1	-0	-100%	-100%	1.64	0.95
Arrochar & Tarbet	100068	3	2	8	1	5	-2	148%	-72%	1.99	1.34
Ashfield	100216	13	4	45	23	33	19	261%	536%	6.10	5.30
Attadale	100018	0	0	0	0	0	0	-	-	-	-
Auchinleck	100363	15	0	85	38	70	38	456%	-	9.85	-
Aviemore	100036	11	4	3	7	-8	3	-74%	66%	3.13	1.15
Ayr	100130	266	171	249	330	-17	158	-6%	92%	1.04	10.00
Baillieston	100250	26	4	10	24	-15	20	-60%	489%	3.62	5.30
Balloch	100147	172	40	230	50	58	11	34%	27%	4.11	1.58
Balmossie	100094	0	0	0	0	0	0	-	-	-	-
Banavie	100065	0	0	0	82	0	82	-	-	-	-
Barassie	100365	61	11	63	7	1	-4	2%	-35%	0.17	1.26
Bargeddie	100276	33	8	8	10	-25	2	-76%	25%	5.55	0.67
Barnhill	100249	24	19	8	8	-16	-11	-65%	-59%	3.87	3.07
Barrhead	100153	238	54	157	54	-80	-0	-34%	-0%	5.73	0.01
Barrhill	100337	0	0	3	2	3	2	-	-	-	-
Barry Links	100097	0	0	0	0	0	0	-	-	-	-
Bathgate	100294	261	41	133	83	-128	41	-49%	100%	9.14	5.26
Bearsden	100225	131	36	132	82	0	46	0%	129%	0.01	6.01
Beasdale	100053	0	0	4	19	4	19	-	-	-	-
Beaully	100025	18	3	35	18	17	15	93%	559%	3.25	4.71
Bellgrove	100248	134	86	163	60	29	-26	22%	-30%	2.39	3.03
Bellshill	100275	170	65	172	59	2	-6	1%	-10%	0.18	0.82
Bishopbriggs	100253	413	68	58	35	-355	-33	-86%	-48%	23.15	4.55
Bishopton	100166	181	26	170	39	-11	13	-6%	50%	0.86	2.27
Blair Atholl	100080	0	0	0	0	-0	-0	-91%	-82%	0.83	0.72
Blairhill	100274	180	68	132	104	-48	37	-27%	55%	3.88	3.97
Blantyre	100229	147	19	88	11	-59	-8	-40%	-41%	5.41	2.00
Bogston	100370	6	5	39	34	33	29	566%	588%	6.99	6.59
Bowling	100165	14	4	17	11	4	7	25%	208%	0.89	2.76
Branchton	100123	18	12	92	70	74	58	400%	497%	9.92	9.11
Breich	100293	0	0	0	0	0	0	-	-	-	-
Bridge of Allan	100281	69	61	95	35	25	-26	36%	-43%	2.79	3.79
Bridge of Orchy	100073	0	0	6	0	6	0	-	-	-	-
Bridgeton	100247	76	85	76	96	-0	10	-0%	12%	0.01	1.10
Brora	100005	2	0	2	4	-1	4	-26%	-	0.42	-
Broughty Ferry	100093	0	0	6	0	6	0	-	-	-	-
Brunstane	100347	81	4	112	63	31	59	38%	1460%	3.13	10.20
Burnside	100246	116	19	69	23	-47	5	-41%	24%	4.93	0.98
Burntisland	100322	45	3	73	7	28	4	63%	143%	3.69	1.79
Busby	100176	62	5	54	11	-8	7	-13%	150%	1.02	2.41
Cambuslang	100245	315	63	234	208	-81	145	-26%	228%	4.91	12.42
Camelon	100390	41	14	60	32	19	18	45%	130%	2.61	3.79
Cardenden	100325	15	0	136	42	121	41	789%	9127%	13.88	8.97
Cardonald	100215	46	31	14	14	-32	-17	-69%	-54%	5.76	3.53
Cardross	100143	99	7	50	4	-49	-3	-49%	-48%	5.66	1.49
Carfin	100265	22	0	32	2	10	1	48%	302%	2.02	1.28
Carluke	100286	100	13	200	66	99	53	99%	422%	8.12	8.50
Carmyle	100244	44	20	71	17	27	-3	63%	-16%	3.61	0.73
Carnoustie	100096	38	3	67	15	29	12	77%	438%	4.04	4.03

Station	Node	Scotrail		Tmfs07		Difference		% Difference		GEH	
		Boarding	Alighting	Boarding	Alighting	Boarding	Alighting	Boarding	Alighting	Boarding	Alighting
Carntyne	100243	73	22	57	14	-16	-7	-22%	-34%	2.02	1.72
Carrbridge	100037	1	1	1	1	-0	0	-6%	11%	0.05	0.10
Carstairs	100359	0	0	53	39	53	39	-	-	-	-
Cartsdyke	100122	30	10	32	3	2	-7	7%	-70%	0.38	2.73
Cathcart	100214	200	28	337	124	136	96	68%	337%	8.33	10.95
Charing Cross (Glasgow)	100213	126	954	343	860	217	-95	172%	-10%	14.16	3.14
Chatelherault	100256	10	3	13	0	3	-2	33%	-90%	0.96	2.01
Clarkston	100175	166	30	162	26	-4	-4	-2%	-13%	0.32	0.75
Cleland	100285	24	1	12	67	-12	66	-50%	4893%	2.84	11.27
Clydebank	100164	76	63	31	62	-45	-2	-59%	-3%	6.17	0.25
Coatbridge Central	100273	3	1	60	50	57	49	1820%	5414%	10.16	9.69
Coatbridge Sunnyside	100272	164	40	229	195	65	156	40%	394%	4.63	14.38
Coatdyke	100271	126	34	122	57	-4	24	-3%	70%	0.32	3.50
Connel Ferry	100056	2	0	0	0	-2	0	-100%	-	2.12	-
Corkerhill	100212	27	62	14	6	-13	-56	-47%	-90%	2.79	9.64
Corpach	100061	0	0	2	11	2	11	336%	-	1.38	-
Corrour	100074	0	0	6	0	6	0	1309%	-	3.20	-
Cowdenbeath	100316	44	8	86	55	42	47	96%	614%	5.21	8.42
Craigendoran	100387	45	49	67	8	21	-40	47%	-83%	2.85	7.56
Crianlarich	100386	0	0	0	0	-0	-0	-96%	-96%	0.89	0.89
Croftfoot	100242	65	4	28	9	-37	5	-57%	148%	5.42	2.13
Crookston	100211	37	36	7	7	-30	-29	-81%	-82%	6.41	6.32
Crosshill	100210	78	100	148	72	71	-28	91%	-28%	6.63	3.02
Crossmyloof	100209	144	77	98	37	-46	-40	-32%	-52%	4.19	5.33
Croy	100280	937	85	545	200	-392	115	-42%	136%	14.40	9.67
Culrain	100029	0	0	15	0	15	0	-	-	-	-
Cumbernauld	100279	104	14	30	17	-74	3	-71%	21%	9.08	0.77
Cupar	100088	48	18	79	48	31	31	65%	175%	3.89	5.36
Curriehill	100305	23	3	12	13	-10	10	-46%	302%	2.46	3.38
Dalgety Bay	100313	102	15	162	18	61	3	60%	23%	5.27	0.85
Dalmally	100063	1	0	0	0	-1	0	-100%	-91%	1.34	0.83
Dalmarnock	100241	18	27	64	44	45	18	245%	67%	7.06	3.00
Dalmeny	100308	132	66	134	52	1	-14	1%	-21%	0.10	1.78
Dalmuir	100163	282	135	353	187	70	51	25%	38%	3.95	4.03
Dalreoch	100388	80	119	154	76	74	-43	92%	-36%	6.84	4.38
Dalry	100108	82	7	76	20	-7	13	-8%	174%	0.77	3.41
Dalwhinnie	100077	0	0	1	0	1	0	-	-	-	-
Dingwall	100384	19	10	10	7	-9	-3	-48%	-28%	2.38	0.94
Drem	100332	37	2	88	5	51	3	139%	169%	6.49	1.67
Drumchapel	100224	89	41	62	22	-27	-19	-31%	-47%	3.14	3.48
Drumfrochar	100121	12	7	67	48	55	40	468%	562%	8.76	7.72
Drumgelloch	100270	81	5	166	60	85	54	105%	1005%	7.65	9.51
Drumry	100223	77	15	79	285	2	270	2%	1764%	0.20	22.02
Duirinish	100015	0	0	0	0	-0	0	-100%	-	0.95	-
Duke Street	100240	22	9	43	24	22	16	100%	186%	3.79	3.92
Dumbarton Central	100141	215	99	315	94	100	-5	46%	-5%	6.12	0.49
Dumbarton East	100162	103	35	111	18	8	-17	8%	-48%	0.80	3.25
Dumbreck	100208	32	12	12	34	-20	22	-62%	179%	4.25	4.54
Dumfries	100338	44	8	34	40	-10	32	-23%	394%	1.64	6.51
Dunbar	100342	0	0	6	2	6	2	-	-	-	-
Dunblane	100078	187	19	164	41	-24	22	-13%	115%	1.79	3.97
Duncreig	100017	0	0	0	0	0	0	-	-	-	-
Dundee	100091	194	275	174	311	-21	36	-11%	13%	1.52	2.12
Dunfermline Queen Margaret	100312	13	0	67	101	54	101	428%	-	8.58	-
Dunfermline Town	100302	262	25	124	92	-138	67	-53%	264%	9.90	8.70
Dunkeld & Birnam	100083	5	1	6	3	1	2	27%	203%	0.53	1.36
Dunlop	100151	21	4	25	6	4	2	20%	53%	0.87	0.89
Dunrobin Castle	100002	0	0	0	0	0	0	-	-	-	-
Dyce	100047	33	150	25	34	-8	-117	-25%	-78%	1.54	12.14
East Kilbride	100228	307	42	49	17	-258	-25	-84%	-59%	19.30	4.55
Easterhouse	100239	152	41	161	102	9	61	6%	150%	0.69	7.26
Edinburgh	100320	1028	3158	771	2707	-258	-451	-25%	-14%	8.59	8.32
Edinburgh Park	100307	64	241	26	252	-39	11	-60%	5%	5.74	0.70
Elgin	100042	39	10	6	8	-33	-2	-84%	-23%	6.88	0.75
Exhibition Centre	100207	62	295	34	233	-28	-62	-45%	-21%	4.01	3.83
Fairlie	100113	10	1	8	3	-3	2	-27%	251%	0.92	1.59
Falkirk Grahamston	100289	94	66	100	105	6	39	6%	59%	0.58	4.20
Falkirk High	100287	328	46	449	102	122	56	37%	120%	6.17	6.46
Falls of Cruachan	100058	0	0	0	0	0	0	-	-	-	-
Fauldhouse	100292	11	2	53	12	42	10	375%	428%	7.42	3.62
Fearn	100039	8	0	1	0	-7	0	-86%	-	3.15	-
Forres	100041	23	3	3	1	-20	-2	-88%	-73%	5.56	1.63
Forsinard	100004	0	0	15	113	14	113	3211%	-	5.22	-
Fort Matilda	100120	75	8	90	87	15	79	20%	971%	1.66	11.42
Fort William	100385	1	10	87	1	86	-9	9578%	-86%	13.00	3.60
Garelochhead	100126	3	0	59	98	55	98	1762%	-	9.98	-

Station	Node	Scotrail		Tmfs07		Difference		% Difference		GEH	
		Boarding	Alighting	Boarding	Alighting	Boarding	Alighting	Boarding	Alighting	Boarding	Alighting
Garrowhill	100238	214	23	168	33	-47	10	-22%	42%	3.38	1.84
Garscadden	100206	104	14	223	47	120	32	116%	225%	9.37	5.85
Gartcosh	100267	36	2	70	4	33	2	92%	138%	4.59	1.42
Garve	100024	22	1	1	1	-21	0	-94%	21%	6.11	0.19
Georgemas Junction	100010	0	0	84	12	84	12	-	-	-	-
Giffnock	100174	86	34	57	53	-30	19	-35%	56%	3.53	2.89
Gilshochill	100205	20	5	25	3	4	-2	22%	-37%	0.93	0.86
Girvan	100336	0	0	19	6	19	6	-	-	-	-
Glasgow Central	100204	1596	8063	2536	5897	940	-2166	59%	-27%	20.69	25.93
Glasgow Queen Street	100203	842	3453	1953	4336	1111	882	132%	26%	29.72	14.14
Gleneagles	100081	7	1	4	3	-3	2	-46%	203%	1.40	1.36
Glenfinnan	100055	0	0	0	0	0	0	-	-	-	-
Glengarnock	100135	103	14	158	50	55	36	53%	258%	4.80	6.36
Glenrothes With Thornton	100374	0	0	62	45	62	45	-	-	-	-
Golf Street	100095	0	0	0	0	0	0	-	-	-	-
Golspie	100040	21	1	5	24	-16	22	-78%	1659%	4.52	6.32
Gourock	100119	177	23	277	143	100	119	56%	510%	6.61	13.10
Greenfaulds	100278	42	8	44	35	2	27	5%	331%	0.29	5.78
Greenock Central	100118	72	62	122	183	49	121	68%	195%	4.99	10.92
Greenock West	100117	114	92	96	187	-18	95	-16%	104%	1.73	8.08
Gretna Green	100362	6	0	6	4	-0	4	-5%	856%	0.12	2.50
Hairmyres	100227	234	59	148	71	-86	12	-37%	20%	6.24	1.47
Hamilton Central	100264	195	75	172	187	-22	112	-12%	150%	1.66	9.78
Hamilton West	100263	208	106	195	190	-14	84	-7%	79%	0.96	6.89
Hartwood	100284	7	0	38	18	32	17	467%	3804%	6.64	5.70
Hawkhead	100159	49	14	1	10	-48	-4	-98%	-27%	9.56	1.08
Haymarket	100348	603	1770	840	1902	237	132	39%	7%	8.84	3.09
Helensburgh Central	100125	276	39	236	49	-40	10	-15%	26%	2.51	1.55
Helensburgh Upper	100124	18	0	35	30	17	30	92%	-	3.27	-
Helmsdale	100007	0	0	1	5	0	5	82%	-	0.46	-
High Street (Glasgow)	100202	58	254	86	148	28	-106	49%	-42%	3.32	7.50
Hillfoot	100222	99	13	307	88	207	75	208%	572%	14.54	10.52
Hillington East	100201	53	43	23	11	-30	-33	-57%	-75%	4.91	6.27
Hillington West	100200	46	114	17	129	-30	15	-64%	13%	5.29	1.35
Holytown	100262	48	3	93	70	46	66	96%	2106%	5.43	11.01
Howwood (Renfrewshire)	100136	24	1	7	1	-17	-0	-70%	-1%	4.25	0.01
Huntly	100044	21	6	26	17	5	11	24%	191%	1.03	3.30
Hyndland	100199	441	290	540	463	99	173	22%	60%	4.47	8.90
IBM	100116	11	69	8	29	-4	-39	-31%	-57%	1.14	5.63
Insch	100045	27	1	33	5	7	3	25%	258%	1.21	1.98
Invergordon	100034	9	2	1	1	-8	-1	-88%	-53%	3.55	0.84
Invergowrie	100089	0	2	0	0	0	-2	-	-100%	-	1.90
Inverkeithing	100371	393	62	537	64	144	2	37%	3%	6.66	0.26
Inverkip	100115	20	4	26	5	6	1	29%	37%	1.23	0.64
Inverness	100447	65	150	82	58	17	-91	26%	-61%	1.98	8.96
Invershin	100028	0	0	0	0	0	0	-	-	-	-
Inverurie	100046	37	9	4	1	-33	-8	-89%	-86%	7.24	3.44
Irvine	100132	242	67	167	51	-75	-16	-31%	-24%	5.22	2.13
Johnstone	100158	397	59	256	35	-142	-24	-36%	-41%	7.85	3.52
Jordanhill	100198	106	79	216	308	110	229	103%	289%	8.63	16.47
Keith	100043	21	4	10	4	-11	1	-52%	15%	2.81	0.27
Kelvindale	100177	17	8	5	40	-12	32	-70%	393%	3.59	6.49
Kennishead	100197	15	8	14	3	-1	-4	-7%	-56%	0.29	1.81
Kildonan	100006	0	0	36	0	36	0	-	-	-	-
Kilmarnock	100366	105	29	200	167	95	138	90%	471%	7.66	13.91
Kilmaurs	100150	9	5	197	194	189	189	2205%	4201%	18.59	19.00
Kilpatrick	100161	46	7	43	6	-3	-1	-6%	-13%	0.41	0.36
Kilwinning	100448	286	82	264	125	-23	44	-8%	53%	1.36	4.27
Kinbrace	100003	0	0	0	0	0	0	-	-	-	-
Kinghorn	100321	39	2	73	72	35	70	90%	3100%	4.63	11.45
Kings Park	100196	53	11	47	20	-6	9	-11%	77%	0.82	2.18
Kingsknowe	100318	9	0	1	2	-8	2	-92%	342%	3.65	1.39
Kingussie	100033	4	4	0	0	-3	-4	-94%	-98%	2.47	2.58
Kirkcaldy	100323	226	73	409	184	183	111	81%	151%	10.27	9.75
Kirkconnel	100255	8	0	17	3	9	3	115%	-	2.61	-
Kirkhill	100237	53	8	16	7	-37	-1	-70%	-8%	6.32	0.24
Kirknewton	100304	16	3	9	13	-7	10	-42%	326%	1.90	3.57
Kirkwood	100269	53	4	11	4	-41	-0	-79%	-0%	7.31	0.01
Kyle of Lochalsh	100013	0	0	0	0	-0	0	-100%	-	0.95	-
Ladybank	100377	13	3	40	16	27	13	215%	417%	5.30	4.21
Lairg	100000	1	0	0	1	-1	1	-63%	211%	0.73	0.99
Lanark	100282	106	10	108	91	3	80	2%	777%	0.24	11.31
Langbank	100140	23	5	9	2	-14	-2	-60%	-52%	3.50	1.29
Langside	100195	91	12	60	8	-32	-4	-35%	-32%	3.64	1.23
Larbert	100288	176	32	228	64	53	31	30%	96%	3.73	4.50
Largs	100112	62	41	131	2	69	-39	112%	-94%	7.06	8.29

Station	Node	Scotrail		Tmfs07		Difference		% Difference		GEH	
		Boarding	Alighting	Boarding	Alighting	Boarding	Alighting	Boarding	Alighting	Boarding	Alighting
Larkhall	100257	108	23	159	104	51	81	47%	345%	4.40	10.10
Lenzie	100252	563	70	224	16	-338	-54	-60%	-77%	17.06	8.17
Leuchars (for St Andrews)	100090	22	20	60	22	38	3	171%	13%	5.89	0.55
Linlithgow	100301	487	45	428	76	-59	32	-12%	71%	2.76	4.09
Livingston North	100299	234	74	48	13	-186	-61	-80%	-83%	15.69	9.30
Livingston South	100298	92	12	65	25	-28	14	-30%	117%	3.13	3.18
Loch Awe	100062	0	0	0	0	0	-0	-	-100%	-	0.95
Loch Eil Outward Bound	100060	0	0	0	0	0	0	-	-	-	-
Lochailort	100052	0	0	17	1	17	1	-	-	-	-
Locheilside	100057	0	0	0	0	0	-0	-	-100%	-	0.95
Lochgelly	100315	22	2	77	59	55	57	257%	3151%	7.90	10.33
Lochluichart	100023	0	0	3	0	3	0	-	-	-	-
Lochwinnoch	100134	47	15	59	4	12	-11	26%	-76%	1.69	3.71
Lockerbie	100340	0	0	0	0	0	0	-	-	-	-
Longniddry	100331	79	3	71	1	-9	-2	-11%	-60%	0.98	1.28
Mallaig	100051	0	2	1	0	1	0	-	-100%	-	1.90
Markinch	100085	35	11	94	45	59	34	171%	316%	7.39	6.46
Maryhill	100194	21	8	42	85	22	77	104%	955%	3.83	11.31
Maxwell Park	100193	40	50	8	14	-32	-35	-80%	-71%	6.46	6.22
Maybole	100103	0	0	14	6	14	6	-	-	-	-
Merryton	100258	45	1	91	9	46	8	102%	912%	5.57	3.67
Milliken Park	100157	61	14	32	36	-29	22	-47%	165%	4.20	4.48
Milngavie	100221	240	49	288	56	48	7	20%	13%	2.97	0.91
Monifieth	100092	0	0	0	0	0	0	-	-	-	-
Montrose	100099	90	11	82	34	-8	23	-9%	213%	0.91	4.86
Morar	100050	0	0	0	0	0	0	-	-	-	-
Mosspark	100192	43	5	3	18	-40	13	-94%	236%	8.45	3.71
Motherwell	100261	216	93	298	252	83	159	38%	171%	5.17	12.11
Mount Florida	100191	248	111	336	114	89	3	36%	2%	5.20	0.24
Mount Vernon	100236	19	4	8	5	-11	1	-57%	20%	2.94	0.38
Muir of Ord	100026	17	2	7	7	-11	5	-62%	294%	3.06	2.51
Muirend	100173	157	7	57	22	-100	16	-64%	233%	9.72	4.11
Musselburgh	100329	115	5	23	8	-92	3	-80%	60%	11.10	1.16
Nairn	100038	25	3	4	1	-21	-2	-83%	-57%	5.43	1.11
Neilston	100152	241	17	165	14	-76	-3	-32%	-17%	5.34	0.75
New Cumnock	100226	5	0	26	17	21	17	418%	-	5.29	-
Newcraighall	100344	85	3	67	15	-17	12	-21%	442%	2.00	4.06
Newton (Lanarkshire)	100235	177	20	93	31	-85	11	-48%	53%	7.30	2.14
Newtonmore	100079	1	0	0	0	-1	0	-100%	-	1.64	-
Newton-on-Ayr	100129	17	14	105	120	89	106	533%	763%	11.36	12.99
Nitshill	100190	17	12	21	14	4	2	24%	21%	0.91	0.68
North Berwick	100333	119	9	144	23	25	14	21%	165%	2.20	3.57
North Queensferry	100310	57	9	45	11	-12	2	-21%	26%	1.69	0.71
Oban	100054	17	0	0	0	-17	0	-100%	-	5.85	-
Paisley Canal	100156	133	43	39	27	-94	-17	-71%	-38%	10.10	2.80
Paisley Gilmour Street	100155	679	629	639	810	-40	181	-6%	29%	1.55	6.75
Paisley St James	100154	12	10	27	36	15	26	130%	249%	3.46	5.35
Partick	100189	604	692	546	823	-58	132	-10%	19%	2.43	4.78
Patterton	100172	0	14	30	37	30	23	-	173%	-	4.65
Perth	100378	117	70	137	100	20	30	17%	44%	1.77	3.30
Pitlochry	100082	5	1	7	2	3	1	62%	65%	1.15	0.66
Plockton	100014	1	0	0	0	-1	-0	-100%	-100%	1.64	0.95
Pollokshaws East	100188	98	17	74	18	-23	2	-24%	11%	2.52	0.44
Pollokshaws West	100187	30	23	129	62	99	39	329%	171%	11.10	6.00
Pollokshields East	100186	82	22	33	41	-48	19	-59%	88%	6.38	3.41
Pollokshields West	100185	41	20	8	10	-33	-10	-81%	-51%	6.70	2.64
Polmont	100389	276	32	352	62	76	30	28%	97%	4.30	4.45
Port Glasgow	100139	175	36	186	98	12	62	7%	173%	0.88	7.60
Portlethen	100101	18	1	0	0	-18	-1	-100%	-87%	6.07	1.35
Possilpark & Parkhouse	100184	4	14	38	18	34	4	957%	26%	7.55	0.92
Prestonpans	100327	84	2	101	26	17	24	20%	1069%	1.73	6.37
Prestwick International Airport	100128	27	55	35	39	8	-16	29%	-29%	1.43	2.35
Prestwick Town	100127	87	19	79	29	-8	10	-9%	53%	0.90	2.05
Priesthill & Darnley	100183	38	5	18	55	-21	51	-54%	1130%	3.91	9.29
Queens Park (Glasgow)	100182	127	21	128	30	1	9	1%	43%	0.06	1.78
Rannoch	100076	3	0	0	0	-3	0	-100%	-	2.51	-
Renton	100138	34	14	44	63	10	49	29%	337%	1.57	7.81
Rogart	100001	1	0	5	1	4	1	486%	-	2.49	-
Rosyth	100309	96	28	95	34	-1	5	-1%	19%	0.11	0.98
Roy Bridge	100067	0	0	0	0	0	0	-	-	-	-
Rutherglen	100234	198	92	209	164	10	72	5%	79%	0.72	6.40
Saltcoats	100106	70	31	31	4	-39	-27	-55%	-87%	5.43	6.38
Sanquhar	100254	11	3	16	4	4	1	39%	30%	1.19	0.49
Scotsalder	100009	0	0	0	2	0	2	-	-	-	-
Scotstounhill	100181	130	25	249	62	119	36	92%	144%	8.67	5.52
Shawlands	100180	64	11	19	10	-45	-1	-70%	-6%	6.99	0.19

Station	Node	Scotrail		Tmfs07		Difference		% Difference		GEH	
		Boarding	Alighting	Boarding	Alighting	Boarding	Alighting	Boarding	Alighting	Boarding	Alighting
Shettleston	100233	216	63	192	90	-25	27	-11%	43%	1.72	3.07
Shieldmuir	100260	15	5	48	35	33	30	221%	674%	5.87	6.84
Shotts	100283	87	12	126	40	39	28	45%	228%	3.78	5.43
Singer	100160	107	202	91	180	-16	-22	-15%	-11%	1.57	1.58
Slateford	100352	2	17	18	36	16	20	690%	118%	4.91	3.81
South Gyle	100306	68	296	12	74	-56	-222	-83%	-75%	8.93	16.33
Spean Bridge	100066	0	0	0	0	-0	0	-100%	-	0.95	-
Springburn	100232	57	90	91	57	34	-33	59%	-36%	3.94	3.81
Springfield	100087	0	0	0	3	-0	3	-100%	-	0.95	-
Stepps	100231	103	8	28	2	-75	-5	-73%	-71%	9.24	2.45
Stevenston	100105	41	3	49	8	9	5	21%	158%	1.27	2.10
Stewarton	100149	100	4	57	48	-43	44	-43%	1096%	4.87	8.66
Stirling	100383	362	248	382	304	19	55	5%	22%	1.00	3.33
Stonehaven	100100	110	6	37	3	-73	-4	-66%	-56%	8.50	1.64
Stranraer	100335	0	0	10	3	10	3	-	-	-	-
Strathcarron	100019	0	0	0	0	-0	0	-100%	-	0.95	-
Stromeferry	100016	0	0	0	0	0	0	-	-	-	-
Summerston	100179	32	4	4	1	-27	-3	-86%	-65%	6.39	1.60
Tain	100035	12	4	10	11	-2	7	-19%	207%	0.67	2.76
Taynuilt	100059	0	0	0	1	-0	1	-100%	-	0.95	-
Thornliebank	100171	51	11	64	38	13	27	24%	236%	1.65	5.36
Thorntonhall	100170	13	1	4	0	-9	-1	-69%	-83%	3.06	1.26
Thurso	100011	0	0	87	103	87	103	-	-	-	-
Troon	100131	186	30	207	146	21	116	11%	385%	1.47	12.37
Tulloch	100075	0	0	0	0	0	0	-	-	-	-
Tyndrum Lower	100072	0	0	0	0	-0	0	-100%	-	0.95	-
Uddingston	100230	251	73	249	64	-1	-10	-1%	-13%	0.09	1.18
Uphall	100300	94	21	120	39	27	18	29%	86%	2.58	3.30
Upper Tyndrum	100071	0	0	0	0	0	0	-	-	-	-
Wallyford	100326	81	3	87	12	5	10	7%	356%	0.59	3.51
Wemyss Bay	100102	39	3	39	11	-0	9	-1%	325%	0.05	3.30
West Calder	100297	38	5	27	39	-11	34	-29%	761%	1.96	7.36
West Kilbride	100104	47	5	46	2	-1	-3	-3%	-57%	0.18	1.42
Wester Hailes	100303	5	3	15	5	10	3	201%	96%	3.16	1.30
Westerton	100395	265	67	236	131	-29	64	-11%	96%	1.81	6.44
Whifflet	100268	70	14	42	63	-28	49	-40%	350%	3.80	7.89
Whinhill	100114	19	5	37	31	19	26	98%	583%	3.50	6.25
Whitecraigs	100169	119	8	51	10	-68	3	-57%	35%	7.42	0.88
Wick	100012	0	0	55	59	55	59	-	-	-	-
Williamwood	100168	103	78	124	44	21	-34	21%	-44%	1.99	4.38
Wishaw	100422	94	10	163	37	69	27	74%	276%	6.11	5.63
Woodhall	100137	18	6	133	50	115	44	638%	751%	13.23	8.33
Yoker	100178	52	21	20	1	-32	-20	-62%	-96%	5.32	6.16

GEH Summary

GEH	Boarding	Alighting	Boarding	Alighting
<5	188	177	64%	65%
<7	240	213	81%	78%
<10	275	244	93%	89%
>10	21	29	7%	11%
Total	296	273		

% Difference Summary

% Difference	Boarding	Alighting	Boarding	Alighting
<15%	53	28	18%	10%
<25%	81	45	27%	16%
>25%	215	228	73%	84%
Total	296	273		

Transport Model for Scotland
Comparison of Boardings and Alightings - Inter Peak
Scotrail Data **Excludes Non ScotRail Services**

Station	Node	Scotrail		TMs07		Difference		% Difference		GEH	
		Boarding	Alighting	Boarding	Alighting	Boarding	Alighting	Boarding	Alighting	Boarding	Alighting
Aberdeen	100048	188	173	119	154	-69	-19	-37%	-11%	5.60	1.47
Aberdour	100314	7	5	20	23	13	18	181%	365%	3.51	4.86
Achanalt	100022	0	0	0	0	0	0	-	-	-	-
Achnasheen	100021	0	0	0	0	0	0	-	-	-	-
Achnashellach	100020	0	0	3	3	3	2	-	662%	-	1.84
Addiewell	100295	1	0	8	10	7	10	715%	-	3.34	-
Airbles	100266	15	9	27	23	12	14	83%	148%	2.69	3.39
Airdrie	100277	83	59	106	110	23	52	28%	88%	2.36	5.61
Alexandra Parade	100251	13	6	20	24	7	18	57%	285%	1.80	4.55
Alexandria	100145	26	22	38	41	12	18	47%	83%	2.15	3.30
Alness	100031	1	1	3	3	2	2	294%	442%	1.71	1.74
Altnabreac	100008	0	0	0	0	0	0	-	-	-	-
Anderston	100219	21	17	167	244	146	227	695%	1350%	15.06	19.89
Annan	100339	9	5	11	7	2	2	26%	52%	0.73	0.99
Anniesland	100218	80	68	201	192	121	124	152%	183%	10.24	10.91
Arbroath	100098	27	29	70	51	43	22	158%	74%	6.17	3.41
Ardgay	100032	0	0	5	12	4	12	1334%	3635%	2.78	4.79
Ardlui	100069	1	0	0	0	-0	-0	-82%	-100%	0.75	0.58
Ardrossan Harbour	100111	5	10	0	0	-5	-10	-100%	-100%	3.21	4.40
Ardrossan South Beach	100369	12	8	32	23	20	15	167%	195%	4.26	3.89
Ardrossan Town	100109	5	13	3	2	-2	-11	-43%	-84%	1.08	3.91
Argyle Street	100217	140	145	54	94	-86	-51	-61%	-35%	8.73	4.70
Arisaig	100049	2	0	0	0	-2	-0	-100%	-100%	2.00	0.82
Arrochar & Tarbet	100068	1	2	1	1	-0	-2	-48%	-70%	0.55	1.27
Ashfield	100216	8	7	13	26	5	19	69%	272%	1.63	4.68
Attadale	100018	0	1	0	0	0	-1	-	-100%	-	1.15
Auchinleck	100363	4	3	41	39	38	36	1077%	1363%	7.98	7.96
Aviemore	100036	10	9	7	8	-3	-1	-30%	-8%	1.01	0.26
Ayr	100130	118	127	218	152	100	25	85%	20%	7.70	2.10
Baillieston	100250	5	5	4	6	-1	1	-21%	29%	0.50	0.59
Balloch	100147	38	27	51	72	14	45	37%	165%	2.06	6.39
Balmossie	100094	0	0	0	0	0	0	-	-	-	-
Banavie	100065	0	0	0	1	-0	1	-46%	215%	0.21	0.86
Barassie	100365	13	9	10	22	-3	13	-21%	138%	0.80	3.25
Bargeddie	100276	5	6	4	5	-1	-0	-17%	-2%	0.40	0.04
Barnhill	100249	8	4	5	8	-3	3	-32%	75%	0.98	1.33
Barrhead	100153	40	38	91	61	51	23	129%	61%	6.33	3.27
Barrhill	100337	0	0	2	2	2	2	-	-	-	-
Barry Links	100097	0	0	0	0	0	0	-	-	-	-
Bathgate	100294	59	51	76	63	17	13	29%	25%	2.07	1.70
Bearsden	100225	31	29	59	39	28	9	93%	31%	4.24	1.58
Beasdale	100053	0	0	11	14	11	14	-	-	-	-
Beaully	100025	2	2	23	22	21	20	1413%	844%	6.09	5.64
Bellgrove	100248	31	29	50	49	20	21	64%	71%	3.09	3.29
Bells Hill	100275	39	37	42	44	3	7	8%	19%	0.46	1.12
Bishopbriggs	100253	78	74	10	19	-68	-54	-87%	-74%	10.28	8.00
Bishopton	100166	35	41	40	48	5	7	15%	16%	0.86	1.01
Blair Atholl	100080	0	1	1	11	1	10	380%	1559%	0.91	4.29
Blairhill	100274	89	36	68	40	-21	4	-23%	11%	2.33	0.66
Blantyre	100229	27	24	30	18	3	-6	12%	-24%	0.61	1.27
Bogston	100370	1	3	21	26	20	23	1971%	864%	5.98	6.12
Bowling	100165	4	6	9	8	5	2	146%	36%	2.13	0.82
Branchton	100123	7	8	39	54	32	46	500%	559%	6.81	8.20
Breich	100293	0	0	0	0	0	0	-	-	-	-
Bridge of Allan	100281	10	12	36	28	26	17	266%	144%	5.46	3.75
Bridge of Orchy	100073	1	1	0	1	-1	1	-97%	110%	1.10	0.62
Bridgeton	100247	26	19	23	67	-3	48	-13%	261%	0.70	7.39
Brora	100005	0	1	0	1	-0	-0	-76%	-25%	0.56	0.22
Broughty Ferry	100093	0	0	0	0	0	0	-	146%	-	0.45
Brunstane	100347	7	10	33	22	26	11	367%	112%	5.77	2.86
Burnside	100246	19	26	15	15	-4	-11	-19%	-43%	0.87	2.47
Burntisland	100322	11	11	24	38	13	26	113%	237%	3.01	5.36
Busby	100176	10	7	14	18	4	11	39%	163%	1.13	3.12
Cambuslang	100245	40	47	71	80	31	33	78%	69%	4.20	4.08
Camelon	100390	6	5	23	23	18	18	324%	357%	4.69	4.79
Cardenden	100325	7	5	49	92	41	87	577%	1628%	7.84	12.44
Cardonald	100215	12	9	19	13	6	3	52%	37%	1.62	1.05
Cardross	100143	8	12	21	22	13	11	162%	92%	3.41	2.58
Carfin	100265	6	3	3	3	-3	1	-53%	20%	1.53	0.32
Carluke	100286	14	9	69	64	56	55	412%	622%	8.65	9.12
Carmyle	100244	10	10	15	18	5	8	54%	87%	1.52	2.23
Carnoustie	100096	7	6	22	8	15	2	211%	36%	3.94	0.78

Station	Node	Scotrail		Tmfs07		Difference		% Difference		GEH	
		Boarding	Alighting	Boarding	Alighting	Boarding	Alighting	Boarding	Alighting	Boarding	Alighting
Carntyne	100243	16	16	21	24	4	8	26%	52%	1.01	1.82
Carrbridge	100037	0	0	0	0	0	0	-	32%	-	0.17
Carstairs	100359	0	0	8	9	8	9	-	-	-	-
Cartsdyke	100122	9	12	15	18	6	7	65%	56%	1.71	1.70
Cathcart	100214	25	37	54	93	29	55	116%	148%	4.59	6.86
Charing Cross (Glasgow)	100213	98	106	217	218	119	112	121%	106%	9.45	8.80
Chatelherault	100256	5	4	13	3	8	-1	179%	-16%	2.76	0.31
Clarkston	100175	29	25	32	23	3	-1	9%	-4%	0.49	0.21
Cleland	100285	4	4	44	18	41	15	1105%	420%	8.28	4.46
Clydebank	100164	26	32	17	10	-9	-22	-36%	-70%	2.00	4.90
Coatbridge Central	100273	0	0	22	20	22	20	-	-	-	-
Coatbridge Sunnyside	100272	48	39	102	69	54	30	113%	77%	6.27	4.08
Coatdyke	100271	27	24	55	55	28	32	106%	133%	4.44	5.02
Connel Ferry	100056	0	1	0	0	-0	-1	-100%	-100%	0.58	1.41
Corkerhill	100212	31	25	5	10	-26	-15	-85%	-60%	6.21	3.60
Corpach	100061	0	0	2	3	2	3	-	-	-	-
Corrour	100074	0	2	1	0	0	-1	50%	-77%	0.26	1.32
Cowdenbeath	100316	15	15	38	39	24	24	163%	157%	4.60	4.60
Craigendoran	100387	20	11	20	16	-0	5	-1%	41%	0.02	1.25
Crianlarich	100386	4	3	1	1	-3	-2	-65%	-66%	1.58	1.46
Croftfoot	100242	9	12	6	9	-3	-3	-35%	-26%	1.18	0.94
Crookston	100211	21	12	5	6	-16	-6	-78%	-49%	4.48	1.93
Crosshill	100210	54	13	57	58	3	46	6%	367%	0.41	7.71
Crossmyloof	100209	27	13	29	29	2	16	8%	124%	0.42	3.49
Croy	100280	109	94	110	84	0	-10	0%	-10%	0.04	1.03
Culrain	100029	1	1	3	4	3	4	578%	554%	2.07	2.33
Cumbernauld	100279	14	10	11	13	-3	3	-22%	27%	0.88	0.80
Cupar	100088	16	14	71	28	56	14	361%	100%	8.48	3.05
Curriehill	100305	3	2	2	4	-1	2	-22%	104%	0.38	1.25
Dalgety Bay	100313	13	14	15	32	2	19	18%	138%	0.61	3.90
Dalmally	100063	1	0	0	1	-1	1	-93%	215%	1.47	0.86
Dalmarnock	100241	6	4	36	47	30	43	489%	1127%	6.54	8.57
Dalmeny	100308	16	19	14	8	-2	-11	-10%	-56%	0.43	2.86
Dalmuir	100163	81	73	144	102	62	29	77%	40%	5.87	3.09
Dalreoch	100388	44	24	57	65	12	41	28%	170%	1.75	6.16
Dalry	100108	12	8	17	53	4	45	34%	535%	1.11	8.05
Dalwhinnie	100077	1	0	2	1	1	1	228%	422%	1.10	0.98
Dingwall	100384	3	6	11	7	9	1	325%	19%	3.28	0.43
Drem	100332	5	4	12	18	7	15	156%	415%	2.48	4.43
Drumchapel	100224	31	23	33	24	1	1	5%	6%	0.26	0.27
Drumfrochar	100121	7	4	35	37	28	33	387%	913%	6.04	7.41
Drumgelloch	100270	9	11	71	56	62	45	678%	397%	9.80	7.73
Drumry	100223	14	20	72	80	58	60	402%	303%	8.77	8.50
Duirinish	100015	0	0	0	0	0	0	-	-	-	-
Duke Street	100240	6	5	12	12	6	7	111%	133%	2.16	2.35
Dumbarton Central	100141	60	55	80	77	21	22	35%	40%	2.49	2.71
Dumbarton East	100162	25	30	28	31	3	2	11%	6%	0.52	0.34
Dumbreck	100208	13	8	9	15	-3	6	-24%	76%	0.91	1.88
Dumfries	100338	33	30	43	28	10	-2	29%	-7%	1.58	0.37
Dunbar	100342	0	0	16	31	16	31	-	-	-	-
Dunblane	100078	33	31	48	39	15	9	44%	28%	2.32	1.46
Duncraig	100017	0	0	0	0	0	0	-	-	-	-
Dundee	100091	117	98	169	219	53	121	45%	123%	4.40	9.58
Dunfermline Queen Margaret	100312	0	0	27	57	27	57	-	-	-	-
Dunfermline Town	100302	35	33	32	42	-3	9	-7%	28%	0.44	1.52
Dunkeld & Birnam	100083	2	1	4	3	2	2	65%	320%	0.87	1.62
Dunlop	100151	4	5	7	14	3	9	85%	209%	1.42	3.10
Dunrobin Castle	100002	0	0	0	0	-0	0	-100%	-	0.82	-
Dyce	100047	21	20	32	25	11	5	53%	22%	2.14	0.96
East Kilbride	100228	57	38	14	14	-42	-23	-75%	-62%	7.14	4.58
Easterhouse	100239	28	48	74	105	46	57	162%	118%	6.40	6.49
Edinburgh	100320	758	824	555	561	-203	-263	-27%	-32%	7.91	9.99
Edinburgh Park	100307	25	18	48	60	23	42	94%	232%	3.88	6.70
Elgin	100042	13	14	14	11	1	-3	7%	-20%	0.24	0.78
Exhibition Centre	100207	36	34	66	45	31	11	87%	31%	4.33	1.71
Fairlie	100113	3	3	5	5	2	2	59%	79%	0.90	1.15
Falkirk Grahamston	100289	36	24	39	65	3	41	9%	172%	0.52	6.18
Falkirk High	100287	43	46	106	78	62	32	144%	70%	7.23	4.07
Falls of Cruachan	100058	0	0	0	0	0	0	-	-	-	-
Fauldhouse	100292	3	3	28	30	25	27	842%	950%	6.39	6.67
Fearn	100039	0	0	0	0	-0	0	-94%	-	0.53	-
Forres	100041	9	5	2	2	-7	-3	-77%	-58%	2.97	1.58
Forsinard	100004	0	0	21	21	21	21	-	-	-	-
Fort Matilda	100120	14	12	77	61	64	49	473%	427%	9.47	8.18
Fort William	100385	9	20	5	2	-3	-18	-40%	-90%	1.31	5.35
Garelochhead	100126	0	0	43	50	43	50	12848%	14903%	9.18	9.90

Station	Node	Scotrail		Tmfs07		Difference		% Difference		GEH	
		Boarding	Alighting	Boarding	Alighting	Boarding	Alighting	Boarding	Alighting	Boarding	Alighting
Garrowhill	100238	27	33	34	79	7	46	27%	138%	1.30	6.15
Garscadden	100206	17	17	56	107	38	90	224%	516%	6.37	11.36
Gartcosh	100267	5	4	12	26	8	22	171%	567%	2.66	5.67
Garve	100024	1	0	0	5	-0	5	-37%	2948%	0.33	3.03
Georgemas Junction	100010	0	0	10	22	10	22	5744%	-	4.30	-
Giffnock	100174	19	20	18	28	-0	8	-1%	39%	0.06	1.60
Gilshochill	100205	6	5	4	17	-2	13	-32%	273%	0.85	3.84
Girvan	100336	6	0	31	36	25	36	457%	-	5.91	-
Glasgow Central	100204	1393	1517	1866	1963	473	446	34%	29%	11.72	10.70
Glasgow Queen Street	100203	782	799	1384	1335	602	536	77%	67%	18.29	16.41
Gleneagles	100081	1	0	10	1	9	1	1340%	269%	3.94	1.01
Glenfinnan	100055	1	0	0	0	-1	0	-100%	-	1.15	-
Glengarnock	100135	20	18	65	51	45	33	224%	189%	6.91	5.69
Glenrothes With Thornton	100374	0	0	60	28	60	28	-	-	-	-
Golf Street	100095	0	0	0	0	0	0	-	-	-	-
Golspie	100040	1	5	9	2	8	-3	1670%	-62%	3.86	1.63
Gourock	100119	55	41	124	112	69	71	126%	176%	7.33	8.16
Greenfaulds	100278	5	5	28	19	23	14	471%	270%	5.65	3.94
Greenock Central	100118	38	39	88	70	50	31	130%	80%	6.24	4.22
Greenock West	100117	66	49	90	55	24	6	36%	11%	2.67	0.78
Gretna Green	100362	3	5	3	6	0	2	13%	36%	0.21	0.69
Hairmyres	100227	27	26	32	37	5	11	19%	42%	0.95	1.94
Hamilton Central	100264	47	48	123	104	76	56	161%	116%	8.23	6.39
Hamilton West	100263	52	34	124	80	72	46	137%	134%	7.64	6.07
Hartwood	100284	1	1	14	25	13	24	1140%	2895%	4.76	6.72
Hawkhead	100159	10	9	2	2	-7	-7	-76%	-74%	2.99	2.84
Haymarket	100348	257	271	533	588	276	318	108%	117%	13.90	15.32
Helensburgh Central	100125	54	58	51	64	-2	6	-4%	11%	0.32	0.80
Helensburgh Upper	100124	2	2	20	21	18	19	775%	956%	5.36	5.62
Helmsdale	100007	0	1	2	3	2	3	-	382%	-	1.83
High Street (Glasgow)	100202	42	63	46	84	4	21	10%	33%	0.66	2.43
Hillfoot	100222	18	17	103	76	85	60	486%	354%	10.98	8.72
Hillington East	100201	16	9	6	10	-9	0	-58%	3%	2.73	0.09
Hillington West	100200	22	15	25	14	3	-1	13%	-6%	0.61	0.25
Holytown	100262	6	7	47	52	41	45	699%	700%	7.96	8.41
Howwood (Renfrewshire)	100136	3	4	7	1	4	-2	108%	-63%	1.59	1.49
Huntly	100044	4	5	22	4	18	-0	501%	-6%	5.12	0.13
Hyndland	100199	138	108	353	353	215	245	155%	228%	13.69	16.17
IBM	100116	2	4	4	6	2	2	77%	68%	0.93	1.12
Insch	100045	5	2	15	20	11	18	244%	876%	3.47	5.34
Invergordon	100034	1	3	1	0	0	-2	2%	-82%	0.02	1.70
Invergowrie	100089	0	0	1	0	1	0	-	-	-	-
Inverkeithing	100371	43	50	134	108	92	58	215%	115%	9.74	6.50
Inverkip	100115	5	5	4	3	-2	-1	-29%	-28%	0.72	0.67
Inverness	100447	90	69	43	61	-47	-8	-52%	-12%	5.75	1.00
Invershin	100028	0	0	0	0	0	0	-	-	-	-
Inverurie	100046	9	15	3	4	-6	-10	-65%	-69%	2.33	3.27
Irvine	100132	39	48	35	48	-4	1	-11%	1%	0.71	0.08
Johnstone	100158	68	65	68	81	-0	16	-0%	25%	0.01	1.88
Jordanhill	100198	38	27	245	90	207	63	550%	229%	17.43	8.17
Keith	100043	3	2	9	7	6	5	218%	238%	2.54	2.27
Kelvindale	100177	12	4	21	6	8	2	68%	56%	2.06	0.95
Kennishead	100197	4	4	3	4	-1	1	-23%	22%	0.49	0.40
Kildonan	100006	0	0	2	1	2	1	-	-	-	-
Kilmarnock	100366	43	38	169	154	126	116	295%	308%	12.27	11.85
Kilmaurs	100150	4	4	143	126	140	122	3998%	3495%	16.33	15.21
Kilpatrick	100161	5	11	13	26	8	15	149%	140%	2.60	3.54
Kilwinning	100448	69	72	128	114	59	42	85%	59%	5.94	4.39
Kinbrace	100003	0	0	0	0	0	0	-	-	-	-
Kinghorn	100321	12	8	57	24	45	17	376%	212%	7.68	4.13
Kings Park	100196	8	6	14	18	6	12	72%	209%	1.77	3.53
Kingsknowe	100318	2	2	1	0	-1	-2	-63%	-100%	1.04	1.73
Kingussie	100033	3	3	0	0	-3	-3	-98%	-99%	2.31	2.33
Kirkcaldy	100323	71	63	153	154	82	91	116%	145%	7.77	8.74
Kirkconnel	100255	2	1	4	9	2	8	140%	801%	1.39	3.58
Kirkhill	100237	6	9	9	4	3	-5	56%	-51%	1.18	1.78
Kirknewton	100304	1	2	2	6	1	4	154%	203%	0.94	2.02
Kirkwood	100269	13	9	9	17	-4	9	-32%	101%	1.23	2.40
Kyle of Lochalsh	100013	4	14	0	0	-4	-14	-100%	-100%	2.94	5.29
Ladybank	100377	7	2	17	52	10	49	151%	2117%	2.94	9.50
Lairg	100000	0	1	1	1	1	0	-	10%	-	0.07
Lanark	100282	16	14	58	50	42	36	256%	269%	6.85	6.45
Langbank	100140	10	7	3	5	-7	-2	-67%	-27%	2.64	0.76
Langside	100195	9	18	13	17	4	-1	41%	-7%	1.11	0.32
Larbert	100288	26	26	47	46	21	21	84%	80%	3.56	3.43
Largs	100112	45	27	22	32	-23	5	-51%	19%	3.95	0.92

Station	Node	Scotrail		Tmfs07		Difference		% Difference		GEH	
		Boarding	Alighting	Boarding	Alighting	Boarding	Alighting	Boarding	Alighting	Boarding	Alighting
Larkhall	100257	25	21	101	81	76	60	299%	291%	9.53	8.45
Lenzie	100252	101	67	35	45	-66	-22	-66%	-33%	8.03	2.95
Leuchars (for St Andrews)	100090	18	20	21	27	3	8	15%	39%	0.61	1.57
Linlithgow	100301	54	56	122	103	69	47	129%	85%	7.35	5.30
Livingston North	100299	39	41	27	19	-11	-22	-29%	-55%	1.98	4.09
Livingston South	100298	13	12	11	16	-2	4	-18%	34%	0.67	1.10
Loch Awe	100062	0	0	0	0	0	0	-	-	-	-
Loch Eil Outward Bound	100060	0	0	0	0	-0	-0	-100%	-100%	0.58	0.58
Lochailort	100052	0	0	3	6	3	6	818%	-	2.09	-
Locheilside	100057	0	0	0	0	0	0	-	-	-	-
Lochgelly	100315	5	3	24	23	18	20	346%	628%	4.83	5.49
Lochluichart	100023	0	0	0	0	0	0	-	-	-	-
Lochwinnoch	100134	5	5	11	23	6	18	120%	340%	2.16	4.78
Lockerbie	100340	0	0	0	0	0	0	-	-	-	-
Longniddry	100331	6	4	12	13	7	9	120%	263%	2.23	3.23
Mallaig	100051	5	0	0	0	-5	0	-99%	-	3.11	-
Markinch	100085	14	11	68	60	55	50	401%	474%	8.55	8.37
Maryhill	100194	3	4	35	41	32	37	960%	850%	7.28	7.72
Maxwell Park	100193	21	7	13	9	-8	2	-40%	26%	2.04	0.67
Maybole	100103	0	0	33	25	33	25	-	-	-	-
Merryton	100258	6	10	22	48	16	38	256%	389%	4.21	7.11
Milliken Park	100157	14	13	29	18	16	5	113%	40%	3.35	1.33
Milngavie	100221	49	46	114	113	65	67	132%	148%	7.17	7.57
Monifieth	100092	0	0	0	0	0	0	-	-	-	-
Montrose	100099	25	21	41	73	16	51	64%	241%	2.79	7.50
Morar	100050	1	0	0	0	-1	-0	-100%	-100%	1.41	0.82
Mosspark	100192	11	10	5	4	-6	-6	-53%	-58%	2.09	2.22
Motherwell	100261	49	46	160	176	112	130	230%	285%	10.94	12.38
Mount Florida	100191	47	43	134	120	87	77	185%	181%	9.15	8.57
Mount Vernon	100236	3	3	7	14	4	11	156%	407%	1.91	3.81
Muir of Ord	100026	2	1	4	5	2	4	106%	535%	1.16	2.55
Muirend	100173	17	32	10	15	-7	-18	-42%	-54%	1.97	3.62
Musselburgh	100329	6	9	2	18	-4	9	-59%	104%	1.73	2.51
Nairn	100038	6	8	2	3	-5	-5	-76%	-65%	2.41	2.17
Neilston	100152	16	62	8	46	-8	-16	-50%	-26%	2.31	2.16
New Cumnock	100226	4	1	13	15	10	14	264%	2129%	3.31	5.09
Newcraighall	100344	11	22	7	9	-4	-13	-34%	-60%	1.20	3.41
Newton (Lanarkshire)	100235	24	22	16	27	-8	6	-34%	26%	1.83	1.12
Newtonmore	100079	0	0	0	0	0	0	-	-	-	-
Newton-on-Ayr	100129	5	5	55	47	50	42	1115%	873%	9.22	8.29
Nitshill	100190	6	6	11	14	6	9	101%	156%	1.93	2.74
North Berwick	100333	19	15	31	40	12	25	60%	168%	2.31	4.77
North Queensferry	100310	9	13	17	23	8	10	88%	73%	2.23	2.28
Oban	100054	9	19	0	0	-9	-19	-96%	-100%	4.08	6.17
Paisley Canal	100156	24	20	11	14	-12	-6	-52%	-28%	2.94	1.36
Paisley Gilmour Street	100155	283	236	459	456	176	219	62%	93%	9.13	11.79
Paisley St James	100154	8	6	11	26	3	20	40%	327%	1.02	5.00
Partick	100189	205	213	437	396	232	183	113%	86%	12.97	10.49
Patterton	100172	47	12	34	28	-13	16	-28%	140%	2.04	3.64
Perth	100378	88	70	107	78	19	8	22%	11%	1.97	0.87
Pitlochry	100082	8	6	13	8	5	2	59%	32%	1.50	0.72
Plockton	100014	2	1	0	0	-2	-1	-100%	-100%	1.73	1.29
Pollokshaws East	100188	10	17	8	12	-3	-4	-27%	-26%	0.93	1.14
Pollokshaws West	100187	9	8	60	41	51	34	572%	450%	8.73	6.83
Pollokshields East	100186	15	18	25	11	10	-6	66%	-37%	2.23	1.70
Pollokshields West	100185	11	11	3	3	-8	-8	-74%	-74%	3.10	3.03
Polmont	100389	34	25	85	111	51	86	149%	341%	6.58	10.40
Port Glasgow	100139	41	38	96	105	55	67	133%	176%	6.60	7.94
Portlethen	100101	1	0	0	0	-1	0	-100%	-	1.15	-
Possilpark & Parkhouse	100184	1	4	8	16	8	12	1156%	307%	3.62	3.85
Prestonpans	100327	6	9	43	11	37	3	656%	31%	7.55	0.86
Prestwick International Airport	100128	49	54	18	34	-31	-19	-63%	-36%	5.37	2.93
Prestwick Town	100127	17	19	40	41	24	22	142%	115%	4.43	4.00
Priesthill & Darnley	100183	6	6	24	22	17	17	276%	302%	4.51	4.47
Queens Park (Glasgow)	100182	18	22	29	28	11	5	60%	23%	2.25	1.05
Rannoch	100076	5	0	0	0	-5	-0	-100%	-100%	3.16	0.58
Renton	100138	10	9	8	17	-1	8	-12%	94%	0.40	2.32
Rogart	100001	0	0	1	3	1	3	-	-	-	-
Rosyth	100309	9	8	19	29	10	21	111%	256%	2.70	4.80
Roy Bridge	100067	1	0	0	0	-1	-0	-100%	-100%	1.00	0.58
Rutherglen	100234	35	41	69	89	34	48	98%	116%	4.73	5.91
Saltcoats	100106	30	33	21	14	-9	-19	-29%	-57%	1.70	3.85
Sanquhar	100254	1	1	5	10	3	9	287%	676%	1.98	3.73
Scotsalder	100009	0	0	0	2	0	2	-	-	-	-
Scotstounhill	100181	26	28	64	80	38	53	149%	190%	5.73	7.15
Shawlands	100180	6	8	16	6	10	-1	180%	-15%	3.11	0.42

Station	Node	Scotrail		Tmfs07		Difference		% Difference		GEH	
		Boarding	Alighting	Boarding	Alighting	Boarding	Alighting	Boarding	Alighting	Boarding	Alighting
Shettleston	100233	43	34	77	68	34	34	79%	99%	4.38	4.72
Shieldmuir	100260	0	1	7	4	7	3	2033%	455%	3.51	2.05
Shotts	100283	22	15	56	68	34	53	158%	347%	5.49	8.17
Singer	100160	57	59	100	31	43	-28	75%	-47%	4.82	4.16
Slateford	100352	3	1	3	5	0	3	12%	244%	0.19	1.89
South Gyle	100306	21	18	21	13	0	-5	1%	-28%	0.04	1.27
Spean Bridge	100066	1	0	0	0	-1	-0	-100%	-100%	1.00	0.58
Springburn	100232	29	19	55	49	26	30	91%	153%	4.05	5.07
Springfield	100087	0	0	1	2	1	2	-	-	-	-
Stepps	100231	14	13	7	8	-7	-5	-48%	-38%	2.06	1.50
Stevenston	100105	12	12	27	20	15	8	127%	68%	3.41	2.03
Stewarton	100149	9	7	57	44	48	37	513%	500%	8.30	7.23
Stirling	100383	158	154	232	203	73	49	46%	32%	5.26	3.69
Stonehaven	100100	22	20	10	15	-11	-6	-52%	-28%	2.78	1.34
Stranraer	100335	5	0	11	6	6	6	138%	-	2.25	-
Strathcarron	100019	1	1	0	0	-1	-1	-100%	-100%	1.00	1.15
Stromeferry	100016	1	0	0	0	-1	-0	-100%	-100%	1.15	0.58
Summerston	100179	11	10	6	6	-5	-4	-45%	-42%	1.69	1.53
Tain	100035	1	1	6	4	5	3	660%	646%	2.90	2.22
Taynuilt	100059	1	1	1	0	0	-1	-11%	-100%	0.11	1.15
Thornliebank	100171	9	8	32	15	22	6	245%	76%	4.97	1.86
Thorntonhall	100170	1	1	0	1	-1	-1	-79%	-47%	0.83	0.58
Thurso	100011	0	0	36	18	36	18	-	-	-	-
Troon	100131	31	37	112	135	81	98	265%	266%	9.63	10.57
Tulloch	100075	0	0	0	0	0	0	-100%	-	0.82	-
Tyndrum Lower	100072	1	1	0	0	-1	-1	-100%	-100%	1.29	1.00
Uddingston	100230	46	29	61	59	14	30	31%	105%	1.94	4.57
Uphall	100300	21	17	55	58	34	41	158%	247%	5.46	6.74
Upper Tyndrum	100071	1	0	0	0	-1	-0	-100%	-100%	1.15	0.58
Wallyford	100326	4	5	18	10	14	5	352%	110%	4.24	1.91
Wemyss Bay	100102	10	9	18	20	8	11	73%	130%	2.02	2.95
West Calder	100297	6	4	15	10	9	6	172%	153%	2.96	2.25
West Kilbride	100104	11	16	17	23	7	7	65%	44%	1.82	1.57
Wester Hailes	100303	2	2	0	3	-2	1	-88%	78%	1.81	0.81
Westerton	100395	52	51	67	88	15	37	29%	73%	1.94	4.45
Whifflet	100268	21	13	52	69	30	56	142%	418%	5.02	8.68
Whinhill	100114	8	5	10	9	2	4	30%	70%	0.76	1.37
Whitecraigs	100169	14	14	21	6	7	-8	51%	-55%	1.72	2.41
Wick	100012	7	10	10	11	3	1	47%	12%	1.10	0.36
Williamwood	100168	37	15	21	14	-16	-1	-43%	-9%	2.97	0.36
Wishaw	100422	14	10	46	34	32	24	227%	253%	5.80	5.23
Woodhall	100137	5	4	66	45	61	41	1140%	1024%	10.17	8.28
Yoker	100178	8	10	5	3	-3	-7	-37%	-73%	1.16	2.89

GEH Summary

GEH	Boarding	Alighting	Boarding	Alighting
<5	220	213	73%	71%
<7	254	247	84%	83%
<10	289	283	95%	95%
>10	14	15	5%	5%
Total	303	298		

% Difference Summary

% Difference	Boarding	Alighting	Boarding	Alighting
<15%	27	22	9%	7%
<25%	41	35	14%	12%
>25%	262	262	86%	88%
Total	303	298		

**Transport Model for Scotland
Comparison of Boardings and Alightings - PM Peak
Scotrail Data
Excludes Non ScotRail Services**

Station	Node	Scotrail		TMs07		Difference		% Difference		GEH	
		Boarding	Alighting	Boarding	Alighting	Boarding	Alighting	Boarding	Alighting	Boarding	Alighting
Aberdeen	100048	403	267	307	141	-95	-126	-24%	-47%	5.05	8.83
Aberdour	100314	4	33	32	44	27	11	618%	34%	6.41	1.81
Achanalt	100022	0	0	0	0	0	0	-	-	-	-
Achnasheen	100021	0	0	0	0	0	0	-	-	-	-
Achnashellach	100020	0	0	8	9	8	9	-	-	-	-
Addiewell	100295	0	4	13	62	13	58	-	1459%	-	10.08
Airbles	100266	29	36	37	83	8	47	27%	133%	1.34	6.14
Airdrie	100277	80	273	123	337	43	64	55%	24%	4.32	3.68
Alexandra Parade	100251	12	37	26	103	14	66	115%	178%	3.16	7.86
Alexandria	100145	24	88	47	140	23	52	96%	59%	3.86	4.87
Alness	100031	2	2	6	6	4	4	180%	225%	1.94	2.05
Altnabreac	100008	0	0	0	0	0	0	-	-	-	-
Anderston	100219	299	79	1380	148	1082	69	362%	88%	37.33	6.51
Annan	100339	9	25	14	23	5	-3	50%	-10%	1.37	0.52
Anniesland	100218	242	236	317	418	75	183	31%	77%	4.51	10.09
Arbroath	100098	29	78	56	53	27	-25	94%	-32%	4.16	3.12
Ardgay	100032	0	2	2	11	2	9	-	402%	-	3.44
Ardlui	100069	0	0	0	0	0	0	-	-	-	-
Ardrossan Harbour	100111	10	0	0	0	-10	0	-100%	-	4.50	-
Ardrossan South Beach	100369	15	66	24	71	9	6	61%	8%	2.07	0.67
Ardrossan Town	100109	5	17	9	10	4	-6	79%	-38%	1.47	1.71
Argyle Street	100217	513	181	176	173	-338	-8	-66%	-5%	18.19	0.62
Arisaig	100049	1	1	0	0	-1	-1	-100%	-100%	1.33	1.33
Arrochar & Tarbet	100068	0	0	0	2	0	2	-	-	-	-
Ashfield	100216	0	15	27	119	26	104	5930%	719%	7.10	12.79
Attadale	100018	0	0	0	0	0	0	-	-	-	-
Auchinleck	100363	1	17	46	54	45	37	3389%	215%	9.19	6.19
Aviemore	100036	3	17	12	1	9	-16	352%	-94%	3.44	5.26
Ayr	100130	190	283	295	332	105	48	55%	17%	6.75	2.75
Baillieston	100250	6	29	3	14	-4	-15	-57%	-52%	1.68	3.26
Balloch	100147	50	109	72	171	22	62	44%	57%	2.80	5.24
Balmossie	100094	0	0	0	0	0	0	-	-	-	-
Banavie	100065	1	0	0	1	-1	1	-100%	-	1.62	-
Barassie	100365	10	45	9	25	-1	-21	-7%	-46%	0.21	3.49
Bargeddie	100276	14	30	4	13	-9	-17	-68%	-57%	3.12	3.66
Barnhill	100249	16	15	17	12	1	-4	9%	-23%	0.35	0.95
Barrhead	100153	58	183	59	185	1	2	1%	1%	0.11	0.17
Barrhill	100337	0	0	1	5	1	5	-	-	-	-
Barry Links	100097	0	0	0	0	0	0	-	-	-	-
Bathgate	100294	58	221	92	225	35	3	60%	2%	3.99	0.23
Bearsden	100225	51	189	81	146	30	-43	58%	-23%	3.65	3.31
Beasdale	100053	0	0	38	10	38	10	-	-	-	-
Beauly	100025	1	17	21	31	20	15	1510%	88%	5.93	2.98
Bellgrove	100248	104	126	70	166	-34	40	-33%	31%	3.70	3.27
Bellshill	100275	55	168	92	192	37	24	67%	14%	4.30	1.79
Bishopbriggs	100253	112	356	29	93	-83	-264	-74%	-74%	9.86	17.59
Bishopton	100166	66	172	55	178	-11	6	-17%	4%	1.43	0.47
Blair Atholl	100080	2	1	1	0	-2	-1	-75%	-95%	1.40	1.52
Blairhill	100274	47	198	73	128	26	-70	56%	-35%	3.37	5.48
Blantyre	100229	39	121	26	125	-13	4	-34%	4%	2.34	0.40
Bogston	100370	7	7	33	32	27	25	404%	351%	5.97	5.61
Bowling	100165	8	17	30	55	22	37	258%	218%	4.93	6.25
Branchton	100123	23	17	74	79	51	62	219%	361%	7.31	8.93
Breich	100293	0	0	0	0	0	0	-	-	-	-
Bridge of Allan	100281	26	80	40	89	14	9	56%	11%	2.51	0.97
Bridge of Orchy	100073	0	0	0	1	0	1	-	-	-	-
Bridgeton	100247	66	84	80	176	13	91	20%	108%	1.56	7.99
Brora	100005	0	0	6	2	6	2	1368%	-	3.24	-
Broughty Ferry	100093	1	3	0	2	-1	-1	-100%	-22%	1.62	0.38
Brunstane	100347	15	68	24	133	9	66	62%	97%	2.08	6.54
Burnside	100246	33	106	30	72	-2	-34	-7%	-32%	0.42	3.56
Burntisland	100322	5	47	8	70	3	23	57%	50%	1.15	3.06
Busby	100176	58	48	17	59	-41	11	-70%	24%	6.64	1.56
Cambuslang	100245	68	217	145	351	78	134	114%	62%	7.51	7.93
Camelon	100390	7	42	15	73	8	31	122%	75%	2.47	4.15
Cardenden	100325	4	15	43	130	39	116	984%	797%	8.05	13.60
Cardonald	100215	27	45	14	37	-13	-8	-47%	-19%	2.76	1.31
Cardross	100143	11	81	8	72	-3	-9	-29%	-12%	1.04	1.08
Carfin	100265	4	40	16	27	12	-13	343%	-32%	3.90	2.21
Carluke	100286	18	56	73	195	55	139	312%	249%	8.18	12.41
Carmyle	100244	24	37	22	54	-2	17	-9%	46%	0.42	2.54
Carnoustie	100096	3	32	4	59	1	27	38%	83%	0.56	3.94

Station	Node	Scotrail		Tmfs07		Difference		% Difference		GEH	
		Boarding	Alighting	Boarding	Alighting	Boarding	Alighting	Boarding	Alighting	Boarding	Alighting
Carntyne	100243	29	70	25	73	-3	4	-12%	5%	0.64	0.43
Carrbridge	100037	0	0	0	0	0	0	-	-	-	-
Carstairs	100359	0	0	27	50	27	50	-	-	-	-
Cartsdyke	100122	13	33	17	34	5	1	36%	2%	1.17	0.13
Cathcart	100214	37	151	89	353	52	202	141%	133%	6.58	12.70
Charing Cross (Glasgow)	100213	932	198	836	303	-96	105	-10%	53%	3.22	6.63
Chatelherault	100256	1	3	1	11	-0	8	-24%	263%	0.30	3.03
Clarkston	100175	22	171	41	181	19	10	87%	6%	3.42	0.77
Cleland	100285	4	31	43	11	39	-20	1116%	-65%	8.16	4.42
Clydebank	100164	44	103	100	31	56	-72	129%	-70%	6.65	8.86
Coatbridge Central	100273	2	10	46	34	44	24	1986%	247%	8.91	5.14
Coatbridge Sunnyside	100272	70	167	150	266	80	100	114%	60%	7.61	6.77
Coatdyke	100271	42	103	73	135	32	32	75%	31%	4.15	2.94
Connel Ferry	100056	0	0	0	0	-0	0	-100%	-	0.94	-
Corkerhill	100212	72	47	13	15	-59	-31	-82%	-67%	9.07	5.64
Corpach	100061	0	0	2	3	2	2	441%	555%	1.63	1.89
Corrour	100074	0	0	1	2	1	2	-	-	-	-
Cowdenbeath	100316	10	42	43	94	33	52	324%	122%	6.37	6.27
Craigendoran	100387	56	51	21	64	-35	13	-63%	26%	5.72	1.72
Crianlarich	100386	0	0	1	0	1	0	-	-	-	-
Croftfoot	100242	15	78	16	35	0	-42	1%	-54%	0.04	5.64
Crookston	100211	17	58	3	11	-14	-47	-81%	-81%	4.37	7.99
Crosshill	100210	40	78	63	162	23	84	57%	107%	3.17	7.63
Crossmyloof	100209	36	99	40	166	4	67	11%	67%	0.63	5.80
Croy	100280	172	851	138	482	-34	-369	-20%	-43%	2.75	14.29
Culrain	100029	0	0	2	14	2	14	-	-	-	-
Cumbernauld	100279	15	76	21	18	6	-57	36%	-76%	1.29	8.39
Cupar	100088	22	62	41	30	19	-32	84%	-51%	3.33	4.64
Curriehill	100305	7	15	10	2	2	-13	35%	-89%	0.86	4.63
Dalgety Bay	100313	15	83	23	148	8	66	52%	79%	1.82	6.10
Dalmally	100063	0	0	0	1	0	1	-	-	-	-
Dalmarnock	100241	19	18	53	96	34	78	181%	431%	5.71	10.30
Dalmeny	100308	65	106	62	111	-3	4	-4%	4%	0.32	0.40
Dalmuir	100163	120	262	214	211	94	-51	78%	-19%	7.24	3.29
Dalreoch	100388	112	113	61	106	-51	-7	-46%	-6%	5.54	0.65
Dalry	100108	17	84	22	113	4	29	26%	35%	1.00	2.96
Dalwhinnie	100077	0	0	0	1	0	1	-	-	-	-
Dingwall	100384	6	20	13	8	7	-11	115%	-58%	2.27	3.06
Drem	100332	3	35	18	121	15	85	482%	242%	4.58	9.67
Drumchapel	100224	42	88	27	37	-15	-51	-36%	-58%	2.60	6.44
Drumfrochar	100121	14	20	45	78	31	57	219%	283%	5.69	8.20
Drumgelloch	100270	24	59	53	188	29	130	120%	222%	4.66	11.69
Drumry	100223	25	77	73	52	48	-25	190%	-33%	6.81	3.13
Duirinish	100015	0	0	0	0	0	0	-	-	-	-
Duke Street	100240	13	22	16	52	2	29	18%	130%	0.63	4.80
Dumbarton Central	100141	95	245	132	253	37	8	39%	3%	3.50	0.51
Dumbarton East	100162	42	154	32	164	-10	10	-25%	6%	1.71	0.78
Dumbreck	100208	12	43	18	28	7	-15	55%	-34%	1.69	2.46
Dumfries	100338	25	56	53	50	28	-7	110%	-12%	4.41	0.92
Dunbar	100342	0	0	32	21	32	21	-	-	-	-
Dunblane	100078	57	165	44	154	-14	-12	-24%	-7%	1.92	0.92
Duncraig	100017	0	0	0	0	0	0	-	-	-	-
Dundee	100091	317	200	293	186	-24	-13	-8%	-7%	1.38	0.97
Dunfermline Queen Margaret	100312	0	18	41	112	41	95	-	539%	-	11.76
Dunfermline Town	100302	32	211	62	147	30	-64	94%	-30%	4.38	4.80
Dunkeld & Birnam	100083	3	5	3	3	0	-1	14%	-29%	0.23	0.69
Dunlop	100151	6	15	5	39	-1	24	-12%	155%	0.31	4.58
Dunrobin Castle	100002	0	0	0	0	0	0	-	-	-	-
Dyce	100047	125	27	108	57	-17	30	-14%	111%	1.58	4.63
East Kilbride	100228	59	268	19	81	-41	-186	-68%	-70%	6.48	14.12
Easterhouse	100239	39	146	134	155	95	9	245%	6%	10.22	0.76
Edinburgh	100320	3138	1175	3062	739	-75	-436	-2%	-37%	1.35	14.10
Edinburgh Park	100307	214	67	268	39	54	-29	25%	-43%	3.48	3.96
Elgin	100042	18	58	16	21	-1	-37	-7%	-64%	0.32	5.97
Exhibition Centre	100207	230	78	246	83	16	5	7%	7%	1.04	0.58
Fairlie	100113	14	12	7	16	-7	4	-50%	29%	2.14	0.95
Falkirk Grahamston	100289	77	86	90	133	14	47	18%	55%	1.50	4.49
Falkirk High	100287	82	310	80	413	-2	103	-3%	33%	0.24	5.41
Falls of Cruachan	100058	0	0	0	0	0	0	-	-	-	-
Fauldhouse	100292	1	15	18	34	17	19	1297%	131%	5.45	3.89
Fearn	100039	0	4	0	1	0	-3	-	-76%	-	2.02
Forres	100041	3	18	2	5	-1	-13	-23%	-72%	0.40	3.83
Forsinard	100004	0	0	88	11	88	11	-	-	-	-
Fort Matilda	100120	18	52	72	100	54	48	308%	91%	8.11	5.48
Fort William	100385	4	4	6	27	3	23	83%	587%	1.31	5.89
Garelochhead	100126	0	0	107	75	107	75	-	-	-	-

Station	Node	Scotrail		Tmfs07		Difference		% Difference		GEH	
		Boarding	Alighting	Boarding	Alighting	Boarding	Alighting	Boarding	Alighting	Boarding	Alighting
Garrowhill	100238	34	160	31	204	-3	44	-9%	27%	0.52	3.24
Garscadden	100206	21	71	92	170	71	99	343%	140%	9.46	9.04
Gartcosh	100267	9	36	5	41	-3	5	-39%	15%	1.29	0.87
Garve	100024	1	0	1	2	0	2	5%	-	0.04	-
Georgemas Junction	100010	0	0	8	42	8	42	-	-	-	-
Giffnock	100174	23	86	23	107	-0	21	-1%	24%	0.06	2.12
Gilshochill	100205	5	26	2	25	-3	-1	-54%	-3%	1.39	0.16
Girvan	100336	0	24	6	37	6	13	1368%	56%	3.24	2.42
Glasgow Central	100204	7428	2041	6648	3108	-780	1067	-10%	52%	9.29	21.03
Glasgow Queen Street	100203	3204	1506	4763	1864	1559	358	49%	24%	24.70	8.71
Gleneagles	100081	0	7	5	25	5	17	1132%	229%	2.91	4.27
Glenfinnan	100055	0	0	0	0	0	-0	-	-100%	-	0.94
Glengarnock	100135	22	110	73	141	51	31	225%	28%	7.32	2.73
Glenrothes With Thornton	100374	0	0	74	52	74	52	-	11750%	-	10.08
Golf Street	100095	0	0	0	0	0	0	-	-	-	-
Golspie	100040	0	0	16	4	16	4	-	-	-	-
Gourock	100119	36	164	153	310	116	146	323%	89%	11.99	9.47
Greenfaulds	100278	8	33	33	51	26	18	322%	55%	5.61	2.78
Greenock Central	100118	59	77	184	110	125	32	210%	42%	11.30	3.35
Greenock West	100117	79	92	184	85	105	-8	134%	-8%	9.19	0.83
Gretna Green	100362	1	5	3	4	2	-1	145%	-18%	1.27	0.41
Hairmyres	100227	54	168	70	161	17	-7	31%	-4%	2.10	0.57
Hamilton Central	100264	90	168	224	242	134	74	149%	44%	10.70	5.14
Hamilton West	100263	106	184	288	246	182	63	172%	34%	12.98	4.26
Hartwood	100284	1	11	18	33	17	22	1961%	209%	5.60	4.74
Hawkhead	100159	23	42	7	5	-16	-37	-71%	-89%	4.20	7.74
Haymarket	100348	1575	573	1707	1017	132	444	8%	77%	3.25	15.73
Helensburgh Central	100125	70	242	76	197	5	-46	7%	-19%	0.61	3.07
Helensburgh Upper	100124	0	0	29	34	29	34	-	-	-	-
Helmsdale	100007	0	0	8	2	8	2	-	-	-	-
High Street (Glasgow)	100202	227	71	117	128	-110	57	-48%	80%	8.39	5.71
Hillfoot	100222	32	120	88	386	56	267	177%	223%	7.27	16.76
Hillington East	100201	44	53	7	36	-37	-18	-84%	-33%	7.28	2.65
Hillington West	100200	76	28	140	15	64	-13	85%	-45%	6.19	2.73
Holytown	100262	7	45	95	68	88	23	1338%	50%	12.40	3.04
Howwood (Renfrewshire)	100136	3	30	15	14	13	-16	487%	-55%	4.27	3.51
Huntly	100044	9	12	6	31	-3	19	-32%	156%	1.08	4.10
Hyndland	100199	393	401	471	655	77	254	20%	63%	3.72	11.07
IBM	100116	46	13	32	4	-14	-9	-30%	-71%	2.21	3.15
Insch	100045	7	26	8	41	1	15	20%	56%	0.48	2.52
Invergordon	100034	0	5	1	1	1	-4	145%	-75%	0.73	2.19
Invergowrie	100089	1	0	2	0	0	0	14%	-	0.15	-
Inverkeithing	100371	105	378	97	418	-7	39	-7%	10%	0.74	1.97
Inverkip	100115	18	15	7	26	-11	12	-59%	80%	3.01	2.58
Inverness	100447	224	82	74	67	-150	-15	-67%	-18%	12.31	1.71
Invershin	100028	0	0	0	0	0	0	-	-	-	-
Inverurie	100046	13	44	5	5	-7	-39	-58%	-89%	2.44	7.91
Irvine	100132	66	161	90	125	24	-36	37%	-23%	2.73	3.04
Johnstone	100158	82	355	66	334	-16	-21	-20%	-6%	1.88	1.13
Jordanhill	100198	61	110	316	123	255	13	417%	12%	18.56	1.24
Keith	100043	8	22	2	17	-6	-5	-77%	-23%	2.76	1.15
Kelvindale	100177	4	13	19	6	15	-7	383%	-56%	4.46	2.37
Kennishead	100197	4	13	2	4	-2	-9	-56%	-68%	1.40	3.06
Kildonan	100006	0	0	1	28	1	28	-	-	-	-
Kilmarnock	100366	44	101	223	162	179	61	412%	60%	15.54	5.29
Kilmaurs	100150	0	18	138	179	138	161	31284%	869%	16.54	16.16
Kilpatrick	100161	14	41	46	54	32	13	237%	32%	5.92	1.91
Kilwinning	100448	88	273	172	348	84	74	95%	27%	7.36	4.22
Kinbrace	100003	0	0	0	0	0	0	-	-	-	-
Kinghorn	100321	6	50	43	74	37	24	652%	49%	7.55	3.08
Kings Park	100196	11	57	15	48	4	-9	39%	-16%	1.17	1.25
Kingsknowe	100318	6	10	2	2	-4	-8	-67%	-78%	2.05	3.13
Kingussie	100033	0	3	0	0	-0	-3	-14%	-87%	0.09	2.04
Kirkcaldy	100323	71	214	163	297	92	83	129%	39%	8.49	5.22
Kirkconnel	100255	1	7	2	7	1	0	145%	6%	1.04	0.16
Kirkhill	100237	7	50	6	15	-0	-35	-4%	-70%	0.10	6.12
Kirknewton	100304	2	20	4	11	2	-9	141%	-43%	1.44	2.16
Kirkwood	100269	6	53	6	25	-0	-28	-7%	-53%	0.18	4.46
Kyle of Lochalsh	100013	4	0	0	0	-4	0	-100%	-	2.81	-
Ladybank	100377	2	10	15	56	13	46	744%	458%	4.54	8.03
Lairg	100000	0	0	1	3	0	3	93%	-	0.51	-
Lanark	100282	17	66	64	92	47	27	283%	41%	7.45	3.03
Langbank	100140	4	25	7	27	3	2	98%	9%	1.51	0.45
Langside	100195	5	80	10	59	5	-21	105%	-26%	1.87	2.49
Larbert	100288	45	184	86	244	41	60	92%	33%	5.11	4.10
Largs	100112	30	79	27	85	-3	6	-10%	8%	0.59	0.66

Station	Node	Scotrail		Tmfs07		Difference		% Difference		GEH	
		Boarding	Alighting	Boarding	Alighting	Boarding	Alighting	Boarding	Alighting	Boarding	Alighting
Larkhall	100257	18	88	91	154	73	65	406%	74%	9.91	5.94
Lenzie	100252	141	494	56	195	-86	-299	-61%	-61%	8.63	16.12
Leuchars (for St Andrews)	100090	29	44	24	35	-5	-9	-17%	-21%	0.96	1.49
Linlithgow	100301	75	404	151	464	76	60	101%	15%	7.13	2.87
Livingston North	100299	76	240	20	28	-56	-212	-74%	-88%	8.07	18.32
Livingston South	100298	17	95	14	94	-3	-1	-18%	-1%	0.77	0.09
Loch Awe	100062	0	1	0	0	0	-1	-	-100%	-	1.33
Loch Eil Outward Bound	100060	0	0	0	0	0	0	-	-	-	-
Lochailort	100052	0	2	3	5	3	3	-	174%	-	1.69
Locheilside	100057	0	0	0	0	0	0	-	-	-	-
Lochgelly	100315	1	10	26	53	25	43	2891%	425%	6.90	7.64
Lochluichart	100023	0	0	0	3	0	3	-	661%	-	2.11
Lochwinnoch	100134	12	39	8	36	-4	-3	-35%	-7%	1.36	0.46
Lockerbie	100340	0	0	0	0	0	0	-	-	-	-
Longniddry	100331	5	79	2	96	-3	17	-57%	21%	1.56	1.77
Mallaig	100051	6	20	0	1	-6	-19	-99%	-94%	3.36	5.70
Markinch	100085	13	57	50	131	37	74	279%	130%	6.54	7.64
Maryhill	100194	9	20	69	40	61	20	689%	98%	9.69	3.61
Maxwell Park	100193	23	40	9	21	-14	-20	-61%	-48%	3.50	3.54
Maybole	100103	0	0	5	29	5	29	-	-	-	-
Merryton	100258	4	38	17	66	13	28	291%	75%	3.90	3.94
Milliken Park	100157	20	79	23	60	3	-19	13%	-24%	0.58	2.26
Milngavie	100221	59	264	88	213	29	-51	49%	-19%	3.39	3.30
Monifieth	100092	0	0	0	0	0	0	-	-	-	-
Montrose	100099	18	85	42	117	24	32	130%	37%	4.31	3.13
Morar	100050	1	2	0	0	-1	-2	-100%	-100%	1.33	1.88
Mosspark	100192	10	48	2	18	-7	-30	-75%	-63%	2.96	5.20
Motherwell	100261	117	152	318	388	200	237	171%	156%	13.58	14.40
Mount Florida	100191	99	268	153	425	54	157	54%	59%	4.79	8.43
Mount Vernon	100236	3	13	4	19	1	6	25%	47%	0.41	1.53
Muir of Ord	100026	2	18	9	15	7	-2	327%	-14%	2.99	0.62
Muirend	100173	17	119	14	70	-3	-49	-19%	-41%	0.81	5.06
Musselburgh	100329	4	110	22	51	18	-59	445%	-54%	4.93	6.55
Nairn	100038	5	12	1	1	-4	-11	-75%	-89%	2.09	4.20
Neilston	100152	14	117	16	115	2	-2	17%	-2%	0.61	0.16
New Cumnock	100226	6	21	6	20	-0	-1	-1%	-5%	0.04	0.25
Newcraighall	100344	4	88	5	47	1	-41	33%	-47%	0.61	5.02
Newton (Lanarkshire)	100235	24	158	60	156	36	-2	152%	-1%	5.58	0.18
Newtonmore	100079	0	2	0	0	0	-2	-	-100%	-	1.88
Newton-on-Ayr	100129	8	20	52	83	44	63	551%	318%	8.00	8.79
Nitshill	100190	12	13	25	18	12	5	101%	43%	2.90	1.38
North Berwick	100333	16	127	64	167	48	40	302%	31%	7.58	3.28
North Queensferry	100310	13	39	26	37	13	-2	95%	-5%	2.84	0.31
Oban	100054	18	0	0	0	-18	0	-100%	-	5.92	-
Paisley Canal	100156	28	114	47	70	19	-44	69%	-39%	3.11	4.63
Paisley Gilmour Street	100155	514	668	974	821	460	152	90%	23%	16.88	5.59
Paisley St James	100154	9	13	29	56	19	43	210%	323%	4.46	7.25
Partick	100189	679	652	768	563	89	-89	13%	-14%	3.30	3.60
Patterton	100172	10	68	42	65	32	-2	317%	-3%	6.27	0.28
Perth	100378	133	151	116	137	-17	-14	-13%	-9%	1.51	1.19
Pitlochry	100082	3	14	5	9	2	-5	77%	-37%	1.15	1.52
Plockton	100014	0	1	0	0	0	-1	-	-100%	-	1.33
Pollokshaws East	100188	21	77	13	51	-7	-26	-36%	-34%	1.79	3.23
Pollokshaws West	100187	16	34	60	119	44	85	269%	248%	7.09	9.70
Pollokshields East	100186	24	75	37	36	13	-40	55%	-53%	2.36	5.33
Pollokshields West	100185	11	64	3	13	-8	-51	-72%	-79%	3.05	8.17
Polmont	100389	46	244	70	338	23	94	51%	38%	3.08	5.49
Port Glasgow	100139	59	137	116	169	58	32	99%	23%	6.18	2.59
Portlethen	100101	0	10	4	1	4	-9	-	-91%	-	3.84
Possilpark & Parkhouse	100184	4	9	17	29	13	19	323%	209%	3.97	4.44
Prestonpans	100327	3	72	28	195	25	123	802%	170%	6.29	10.62
Prestwick International Airport	100128	70	44	25	20	-45	-24	-64%	-54%	6.53	4.23
Prestwick Town	100127	18	56	46	68	28	12	151%	22%	4.89	1.58
Priesthill & Darnley	100183	4	25	50	17	45	-8	1027%	-31%	8.70	1.65
Queens Park (Glasgow)	100182	32	134	47	106	15	-28	48%	-21%	2.44	2.54
Rannoch	100076	0	0	0	0	0	0	-	-	-	-
Renton	100138	15	46	18	40	3	-6	19%	-14%	0.70	0.96
Rogat	100001	0	0	2	3	2	3	-	-	-	-
Rosyth	100309	31	73	36	111	5	38	17%	52%	0.91	3.95
Roy Bridge	100067	0	0	0	0	0	0	-	-	-	-
Rutherglen	100234	99	178	133	300	35	123	35%	69%	3.22	7.93
Saltcoats	100106	31	87	18	38	-13	-48	-42%	-56%	2.62	6.11
Sanquhar	100254	0	14	2	9	1	-5	255%	-35%	1.12	1.44
Scotsalder	100009	0	0	2	8	2	8	-	-	-	-
Scotstounhill	100181	29	123	101	148	72	24	249%	20%	8.95	2.10
Shawlands	100180	8	43	10	26	2	-17	26%	-40%	0.68	2.91

Station	Node	Scotrail		Tmfs07		Difference		% Difference		GEH	
		Boarding	Alighting	Boarding	Alighting	Boarding	Alighting	Boarding	Alighting	Boarding	Alighting
Shettleston	100233	57	188	65	190	8	2	14%	1%	1.03	0.13
Shieldmuir	100260	5	9	81	32	76	23	1440%	251%	11.56	5.08
Shotts	100283	17	98	44	96	27	-2	156%	-2%	4.86	0.24
Singer	100160	207	95	194	64	-13	-32	-6%	-33%	0.94	3.55
Slateford	100352	12	4	20	10	8	6	69%	153%	2.06	2.29
South Gyle	100306	183	63	46	28	-137	-35	-75%	-56%	12.86	5.23
Spean Bridge	100066	0	0	0	0	0	0	-	-	-	-
Springburn	100232	68	53	70	126	2	73	3%	138%	0.24	7.72
Springfield	100087	0	1	2	1	2	-0	-	-43%	-	0.46
Stepps	100231	11	103	5	18	-7	-85	-57%	-82%	2.29	10.88
Stevenston	100105	10	42	32	69	22	27	228%	64%	4.85	3.60
Stewarton	100149	19	55	45	90	26	35	139%	65%	4.63	4.16
Stirling	100383	382	389	419	453	37	63	10%	16%	1.85	3.09
Stonehaven	100100	22	150	9	26	-13	-124	-59%	-83%	3.30	13.20
Stranraer	100335	0	7	2	9	2	2	-	26%	-	0.66
Strathcarron	100019	2	0	0	0	-2	0	-100%	-	2.10	-
Stromeferry	100016	0	0	0	0	0	0	-	-	-	-
Summerston	100179	7	31	2	14	-5	-17	-72%	-55%	2.48	3.55
Tain	100035	0	6	7	12	7	6	-	95%	-	1.94
Taynuilt	100059	1	2	0	0	-1	-2	-78%	-100%	1.15	2.10
Thornliebank	100171	7	41	37	62	30	21	457%	50%	6.48	2.86
Thorntonhall	100170	2	11	1	0	-1	-11	-41%	-98%	0.62	4.56
Thurso	100011	0	0	65	65	65	65	-	-	-	-
Troon	100131	34	139	132	223	98	84	286%	60%	10.74	6.22
Tulloch	100075	0	0	0	0	0	0	-	-	-	-
Tyndrum Lower	100072	0	0	0	0	0	0	-	-	-	-
Uddingston	100230	45	221	99	235	55	14	122%	6%	6.42	0.92
Uphall	100300	46	91	46	107	0	16	0%	17%	0.02	1.59
Upper Tyndrum	100071	0	0	0	0	0	0	-	-	-	-
Wallyford	100326	11	70	16	101	5	30	44%	43%	1.32	3.27
Wemyss Bay	100102	14	81	19	45	4	-36	32%	-44%	1.11	4.54
West Calder	100297	7	32	42	22	34	-9	455%	-29%	6.88	1.77
West Kilbride	100104	11	71	7	55	-4	-16	-40%	-22%	1.49	2.00
Wester Hailes	100303	4	9	2	20	-3	11	-63%	124%	1.59	2.89
Westerton	100395	128	274	104	280	-24	6	-18%	2%	2.18	0.36
Whifflet	100268	22	81	78	144	57	64	264%	79%	8.04	6.01
Whinhill	100114	21	26	23	30	1	3	7%	13%	0.30	0.63
Whitecraigs	100169	15	110	24	13	9	-96	57%	-88%	1.95	12.28
Wick	100012	6	0	38	42	32	42	521%	-	6.81	-
Williamwood	100168	28	94	26	96	-2	2	-8%	2%	0.42	0.21
Wishaw	100422	20	85	51	161	31	75	156%	88%	5.19	6.80
Woodhall	100137	14	17	59	84	45	66	333%	387%	7.53	9.36
Yoker	100178	9	49	4	22	-6	-27	-60%	-55%	2.18	4.58

GEH Summary

GEH	Boarding	Alighting	Boarding	Alighting
<5	190	187	68%	66%
<7	224	229	81%	81%
<10	260	256	94%	91%
>10	18	26	6%	9%
Total	278	282		

% Difference Summary

% Difference	Boarding	Alighting	Boarding	Alighting
<15%	41	50	15%	18%
<25%	61	78	22%	28%
>25%	216	204	78%	72%
Total	278	282		

Appendix D – Modelled Rail Loadings versus Capacities

TMfs.07

Loading versus Capacity - AM Peak

Name	Description	Headway	Coded Capacity	Services per Hour	Capacity / hr	Max TMfs Loading	Loading/ Capacity
1103b	WICK->INVERNESS	180	136	0.33	45.33333	107	236%
1100	INVERNESS->WICK	180	136	0.33	45.33333	88	193%
1060	DUNDEE->EDINBURGH	180	136	0.33	45.33333	81	179%
1023b	MARKINCH->EDINBURGH	180	192	0.33	64	101	158%
1044	NORTH BERWICK->EDINBURGH	100	252	0.60	151.2	237	157%
1057a	ABERDEEN->EDINBURGH	180	192	0.33	64	98	154%
1015a	FIFE CIRCLE	54	192	1.11	213.3333	326	153%
1045	NORTH BERWICK->HAYMARKET	180	252	0.33	84	126	149%
1009a	DUNBLANE->EDINBURGH	30	136	2.00	272	387	142%
1040	DUNDEE->NEWCRAIGHALL	180	192	0.33	64	90	141%
1121	CARLISLE->GLASGOW C	180	290	0.33	96.66667	135	140%
1012	STIRLING->EDINBURGH	180	136	0.33	45.33333	63	139%
1046b	NORTH BERWICK->GLASGOW C	180	252	0.33	84	116	138%
1021b	KIRKCALDY->EDINBURGH	180	192	0.33	64	87	136%
1216	BALLOCH->AIRDRIE	39	230	1.54	353.8462	481	136%
1021a	GLENROTHES->EDINBURGH	180	192	0.33	64	86	135%
1016	FIFE CIRCLE	56	192	1.07	205.7143	276	134%
1245a	LANARK->DALMUIR	124	219	0.48	105.9677	141	133%
1152a	NEILSTON->GLASGOW C	24	212	2.50	530	686	129%
1029	DUNBLANE->GLASGOW QS	60	192	1.00	192	248	129%
1247	MOTHERWELL->DALMUIR	45	183	1.33	244	311	127%
1172d	LARGS->GLASGOW C	60	183	1.00	183	233	127%
1061	INVERNESS->EDINBURGH	180	192	0.33	64	81	127%
1257a	LANARK->PARTICK	180	219	0.33	73	91	125%
1250	LANARK->MILNGAVIE	60	219	1.00	219	274	125%
1049b	EDINBURGH->GLASGOW C	180	145	0.33	48.33333	60	124%
1220	HELENSBURGH->HIGH STREET	180	230	0.33	76.66667	95	123%
1248b	LARKHALL->DALMUIR	180	183	0.33	61	74	121%
1053a	EDINBURGH->>DYCE	180	192	0.33	64	77	121%
1130	STRANRAER->GLASGOW C	180	145	0.33	48.33333	58	119%
1066	PERTH->EDINBURGH	180	192	0.33	64	75	116%
1028	STIRLING->GLASGOW QS	54	192	1.11	213.3333	248	116%
1052b	EDINBURGH->ABERDEEN	180	192	0.33	64	74	116%
1249	MOTHERWELL->MILNGAVIE	47	219	1.28	279.5745	323	116%
1204a	MILNGAVIE->MOTHERWELL	51	183	1.18	215.2941	249	115%
1204b	MILNGAVIE->MOTHERWELL	180	183	0.33	61	70	114%
1248c	LARKHALL->DALMUIR	180	183	0.33	61	69	113%
1052a	EDINBURGH->ABERDEEN	180	192	0.33	64	72	113%
1291c	BERWICK UPON TWEED->ABERDEEN	180	400	0.33	133.3333	150	112%
1161b	E KILBRIDE->GLASGOW C	60	145	1.00	145	162	112%
1146c	BERWICK UPON TWEED->GLASGOW	76	400	0.79	315.7895	352	111%
1033	PERTH->EDINBURGH	180	272	0.33	90.66667	100	110%
1173b	ARDROSSAN HARBOUR->GLASGOW C	180	183	0.33	61	67	110%
1179b	GOUROCK->GLASGOW C	68	183	0.88	161.4706	177	110%
1258	CARSTAIRS->PARTICK	180	219	0.33	73	80	110%
1020a	DUNF QM->EDINBURGH	180	192	0.33	64	70	109%
1248a	LARKHALL->DALMUIR	60	183	1.00	183	198	108%
1120	GLASGOW C->CARLISLE	85	145	0.71	102.3529	110	108%
1174	ARDROSSAN TOWN->GLASGOW C	180	183	0.33	61	65	107%
1047a	GLASGOW C->EDINBURGH	180	145	0.33	48.33333	51	105%
1201a	MILNGAVIE->LANARK	60	219	1.00	219	226	103%
1208d	HELENSBURGH->DRUMGELLOCH	180	230	0.33	76.66667	79	103%
1244	AIRDRIE->BALLOCH	30	230	2.00	460	472	103%
1208b	HELENSBURGH->DRUMGELLOCH	60	230	1.00	230	236	103%
1290b	ABERDEEN->NEWCASTLE	118	400	0.51	203.3898	208	102%
1179d	GOUROCK->GLASGOW C	180	183	0.33	61	62	102%
1208a	HELENSBURGH->DRUMGELLOCH	180	230	0.33	76.66667	78	102%
1257b	LANARK->PARTICK	180	219	0.33	73	74	101%
1240	DRUMG->HELENS C	30	230	2.00	460	464	101%
1245b	LANARK->DALMUIR	180	219	0.33	73	73	100%
1290a	ABERDEEN->BERWICK UPON TWEED	180	400	0.33	133.3333	132	99%
1110	GLASGOW QS->MALLAIG	180	145	0.33	48.33333	47	98%
1155	CATHCART INNER	42	212	1.43	302.8571	294	97%
1179a	GOUROCK->GLASGOW C	41	183	1.46	267.8049	256	95%
1208c	HELENSBURGH->DRUMGELLOCH	180	230	0.33	76.66667	73	95%
1114	GLASGOW QS->OBAN	180	145	0.33	48.33333	46	95%
1000b	GLASGOW QS->HAYMARKET	30	384	2.00	768	728	95%
1200	DALMUIR->LANARK	55	183	1.09	199.6364	188	94%
1011	PERTH->EDINBURGH	180	272	0.33	90.66667	85	94%
1179c	GOUROCK->GLASGOW C	180	183	0.33	61	57	94%
1217	HELENSBURGH->AIRDRIE	180	230	0.33	76.66667	72	93%
1006	NEWCRAIGHALL->DUNBLANE	30	136	2.00	272	253	93%
1092a	INVERNESS->GLASGOW QS	180	192	0.33	64	60	93%
1079a	DYCE->GLASGOW QS	180	192	0.33	64	59	93%
1059	DUNDEE->BERWICK	180	400	0.33	133.3333	122	91%
1077	DUNDEE->GLASGOW QS	180	192	0.33	64	58	90%
1127	GLASGOW C->GIRVAN	180	145	0.33	48.33333	44	90%
1111	FT WILLIAM->MALLAIG	180	145	0.33	48.33333	44	90%
1000f	GLASGOW QS->EDINBURGH	30	384	2.00	768	687	89%
1032	PERTH->EDINBURGH	180	272	0.33	90.66667	78	86%
1070	INVERNESS->ABERDEEN	180	136	0.33	45.33333	38	83%
1148b	NEWCASTLE->EDINBURGH	80	400	0.75	300	249	83%
1181a	GLASGOW C->GOUROCK	30	183	2.00	366	301	82%
1214a	DALMUIR->LARKHALL	30	183	2.00	366	296	81%
1181c	GLASGOW C->GOUROCK	180	183	0.33	61	49	80%
1219	MILNGAVIE->HIGH STREET	40	230	1.50	345	277	80%
1078a	ABERDEEN->GLASGOW QS	180	192	0.33	64	49	76%
1085	CARLISLE->GLASGOW C	180	400	0.33	133.3333	101	76%
1030	PERTH->GLASGOW QS	180	408	0.33	136	103	76%
1153a	NEWTON VQP->GLASGOW C	48	212	1.25	265	199	75%
1172b	LARGS->GLASGOW C	180	366	0.33	122	91	75%
1203	DALMUIR->MOTHERWELL	73	219	0.82	180	134	75%
1180c	WEMYSS BAY->GLA C	60	219	1.00	219	163	74%
1171a	AYR->GLASGOW C	120	366	0.50	183	135	74%
1001f	EDINBURGH->GLASGOW QS	30	384	2.00	768	564	73%
1210a	BALLOCH->SPRINGBURN	180	230	0.33	76.66667	55	72%
1209	DALMUIR->SPRINGBURN	42	230	1.43	328.5714	237	72%
1172c	LARGS->GLASGOW C	180	366	0.33	122	88	72%
1180b	WEMYSS BAY->GLASGOW C	180	212	0.33	70.66667	51	72%
1180a	WEMYSS BAY->GLASGOW C	180	212	0.33	70.66667	50	71%
1009b	DUNBLANE->EDINBURGH	180	136	0.33	45.33333	32	71%
1042a	GLASGOW C->NORTH BERWICK	180	252	0.33	84	60	71%
1160	BARRHEAD->GLASGOW C	30	145	2.00	290	204	70%
1171b	AYR->GLASGOW C	180	366	0.33	122	85	70%

TMfs.07

Loading versus Capacity - AM Peak

Name	Description	Headway	Coded Capacity	Services per Hour	Capacity / hr	Max TMfs Loading	Loading/ Capacity
1251	CUMBERNAULD->MILNGAVIE	180	366	0.33	122	85	70%
1263	CARLISLE->EDINBURGH	180	400	0.33	133.3333	92	69%
1064d	INVERNESS->EDINBURGH	180	192	0.33	64	44	69%
1001g	EDINBURGH->GLASGOW QS	30	384	2.00	768	524	68%
1211	GARSCADDEN->SPRINGBURN	180	230	0.33	76.66667	52	68%
1171d	AYR->GLASGOW C	90	366	0.67	244	164	67%
1171c	AYR->GLASGOW C	60	366	1.00	366	246	67%
1172a	LARGS->GLASGOW C	180	366	0.33	122	82	67%
1049a	EDINBURGH->GLASGOW C	61	290	0.98	285.2459	190	67%
1166b	GLASGOW C->AYR	30	183	2.00	366	244	67%
1171e	AYR->GLASGOW C	180	366	0.33	122	81	66%
1260	EDINBURGH->CARLISLE	135	400	0.44	177.7778	116	65%
1086	CARLISLE->GLASGOW C	88	400	0.68	272.7273	176	65%
1252	AIRDRIE->MILNGAVIE	30	230	2.00	460	281	61%
1246	SPRINGBN->DALMUIR	30	230	2.00	460	280	61%
1221	DALMUIR->HIGH STREET	180	230	0.33	76.66667	46	60%
1079	DYCE->GLASGOW QS	180	192	0.33	64	37	58%
1161a	E KILBRIDE->GLASGOW C	44	290	1.36	395.4545	227	57%
1152b	NEILSTON X->GLASGOW C	180	212	0.33	70.66667	40	57%
1159	KILMARNOCK->GLASGOW C	180	290	0.33	96.66667	55	57%
1181b	GLASGOW C->GOUROCK	60	183	1.00	183	103	57%
1112	MALLAIG->GLASGOW QS	180	145	0.33	48.33333	27	56%
1182a	GLASGOW C->WEYMSS BAY	180	219	0.33	73	40	55%
1047b	GLASGOW C->EDINBURGH	149	290	0.40	116.7785	62	53%
1083	GLASGOW C->CARLISLE	180	400	0.33	133.3333	67	50%
1081	GLASGOW C->CARLISLE	180	400	0.33	133.3333	66	50%
1080	GLASGOW C->CARLISLE	84	400	0.71	285.7143	142	50%
1134	GLASGOW C->STRANRAER	180	145	0.33	48.33333	24	50%
1026	GLASGOW QS->DUNBLANE	60	192	1.00	192	90	47%
1255	CUMBERNAULD->MOTHERWELL	61	145	0.98	142.623	67	47%
1182b	GLASGOW C->WEYMSS BAY	60	212	1.00	212	97	46%
1025	GLASGOW QS->STIRLING	50	192	1.20	230.4	105	46%
1071	KEITH->ABERDEEN	180	136	0.33	45.33333	21	46%
1207	MOTHERWELL->CUMBERNAULD	60	145	1.00	145	65	45%
1161c	E KILBRIDE->GLASGOW C	180	290	0.33	96.66667	42	43%
1113a	ARR AND TAR->GLASGOW QS	180	145	0.33	48.33333	21	43%
1115	OBAN->GLASGOW QS	180	145	0.33	48.33333	21	43%
1145	GLASGOW->BERWICK UPON TWEED	120	400	0.50	200	83	42%
1048a	WEST CALDER->EDINBURGH	180	145	0.33	48.33333	20	42%
1108	KYLE OF LOCHALSH->INVERNESS	180	136	0.33	45.33333	19	41%
1067d	GLASGOW QS->ABERDEEN	180	192	0.33	64	26	40%
1008a	BATHGATE->NEWCRAIGHALL	30	272	2.00	544	218	40%
1067b	GLASGOW QS->ABERDEEN	180	192	0.33	64	25	39%
1067c	GLASGOW QS->ABERDEEN	60	192	1.00	192	75	39%
1036	FALKIRK GRAHAMSTON->GLASGOW QS	61	192	0.98	188.8525	73	39%
1154	CATHCART OUTER	42	212	1.43	302.8571	116	38%
1073	ABERDEEN->INVERNESS	120	136	0.50	68	25	36%
1153b	NEWTON VMP->GLASGOW C	50	212	1.20	254.4	91	36%
1048b	WEST CALDER->EDINBURGH	180	145	0.33	48.33333	17	35%
1222	CARDROSS->GLASGOW QS	180	145	0.33	48.33333	17	35%
1068	GLASGOW QS->DYCE	180	192	0.33	64	22	35%
1017a	EDINBURGH->COWDENBEATH	60	192	1.00	192	66	34%
1038	CUMBERNAULD->GLASGOW QS	60	192	1.00	192	65	34%
1140	GLASGOW Q S->ANNIESLAND	30	145	2.00	290	98	34%
1123	GIRVAN->CARLISLE	180	145	0.33	48.33333	16	33%
1104	LAIRG->INVERNESS	180	136	0.33	45.33333	15	33%
1166a	GLASGOW C->AYR	180	366	0.33	122	39	32%
1168	GLASGOW C->ARDROSSAN SOUTH BEA	180	219	0.33	73	23	31%
1090a	GLASGOW QS->INVERNESS	180	192	0.33	64	19	30%
1129a	KILMARNOCK->STRANRAER	180	145	0.33	48.33333	15	30%
1256	MOTHERWELL->GLASGOW C	180	366	0.33	122	36	29%
1146a	DUNBAR->GLASGOW	180	400	0.33	133.3333	39	29%
1261	EDINBURGH->CARLISLE	180	400	0.33	133.3333	38	29%
1138	WHIFFLET->GLASGOW	30	145	2.00	290	83	29%
1150a	GLASGOW C->NEILSTON	26	212	2.31	489.2308	138	28%
1212	MILNGAVIE->SPRINGBURN	180	460	0.33	153.3333	43	28%
1062a	EDINBURGH->INVERNESS	180	192	0.33	64	17	27%
1161d	HAIRMYRES->GLASGOW C	180	290	0.33	96.66667	25	26%
1156	GLASGOW C->BARRHEAD	30	145	2.00	290	74	26%
1018	EDINBURGH->MARKINCH	60	192	1.00	192	45	23%
1096	INVERNESS->NEWCASTLE	180	400	0.33	133.3333	31	23%
1205	ANDERSTON->MOTHERWELL	180	219	0.33	73	17	23%
1147a	EDINBURGH->NEWCASTLE	150	400	0.40	160	37	23%
1005	EDINBURGH->BATHGATE	33	272	1.82	494.5455	110	22%
1107	INVERNESS->KYLE OF LOCHALSH	180	136	0.33	45.33333	10	22%
1031	EDINBURGH->PERTH	180	192	0.33	64	14	21%
1063	EDINBURGH->PERTH	180	192	0.33	64	14	21%
1141	GLASGOW Q S->ANNIESLAND	30	145	2.00	290	61	21%
1165a	GLASGOW C->LARGS	180	366	0.33	122	24	20%
1145b	GLASGOW->BERWICK UPON TWEED	130	400	0.46	184.6154	35	19%
1010	HAYMARKET->NEWCRAIGHALL	180	136	0.33	45.33333	9	19%
1074	ABERDEEN->KEITH	180	136	0.33	45.33333	8	17%
1137	GLASGOW->WHIFFLET	30	145	2.00	290	47	16%
1157a	GLASGOW C->E KILBRIDE	54	290	1.11	322.2222	46	14%
1253	BELMGROVE->MILNGAVIE	30	460	2.00	920	130	14%
1043	HAYMARKET->NORTH BERWICK	180	252	0.33	84	12	14%
1151a	GLASGOW C->NEWTON VQP	46	212	1.30	276.5217	39	14%
1157b	GLASGOW C->E KILBRIDE	65	290	0.92	267.6923	38	14%
1041a	EDINBURGH->NORTH BERWICK	180	252	0.33	84	11	13%
1177	GLASGOW C->PAISLEY CANAL	30	218	2.00	436	57	13%
1124	DUMFRIES->CARLISLE	180	145	0.33	48.33333	5	11%
1178	PSY CNL->GLA C	30	218	2.00	436	45	10%
1102	INVERNESS->INVERGORDON	180	136	0.33	45.33333	4	8%
1150b	GLASGOW C->NEILSTON X	180	212	0.33	70.66667	5	8%
1034	GLASGOW QS->FALKIRK GRAHAMSTON	60	192	1.00	192	14	7%
1041b	EDINBURGH->NORTH BERWICK	180	252	0.33	84	6	7%
1151b	GLASGOW C->NEWTON VMP	60	212	1.00	212	13	6%
1037	GLASGOW QS->CUMBERNAULD	60	192	1.00	192	9	5%

TMfs.07

Loading versus Capacity - Inter Peak

Name	Description	Headway	Coded Capacity	Services per Hour	Capacity / hr	Max TMfs Loading	Loading/ Capacity
1120	GLASGOW C->CARLISLE	121	145	0.50	71.90083	78	108%
1264	CARLISLE->EDINBURGH	108	400	0.56	222.2222	217	98%
1263	CARLISLE->EDINBURGH	240	400	0.25	100	94	94%
1127	GLASGOW C->GIRVAN	360	145	0.17	24.16667	19	80%
1110	GLASGOW QS->MALLAIG	240	145	0.25	36.25	28	76%
1158a	GLASGOW C->KILMARNOCK	180	145	0.33	48.33333	35	73%
1057b	ABERDEEN->EDINBURGH	119	192	0.50	96.80672	70	72%
1130	STRANRAER->GLASGOW C	360	145	0.17	24.16667	17	71%
1058b	DYCE->EDINBURGH	360	192	0.17	32	23	71%
1158b	GLASGOW C->KILMARNOCK	360	145	0.17	24.16667	17	70%
1114	GLASGOW QS->OBAN	240	145	0.25	36.25	25	69%
1057a	ABERDEEN->EDINBURGH	360	192	0.17	32	22	69%
1052d	EDINBURGH->ABERDEEN	120	192	0.50	96	65	67%
1053b	EDINBURGH->DYCE	120	192	0.50	96	62	64%
1172d	LARGS->GLASGOW C	80	183	0.75	137.25	88	64%
1009a	DUNBLANE->EDINBURGH	30	136	2.00	272	173	64%
1052c	EDINBURGH->ABERDEEN	360	192	0.17	32	20	64%
1262	EDINBURGH->CARLISLE	119	400	0.50	201.6807	126	62%
1103b	WICK->INVERNESS	360	136	0.17	22.66667	14	62%
1260	EDINBURGH->CARLISLE	120	400	0.50	200	123	61%
1073	ABERDEEN->INVERNESS	117	136	0.51	69.74359	43	61%
1103a	WICK->INVERNESS	360	136	0.17	22.66667	14	61%
1052b	EDINBURGH->ABERDEEN	360	192	0.17	32	19	59%
1052a	EDINBURGH->ABERDEEN	360	192	0.17	32	19	59%
1125	CARLISLE->STRANRAER	360	145	0.17	24.16667	14	59%
1131	STRANRAER->GLASGOW C	360	145	0.17	24.16667	14	58%
1070	INVERNESS->ABERDEEN	103	136	0.58	79.2233	45	57%
1078c	ABERDEEN->GLASGOW QS	360	192	0.17	32	18	55%
1058a	DYCE->EDINBURGH	360	192	0.17	32	17	53%
1006	NEWCRAIGHALL->DUNBLANE	30	136	2.00	272	140	51%
1100	INVERNESS->WICK	205	136	0.29	39.80488	20	51%
1057d	ABERDEEN->EDINBURGH	360	192	0.17	32	16	50%
1112	MALLAIG->GLASGOW QS	360	145	0.17	24.16667	12	50%
1200	DALMUIR->LANARK	77	183	0.78	142.5974	71	50%
1083	GLASGOW C->CARLISLE	300	400	0.20	80	40	50%
1134	GLASGOW C->STRANRAER	360	145	0.17	24.16667	12	49%
1057c	ABERDEEN->EDINBURGH	360	192	0.17	32	16	49%
1016	FIFE CIRCLE	58	192	1.03	198.6207	96	49%
1092a	INVERNESS->GLASGOW QS	360	192	0.17	32	15	48%
1077	DUNDEE->GLASGOW QS	360	192	0.17	32	15	47%
1090a	GLASGOW QS->INVERNESS	360	192	0.17	32	15	47%
1179a	GOUROCK->GLASGOW C	30	183	2.00	366	170	46%
1250	LANARK->MILNGAVIE	60	219	1.00	219	101	46%
1173b	ARDROSSAN HARBOUR->GLASGOW C	360	183	0.17	30.5	14	46%
1174	ARDROSSAN TOWN->GLASGOW C	90	183	0.67	122	55	45%
1173c	ARDROSSAN HARBOUR->GLASGOW C	360	183	0.17	30.5	14	45%
1115	OBAN->GLASGOW QS	285	145	0.21	30.52632	14	45%
1113b	ARR AND TAR->GLASGOW QS	240	145	0.25	36.25	16	45%
1248a	LARKHALL->DALMUIR	30	183	2.00	366	164	45%
1078b	ABERDEEN->GLASGOW QS	360	192	0.17	32	14	45%
1079a	DYCE->GLASGOW QS	360	192	0.17	32	14	45%
1090b	GLASGOW QS->INVERNESS	360	192	0.17	32	14	44%
1179b	GOUROCK->GLASGOW C	63	183	0.95	174.2857	77	44%
1078a	ABERDEEN->GLASGOW QS	101	192	0.59	114.0594	50	44%
1246	SPRINGBN->DALMUIR	30	230	2.00	460	199	43%
1080	GLASGOW C->CARLISLE	95	400	0.63	252.6316	109	43%
1067d	GLASGOW QS->ABERDEEN	360	192	0.17	32	14	43%
1121	CARLISLE->GLASGOW C	138	290	0.43	126.087	54	43%
1249	MOTHERWELL->MILNGAVIE	56	219	1.07	234.6429	101	43%
1204a	MILNGAVIE->MOTHERWELL	56	183	1.07	196.0714	84	43%
1067f	GLASGOW QS->ABERDEEN	360	192	0.17	32	14	42%
1067e	GLASGOW QS->ABERDEEN	360	192	0.17	32	14	42%
1067b	GLASGOW QS->ABERDEEN	360	192	0.17	32	14	42%
1067c	GLASGOW QS->ABERDEEN	90	192	0.67	128	54	42%
1247	MOTHERWELL->DALMUIR	58	183	1.03	189.3103	79	42%
1067g	GLASGOW QS->ABERDEEN	360	192	0.17	32	13	42%
1122	STRANRAER->CARLISLE	360	145	0.17	24.16667	10	42%
1165b	GLASGOW C->LARGS	84	219	0.71	156.4286	65	42%
1081	GLASGOW C->CARLISLE	240	400	0.25	100	41	41%
1129a	KILMARNOCK->STRANRAER	360	145	0.17	24.16667	10	41%
1182b	GLASGOW C->WEYMSS BAY	60	212	1.00	212	85	40%
1214a	DALMUIR->LARKHALL	30	183	2.00	366	147	40%
1047b	GLASGOW C->EDINBURGH	60	290	1.00	290	112	39%
1182a	GLASGOW C->WEYMSS BAY	360	219	0.17	36.5	14	39%
1181b	GLASGOW C->GOUROCK	60	183	1.00	183	71	39%
1245a	LANARK->DALMUIR	60	219	1.00	219	84	38%
1203	DALMUIR->MOTHERWELL	58	219	1.03	226.5517	87	38%
1181a	GLASGOW C->GOUROCK	30	183	2.00	366	138	38%
1170a	GLASGOW C->ARDROSSAN HARBOUR	180	183	0.33	61	23	38%
1290a	ABERDEEN->BERWICK UPON TWEED	360	400	0.17	66.66667	25	38%
1169	GLASGOW C->ARDROSSAN TOWN	108	183	0.56	101.6667	38	37%
1201a	MILNGAVIE->LANARK	84	219	0.71	156.4286	57	36%
1044	NORTH BERWICK->EDINBURGH	90	252	0.67	168	61	36%
1244	AIRDRIE->BALLOCH	30	230	2.00	460	167	36%
1150a	GLASGOW C->NEILSTON	29	212	2.07	438.6207	155	35%
1045	NORTH BERWICK->HAYMARKET	180	252	0.33	84	29	35%
1180c	WEMYSS BAY->GLA C	59	219	1.02	222.7119	78	35%
1166d	GLASGOW C->AYR	360	366	0.17	61	21	35%
1240	DRUMG->HELENS C	30	230	2.00	460	160	35%
1290c	ABERDEEN->BERWICK UPON TWEED	360	400	0.17	66.66667	23	35%
1223	MILNGAVIE->WHIFFLET	30	230	2.00	460	157	34%
1291a	BERWICK UPON TWEED->ABERDEEN	360	400	0.17	66.66667	23	34%
1071	KEITH->ABERDEEN	360	136	0.17	22.66667	8	34%
1160	BARRHEAD->GLASGOW C	30	145	2.00	290	97	33%
1166a	GLASGOW C->AYR	60	366	1.00	366	122	33%
1087	CARLISLE->GLASGOW C	360	400	0.17	66.66667	22	33%
1088	CARLISLE->GLASGOW C	300	400	0.20	80	26	33%
1171a	AYR->GLASGOW C	360	366	0.17	61	20	33%
1000b	GLASGOW QS->HAYMARKET	30	384	2.00	768	249	32%
1152a	NEILSTON->GLASGOW C	31	212	1.94	410.3226	131	32%
1171d	AYR->GLASGOW C	60	366	1.00	366	115	31%
1209	DALMUIR->SPRINGBURN	30	230	2.00	460	144	31%
1155	CATHCART INNER	60	212	1.00	212	66	31%
1132a	GIRVAN->KILMARNOCK	180	145	0.33	48.33333	15	31%

TMfs.07

Loading versus Capacity - Inter Peak

Name	Description	Headway	Coded Capacity	Services per Hour	Capacity / hr	Max TMfs Loading	Loading/ Capacity
1133	STRANRAER->KILMARNOCK	360	145	0.17	24.16667	7	30%
1166e	GLASGOW C->AYR	84	366	0.71	261.4286	80	30%
1029	DUNBLANE->GLASGOW QS	60	192	1.00	192	58	30%
1290b	ABERDEEN->NEWCASTLE	118	400	0.51	203.3898	61	30%
1166c	GLASGOW C->AYR	240	366	0.25	91.5	27	30%
1089	CARLISLE->GLASGOW C	360	400	0.17	66.66667	20	30%
1154	CATHCART OUTER	55	212	1.09	231.2727	69	30%
1201b	MILNGAVIE->LANARK	360	219	0.17	36.5	11	30%
1216	BALLOCH->AIRDRIE	30	230	2.00	460	135	29%
1128	KILMARNOCK->GIRVAN	360	145	0.17	24.16667	7	29%
1015a	FIFE CIRCLE	58	192	1.03	198.6207	57	29%
1171c	AYR->GLASGOW C	60	366	1.00	366	104	28%
1049a	EDINBURGH->GLASGOW C	60	290	1.00	290	82	28%
1156	GLASGOW C->BARRHEAD	34	145	1.76	255.8824	72	28%
1146c	BERWICK UPON TWEED->GLASGOW	360	400	0.17	66.66667	19	28%
1291c	BERWICK UPON TWEED->ABERDEEN	360	400	0.17	66.66667	19	28%
1171e	AYR->GLASGOW C	360	366	0.17	61	17	28%
1161b	E KILBRIDE->GLASGOW C	60	145	1.00	145	41	28%
1001f	EDINBURGH->GLASGOW QS	30	384	2.00	768	214	28%
1084	CARLISLE->GLASGOW C	99	400	0.61	242.4242	67	28%
1159	KILMARNOCK->GLASGOW C	60	290	1.00	290	80	27%
1000f	GLASGOW QS->EDINBURGH	30	384	2.00	768	210	27%
1017a	EDINBURGH->COWDENBEATH	60	192	1.00	192	52	27%
1145	GLASGOW->BERWICK UPON TWEED	120	400	0.50	200	55	27%
1165c	GLASGOW C->LARGS	360	366	0.17	61	16	27%
1153a	NEWTON VQP->GLASGOW C	58	212	1.03	219.3103	59	27%
1026	GLASGOW QS->DUNBLANE	60	192	1.00	192	51	27%
1064a	INVERNESS->EDINBURGH	360	192	0.17	32	8	26%
1255	CUMBERNAULD->MOTHERWELL	60	145	1.00	145	38	26%
1064c	INVERNESS->EDINBURGH	360	192	0.17	32	8	26%
1028	STIRLING->GLASGOW QS	60	192	1.00	192	50	26%
1001g	EDINBURGH->GLASGOW QS	30	384	2.00	768	200	26%
1208b	HELENSBURGH->DRUMGELLOCH	30	230	2.00	460	119	26%
1151a	GLASGOW C->NEWTON VQP	60	212	1.00	212	54	25%
1042b	GLASGOW C->NORTH BERWICK	360	252	0.17	42	11	25%
1291b	NEWCASTLE->ABERDEEN	360	400	0.17	66.66667	17	25%
1025	GLASGOW QS->STIRLING	60	192	1.00	192	47	25%
1043	HAYMARKET->NORTH BERWICK	306	252	0.20	49.41176	12	24%
1041a	EDINBURGH->NORTH BERWICK	60	252	1.00	252	59	24%
1064b	INVERNESS->EDINBURGH	360	192	0.17	32	8	24%
1018	EDINBURGH->MARKINCH	60	192	1.00	192	44	23%
1132b	GIRVAN->KILMARNOCK	360	145	0.17	24.16667	5	22%
1219	MILNGAVIE->HIGH STREET	30	230	2.00	460	100	22%
1066	PERTH->EDINBURGH	360	192	0.17	32	7	21%
1062c	EDINBURGH->INVERNESS	360	192	0.17	32	7	21%
1062a	EDINBURGH->INVERNESS	360	192	0.17	32	7	21%
1086	CARLISLE->GLASGOW C	88	400	0.68	272.7273	55	20%
1141	GLASGOW Q S->ANNIESLAND	30	145	2.00	290	57	20%
1096	INVERNESS->NEWCASTLE	360	400	0.17	66.66667	13	19%
1146b	BERWICK UPON TWEED->GLASGOW	106	400	0.57	226.4151	43	19%
1008a	BATHGATE->NEWCRAIGHALL	32	272	1.88	510	96	19%
1064d	INVERNESS->EDINBURGH	360	192	0.17	32	6	19%
1146d	BERWICK UPON TWEED->GLASGOW	299	400	0.20	80.26756	15	18%
1031	EDINBURGH->PERTH	360	192	0.17	32	6	18%
1063	EDINBURGH->PERTH	360	192	0.17	32	6	18%
1148b	NEWCASTLE->EDINBURGH	360	400	0.17	66.66667	12	18%
1023a	MARKINCH->EDINBURGH	60	192	1.00	192	34	18%
1062b	EDINBURGH->INVERNESS	360	192	0.17	32	5	17%
1108	KYLE OF LOCHALSH->INVERNESS	360	136	0.17	22.66667	4	16%
1107	INVERNESS->KYLE OF LOCHALSH	180	136	0.33	45.33333	7	16%
1207	MOTHERWELL->CUMBERNAULD	60	145	1.00	145	23	16%
1261	EDINBURGH->CARLISLE	360	400	0.17	66.66667	11	16%
1032	PERTH->EDINBURGH	360	272	0.17	45.33333	7	15%
1147a	EDINBURGH->NEWCASTLE	137	400	0.44	175.1825	26	15%
1253	BELGROVE->MILNGAVIE	30	460	2.00	920	131	14%
1005	EDINBURGH->BATHGATE	30	272	2.00	544	77	14%
1161a	E KILBRIDE->GLASGOW C	59	290	1.02	294.9153	41	14%
1034	GLASGOW QS->FALKIRK GRAHAMSTON	60	192	1.00	192	27	14%
1035	GLASGOW QS->FALKIRK GRAHAMSTON	360	192	0.17	32	4	14%
1140	GLASGOW Q S->ANNIESLAND	30	145	2.00	290	39	13%
1022	COWDENBEATH->EDINBURGH	60	192	1.00	192	25	13%
1137	GLASGOW->WHIFFLET	30	145	2.00	290	36	12%
1105	INVERGORDON->INVERNESS	150	136	0.40	54.4	7	12%
1157a	GLASGOW C->E KILBRIDE	58	290	1.03	300	36	12%
1218	MILNGAVIE->AIRDRIE	30	460	2.00	920	109	12%
1157b	GLASGOW C->E KILBRIDE	60	290	1.00	290	34	12%
1151b	GLASGOW C->NEWTON VMP	60	212	1.00	212	25	12%
1037	GLASGOW QS->CUMBERNAULD	60	192	1.00	192	22	12%
1138	WHIFFLET->GLASGOW	30	145	2.00	290	31	11%
1153b	NEWTON VMP->GLASGOW C	60	212	1.00	212	22	10%
1094	NEWCASTLE->INVERNESS	360	400	0.17	66.66667	7	10%
1102	INVERNESS->INVERGORDON	162	136	0.37	50.37037	5	9%
1036	FALKIRK GRAHAMSTON->GLASGOW QS	60	192	1.00	192	17	9%
1038	CUMBERNAULD->GLASGOW QS	60	192	1.00	192	15	8%
1075	ABERDEEN->INVERURIE	96	136	0.63	85	7	8%
1072	INVERURIE->ABERDEEN	94	136	0.64	86.80851	6	7%
1177	GLASGOW C->PAISLEY CANAL	30	218	2.00	436	23	5%
1048a	WEST CALDER->EDINBURGH	360	145	0.17	24.16667	1	5%
1178	PSY CNL->GLA C	30	218	2.00	436	20	5%
1148a	NEWCASTLE->EDINBURGH	360	400	0.17	66.66667	2	3%
1145b	GLASGOW->BERWICK UPON TWEED	240	400	0.25	100	3	3%

TMfs.07

Loading versus Capacity - PM Peak

Name	Description	Headway	Coded Capacity	Services per Hour	Capacity / hr	Max TMfs Loading	Loading/ Capacity
1006	NEWCRAIGHALL->DUNBLANE	30	136	2.00	272	511	188%
1100	INVERNESS->WICK	180	136	0.33	45.33333	83	184%
1043	HAYMARKET->NORTH BERWICK	66	252	0.91	229.0909	410	179%
1042b	GLASGOW C->NORTH BERWICK	180	252	0.33	84	146	173%
1200	DALMUIR->LANARK	180	183	0.33	61	92	151%
1120	GLASGOW C->CARLISLE	102	145	0.59	85.29412	128	150%
1041a	EDINBURGH->NORTH BERWICK	180	252	0.33	84	119	142%
1150a	GLASGOW C->NEILSTON	24	212	2.50	530	730	138%
1290c	ABERDEEN->BERWICK UPON TWEED	180	400	0.33	133.3333	177	133%
1145c	GLASGOW->BERWICK UPON TWEED	180	400	0.33	133.3333	174	131%
1054	EDINBURGH->INVERURIE	180	192	0.33	64	84	131%
1018	EDINBURGH->MARKINCH	61	192	0.98	188.8525	236	125%
1053c	EDINBURGH->DYCE	180	192	0.33	64	80	124%
1103a	WICK->INVERNESS	180	136	0.33	45.33333	56	124%
1016	FIFE CIRCLE	52	192	1.15	221.5385	274	124%
1019	EDINBURGH->PERTH	180	192	0.33	64	78	121%
1015b	FIFE CIRCLE	180	192	0.33	64	77	121%
1203	DALMUIR->MOTHERWELL	50	219	1.20	262.8	309	118%
1049c	EDINBURGH->GLASGOW C	180	145	0.33	48.33333	57	118%
1181b	GLASGOW C->GOUROCK	100	183	0.60	109.8	128	116%
1208e	HELENSBURGH->DRUMGELLOCH	180	230	0.33	76.66667	88	115%
1181a	GLASGOW C->GOUROCK	32	183	1.88	343.125	393	115%
1015a	FIFE CIRCLE	93	192	0.65	123.871	142	114%
1154	CATHCART OUTER	52	212	1.15	244.6154	279	114%
1026	GLASGOW QS->DUNBLANE	60	192	1.00	192	219	114%
1017a	EDINBURGH->COWDENBEATH	60	192	1.00	192	219	114%
1254	LARKHALL->MILNGAVIE	180	183	0.33	61	69	114%
1112	MALLAIG->GLASGOW QS	180	145	0.33	48.33333	55	114%
1244	AIRDRIE->BALLOCH	40	230	1.50	345	390	113%
1225	DALMUIR->CARSTAIRS	180	230	0.33	76.66667	86	112%
1214b	DALMUIR->LARKHALL	180	183	0.33	61	68	111%
1181d	GLASGOW C->GOUROCK	180	212	0.33	70.66667	78	110%
1053b	EDINBURGH->DYCE	180	192	0.33	64	70	110%
1115	OBAN->GLASGOW QS	180	145	0.33	48.33333	53	109%
1208b	HELENSBURGH->DRUMGELLOCH	30	230	2.00	460	502	109%
1204a	MILNGAVIE->MOTHERWELL	30	183	2.00	366	395	108%
1165b	GLASGOW C->LARGS	60	219	1.00	219	236	108%
1058b	DYCE->EDINBURGH	180	192	0.33	64	69	108%
1201a	MILNGAVIE->LANARK	180	219	0.33	73	78	107%
1169	GLASGOW C->ARDROSSAN TOWN	118	183	0.51	93.05085	98	106%
1053d	EDINBURGH->DYCE	180	192	0.33	64	68	106%
1062c	EDINBURGH->INVERNESS	180	192	0.33	64	67	105%
1025	GLASGOW QS->STIRLING	60	192	1.00	192	202	105%
1214a	DALMUIR->LARKHALL	60	183	1.00	183	187	102%
1216	BALLOCH->AIRDRIE	30	230	2.00	460	468	102%
1250	LANARK->MILNGAVIE	60	219	1.00	219	221	101%
1179a	GOUROCK->GLASGOW C	31	183	1.94	354.1935	357	101%
1240	DRUMG->HELENS C	30	230	2.00	460	464	101%
1062d	EDINBURGH->INVERNESS	180	192	0.33	64	65	101%
1073	ABERDEEN->INVERNESS	66	136	0.91	123.6364	124	101%
1249	MOTHERWELL->MILNGAVIE	54	219	1.11	243.3333	242	99%
1009a	DUNBLANE->EDINBURGH	30	136	2.00	272	267	98%
1001f	EDINBURGH->GLASGOW QS	30	384	2.00	768	754	98%
1125	CARLISLE->STRANRAER	180	145	0.33	48.33333	45	93%
1241	BELGROVE->HELENS C	180	230	0.33	76.66667	72	93%
1057e	ABERDEEN->EDINBURGH	180	192	0.33	64	60	93%
1151a	GLASGOW C->NEWTON VQP	51	212	1.18	249.4118	231	92%
1223	MILNGAVIE->WHIFFLET	30	230	2.00	460	409	89%
1202a	ANDERSTON->LANARK	71	219	0.85	185.0704	165	89%
1291a	BERWICK UPON TWEED->ABERDEEN	180	400	0.33	133.3333	118	89%
1291d	NEWCASTLE->ABERDEEN	180	400	0.33	133.3333	118	88%
1017b	EDINBURGH->COWDENBEATH	180	192	0.33	64	55	86%
1067f	GLASGOW QS->ABERDEEN	180	192	0.33	64	55	86%
1067g	GLASGOW QS->ABERDEEN	180	192	0.33	64	54	85%
1067c	GLASGOW QS->ABERDEEN	180	192	0.33	64	54	85%
1182b	GLASGOW C->WEYMSS BAY	180	212	0.33	70.66667	59	84%
1262	EDINBURGH->CARLISLE	60	400	1.00	400	333	83%
1246	SPRINGBN->DALMUIR	30	230	2.00	460	381	83%
1179b	GOUROCK->GLASGOW C	180	183	0.33	61	50	82%
1182d	GLASGOW C->WEYMSS BAY	180	212	0.33	70.66667	57	81%
1182c	GLASGOW C->WEYMSS BAY	180	212	0.33	70.66667	57	81%
1182a	GLASGOW C->WEYMSS BAY	180	219	0.33	73	59	81%
1058c	DYCE->EDINBURGH	180	192	0.33	64	51	80%
1156	GLASGOW C->BARRHEAD	41	145	1.46	212.1951	170	80%
1110	GLASGOW QS->MALLAIG	180	145	0.33	48.33333	39	80%
1114	GLASGOW QS->OBAN	180	145	0.33	48.33333	38	79%
1243	BELGROVE->BALLOCH	180	230	0.33	76.66667	60	78%
1224	DALMUIR->WHIFFLET	180	230	0.33	76.66667	60	78%
1027	GLASGOW QS->PERTH	59	192	1.02	195.2542	151	77%
1001g	EDINBURGH->GLASGOW QS	30	384	2.00	768	593	77%
1166f	GLASGOW C->AYR	180	366	0.33	122	93	76%
1166a	GLASGOW C->AYR	60	366	1.00	366	274	75%
1000b	GLASGOW QS->HAYMARKET	30	384	2.00	768	574	75%
1166i	GLASGOW C->AYR	180	366	0.33	122	91	74%
1067a	GLASGOW QS->ABERDEEN	180	192	0.33	64	47	73%
1209	DALMUIR->SPRINGBURN	30	230	2.00	460	335	73%
1000f	GLASGOW QS->EDINBURGH	30	384	2.00	768	558	73%
1165c	GLASGOW C->LARGS	180	366	0.33	122	87	71%
1007	EDINBURGH->DUNBLANE	180	192	0.33	64	45	71%
1180c	WEMYSS BAY->GLA C	60	219	1.00	219	155	71%
1057d	ABERDEEN->EDINBURGH	180	192	0.33	64	45	71%
1121	CARLISLE->GLASGOW C	147	290	0.41	118.3673	81	69%
1291b	NEWCASTLE->ABERDEEN	180	400	0.33	133.3333	92	69%
1047b	GLASGOW C->EDINBURGH	90	290	0.67	193.3333	132	68%
1166e	GLASGOW C->AYR	60	366	1.00	366	249	68%
1158d	GLASGOW C->KILMARNOCK	180	290	0.33	96.66667	65	67%
1147b	EDINBURGH->NEWCASTLE	180	400	0.33	133.3333	88	66%
1158c	GLASGOW C->KILMARNOCK	180	290	0.33	96.66667	64	66%
1179e	GOUROCK->GLASGOW C	180	252	0.33	84	55	65%
1242	AIRDRIE->HELENS C	180	366	0.33	122	79	65%
1166g	GLASGOW C->AYR	180	366	0.33	122	78	64%
1128	KILMARNOCK->GIRVAN	180	145	0.33	48.33333	31	63%
1070	INVERNESS->ABERDEEN	91	136	0.66	89.67033	56	63%
1049a	EDINBURGH->GLASGOW C	60	290	1.00	290	182	63%

TMfS.07

Loading versus Capacity - PM Peak

Name	Description	Headway	Coded Capacity	Services per Hour	Capacity / hr	Max TMfS Loading	Loading/ Capacity
1047c	GLASGOW C->EDINBURGH	180	290	0.33	96.66667	61	63%
1165d	GLASGOW C->LARGS	180	366	0.33	122	76	63%
1090c	GLASGOW QS->INVERNESS	180	192	0.33	64	40	62%
1165e	GLASGOW C->LARGS	180	366	0.33	122	75	62%
1157a	GLASGOW C->E KILBRIDE	41	290	1.46	424.3902	255	60%
1035	GLASGOW QS->FALKIRK GRAHAMSTON	180	192	0.33	64	38	60%
1157b	GLASGOW C->E KILBRIDE	26	290	2.31	669.2308	393	59%
1170b	GLASGOW C->ARDROSSAN HARBOUR	180	366	0.33	122	71	58%
1131	STRANRAER->GLASGOW C	180	145	0.33	48.33333	27	57%
1247	MOTHERWELL->DALMUIR	60	183	1.00	183	103	56%
1155	CATHCART INNER	54	212	1.11	235.5556	133	56%
1248b	LARKHALL->DALMUIR	180	183	0.33	61	34	56%
1202b	ANDERSTON->LANARK	180	438	0.33	146	79	54%
1245a	LANARK->DALMUIR	50	219	1.20	262.8	142	54%
1140	GLASGOW Q S->ANNIESLAND	30	145	2.00	290	156	54%
1005	EDINBURGH->BATHGATE	30	272	2.00	544	289	53%
1057f	ABERDEEN->EDINBURGH	180	192	0.33	64	34	53%
1248a	LARKHALL->DALMUIR	35	183	1.71	313.7143	164	52%
1166h	GLASGOW C->AYR	180	366	0.33	122	60	49%
1264	CARLISLE->EDINBURGH	100	400	0.60	240	117	49%
1215	MILNGAVIE->LARKHALL	30	366	2.00	732	350	48%
1263	CARLISLE->EDINBURGH	125	400	0.48	192	91	47%
1029	DUNBLANE->GLASGOW QS	60	192	1.00	192	91	47%
1253	BELGROVE->MILNGAVIE	30	460	2.00	920	436	47%
1067h	GLASGOW QS->ABERDEEN	180	192	0.33	64	30	47%
1151b	GLASGOW C->NEWTON VMP	60	212	1.00	212	100	47%
1255	CUMBERNAULD->MOTHERWELL	60	145	1.00	145	67	46%
1172d	LARGS->GLASGOW C	180	183	0.33	61	28	46%
1210b	BALLOCH->SPRINGBURN	180	230	0.33	76.66667	34	44%
1078d	ABERDEEN->GLASGOW QS	180	192	0.33	64	28	44%
1092b	INVERNESS->GLASGOW QS	180	192	0.33	64	28	44%
1028	STIRLING->GLASGOW QS	50	192	1.20	230.4	101	44%
1150b	GLASGOW C->NEILSTON X	180	212	0.33	70.66667	31	44%
1159	KILMARNOCK->GLASGOW C	82	290	0.73	212.1951	92	43%
1078c	ABERDEEN->GLASGOW QS	180	192	0.33	64	27	42%
1171a	AYR->GLASGOW C	180	366	0.33	122	51	42%
1173c	ARDROSSAN HARBOUR->GLASGOW C	180	183	0.33	61	25	42%
1174	ARDROSSAN TOWN->GLASGOW C	180	183	0.33	61	25	41%
1094	NEWCASTLE->INVERNESS	180	400	0.33	133.3333	53	40%
1078a	ABERDEEN->GLASGOW QS	58	192	1.03	198.6207	78	39%
1175	ARDROSSAN SOUTH BEACH->GLASGOW	180	183	0.33	61	24	39%
1137	GLASGOW->WHIFFLET	30	145	2.00	290	113	39%
1088	CARLISLE->GLASGOW C	180	400	0.33	133.3333	52	39%
1078e	ABERDEEN->GLASGOW QS	180	192	0.33	64	25	38%
1046a	NORTH BERWICK->GLASGOW C	180	252	0.33	84	32	38%
1152a	NEILSTON->GLASGOW C	31	212	1.94	410.3226	150	37%
1171f	AYR->GLASGOW C	180	366	0.33	122	43	35%
1160	BARRHEAD->GLASGOW C	30	145	2.00	290	102	35%
1034	GLASGOW QS->FALKIRK GRAHAMSTON	60	192	1.00	192	66	34%
1207	MOTHERWELL->CUMBERNAULD	60	145	1.00	145	49	34%
1081	GLASGOW C->CARLISLE	180	400	0.33	133.3333	44	33%
1171c	AYR->GLASGOW C	60	366	1.00	366	117	32%
1171e	AYR->GLASGOW C	180	366	0.33	122	39	32%
1084	CARLISLE->GLASGOW C	80	400	0.75	300	95	32%
1161b	E KILBRIDE->GLASGOW C	60	145	1.00	145	45	31%
1080	GLASGOW C->CARLISLE	36	400	1.67	666.6667	207	31%
1157c	GLASGOW C->E KILBRIDE	180	290	0.33	96.66667	30	31%
1107	INVERNESS->KYLE OF LOCHALSH	180	136	0.33	45.33333	14	31%
1152c	NEILSTON->GLASGOW C	180	212	0.33	70.66667	21	30%
1141	GLASGOW Q S->ANNIESLAND	30	145	2.00	290	86	30%
1008a	BATHGATE->NEWCRAIGHALL	30	272	2.00	544	158	29%
1037	GLASGOW QS->CUMBERNAULD	60	192	1.00	192	55	29%
1082	GLASGOW C->CARLISLE	180	400	0.33	133.3333	36	27%
1218	MILNGAVIE->AIRDRIE	30	460	2.00	920	248	27%
1153a	NEWTON VQP->GLASGOW C	60	212	1.00	212	57	27%
1023a	MARKINCH->EDINBURGH	60	192	1.00	192	48	25%
1008b	BATHGATE->NEWCRAIGHALL	180	272	0.33	90.66667	22	25%
1172a	LARGS->GLASGOW C	180	366	0.33	122	28	23%
1126	CARLISLE->DUMFRIES	180	145	0.33	48.33333	11	23%
1177	GLASGOW C->PAISLEY CANAL	30	218	2.00	436	100	23%
1219	MILNGAVIE->HIGH STREET	180	230	0.33	76.66667	17	23%
1172b	LARGS->GLASGOW C	180	366	0.33	122	27	22%
1064a	INVERNESS->EDINBURGH	180	192	0.33	64	14	22%
1146b	BERWICK UPON TWEED->GLASGOW	106	400	0.57	226.4151	48	21%
1064c	INVERNESS->EDINBURGH	180	192	0.33	64	14	21%
1146d	BERWICK UPON TWEED->GLASGOW	101	400	0.59	237.6238	49	21%
1124	DUMFRIES->CARLISLE	180	145	0.33	48.33333	10	20%
1108	KYLE OF LOCHALSH->INVERNESS	180	136	0.33	45.33333	9	20%
1173a	ARDROSSAN HARBOUR->GLASGOW C	180	366	0.33	122	24	20%
1145b	GLASGOW->BERWICK UPON TWEED	120	400	0.50	200	36	18%
1153c	NEWTON X->GLASGOW C	180	212	0.33	70.66667	13	18%
1022	COWDENBEATH->EDINBURGH	60	192	1.00	192	34	18%
1101	INVERNESS->ARDGAY	180	136	0.33	45.33333	8	17%
1044	NORTH BERWICK->EDINBURGH	50	252	1.20	302.4	48	16%
1161a	E KILBRIDE->GLASGOW C	60	290	1.00	290	45	15%
1045	NORTH BERWICK->HAYMARKET	60	252	1.00	252	38	15%
1105	INVERGORDON->INVERNESS	180	136	0.33	45.33333	6	14%
1138	WHIFFLET->GLASGOW	30	145	2.00	290	40	14%
1178	PSY CNL->GLA C	30	218	2.00	436	53	12%
1153b	NEWTON VMP->GLASGOW C	60	212	1.00	212	20	10%
1036	FALKIRK GRAHAMSTON->GLASGOW QS	60	192	1.00	192	18	9%
1176	GIRVAN->AYR	180	145	0.33	48.33333	4	7%
1038	CUMBERNAULD->GLASGOW QS	60	192	1.00	192	13	7%
1148a	NEWCASTLE->EDINBURGH	134	400	0.45	179.1045	3	2%

Appendix E – Timetabled and Modelled Bus Journey Time Comparisons

Table: Bus Routes for Journey Time Comparison: AM Peak (minutes)

Line No	Operator	Ser. No.	Route Description	Timetabled JT	Modelled JT	Diff	% Diff	AM		Notes
								Within 15% (DMRB)	Within 25%	
721	Scottish CityLink	916	Uig - Glasgow	452	372	-80	-18%	No	Yes	
720	Scottish CityLink	916	Glasgow - Uig	410	361	-49	-12%	Yes	Yes	
309c	Stagecoach Inverness	10	Aberdeen - Inverness	231	237	+6	3%	Yes	Yes	
310a	Stagecoach Inverness	10	Inverness - Aberdeen	229	233	+4	2%	Yes	Yes	
697	Scottish CityLink	M10	Glasgow - Inverness	225	253	+28	13%	Yes	Yes	
761	Scottish CityLink	973	Oban - Dundee	222	208	-14	-6%	Yes	Yes	
760	Scottish CityLink	973	Dundee - Oban	208	205	-3	-1%	Yes	Yes	
933a	First Borders	X95	Carlisle - Edinburgh	205	183	-22	-11%	Yes	Yes	
932a	First Borders	X95	Edinburgh - Carlisle	202	172	-30	-15%	Yes	Yes	
714	Scottish CityLink	976	Oban - Glasgow	175	171	-4	-2%	Yes	Yes	
713	Scottish CityLink	976	Glasgow - Oban	170	160	-10	-6%	Yes	Yes	
775	MacEwan's	100	Dumfries - Edinburgh	155	181	+26	17%	No	Yes	
511f	Stagecoach Fife	X58/X60	St Andrews - Edinburgh	152	194	+42	27%	No	No	
512c	Stagecoach Fife	X58/X60	Edinburgh - St Andrews	154	175	+21	14%	Yes	Yes	
249b	Stagecoach Fife	X54	Edinburgh - Dundee	143	133	-10	-7%	Yes	Yes	
248a	Stagecoach Fife	X54	Dundee - Edinburgh	142	143	+1	1%	Yes	Yes	
567b	Stagecoach West	246	Dumfries - Ayr	137	123	-14	-10%	Yes	Yes	
568d	Stagecoach West	246	Ayr - Dumfries	136	121	-15	-11%	Yes	Yes	
797	Stagecoach West	500	Stranraer - Dumfries	137	116	-21	-16%	No	Yes	
796	Stagecoach West	500	Dumfries - Stranraer	139	115	-24	-17%	No	Yes	
919b	First Borders	62	Edinburgh - Melrose	136	130	-6	-4%	Yes	Yes	
694a	Scottish CityLink	M8	Dundee - Glasgow	135	160	+25	18%	No	Yes	
693a	Scottish CityLink	M8	Glasgow - Dundee	135	160	+25	18%	No	Yes	
302a	Stagecoach Inverness	25	Tain - Inverness	120	70	-49	-41%	No	No	
300a	Stagecoach Inverness	25	Inverness - Tain	146	67	-79	-54%	No	No	
564a	Stagecoach West	585	Ayr - Greenock	125	144	+19	15%	No	Yes	
563a	Stagecoach West	585	Greenock - Ayr	125	141	+16	13%	Yes	Yes	
667	Stagecoach West	X74	Glasgow - Dumfries	125	118	-7	-6%	Yes	Yes	
668	Stagecoach West	X74	Dumfries - Glasgow	125	117	-8	-6%	Yes	Yes	
914a	First Borders	60	Galashiels - Tweedmouth	114	79	-35	-31%	No	No	
915a	First Borders	60	Tweedmouth - Galashiels	105	79	-26	-24%	No	Yes	
115b	Stagecoach Bluebird	X7	Montrose - Aberdeen	111	79	-32	-29%	No	No	
502b	Stagecoach Fife	X27	Kirkcaldy - Glasgow	105	130	+25	24%	No	Yes	
832	Lothian	15A	Tranent - Penicuik	109	104	-5	-4%	Yes	Yes	
833	Lothian	15A	Penicuik - Tranent	107	100	-7	-7%	Yes	Yes	
728a	First Glasgow	216	Glasgow - Helensburgh	106	80	-26	-24%	No	Yes	
729a	First Glasgow	216	Helensburgh - Glasgow	95	82	-13	-14%	Yes	Yes	
726a	First Glasgow	215	Glasgow - Lomond Shores	103	82	-21	-20%	No	Yes	
712a	Scottish CityLink	901	Largs - Glasgow	99	113	+14	14%	Yes	Yes	
711a	Scottish CityLink	901	Glasgow - Largs	98	109	+11	11%	Yes	Yes	
863	First Edinburgh	124	North Berwick - Edinburgh	94	95	+2	2%	Yes	Yes	
862	First Edinburgh	124	Edinburgh - North Berwick	93	78	-15	-16%	No	Yes	
766a	Stagecoach Cumberland	79	Dumfries Carlisle	96	52	-45	-46%	No	No	
767a	Stagecoach Cumberland	79	Carlisle - Dumfries	90	51	-39	-43%	No	No	
636a	Stagecoach West	X44	Ardrossan - Glasgow	95	89	-6	-7%	Yes	Yes	
731	First Glasgow	24	Stirling - Glasgow	90	105	+15	17%	No	Yes	
730a	First Glasgow	24	Glasgow - Stirling	83	101	+18	21%	No	Yes	
661a	First Glasgow	240	Glasgow - Pather	89	96	+6	7%	Yes	Yes	
662a	First Glasgow	240	Pather - Glasgow	87	105	+18	21%	No	Yes	
824	Lothian	30	Clovenstone - Musselburgh	90	68	-23	-25%	No	Yes	
825	Lothian	30	Musselburgh - Clovenstone	84	69	-15	-17%	No	Yes	
753a	McGills	904	Helensburgh - Glasgow	89	77	-12	-13%	Yes	Yes	
752a	McGills	904	Glasgow - Helensburgh	85	72	-13	-15%	Yes	Yes	
659a	First Glasgow	255	Glasgow - Newarthill	88	68	-20	-22%	No	Yes	
660a	First Glasgow	255	Newarthill - Glasgow	79	79	0	0%	Yes	Yes	
732	First Glasgow	27	Glasgow - Falkirk	85	79	-6	-7%	Yes	Yes	
733	First Glasgow	27	Falkirk - Glasgow	90	82	-8	-8%	Yes	Yes	
613b	Scottish Citylink	900	Edinburgh - Glasgow	81	84	+3	3%	Yes	Yes	
612a	Scottish Citylink	900	Glasgow - Edinburgh	83	85	+2	2%	Yes	Yes	
692a	First Glasgow	X39	Stirling - Glasgow	82	73	-9	-11%	Yes	Yes	
691	First Glasgow	X39	Glasgow - Stirling	83	66	-17	-20%	No	Yes	
464	First Edinburgh	X30	Falkirk - Edinburgh	81	79	-2	-2%	Yes	Yes	
885c	First Edinburgh	44	Wallyford - Balerno	79	100	+21	27%	No	No	
884a	First Edinburgh	44	Balerno - Wallyford	74	93	+19	25%	No	No	
459	First Glasgow	X37	Falkirk - Glasgow	78	88	+9	12%	Yes	Yes	
458a	First Glasgow	X37	Glasgow - Falkirk	78	83	+5	6%	Yes	Yes	
631a	Stagecoach West	X34	Glasgow - Irvine	77	69	-8	-11%	Yes	Yes	
267b	Stagecoach Strathtay	16	Perth - Dundee	77	40	-37	-48%	No	No	
266b	Stagecoach Strathtay	16	Dundee - Perth	67	39	-28	-41%	No	No	
550	Stagecoach West	11	Ardrossan - Kilmarnock	74	75	+1	2%	Yes	Yes	
551	Stagecoach West	11	Kilmarnock - Ardrossan	74	77	+3	5%	Yes	Yes	
101a	Stagecoach Bluebird	263	Peterhead - Aberdeen	75	74	-1	-2%	Yes	Yes	
100a	Stagecoach Bluebird	263	Aberdeen - Peterhead	69	67	-2	-3%	Yes	Yes	
600a	First Glasgow	X1	Hillhouse - Glasgow (George Square)	62	37	-25	-40%	No	No	
741a	Arriva	36	Kilbarchan - Glasgow	71	50	-21	-30%	No	No	
740b	Arriva	36	Glasgow - Kilbarchan	68	48	-20	-29%	No	No	
750a	Arriva	23A	Glasgow (Renfield St.) - Erskine Harbour	64	40	-25	-38%	No	No	
616	First Edinburgh	15A	Glasgow - Livingston	71	51	-20	-28%	No	No	
615	First Edinburgh	15A	Livingston - Glasgow	68	49	-19	-28%	No	No	
242a	Stagecoach Strathtay	73A	Carnoustie - Ninewells	64	53	-11	-16%	No	Yes	
241c	Stagecoach Strathtay	73A	Ninewells - Carnoustie	62	53	-9	-15%	No	Yes	
566a	Stagecoach West	X77	Glasgow - Ayr	60	55	-5	-9%	Yes	Yes	
565a	Stagecoach West	X77	Ayr - Glasgow	61	57	-4	-7%	Yes	Yes	
643	First Glasgow	85	Glasgow - Campsie Glen	58	45	-13	-23%	No	Yes	
644	First Glasgow	85	Campsie Glen - Glasgow	58	52	-6	-11%	Yes	Yes	
137	Stagecoach Bluebird	10	Aberdeen - Inverurie	50	60	+10	20%	No	Yes	
136	Stagecoach Bluebird	10	Inverurie - Aberdeen	51	65	+15	29%	No	No	
844	First Edinburgh	8	Livingston - Whitburn	54	45	-9	-17%	No	Yes	
845	First Edinburgh	8	Whitburn - Livingston	54	48	-6	-12%	Yes	Yes	
610	First Glasgow	X11	Newmains - Glasgow	57	62	+4	7%	Yes	Yes	
611	First Glasgow	X11	Glasgow - Newmains	51	58	+7	13%	Yes	Yes	
736	McKindless	80	Glasgow - Harestanes	53	46	-7	-13%	Yes	Yes	
737	McKindless	80	Harestanes - Glasgow	52	55	+3	6%	Yes	Yes	
413a	First Edinburgh	59	Stirling - Callander	45	27	-18	-41%	No	No	
414a	First Edinburgh	59	Callander - Stirling	47	27	-20	-43%	No	No	
554	Stagecoach West	10	Kilmarnock - Troon	46	40	-6	-12%	Yes	Yes	
555a	Stagecoach West	10	Troon - Kilmarnock	43	39	-4	-10%	Yes	Yes	
676	First Glasgow	FX4	Abrohill - Glasgow	45	54	+9	20%	No	Yes	
664	First Glasgow	213	Bargeddie - Glasgow	46	23	-23	-50%	No	No	
663	First Glasgow	213	Glasgow - Bargeddie	43	23	-20	-47%	No	No	
860	First Edinburgh	121	North Berwick - Haddington	43	30	-13	-29%	No	No	
861	First Edinburgh	121	Haddington - North Berwick	43	28	-14	-34%	No	No	
400	First Edinburgh	60	Stirling - Clackmannan	39	28	-11	-28%	No	No	
402	First Edinburgh	60	Clackmannan - Stirling	37	29	-8	-21%	No	Yes	

Table: Bus Routes for Journey Time Comparison: IP Peak (minutes)

Line No	Operator	Ser. No.	Route Description	Timetabled JT	Modelled JT	Diff	% Diff	IP		Notes
								Within 15% (DMRB)	Within 25%	
721	Scottish CityLink	916	Uig - Glasgow	446	363	-83	-19%	No	Yes	
720	Scottish CityLink	916	Glasgow - Uig	425	361	-64	-15%	No	Yes	
309c	Stagecoach Inverness	10	Aberdeen - Inverness	235	226	-8	-4%	Yes	Yes	
310a	Stagecoach Inverness	10	Inverness - Aberdeen	228	221	-7	-3%	Yes	Yes	
697	Scottish CityLink	M10	Glasgow - Inverness	225	246	+21	9%	Yes	Yes	
698	Scottish CityLink	M10	Inverness - Glasgow	225	249	+24	10%	Yes	Yes	
761	Scottish CityLink	973	Oban - Dundee	222	204	-18	-8%	Yes	Yes	
760	Scottish CityLink	973	Dundee - Oban	208	203	-5	-2%	Yes	Yes	
933a	First Borders	X95	Carlisle - Edinburgh	203	172	-30	-15%	Yes	Yes	
932a	First Borders	X95	Edinburgh - Carlisle	202	173	-29	-14%	Yes	Yes	
714	Scottish CityLink	976	Oban - Glasgow	178	162	-15	-9%	Yes	Yes	
713	Scottish CityLink	976	Glasgow - Oban	175	160	-15	-9%	Yes	Yes	
775	MacEwan's	100	Dumfries - Edinburgh	155	167	+12	8%	Yes	Yes	
776	MacEwan's	100	Edinburgh - Dumfries	150	167	+17	11%	Yes	Yes	
511f	Stagecoach Fife	X58/X60	St Andrews - Edinburgh	152	164	+12	8%	Yes	Yes	
512c	Stagecoach Fife	X58/X60	Edinburgh - St Andrews	153	169	+16	11%	Yes	Yes	
249b	Stagecoach Fife	X54	Edinburgh - Dundee	143	117	-26	-18%	No	Yes	
248a	Stagecoach Fife	X54	Dundee - Edinburgh	142	111	-31	-22%	No	Yes	
567b	Stagecoach West	246	Dumfries - Ayr	141	123	-17	-12%	Yes	Yes	
568d	Stagecoach West	246	Ayr - Dumfries	136	120	-16	-12%	Yes	Yes	
797	Stagecoach West	500	Stranraer - Dumfries	137	115	-22	-16%	No	Yes	
796	Stagecoach West	500	Dumfries - Stranraer	131	115	-15	-12%	Yes	Yes	
918a	First Borders	62	Melrose - Edinburgh	138	129	-9	-7%	Yes	Yes	
919b	First Borders	62	Edinburgh - Melrose	136	131	-5	-4%	Yes	Yes	
694a	Scottish CityLink	M8	Dundee - Glasgow	136	147	+11	8%	Yes	Yes	
693a	Scottish CityLink	M8	Glasgow - Dundee	135	151	+16	12%	Yes	Yes	
302a	Stagecoach Inverness	25	Tain - Inverness	144	68	-76	-53%	No	No	
300a	Stagecoach Inverness	25	Inverness - Tain	127	66	-62	-48%	No	No	
564a	Stagecoach West	585	Ayr - Greenock	125	141	+16	13%	Yes	Yes	
563a	Stagecoach West	585	Greenock - Ayr	123	137	+14	11%	Yes	Yes	
667	Stagecoach West	X74	Glasgow - Dumfries	125	117	-8	-6%	Yes	Yes	
668	Stagecoach West	X74	Dumfries - Glasgow	125	114	-11	-9%	Yes	Yes	
914a	First Borders	60	Galashiels - Tweedmouth	109	79	-30	-28%	No	No	
915a	First Borders	60	Tweedmouth - Galashiels	108	79	-28	-26%	No	No	
503b	Stagecoach Fife	X27	Glasgow - Kirkcaldy	110	113	+3	3%	Yes	Yes	
502b	Stagecoach Fife	X27	Kirkcaldy - Glasgow	105	116	+11	10%	Yes	Yes	
832	Lothian	15A	Tranent - Penicuik	108	87	-20	-19%	No	Yes	
833	Lothian	15A	Penicuik - Tranent	106	89	-17	-16%	No	Yes	
728a	First Glasgow	216	Glasgow - Helensburgh	104	76	-28	-27%	No	No	
729a	First Glasgow	216	Helensburgh - Glasgow	94	75	-19	-20%	No	Yes	
726a	First Glasgow	215	Glasgow - Lomond Shores	103	78	-25	-24%	No	Yes	
727a	First Glasgow	215	Lomond Shores - Glasgow	92	77	-15	-16%	No	Yes	
712a	Scottish CityLink	901	Largs - Glasgow	99	103	+4	4%	Yes	Yes	
711a	Scottish CityLink	901	Glasgow - Largs	98	107	+9	9%	Yes	Yes	
863	First Edinburgh	124	North Berwick - Edinburgh	96	78	-17	-18%	No	Yes	
862	First Edinburgh	124	Edinburgh - North Berwick	94	79	-16	-17%	No	Yes	
766a	Stagecoach Cumberland	79	Dumfries Carlisle	95	51	-44	-47%	No	No	
767a	Stagecoach Cumberland	79	Carlisle - Dumfries	93	51	-42	-45%	No	No	
731	First Glasgow	24	Stirling - Glasgow	92	96	+4	4%	Yes	Yes	
730a	First Glasgow	24	Glasgow - Stirling	83	96	+13	15%	No	Yes	
661a	First Glasgow	240	Glasgow - Pather	89	92	+3	3%	Yes	Yes	
662a	First Glasgow	240	Pather - Glasgow	87	96	+9	10%	Yes	Yes	
824	Lothian	30	Clovenstone - Musselburgh	89	62	-27	-30%	No	No	
825	Lothian	30	Musselburgh - Clovenstone	84	61	-23	-28%	No	No	
753a	McGills	904	Helensburgh - Glasgow	89	71	-18	-21%	No	Yes	
752a	McGills	904	Glasgow - Helensburgh	86	71	-16	-18%	No	Yes	
659a	First Glasgow	255	Glasgow - Newarthill	88	68	-20	-22%	No	Yes	
660a	First Glasgow	255	Newarthill - Glasgow	79	74	-5	-7%	Yes	Yes	
732	First Glasgow	27	Glasgow - Falkirk	85	73	-12	-14%	Yes	Yes	
733	First Glasgow	27	Falkirk - Glasgow	85	74	-11	-13%	Yes	Yes	
613b	Scottish Citylink	900	Edinburgh - Glasgow	86	76	-10	-11%	Yes	Yes	
612a	Scottish Citylink	900	Glasgow - Edinburgh	83	73	-10	-12%	Yes	Yes	
692a	First Glasgow	X39	Stirling - Glasgow	83	63	-19	-23%	No	Yes	
691	First Glasgow	X39	Glasgow - Stirling	78	61	-17	-22%	No	Yes	
885c	First Edinburgh	44	Wallyford - Balerno	79	84	+5	6%	Yes	Yes	
884a	First Edinburgh	44	Balerno - Wallyford	74	84	+10	14%	Yes	Yes	
459	First Glasgow	X37	Falkirk - Glasgow	78	79	+1	1%	Yes	Yes	
458a	First Glasgow	X37	Glasgow - Falkirk	78	79	+1	1%	Yes	Yes	
631a	Stagecoach West	X34	Glasgow - Irvine	77	66	-11	-14%	Yes	Yes	
632b	Stagecoach West	X34	Irvine - Glasgow	65	65	-0	-1%	Yes	Yes	
267b	Stagecoach Strathtay	16	Perth - Dundee	73	38	-35	-47%	No	No	
266b	Stagecoach Strathtay	16	Dundee - Perth	68	38	-29	-43%	No	No	
550	Stagecoach West	11	Ardrossan - Kilmarnock	74	71	-3	-4%	Yes	Yes	
551	Stagecoach West	11	Kilmarnock - Ardrossan	74	74	+0	0%	Yes	Yes	
101a	Stagecoach Bluebird	263	Peterhead - Aberdeen	70	67	-3	-4%	Yes	Yes	
100a	Stagecoach Bluebird	263	Aberdeen - Peterhead	70	67	-3	-4%	Yes	Yes	
601b	First Glasgow	X1	Glasgow (George Square) - Hillhouse	70	29	-41	-59%	No	No	
600a	First Glasgow	X1	Hillhouse - Glasgow (George Square)	60	32	-28	-47%	No	No	
741a	Arriva	36	Kilbarchan - Glasgow	71	46	-25	-36%	No	No	
740b	Arriva	36	Glasgow - Kilbarchan	68	47	-21	-31%	No	No	
751	Arriva	23A	Erskine Harbour - Glasgow (Renfield St.)	69	36	-33	-47%	No	No	
242a	Stagecoach Strathtay	73A	Carnoustie - Ninewells	64	50	-14	-21%	No	Yes	
241c	Stagecoach Strathtay	73A	Ninewells - Carnoustie	62	51	-12	-19%	No	Yes	
566a	Stagecoach West	X77	Glasgow - Ayr	59	52	-7	-12%	Yes	Yes	
565a	Stagecoach West	X77	Ayr - Glasgow	59	52	-7	-12%	Yes	Yes	
643	First Glasgow	85	Glasgow - Campsie Glen	58	44	-15	-25%	No	No	
644	First Glasgow	85	Campsie Glen - Glasgow	58	44	-14	-24%	No	Yes	
137	Stagecoach Bluebird	10	Aberdeen - Inverurie	55	57	+2	3%	Yes	Yes	
136	Stagecoach Bluebird	10	Inverurie - Aberdeen	51	58	+7	14%	Yes	Yes	
844	First Edinburgh	8	Livingston - Whitburn	54	44	-10	-18%	No	Yes	
845	First Edinburgh	8	Whitburn - Livingston	54	45	-9	-16%	No	Yes	
610	First Glasgow	X11	Newmains - Glasgow	51	57	+6	12%	Yes	Yes	
611	First Glasgow	X11	Glasgow - Newmains	51	57	+6	12%	Yes	Yes	
736	McKindless	80	Glasgow - Harestanes	53	44	-9	-17%	No	Yes	
413a	First Edinburgh	59	Stirling - Callander	47	26	-20	-43%	No	No	
414a	First Edinburgh	59	Callander - Stirling	44	26	-18	-40%	No	No	
554	Stagecoach West	10	Kilmarnock - Troon	46	39	-7	-15%	No	Yes	
555a	Stagecoach West	10	Troon - Kilmarnock	44	37	-7	-16%	No	Yes	
676	First Glasgow	FX4	Abrohill - Glasgow	45	46	+1	2%	Yes	Yes	
675	First Glasgow	FX4	Glasgow - Abrohill	43	38	-5	-12%	Yes	Yes	
664	First Glasgow	213	Bargeddie - Glasgow	44	21	-23	-51%	No	No	
663	First Glasgow	213	Glasgow - Bargeddie	43	23	-20	-47%	No	No	
860	First Edinburgh	121	North Berwick - Haddington	43	30	-13	-30%	No	No	
861	First Edinburgh	121	Haddington - North Berwick	42	28	-13	-32%	No	No	
400	First Edinburgh	60	Stirling - Clackmannan	39	27	-12	-30%	No	No	
402	First Edinburgh	60	Clackmannan - Stirling	37	27	-10	-28%	No	No	

Table: Bus Routes for Journey Time Comparison: PM Peak (minutes)

Line No	Operator	Ser. No.	Route Description	Timetabled JT	Modelled JT	Diff	% Diff	PM		Notes
								Within 15% (DMRB)	Within 25%	
721	Scottish CityLink	916	Uig - Glasgow	446	368	-78	-18%	No	Yes	
720	Scottish CityLink	916	Glasgow - Uig	440	374	-66	-15%	Yes	Yes	
309c	Stagecoach Inverness	10	Aberdeen - Inverness	239	243	+4	2%	Yes	Yes	
310a	Stagecoach Inverness	10	Inverness - Aberdeen	230	233	+3	2%	Yes	Yes	
697	Scottish CityLink	M10	Glasgow - Inverness	225	261	+36	16%	No	Yes	
761	Scottish CityLink	973	Oban - Dundee	222	208	-14	-6%	Yes	Yes	
760	Scottish CityLink	973	Dundee - Oban	215	210	-5	-2%	Yes	Yes	
933a	First Borders	X95	Carlisle - Edinburgh	203	181	-22	-11%	Yes	Yes	
932a	First Borders	X95	Edinburgh - Carlisle	202	192	-10	-5%	Yes	Yes	
714	Scottish CityLink	976	Oban - Glasgow	175	167	-8	-5%	Yes	Yes	
713	Scottish CityLink	976	Glasgow - Oban	170	173	+3	2%	Yes	Yes	
775	MacEwan's	100	Dumfries - Edinburgh	155	174	+19	12%	Yes	Yes	
776	MacEwan's	100	Edinburgh - Dumfries	150	183	+33	22%	No	Yes	
511f	Stagecoach Fife	X58/X60	St Andrews - Edinburgh	154	175	+22	14%	Yes	Yes	
512c	Stagecoach Fife	X58/X60	Edinburgh - St Andrews	139	207	+69	50%	No	No	
249b	Stagecoach Fife	X54	Edinburgh - Dundee	143	161	+18	13%	Yes	Yes	
567b	Stagecoach West	246	Dumfries - Ayr	145	123	-22	-15%	No	Yes	
568d	Stagecoach West	246	Ayr - Dumfries	136	122	-14	-11%	Yes	Yes	
797	Stagecoach West	500	Stranraer - Dumfries	141	116	-25	-18%	No	Yes	
796	Stagecoach West	500	Dumfries - Stranraer	123	117	-6	-5%	Yes	Yes	
918a	First Borders	62	Melrose - Edinburgh	138	138	-0	0%	Yes	Yes	
694a	Scottish CityLink	M8	Dundee - Glasgow	134	161	+27	20%	No	Yes	
693a	Scottish CityLink	M8	Glasgow - Dundee	134	167	+33	25%	No	Yes	
302a	Stagecoach Inverness	25	Tain - Inverness	128	68	-60	-47%	No	No	
300a	Stagecoach Inverness	25	Inverness - Tain	111	70	-41	-37%	No	No	
564a	Stagecoach West	585	Ayr - Greenock	125	147	+22	18%	No	Yes	
563a	Stagecoach West	585	Greenock - Ayr	121	142	+21	18%	No	Yes	
667	Stagecoach West	X74	Glasgow - Dumfries	125	125	-0	0%	Yes	Yes	
668	Stagecoach West	X74	Dumfries - Glasgow	125	120	-5	-4%	Yes	Yes	
914a	First Borders	60	Galashiels - Tweedmouth	110	80	-30	-27%	No	No	
915a	First Borders	60	Tweedmouth - Galashiels	110	80	-30	-27%	No	No	
114a	Stagecoach Bluebird	X7	Aberdeen - Montrose	110	80	-30	-27%	No	No	
503b	Stagecoach Fife	X27	Glasgow - Kirkcaldy	110	129	+18	17%	No	Yes	
502b	Stagecoach Fife	X27	Kirkcaldy - Glasgow	105	128	+23	22%	No	Yes	
832	Lothian	15A	Tranent - Penicuik	107	103	-4	-4%	Yes	Yes	
833	Lothian	15A	Penicuik - Tranent	104	111	+7	7%	Yes	Yes	
728a	First Glasgow	216	Glasgow - Helensburgh	102	86	-16	-16%	No	Yes	
729a	First Glasgow	216	Helensburgh - Glasgow	93	79	-14	-15%	Yes	Yes	
726a	First Glasgow	215	Glasgow - Lomond Shores	104	90	-14	-14%	Yes	Yes	
727a	First Glasgow	215	Lomond Shores - Glasgow	92	82	-10	-11%	Yes	Yes	
711a	Scottish CityLink	901	Glasgow - Largs	98	120	+22	23%	No	Yes	
863	First Edinburgh	124	North Berwick - Edinburgh	98	80	-18	-19%	No	Yes	
862	First Edinburgh	124	Edinburgh - North Berwick	97	99	+2	3%	Yes	Yes	
766a	Stagecoach Cumberland	79	Dumfries Carlisle	94	52	-42	-45%	No	No	
767a	Stagecoach Cumberland	79	Carlisle - Dumfries	95	52	-43	-46%	No	No	
635a	Stagecoach West	X44	Glasgow - Ardrossan	91	96	+5	6%	Yes	Yes	
731	First Glasgow	24	Stirling - Glasgow	92	105	+13	14%	Yes	Yes	
730a	First Glasgow	24	Glasgow - Stirling	87	107	+20	23%	No	Yes	
661a	First Glasgow	240	Glasgow - Pather	93	102	+9	10%	Yes	Yes	
662a	First Glasgow	240	Pather - Glasgow	86	109	+22	26%	No	No	
824	Lothian	30	Clovenstone - Musselburgh	89	74	-15	-17%	No	Yes	
825	Lothian	30	Musselburgh - Clovenstone	84	75	-9	-11%	Yes	Yes	
753a	McGills	904	Helensburgh - Glasgow	89	75	-14	-15%	No	Yes	
752a	McGills	904	Glasgow - Helensburgh	86	82	-4	-5%	Yes	Yes	
659a	First Glasgow	255	Glasgow - Newarthill	89	75	-14	-16%	No	Yes	
660a	First Glasgow	255	Newarthill - Glasgow	75	79	+4	6%	Yes	Yes	
732	First Glasgow	27	Glasgow - Falkirk	93	84	-9	-9%	Yes	Yes	
733	First Glasgow	27	Falkirk - Glasgow	85	84	-1	-2%	Yes	Yes	
613b	Scottish Citylink	900	Edinburgh - Glasgow	87	89	+2	2%	Yes	Yes	
692a	First Glasgow	X39	Stirling - Glasgow	83	72	-11	-14%	Yes	Yes	
691	First Glasgow	X39	Glasgow - Stirling	80	73	-7	-9%	Yes	Yes	
465	First Edinburgh	X30	Edinburgh - Falkirk	77	82	+5	6%	Yes	Yes	
885c	First Edinburgh	44	Wallyford - Balerno	79	95	+16	21%	No	Yes	
884a	First Edinburgh	44	Balerno - Wallyford	74	105	+31	42%	No	No	
459	First Glasgow	X37	Falkirk - Glasgow	78	87	+9	11%	Yes	Yes	
458a	First Glasgow	X37	Glasgow - Falkirk	78	88	+10	12%	Yes	Yes	
632b	Stagecoach West	X34	Irvine - Glasgow	65	67	+2	3%	Yes	Yes	
267b	Stagecoach Strathtay	16	Perth - Dundee	74	41	-33	-45%	No	No	
266b	Stagecoach Strathtay	16	Dundee - Perth	69	42	-27	-39%	No	No	
550	Stagecoach West	11	Ardrossan - Kilmarnock	74	75	+1	1%	Yes	Yes	
551	Stagecoach West	11	Kilmarnock - Ardrossan	74	79	+5	7%	Yes	Yes	
101a	Stagecoach Bluebird	263	Peterhead - Aberdeen	70	68	-2	-2%	Yes	Yes	
100a	Stagecoach Bluebird	263	Aberdeen - Peterhead	74	74	+0	0%	Yes	Yes	
601b	First Glasgow	X1	Glasgow (George Square) - Hillhouse	73	38	-34	-47%	No	No	
600a	First Glasgow	X1	Hillhouse - Glasgow (George Square)	60	37	-23	-39%	No	No	
741a	Arriva	36	Kilbarchan - Glasgow	72	50	-22	-31%	No	No	
740b	Arriva	36	Glasgow - Kilbarchan	68	52	-16	-23%	No	Yes	
751	Arriva	23A	Erskine Harbour - Glasgow (Renfield St.)	70	38	-32	-46%	No	No	
616	First Edinburgh	15A	Glasgow - Livingston	61	52	-9	-14%	Yes	Yes	
615	First Edinburgh	15A	Livingston - Glasgow	61	53	-8	-13%	Yes	Yes	
242a	Stagecoach Strathtay	73A	Carnoustie - Ninewells	64	54	-10	-16%	No	Yes	
241c	Stagecoach Strathtay	73A	Ninewells - Carnoustie	62	56	-6	-10%	Yes	Yes	
566a	Stagecoach West	X77	Glasgow - Ayr	58	61	+3	5%	Yes	Yes	
565a	Stagecoach West	X77	Ayr - Glasgow	58	55	-3	-5%	Yes	Yes	
643	First Glasgow	85	Glasgow - Campsie Glen	58	53	-5	-9%	Yes	Yes	
644	First Glasgow	85	Campsie Glen - Glasgow	58	49	-8	-14%	Yes	Yes	
137	Stagecoach Bluebird	10	Aberdeen - Inverurie	61	65	+5	8%	Yes	Yes	
136	Stagecoach Bluebird	10	Inverurie - Aberdeen	51	62	+11	22%	No	Yes	
844	First Edinburgh	8	Livingston - Whitburn	54	49	-5	-10%	Yes	Yes	
845	First Edinburgh	8	Whitburn - Livingston	54	47	-7	-13%	Yes	Yes	
610	First Glasgow	X11	Newmains - Glasgow	51	64	+13	25%	No	Yes	
611	First Glasgow	X11	Glasgow - Newmains	55	66	+11	20%	No	Yes	
736	McKindless	80	Glasgow - Harestanes	53	56	+3	6%	Yes	Yes	
737	McKindless	80	Harestanes - Glasgow	52	52	-0	0%	Yes	Yes	
413a	First Edinburgh	59	Stirling - Callander	45	27	-18	-39%	No	No	
414a	First Edinburgh	59	Callander - Stirling	45	27	-19	-41%	No	No	
554	Stagecoach West	10	Kilmarnock - Troon	45	41	-3	-7%	Yes	Yes	
555a	Stagecoach West	10	Troon - Kilmarnock	44	39	-5	-12%	Yes	Yes	
664	First Glasgow	213	Bargeddie - Glasgow	42	22	-19	-47%	No	No	
663	First Glasgow	213	Glasgow - Bargeddie	43	25	-18	-42%	No	No	
860	First Edinburgh	121	North Berwick - Haddington	42	30	-12	-28%	No	No	
861	First Edinburgh	121	Haddington - North Berwick	43	29	-14	-32%	No	No	
400	First Edinburgh	60	Stirling - Clackmannan	40	31	-10	-24%	No	Yes	
402	First Edinburgh	60	Clackmannan - Stirling	37	28	-9	-25%	No	Yes	

Figure 1: Bus Timetable v Modelled JT Comparison: AM Peak (1 of 4)

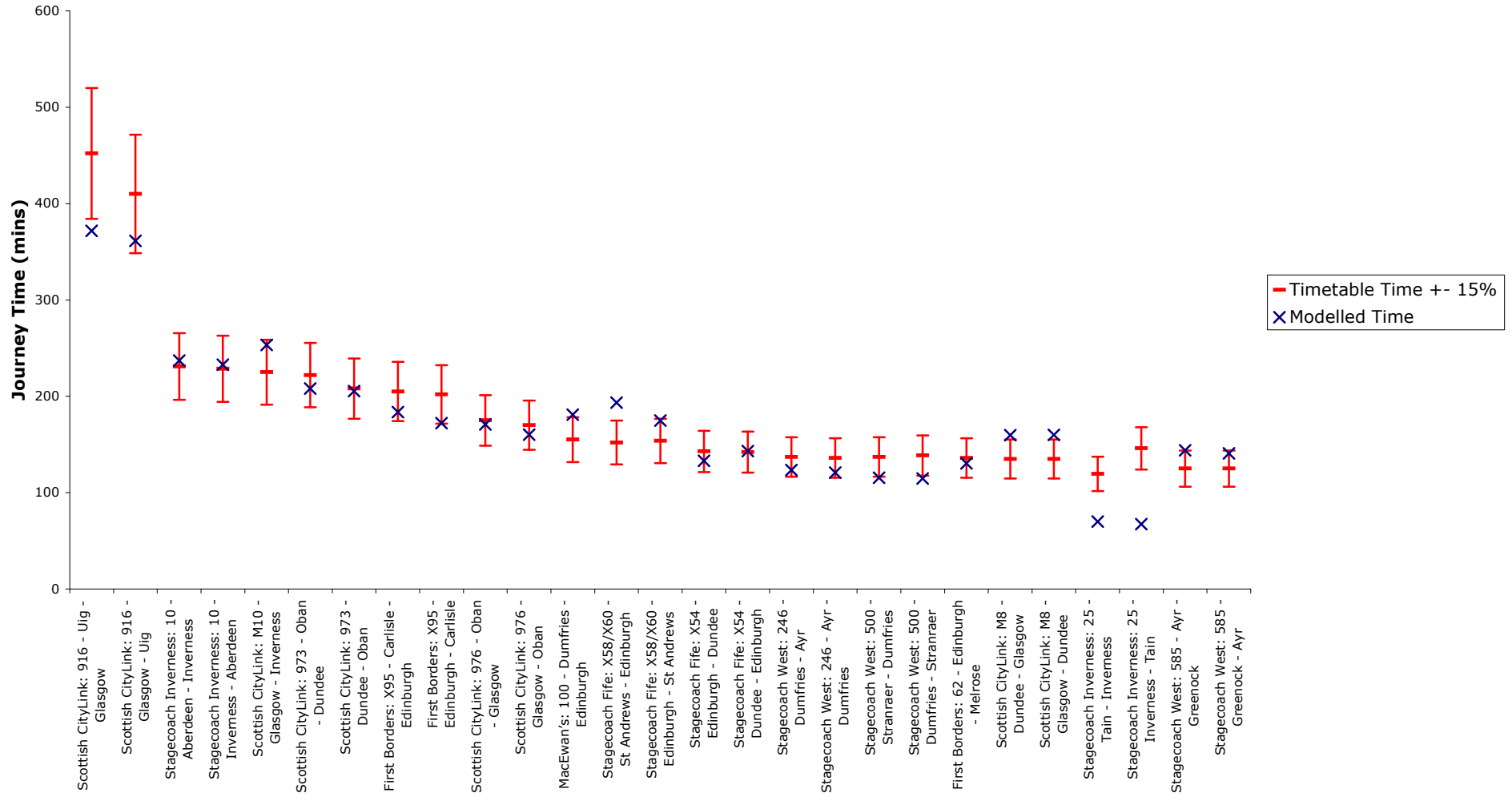


Figure 2: Bus Timetable v Modelled JT Comparison: AM Peak (2 of 4)

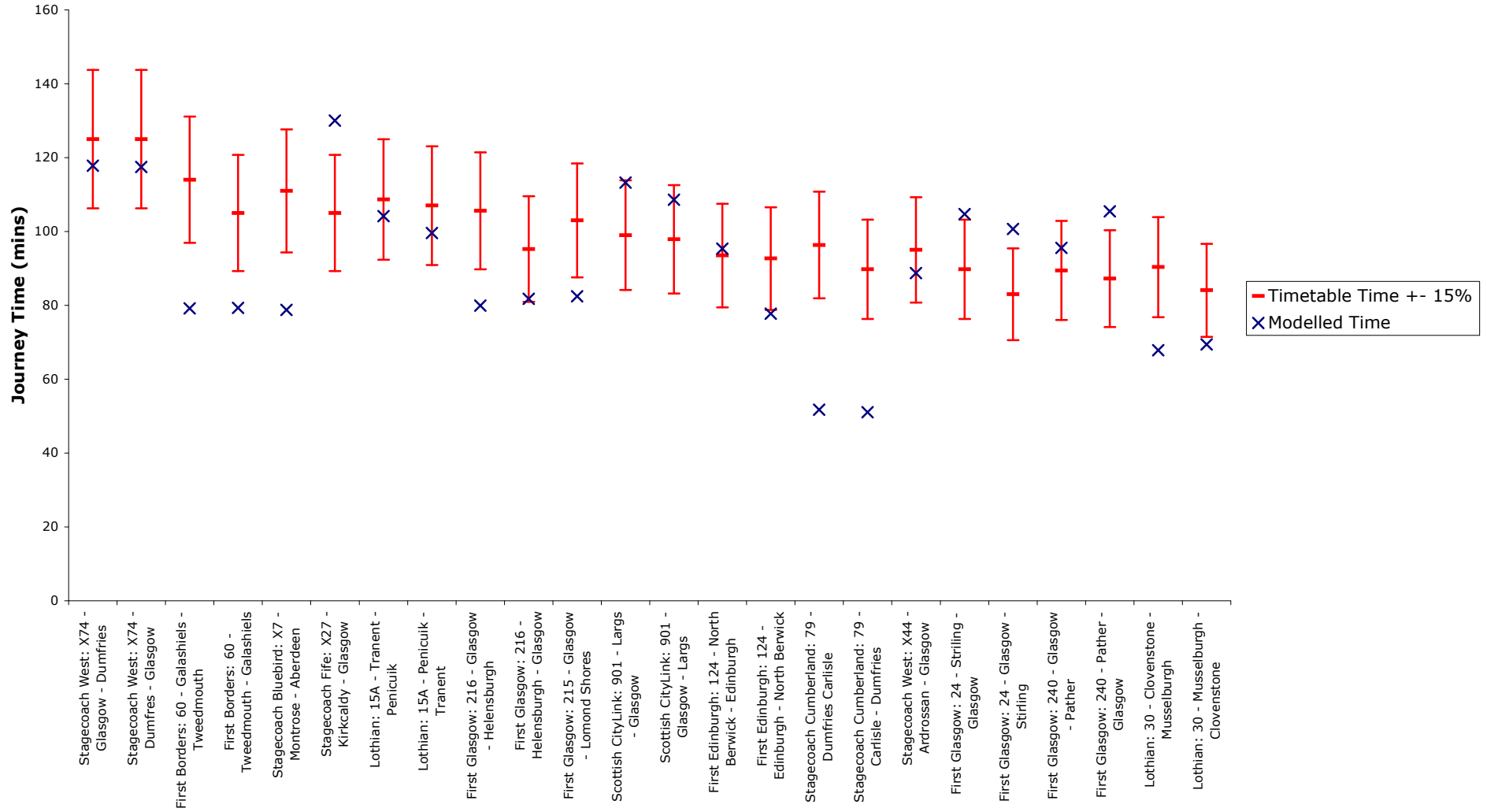


Figure 3: Bus Timetable v Modelled JT Comparison: AM Peak (3 of 4)

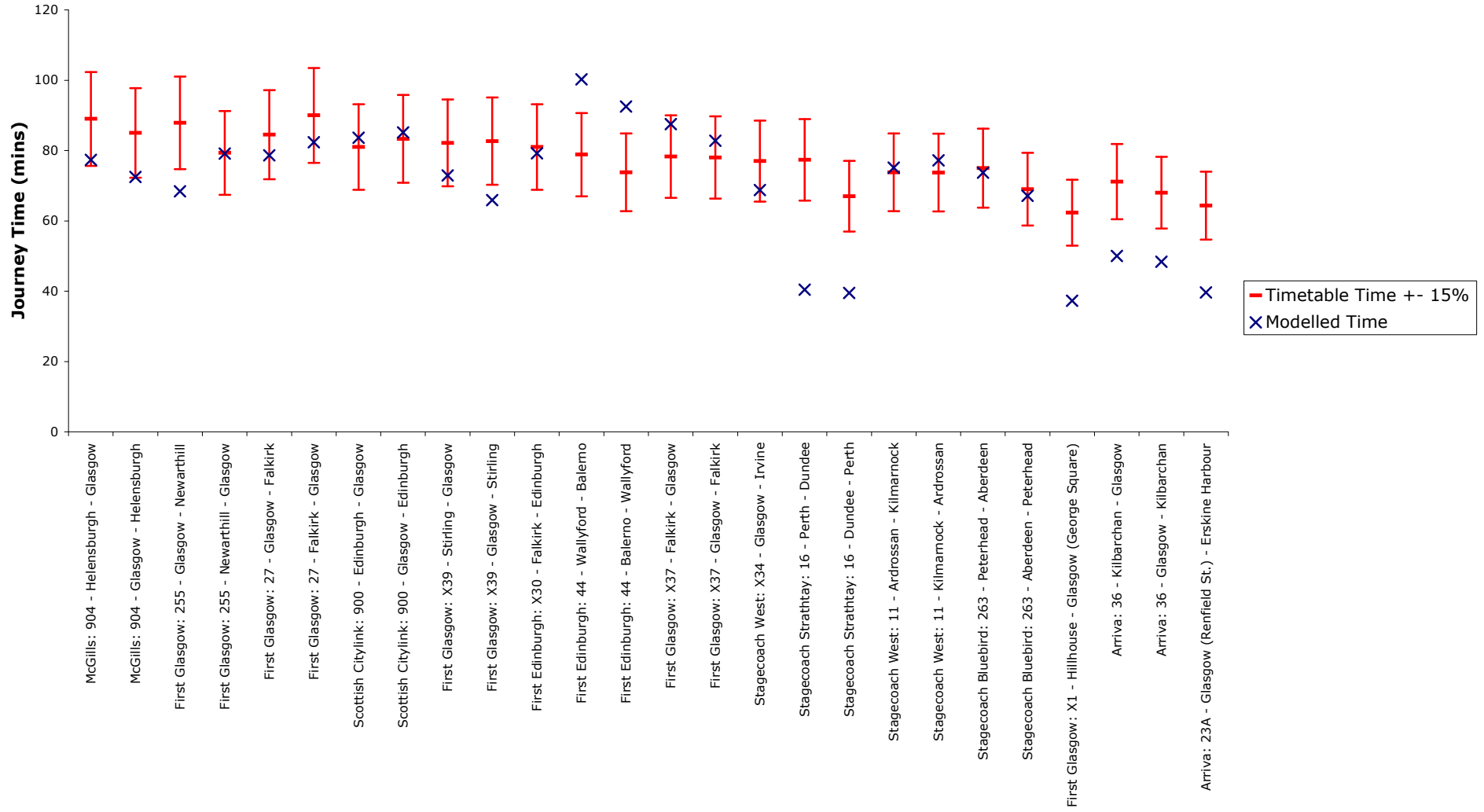


Figure 4: Bus Timetable v Modelled JT Comparison: AM Peak (4 of 4)

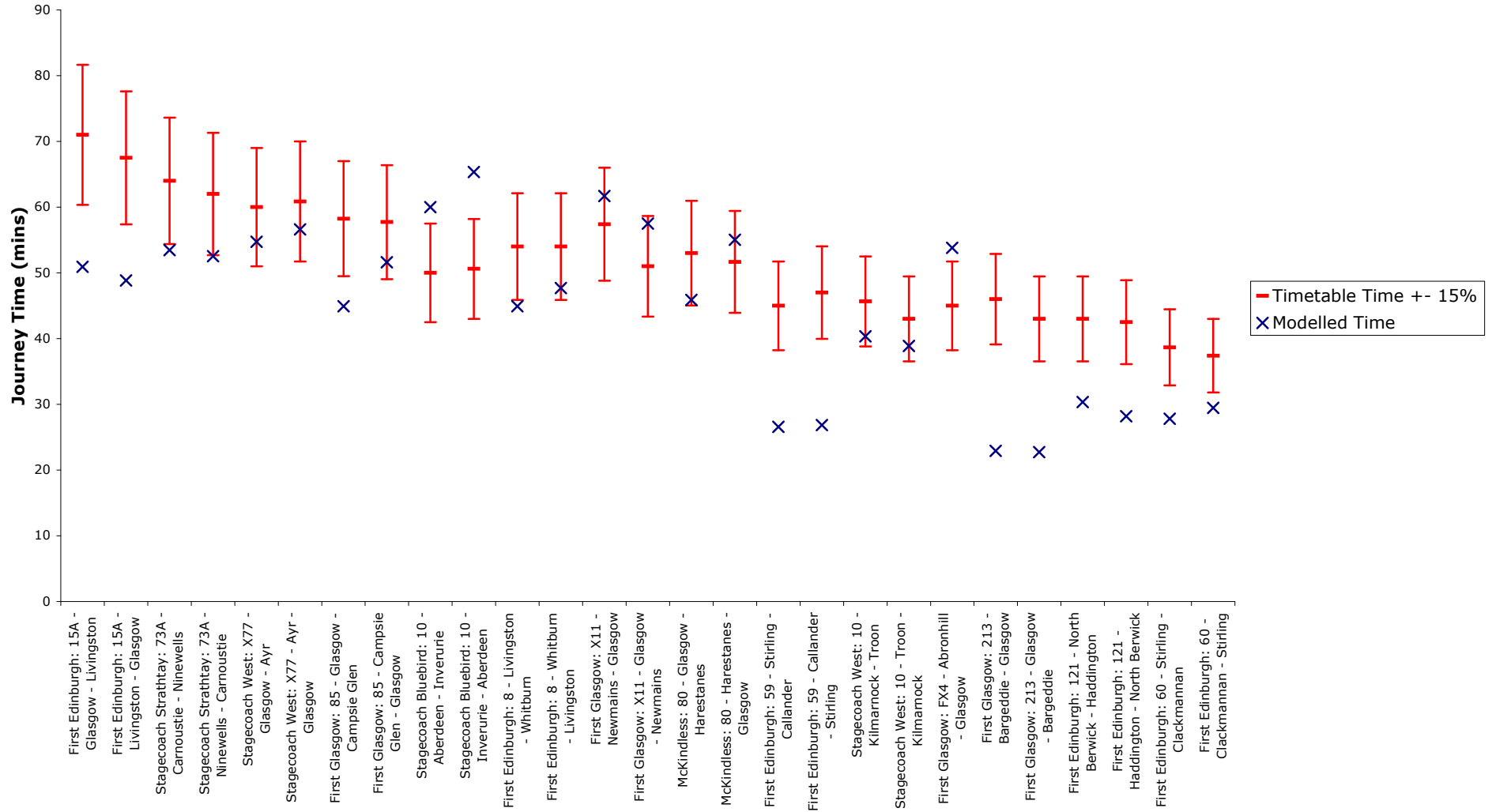


Figure 1: Bus Timetable v Modelled JT Comparison: IP Peak (1 of 4)

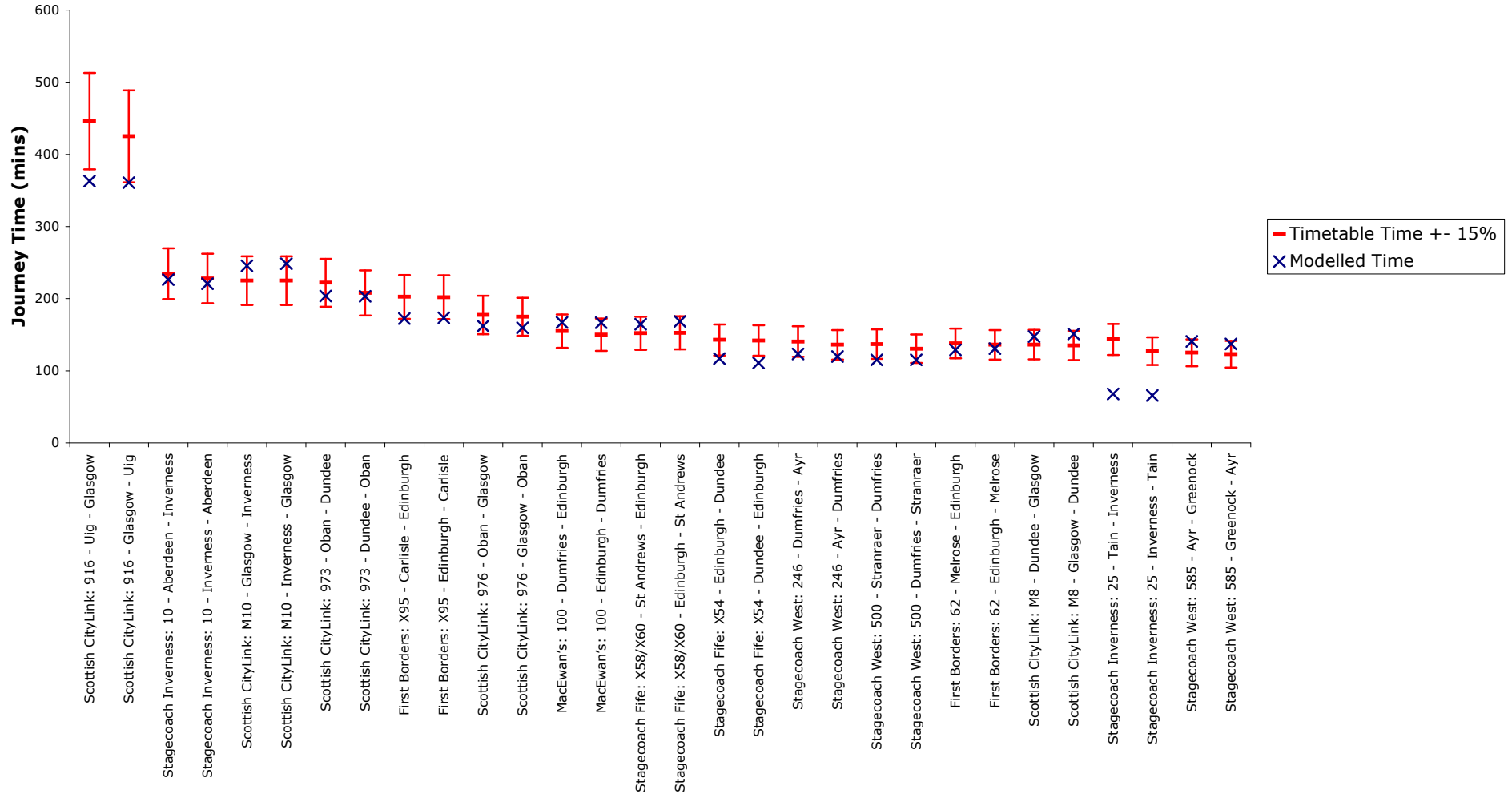


Figure 2: Bus Timetable v Modelled JT Comparison: IP Peak (2 of 4)

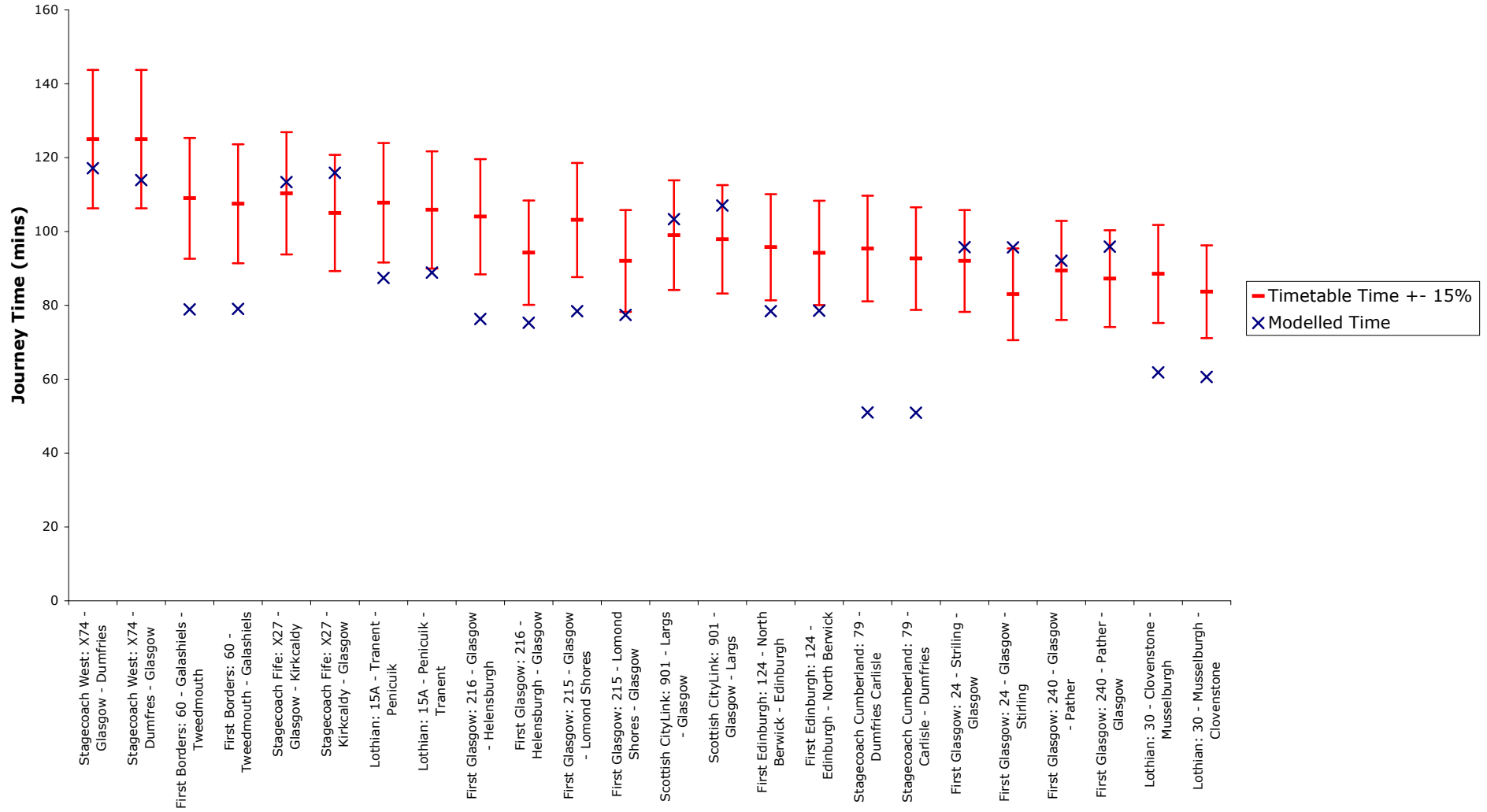


Figure 3: Bus Timetable v Modelled JT Comparison: IP Peak (3 of 4)

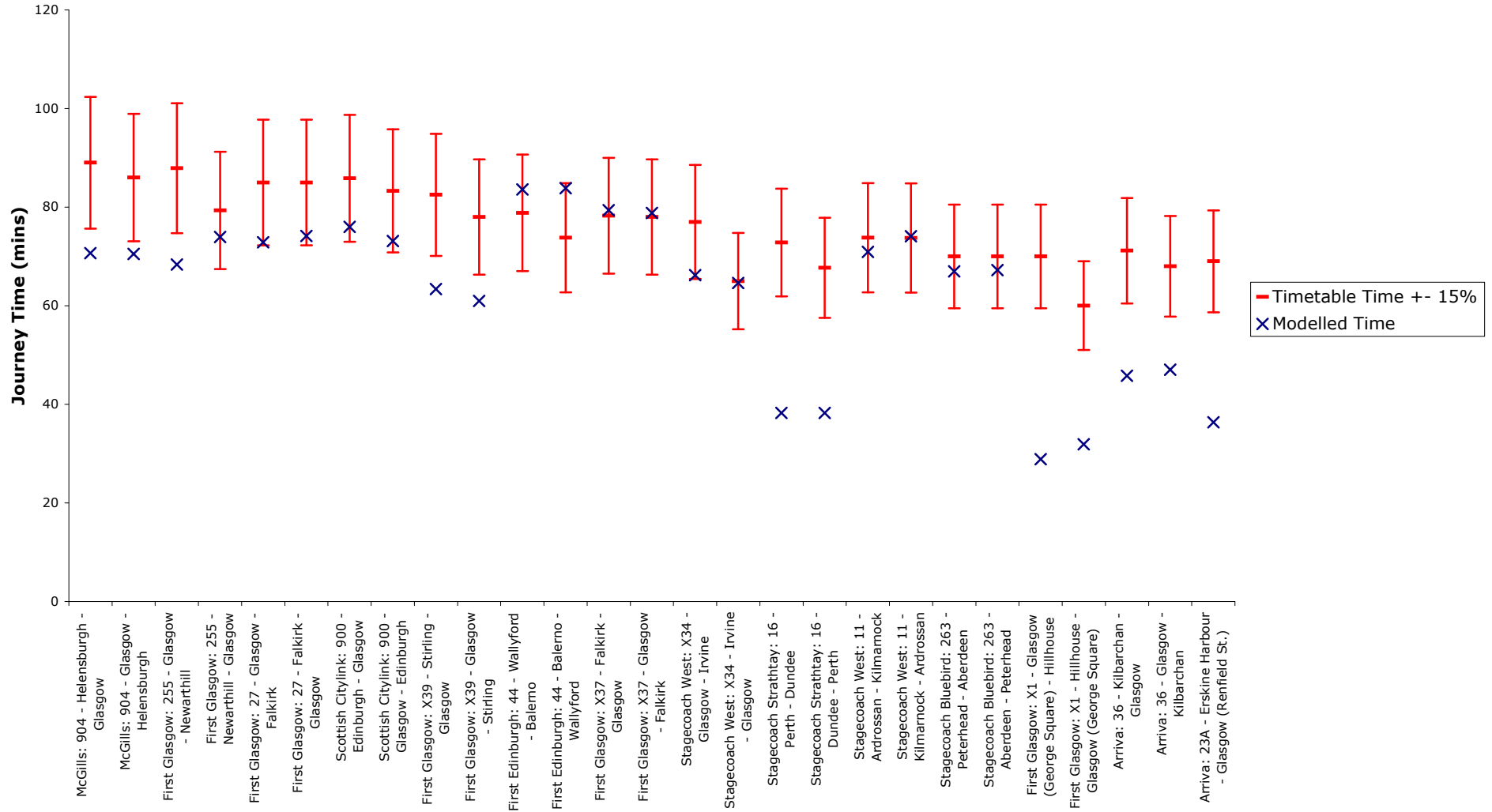


Figure 4: Bus Timetable v Modelled JT Comparison: IP Peak (4 of 4)

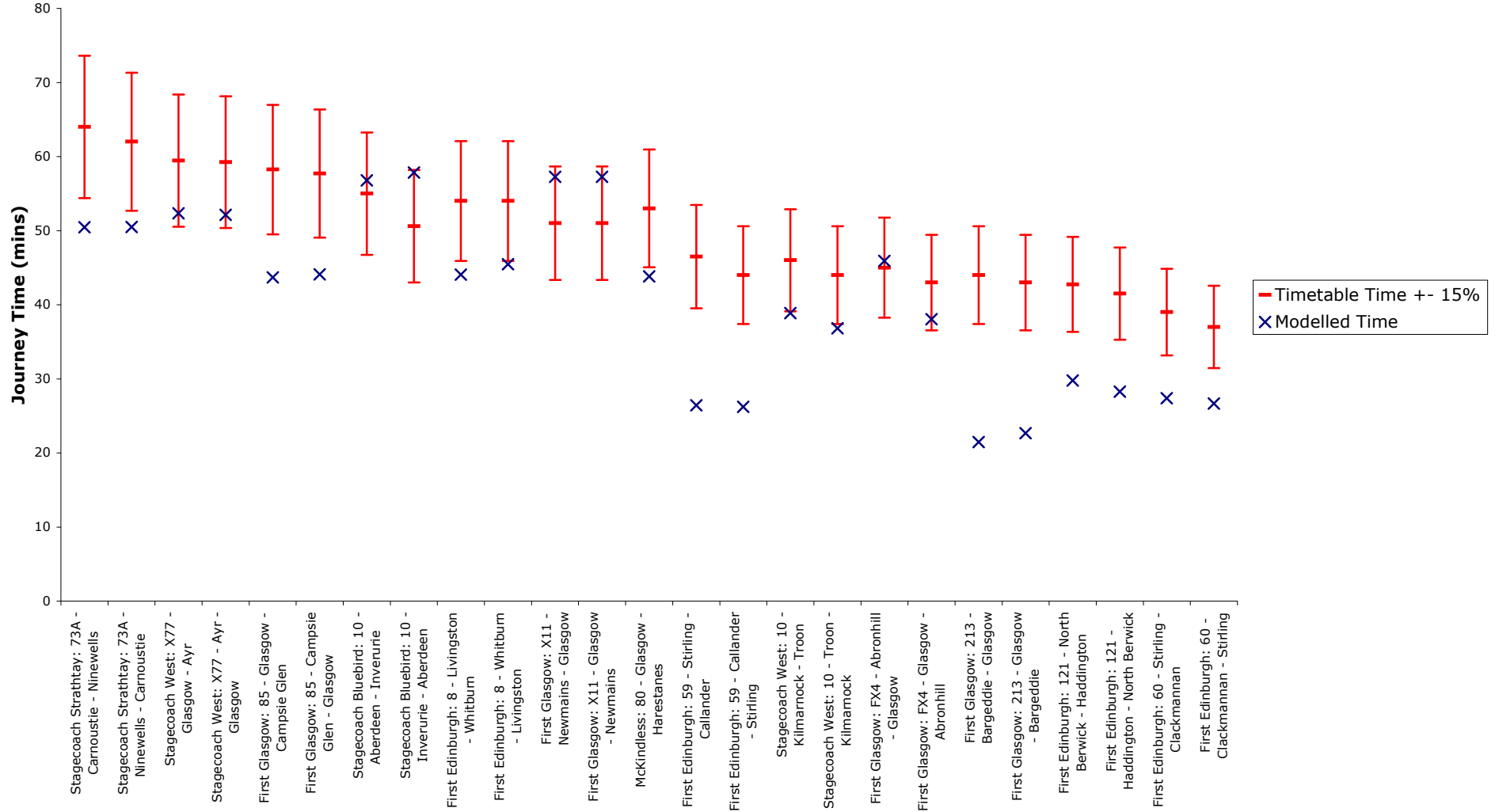


Figure 1: Bus Timetable v Modelled JT Comparison: PM Peak (1 of 4)

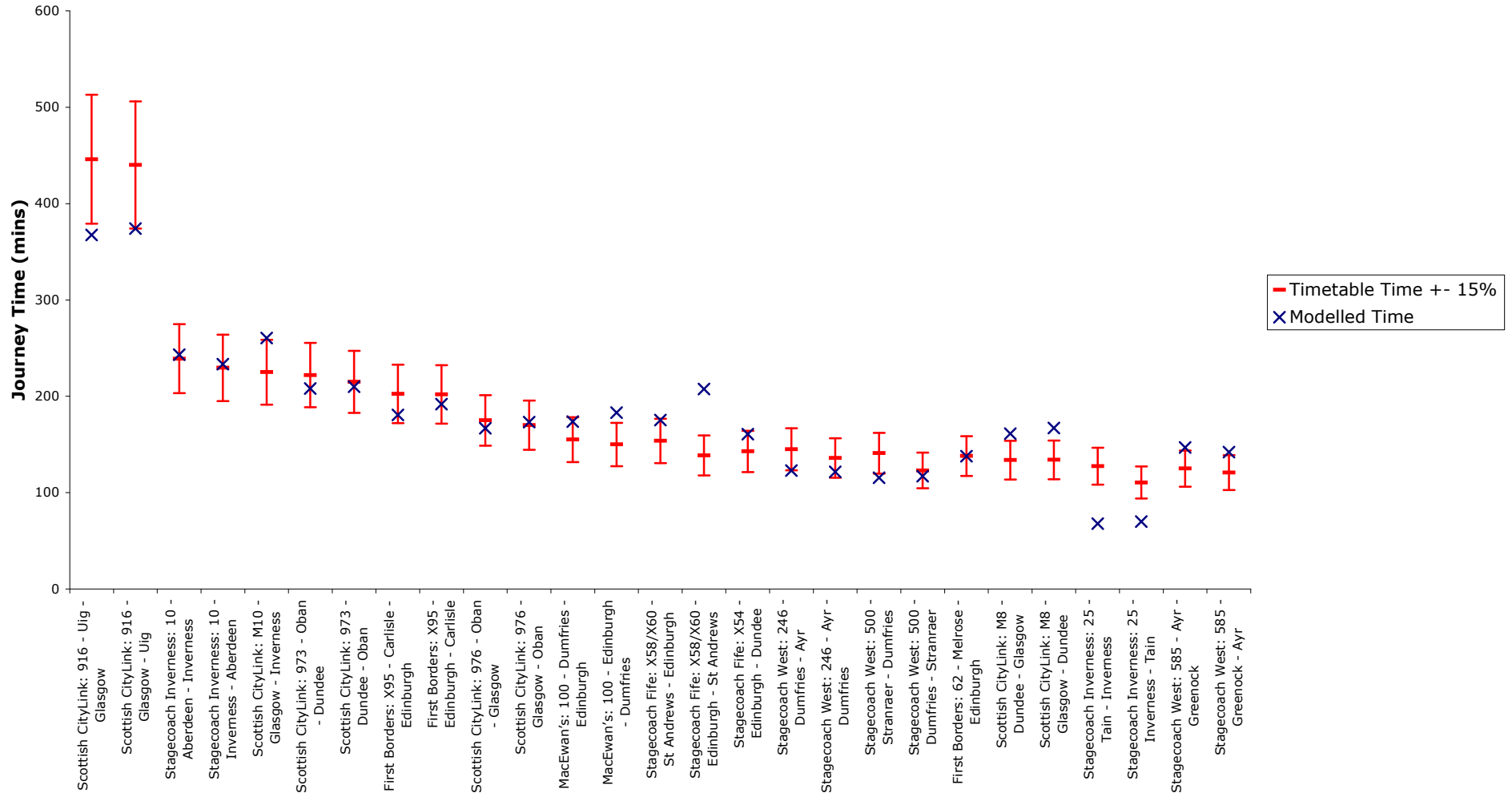


Figure 2: Bus Timetable v Modelled JT Comparison: PM Peak (2 of 4)

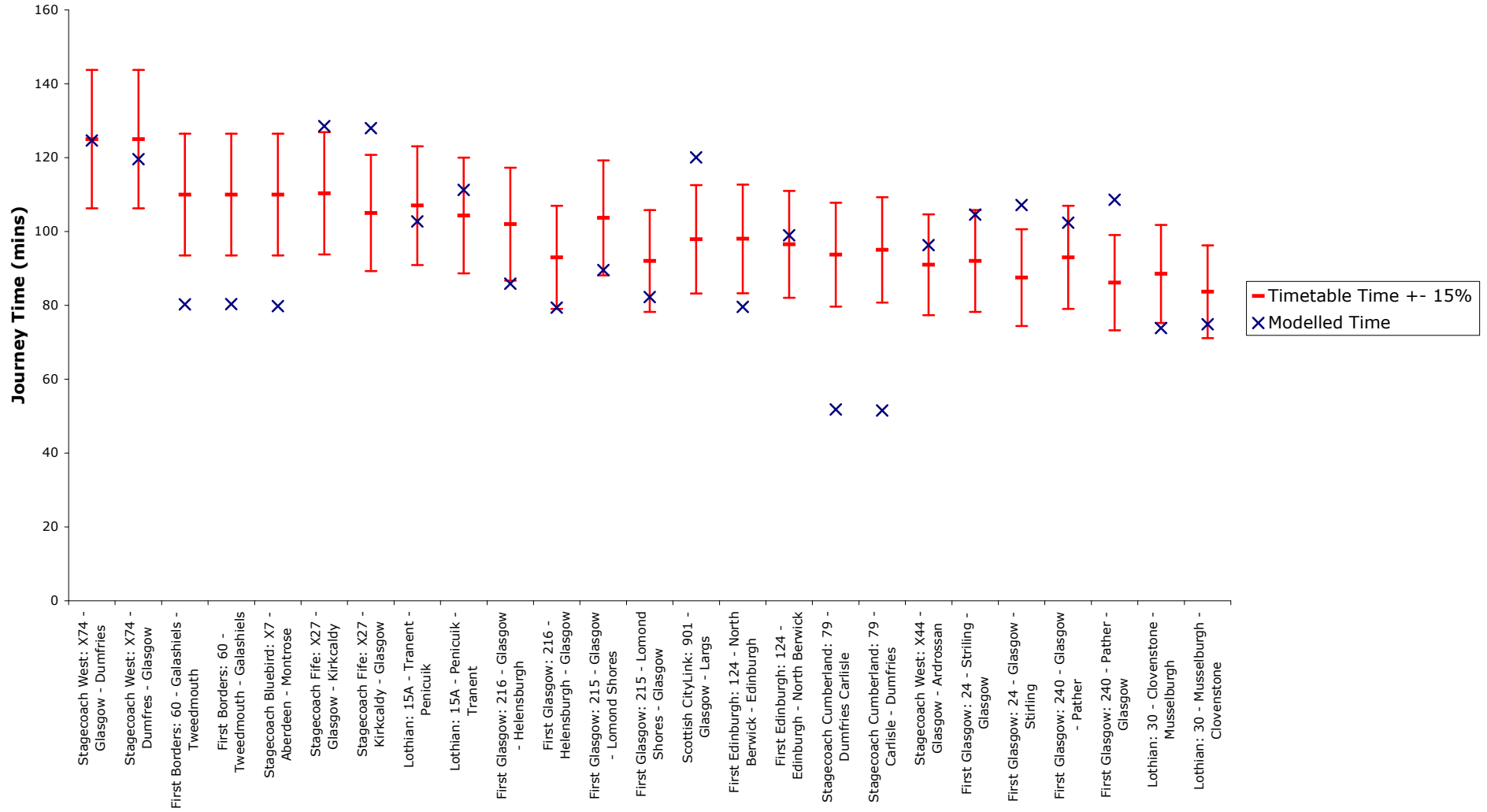


Figure 3: Bus Timetable v Modelled JT Comparison: PM Peak (3 of 4)

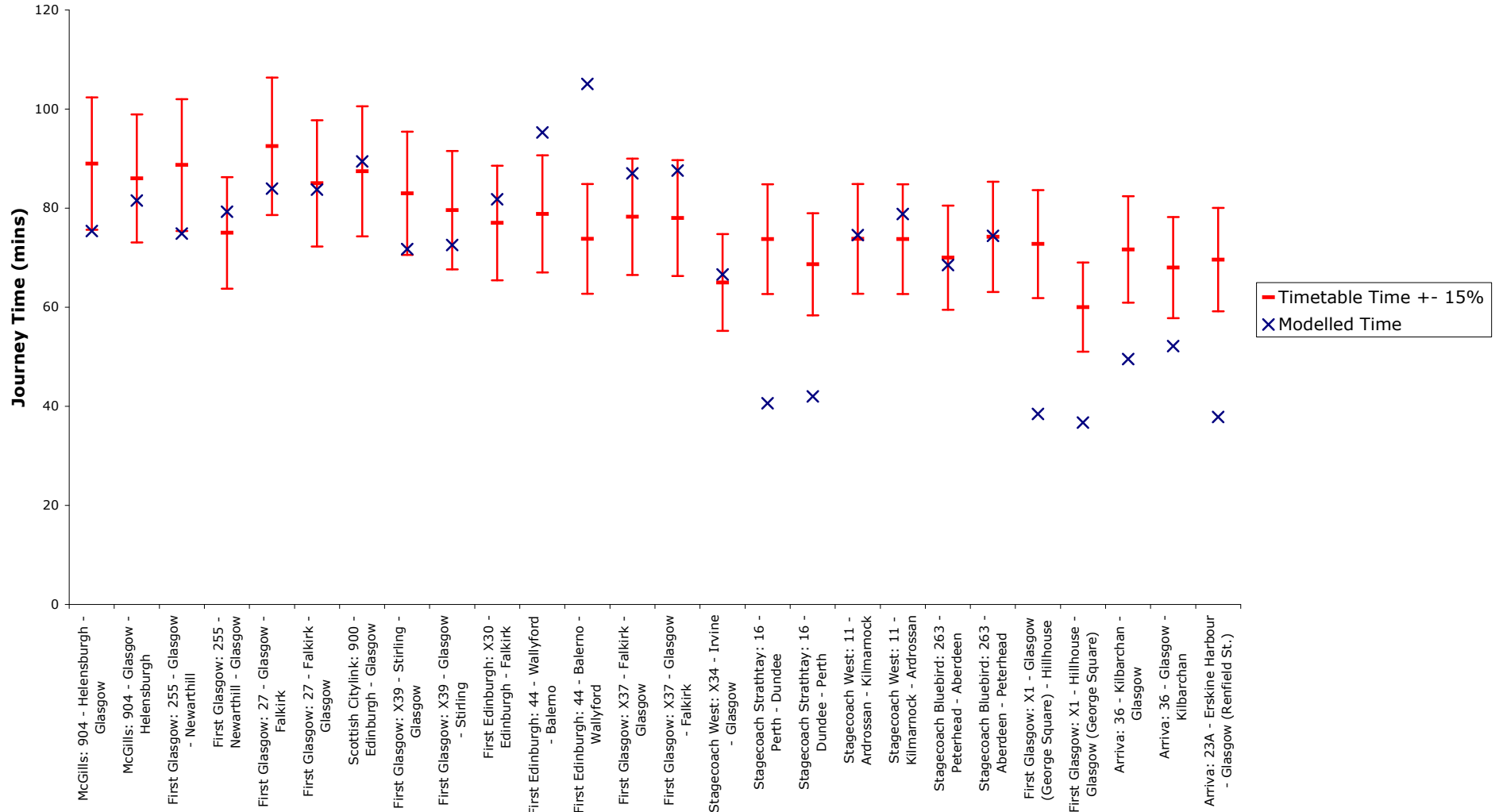
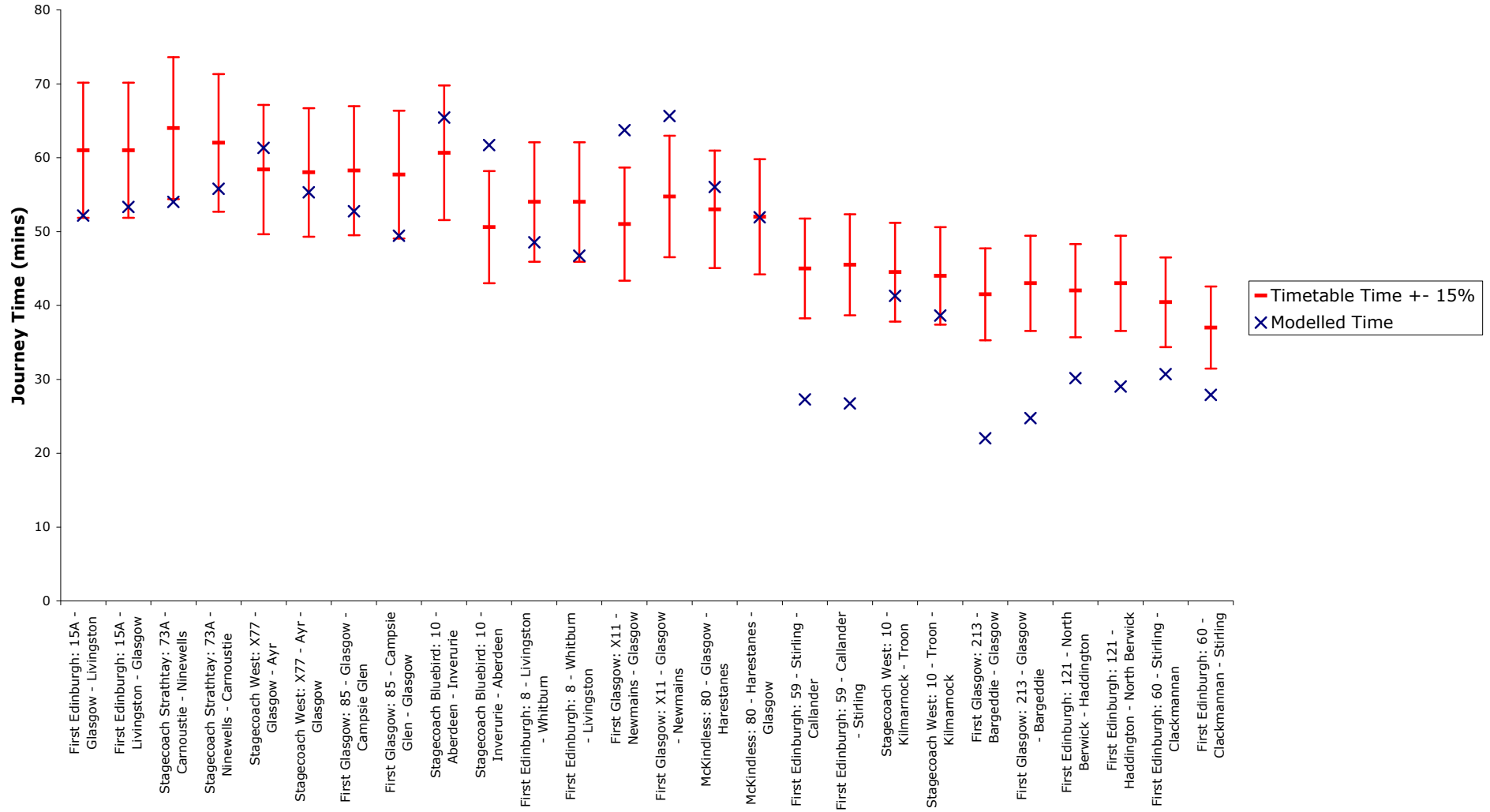


Figure 4: Bus Timetable v Modelled JT Comparison: PM Peak (4 of 4)



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