

Appendix A

TRAFFIC DEMAND DEVELOPMENT

APPENDIX A-1 **TRAFFIC MATRIX ESTIMATION – TRIP LENGTH**

The following graphs present the trip length distribution of prior and post matrices for cars and trucks.

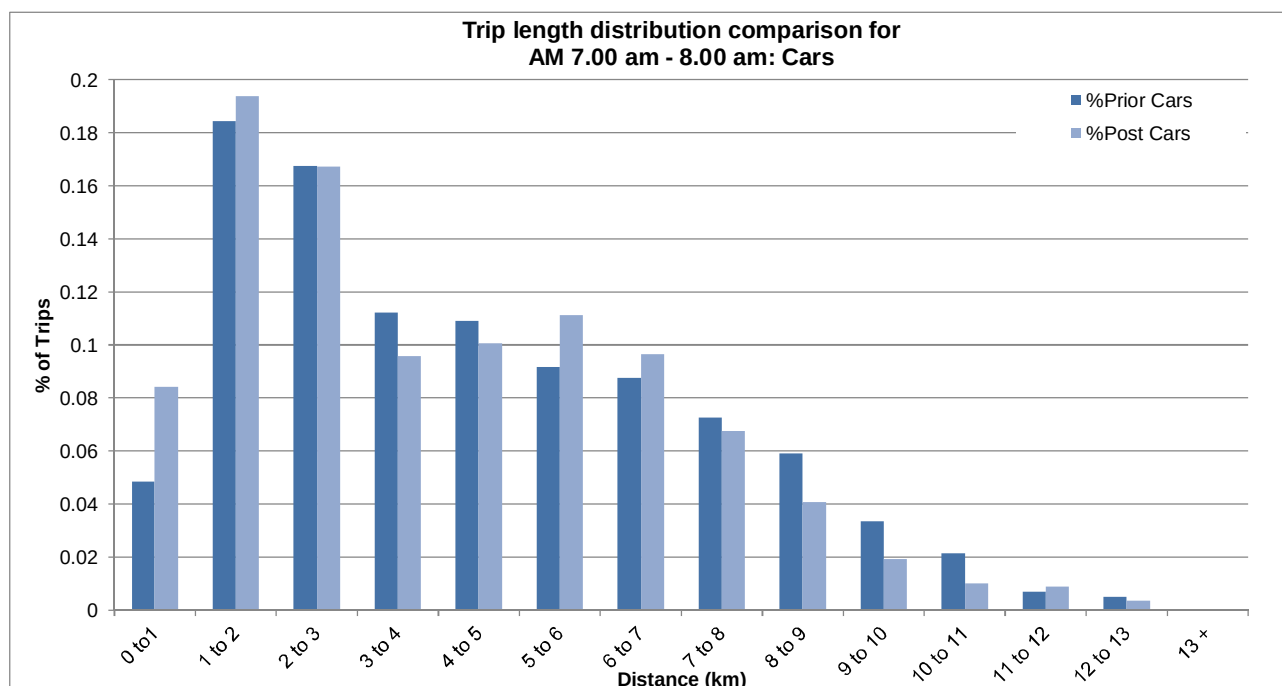


Figure A.1 Trip length distribution – Cars – 7.00–8.00 am

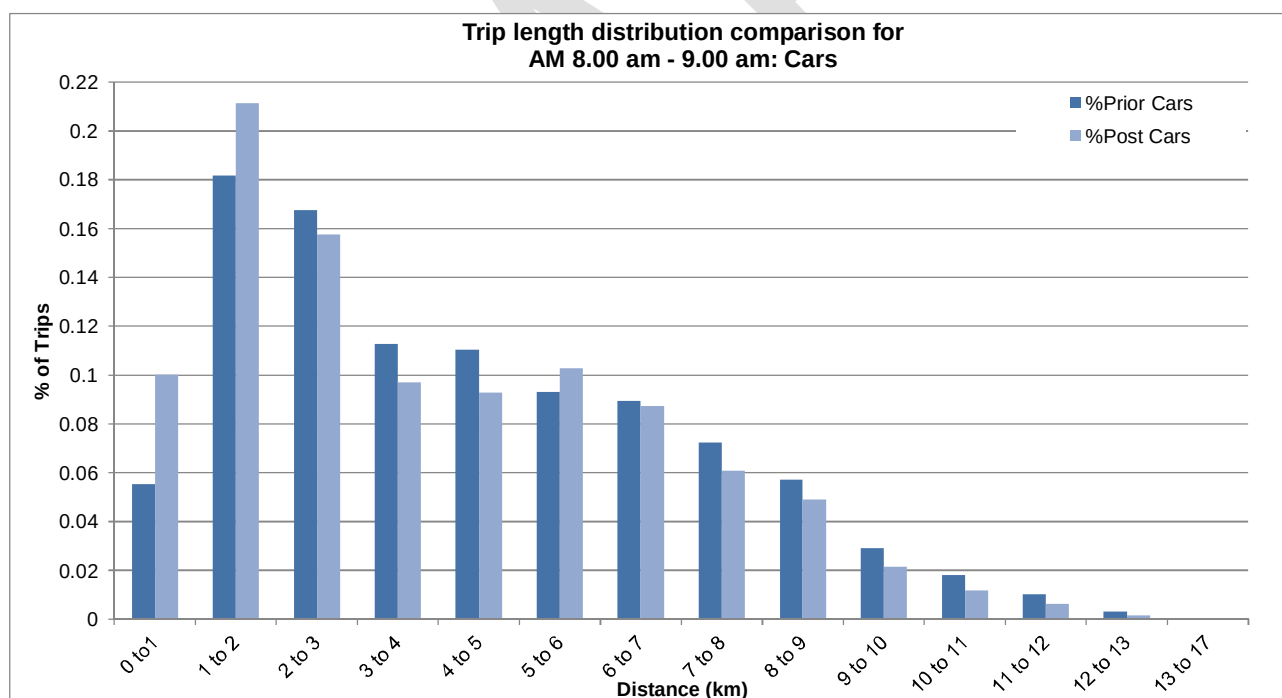


Figure A.2 Trip length distribution – Cars – 8.00–9.00 am

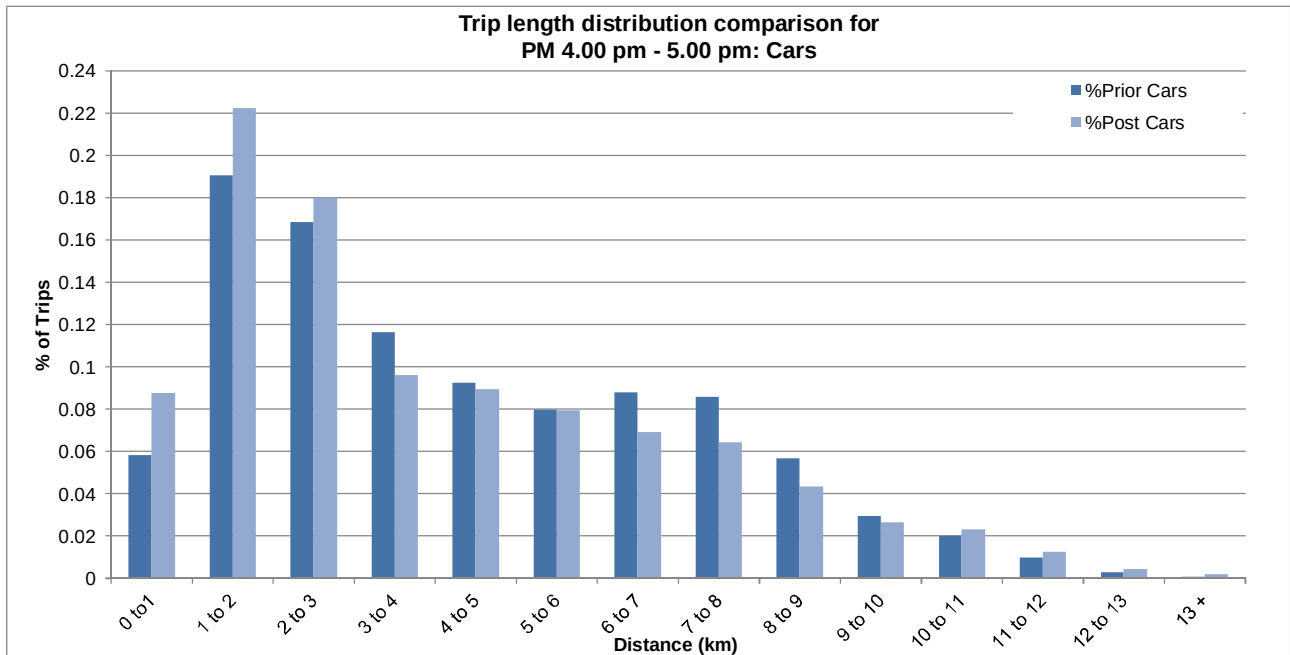


Figure A.3 Trip length distribution – Cars – 4.00–5.00 pm

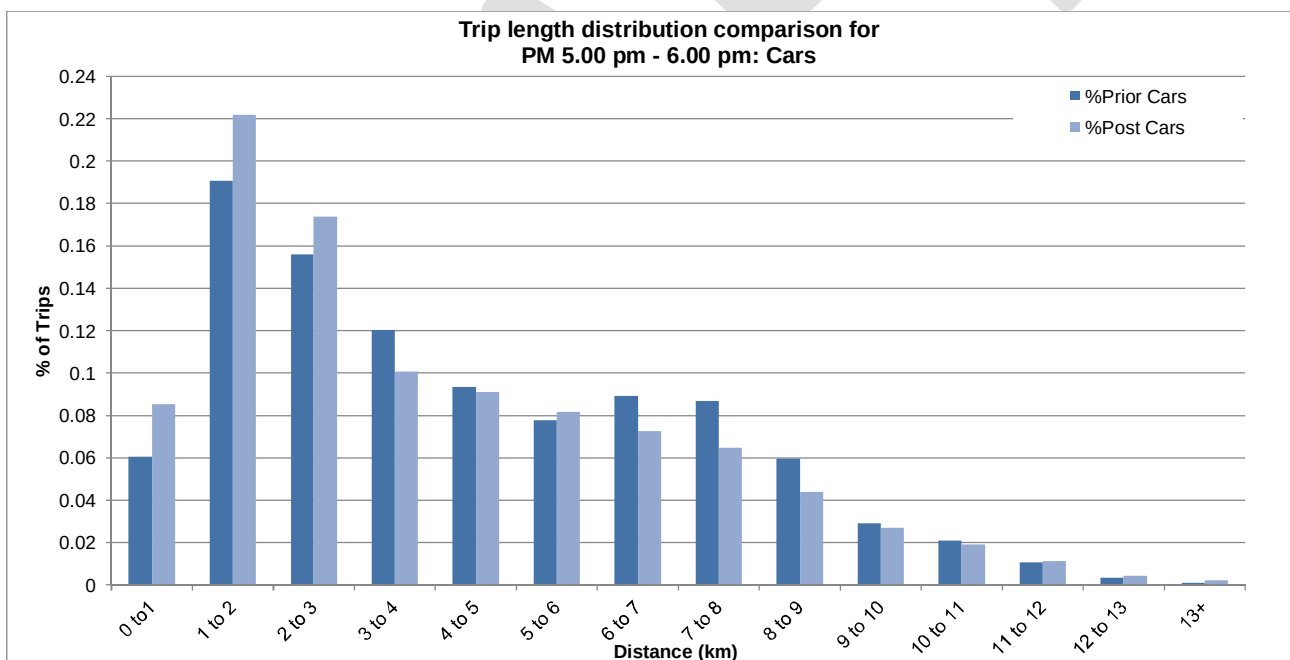


Figure A.4 Trip length distribution – Cars – 5.00–6.00 pm

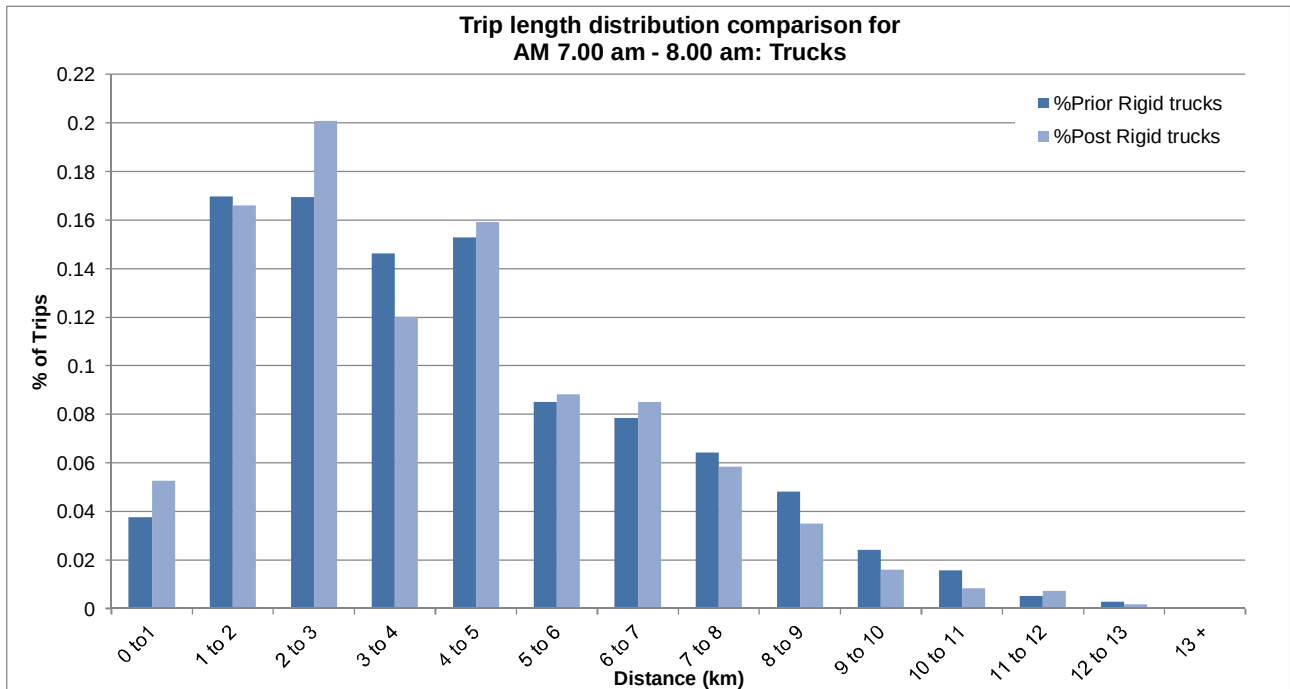


Figure A.5 Trip length distribution –Trucks – 7.00-8.00 am

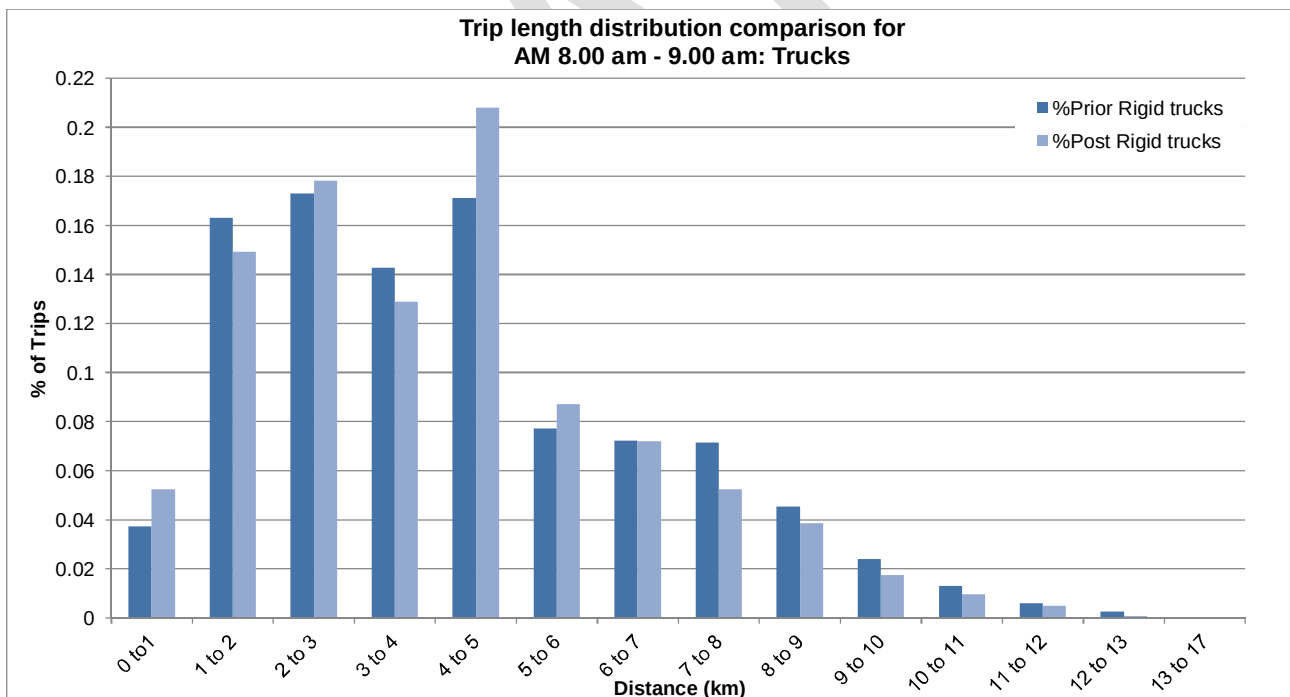


Figure A.6 Trip length distribution –Trucks – 8.00–9.00 am

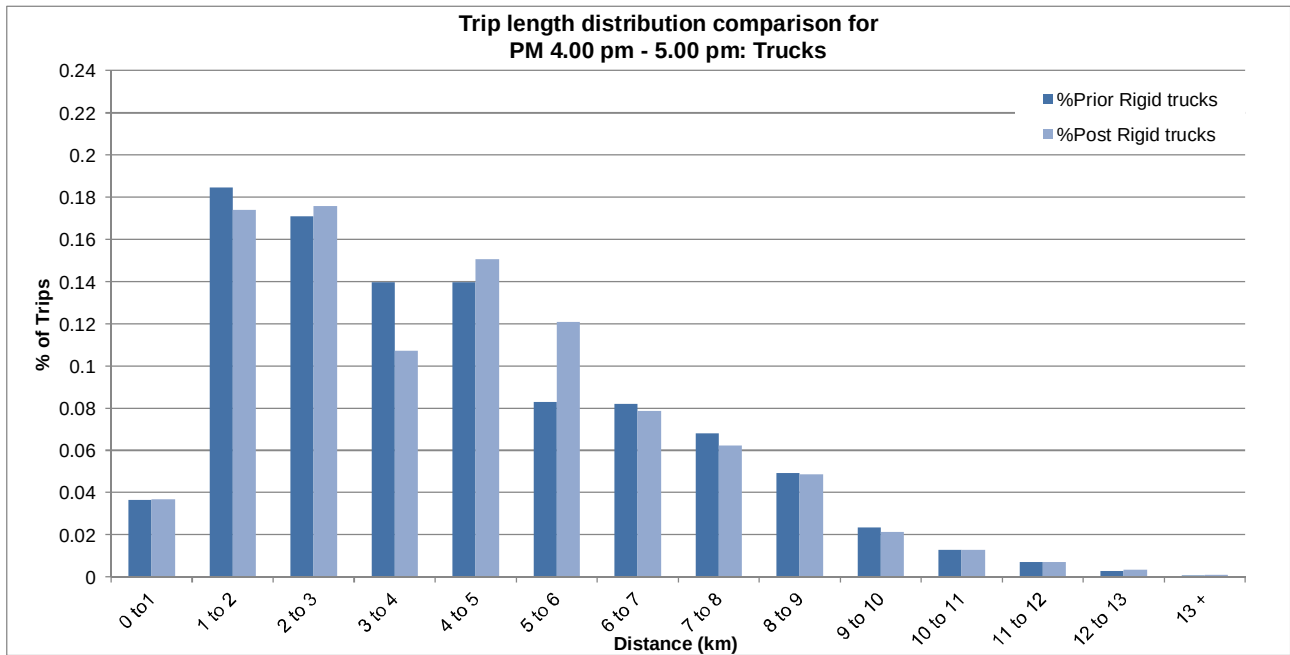


Figure A.7 Trip length distribution –Trucks – 4.00–5.00 pm

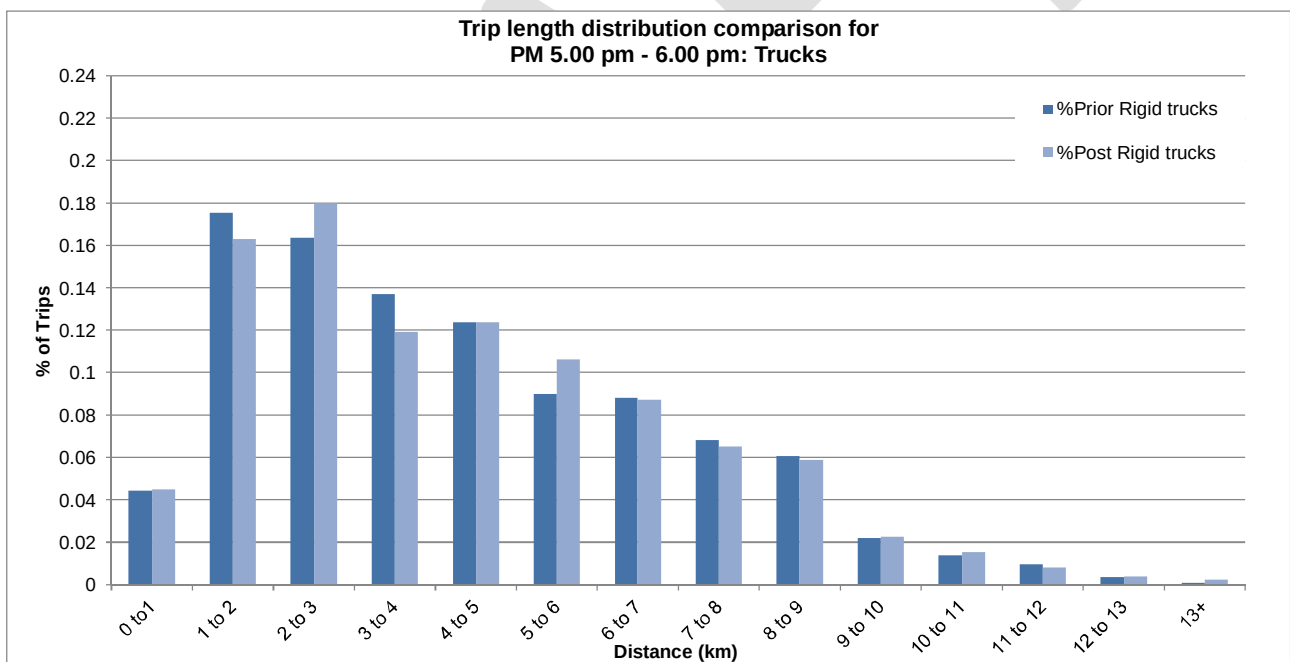


Figure A.8 Trip length distribution –Trucks – 5.00–6.00 pm

APPENDIX A-2 **TRAFFIC MATRIX ESTIMATION – TRIP-END REGRESSION**

The following graphs present the trip-end regression of prior and post matrices for cars and trucks.

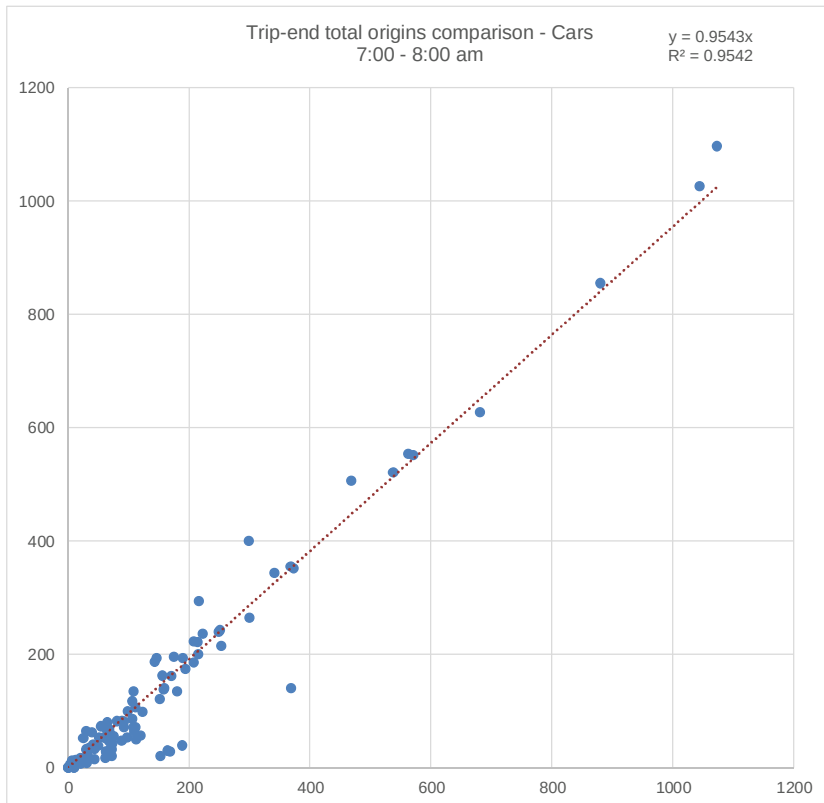


Figure A.9 Trip-ends regression – Cars – 7.00–8.00 am – Origins

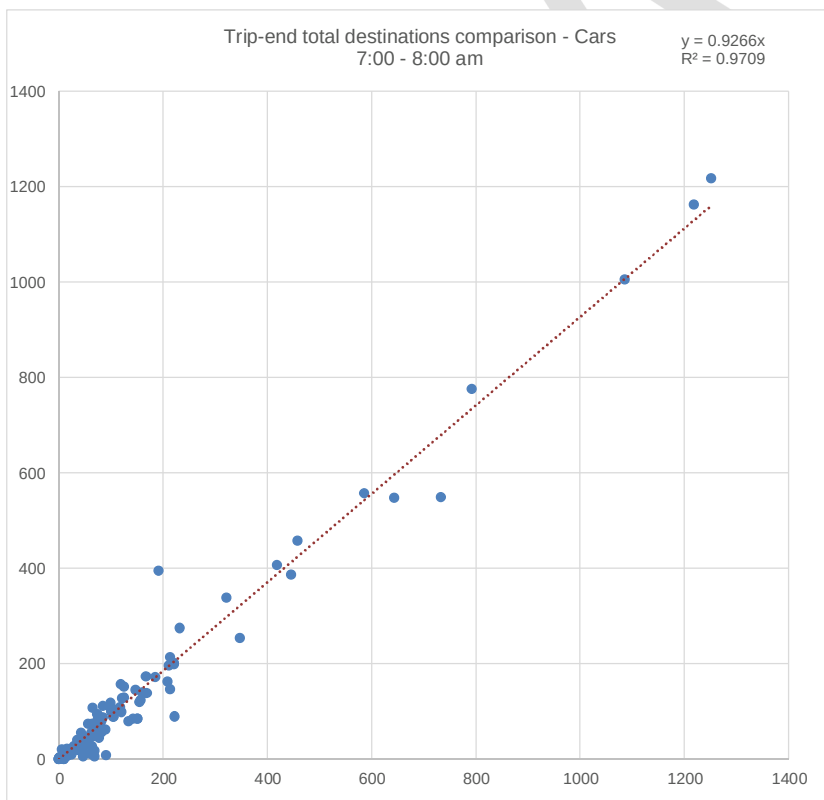


Figure A.10 Trip-ends regression – Cars – 7.00–8.00 am – Destinations

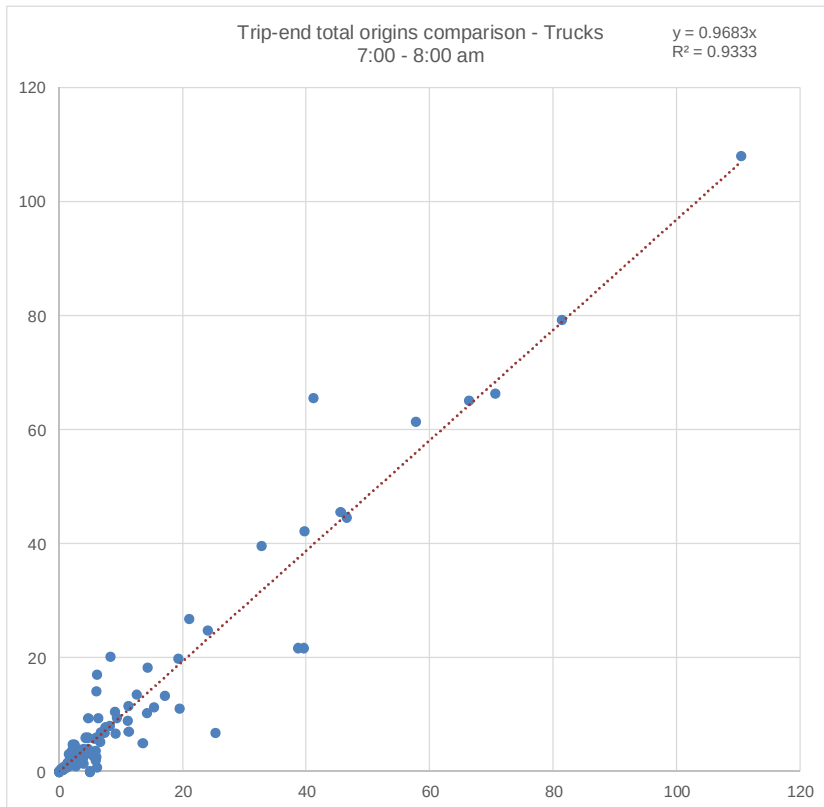


Figure A.11 Trip-ends regression – Trucks – 7.00–8.00 am – Origins

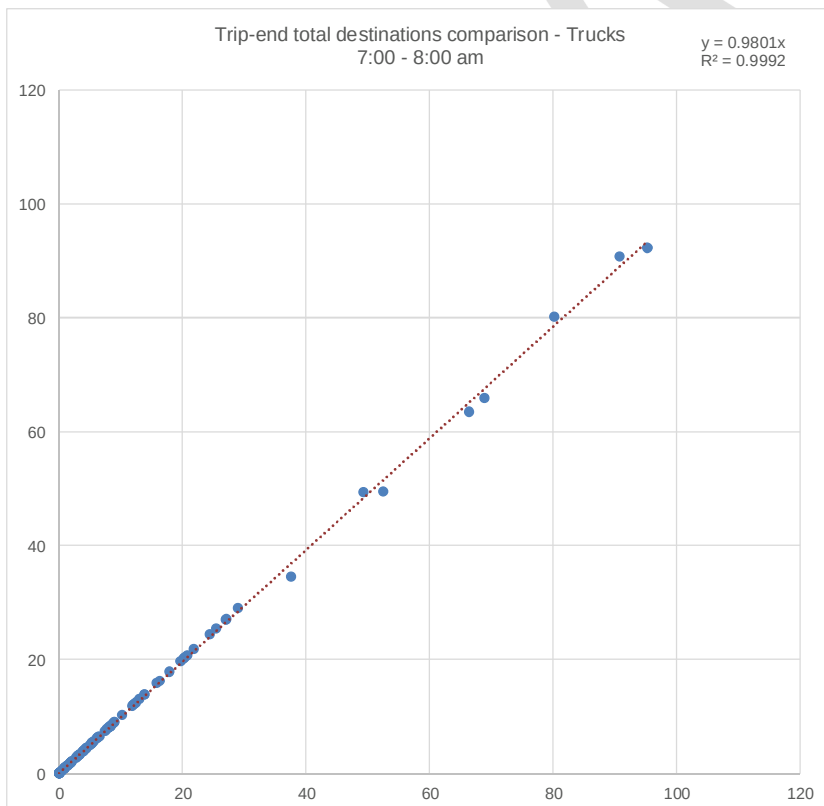


Figure A.12 Trip-ends regression – Trucks – 7.00–8.00 am – Destinations

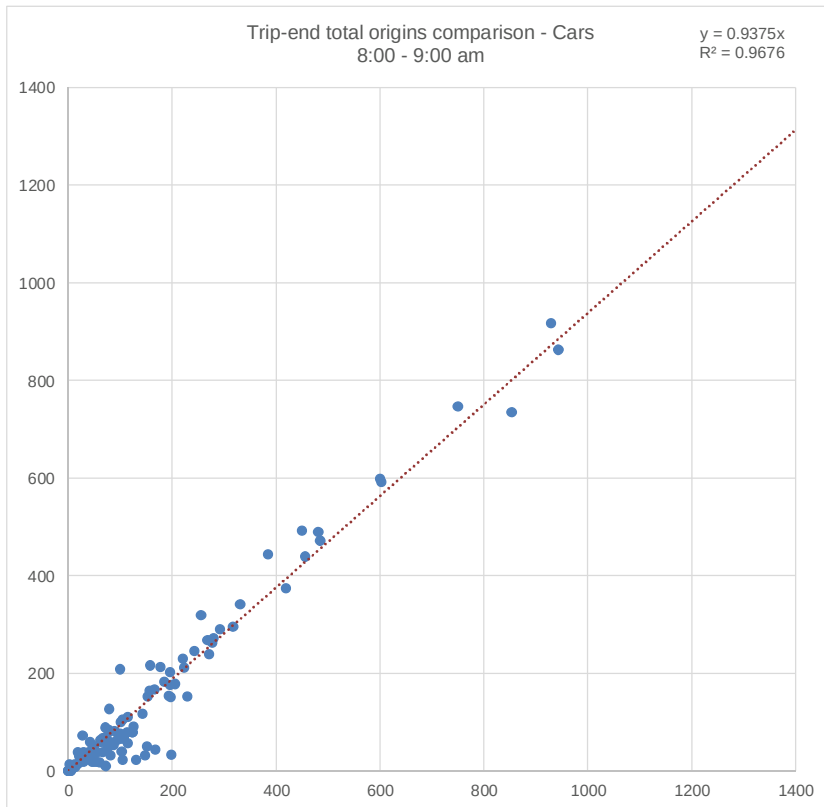


Figure A.13 Trip-ends regression – Cars – 8.00–9.00 am – Origins

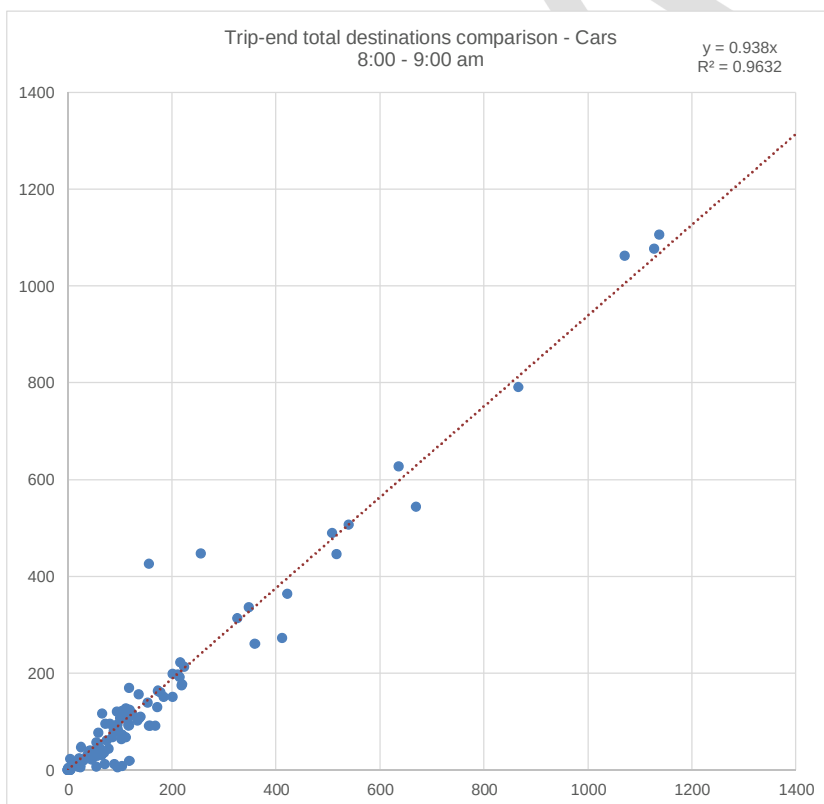


Figure A.14 Trip-ends regression – Cars – 8.00–9.00 am – Destinations

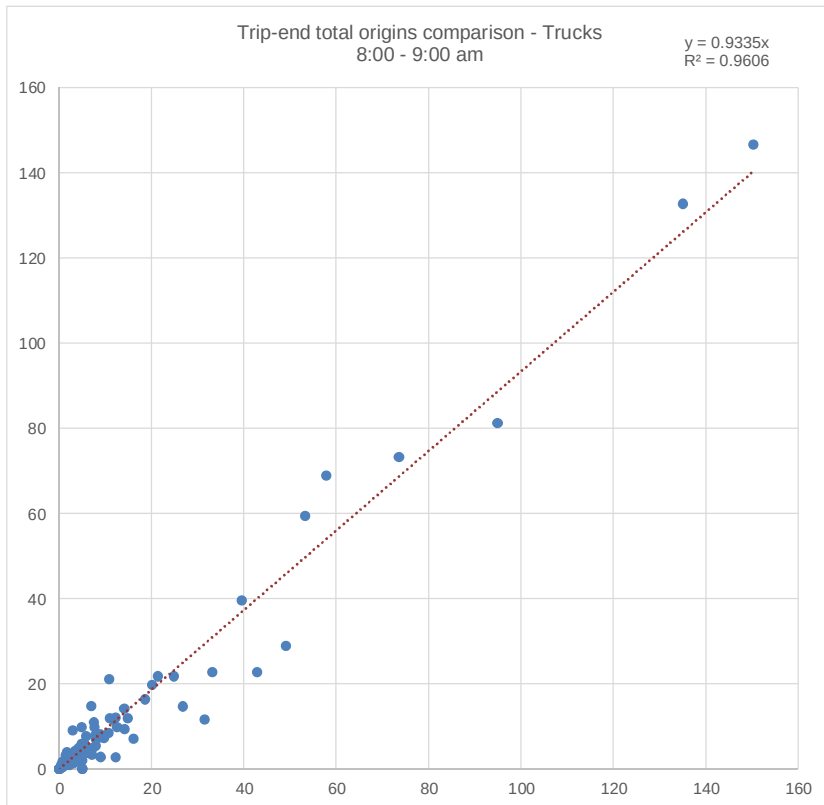


Figure A.15 Trip-ends regression – Trucks – 8.00–9.00 am – Origins

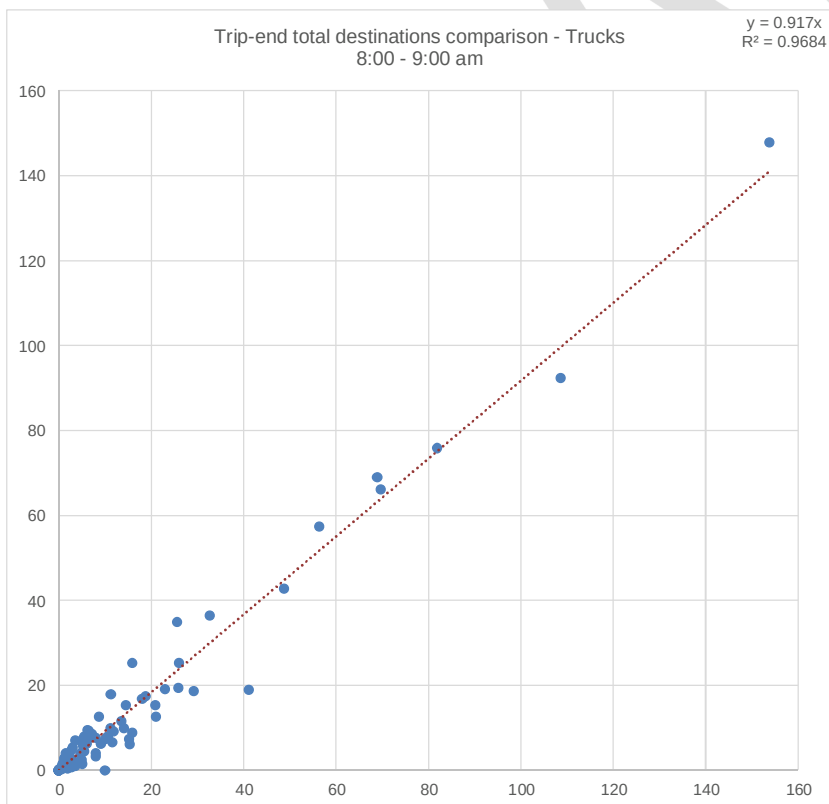


Figure A.16 Trip-ends regression – Trucks – 8.00–9.00 am – Destinations

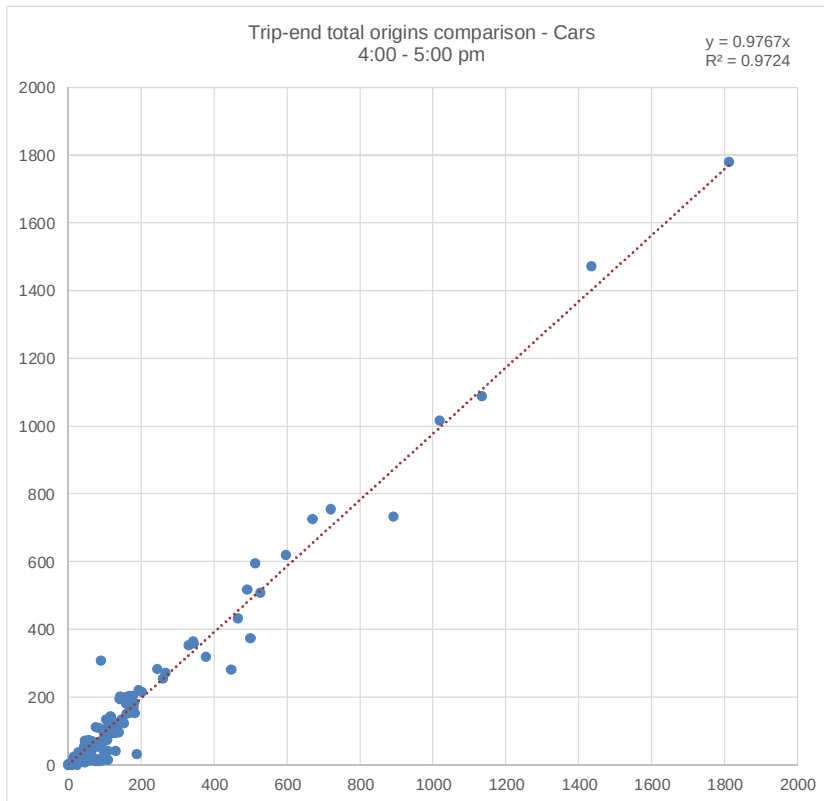


Figure A.17 Trip-ends regression – Cars – 4.00–5.00 pm – Origins

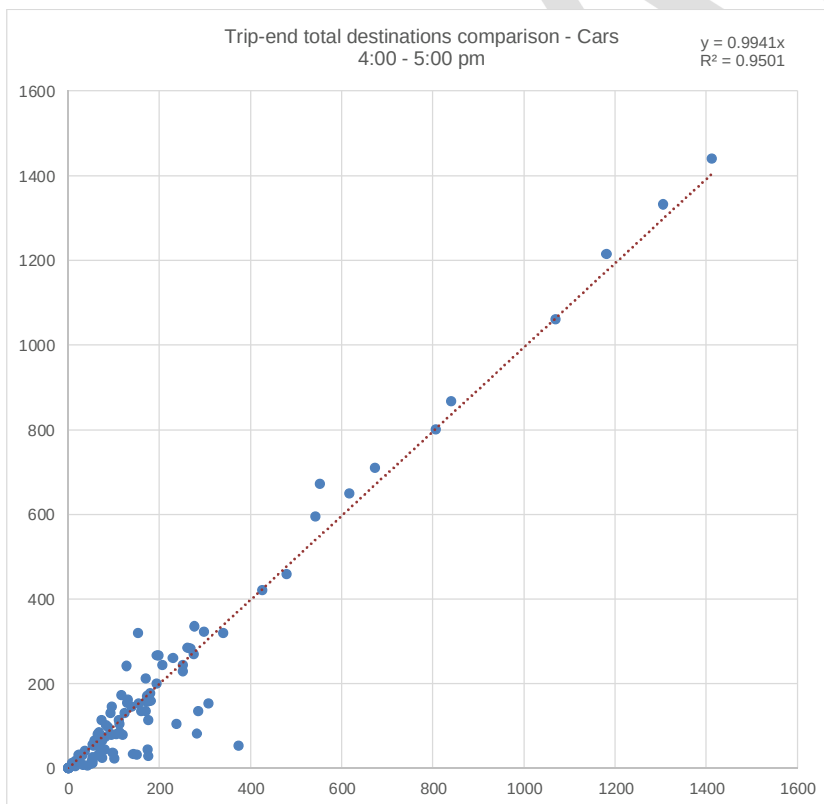


Figure A.18 Trip-ends regression – Cars – 4.00–5.00 pm – Destinations

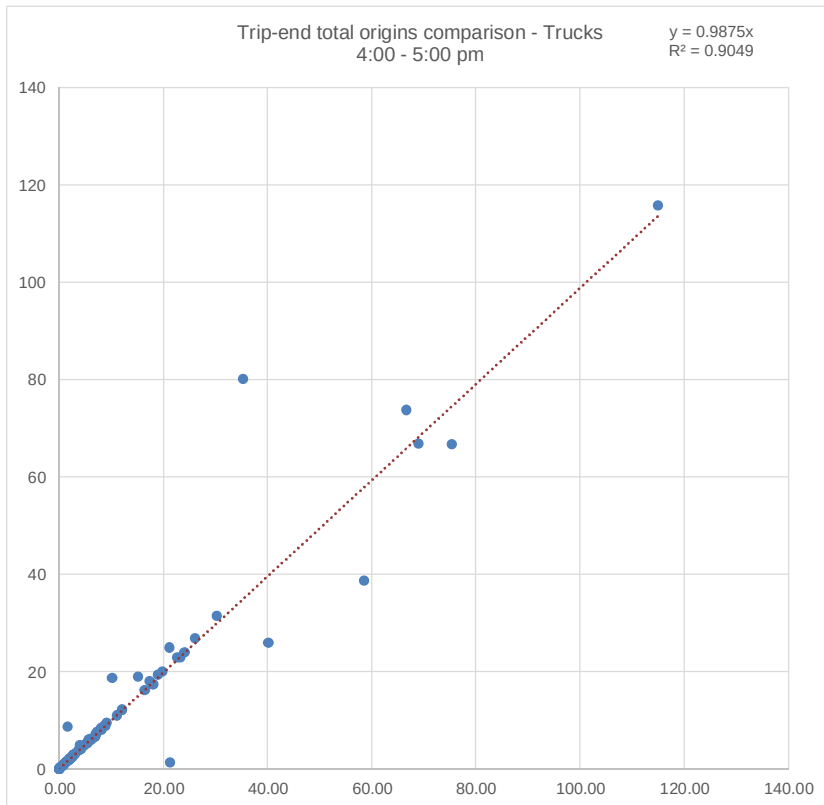


Figure A.19 Trip-ends regression –Trucks – 4.00–5.00 pm – Origins

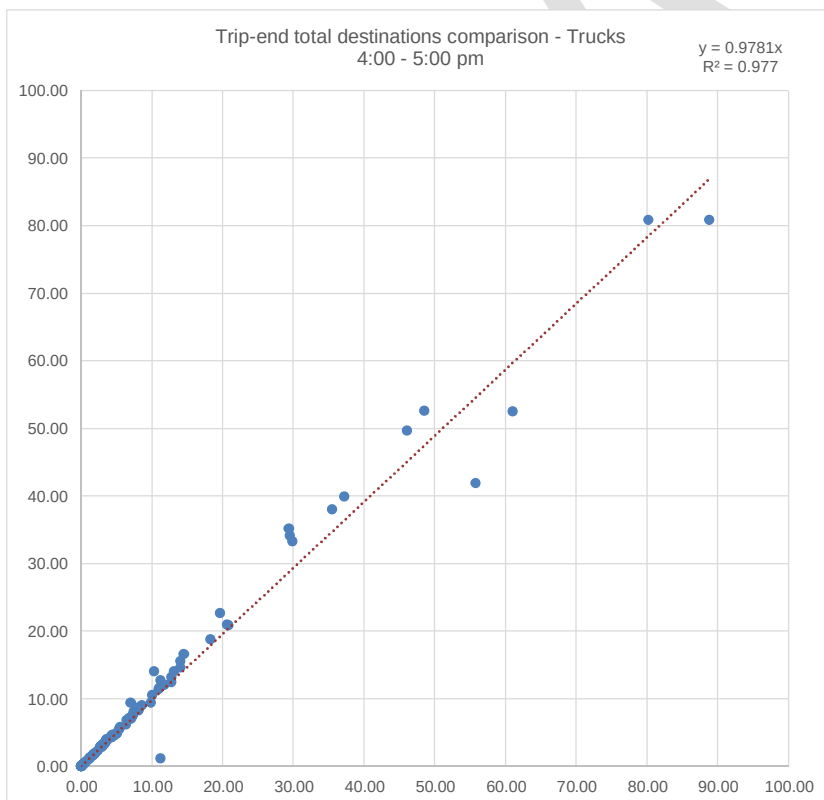


Figure A.20 Trip-ends regression –Trucks – 4.00–5.00 pm – Destinations

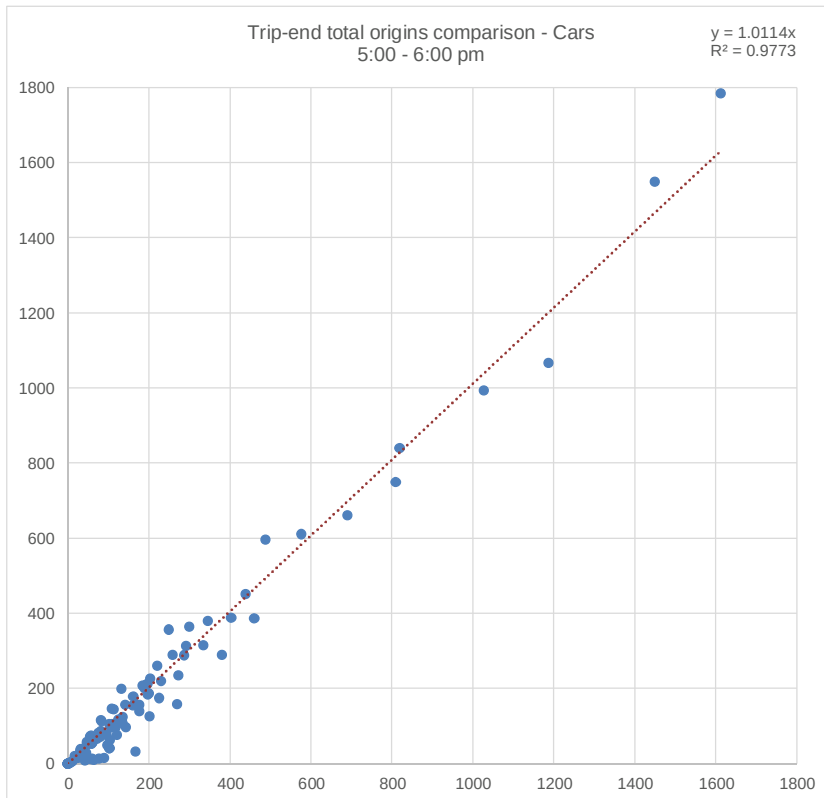


Figure A.21 Trip-ends regression –Cars – 5.00–6.00 pm – Origins

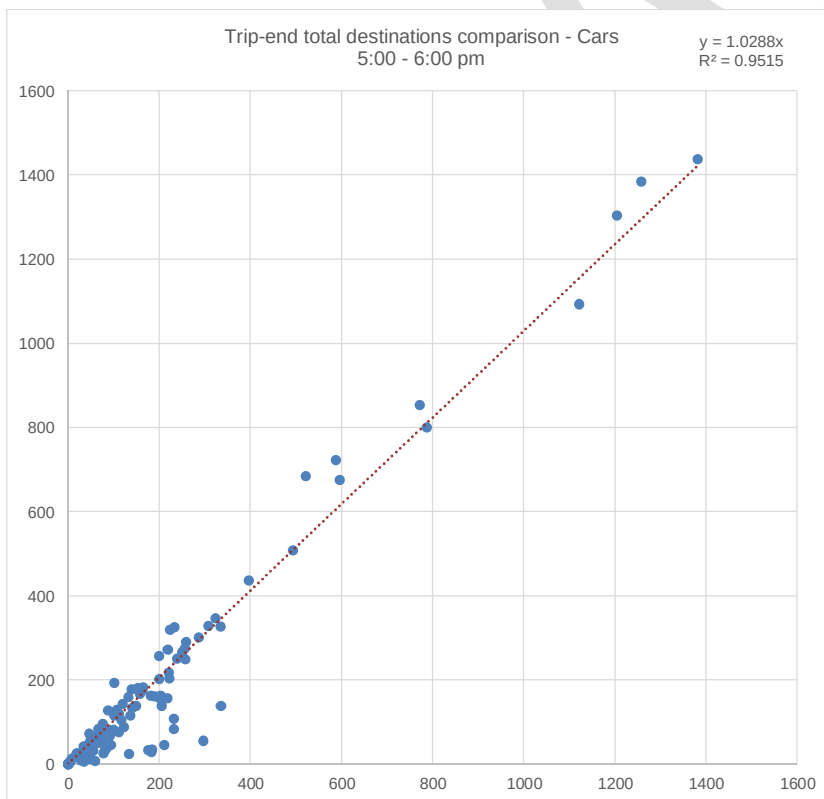


Figure A.22 Trip-ends regression –Cars – 5.00–6.00 pm – Destinations

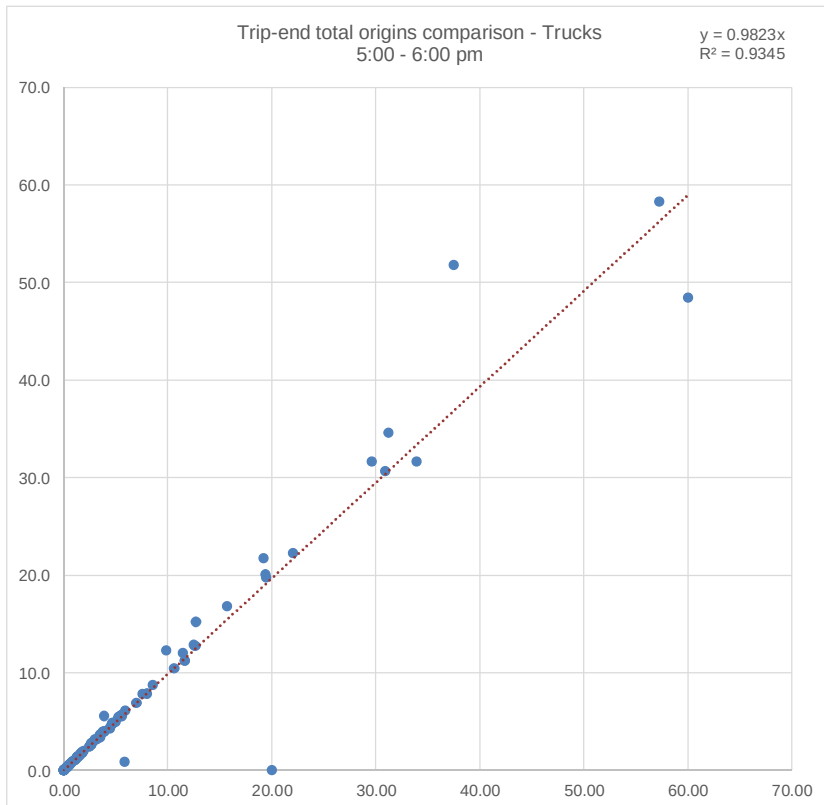


Figure A.23 Trip-ends regression –Trucks – 5.00–6.00 pm – Origins

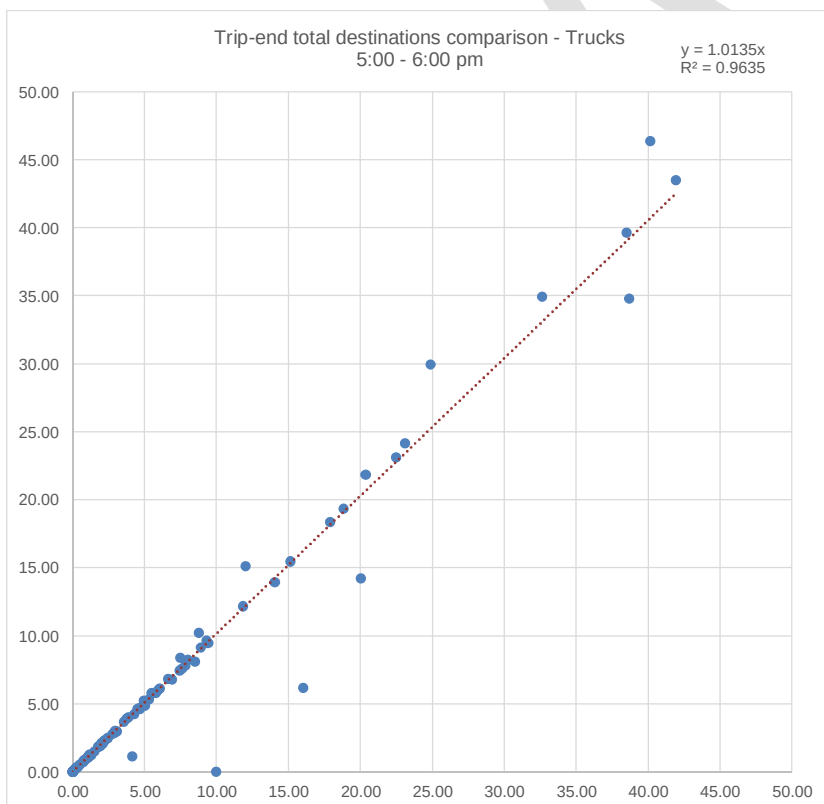


Figure A.24 Trip-ends regression –Trucks – 5.00–6.00 pm – Destinations

Appendix B

MODEL CALIBRATION OUTPUTS

APPENDIX B-1 COUNTS CALIBRATION DETAILS

Table B.1 Legend for counts calibration details

Legend for Counts Calibration details	
App	Approach
Move	Movement
OBS_LV	Observed light vehicle
MOD_LV	Modelled light Vehicle
DIFF_LV	Difference light vehicle
GEH_LV	GEH light Vehicle
OBS_HV	Observed heavy vehicle
MOD_HV	Modelled heavy vehicle
DIFF_HV	Difference heavy vehicle
GEH_HV	GEH heavy vehicle

Table B.2 Counts calibration details (7.00–8.00 am)

Int ID	Intersection	TCS	7.00–8.00 am										
			App	Move	no.	OBS_LV	MOD_LV	DIFF_LV	GEH_LV	OBS_HV	MOD_HV	DIFF_HV	GEH_HV
I-01	The Northern Road Ninth Avenue	3797	N	T	1	518	543	25	1.1	40	43	3	0.5
			N	L	2	109	124	15	1.4	6	5	-1	0.4
			E	R	3	24	38	14	2.5	3	5	2	1.0
			E	L	4	147	175	28	2.2	16	5	-11	3.4
			S	R	5	310	271	-39	2.3	12	13	1	0.3
			S	T	6	528	579	51	2.2	46	53	7	1.0
I-02	The Northern Road Jardine Way	Priority	N	T	7	650	696	46	1.8	56	48	-8	1.1
			N	L	8	20	19	-1	0.2	1	0	-1	1.4
			E	L	9	63	46	-17	2.3	4	2	-2	1.2
			S	T	10	837	844	7	0.2	59	66	7	0.9
I-03	The Northern Road Greenwood Parkway Borrowdale Way	3567	N	R	11	36	25	-11	2.0	6	5	-1	0.4
			N	T	12	657	670	13	0.5	46	33	-13	2.1
			N	L	13	33	39	6	1.0	10	10	0	0.0
			E	R	14	171	186	15	1.1	12	14	2	0.6
			E	T	15	21	43	22	3.9	0	1	1	1.4
			E	L	16	173	196	23	1.7	7	6	-1	0.4
			S	R	17	79	113	34	3.5	9	4	-5	2.0
			S	T	18	593	565	-28	1.2	41	51	10	1.5
			S	L	19	35	40	5	0.8	7	4	-3	1.3
			W	R	20	112	137	25	2.2	7	5	-2	0.8
			W	T	21	25	38	13	2.3	0	3	3	2.4
			W	L	22	80	94	14	1.5	4	1	-3	1.9

Int ID	Intersection	TCS	7.00–8.00 am										
			App	Move	no.	OBS_LV	MOD_LV	DIFF_LV	GEH_LV	OBS_HV	MOD_HV	DIFF_HV	GEH_HV
I-04	The Northern Road Watkin Street	Priority	N	T	23	940	966	26	0.8	56	43	-13	1.8
			N	L	24	22	38	16	2.9	4	1	-3	1.9
			E	L	25	56	90	34	4.0	6	7	1	0.4
			S	T	26	723	725	2	0.1	54	58	4	0.5
I-05	The Northern Road Jordan Springs Boulevard	4396	N	T	27	956	1,000	44	1.4	56	48	-8	1.1
			N	L	28	16	62	46	7.4	3	3	0	0.0
			E	R	29	33	24	-9	1.7	3	3	0	0.0
			E	L	30	264	231	-33	2.1	6	4	-2	0.9
			S	R	31	166	92	-74	6.5	12	2	-10	3.8
			S	T	32	691	704	13	0.5	49	55	6	0.8
I-06	The Northern Road Sherringham Road	3568	N	R	33	7	13	6	1.9	0	0	0	0.0
			N	T	34	1,183	1,202	19	0.6	59	52	-7	0.9
			S	T	35	824	770	-54	1.9	54	57	3	0.4
			S	L	36	68	87	19	2.2	4	0	-4	2.8
			W	R	37	193	169	-24	1.8	4	6	2	0.9
			W	L	38	43	35	-8	1.3	2	0	-2	2.0
I-07	The Northern Road Richmond Road Andrews Road	2718	N	R	39	124	144	20	1.7	15	15	0	0.0
			N	T	40	1,220	1,218	-2	0.1	49	43	-6	0.9
			S	T	41	814	775	-39	1.4	39	49	10	1.5
			S	L	42	266	277	11	0.7	31	40	9	1.5
			W	R	43	417	437	20	1.0	47	41	-6	0.9
			W	L	44	89	68	-21	2.4	15	7	-8	2.4

Int ID	Intersection	TCS	7.00-8.00 am										
			App	Move	no.	OBS_LV	MOD_LV	DIFF_LV	GEH_LV	OBS_HV	MOD_HV	DIFF_HV	GEH_HV
I-08	Richmond Road Trinity Drive	Priority	N	T	45	1,556	1,565	9	0.2	95	83	-12	1.3
			N	L	46	83	87	4	0.4	3	1	-2	1.4
			E	R	47	51	39	-12	1.8	3	0	-3	2.4
			E	L	48	60	67	7	0.9	8	1	-7	3.3
			S	R	49	25	28	3	0.6	6	2	-4	2.0
			S	T	50	1,048	1,017	-31	1.0	64	89	25	2.9
I-09	Richmond Road Boomerang Place	4324	N	T	51	1,426	1,478	52	1.4	91	82	-9	1.0
			N	L	52	2	3	1	0.6	0	0	0	0.0
			E	R	53	77	65	-12	1.4	2	0	-2	2.0
			E	L	54	123	138	15	1.3	2	2	0	0.0
			S	R	55	55	54	-1	0.1	3	2	-1	0.6
			S	T	56	907	925	18	0.6	81	87	6	0.7
I-10	Richmond Road Dunheved Road	2986	N	T	57	1,205	1,206	1	0.0	57	65	8	1.0
			N	L	58	353	405	52	2.7	34	19	-15	2.9
			E	R	59	215	191	-24	1.7	16	24	8	1.8
			E	L	60	374	282	-92	5.1	8	11	3	1.0
			S	R	61	214	269	55	3.5	25	31	6	1.1
			S	T	62	764	790	26	0.9	70	64	-6	0.7
I-11	Richmond Road Parker Street Coreen Avenue Oxford Street	2706	N	R	63	335	344	9	0.5	4	2	-2	1.2
			N	T	64	1,084	1,073	-11	0.3	74	73	-1	0.1
			N	L	65	27	46	19	3.1	0	2	2	2.0
			E	R	66	49	53	4	0.6	4	2	-2	1.2
			E	T	67	125	130	5	0.4	4	0	-4	2.8
			E	L	68	36	30	-6	1.0	7	1	-6	3.0

Int ID	Intersection	TCS	7.00–8.00 am										
			App	Move	no.	OBS_LV	MOD_LV	DIFF_LV	GEH_LV	OBS_HV	MOD_HV	DIFF_HV	GEH_HV
			S	R	69	21	26	5	1.0	4	0	-4	2.8
			S	T	70	672	771	99	3.7	73	78	5	0.6
			S	L	71	102	84	-18	1.9	6	0	-6	3.5
			W	R	72	97	94	-3	0.3	3	7	4	1.8
			W	T	73	45	65	20	2.7	4	4	0	0.0
			W	L	74	213	211	-2	0.1	13	12	-1	0.3
I-12	Parker Street Copeland Street	2444	N	R	75	11	6	-5	1.7	1	1	0	0.0
			N	T	76	1,000	1,010	10	0.3	72	73	1	0.1
			N	L	77	13	26	13	2.9	4	0	-4	2.8
			E	R	78	30	18	-12	2.4	14	1	-13	4.7
			E	T	79	32	6	-26	6.0	4	2	-2	1.2
			E	L	80	251	129	-122	8.9	18	6	-12	3.5
			S	R	81	348	318	-30	1.6	17	18	1	0.2
			S	T	82	730	831	101	3.6	72	77	5	0.6
			S	L	83	13	36	23	4.6	0	5	5	3.2
			W	R	84	66	121	55	5.7	2	5	3	1.6
			W	T	85	49	20	-29	4.9	4	0	-4	2.8
			W	L	86	6	20	14	3.9	0	0	0	0.0
I-13	Great Western Highway Parker Street	442	N	R	87	182	164	-18	1.4	11	11	0	0.0
			N	T	88	813	885	72	2.5	72	69	-3	0.4
			N	L	89	489	323	-166	8.2	13	6	-7	2.3
			E	R	90	302	295	-7	0.4	17	24	7	1.5
			E	T	91	328	303	-25	1.4	22	21	-1	0.2
			E	L	92	92	82	-10	1.1	6	10	4	1.4

Int ID	Intersection	TCS	7.00-8.00 am										
			App	Move	no.	OBS_LV	MOD_LV	DIFF_LV	GEH_LV	OBS_HV	MOD_HV	DIFF_HV	GEH_HV
			S	R	93	86	79	-7	0.8	0	4	4	2.8
			S	T	94	739	736	-3	0.1	60	63	3	0.4
			S	L	95	272	287	15	0.9	7	11	4	1.3
			W	R	96	108	118	10	0.9	2	2	0	0.0
			W	T	97	251	260	9	0.6	22	17	-5	1.1
			W	L	98	162	176	14	1.1	16	10	-6	1.7
I-14	Palmyra Avenue Stony Creek Road	RBT	N	IN	99	343	312	-31	1.7	25	25	0	0.0
			N	OUT	100	216	217	1	0.1	21	31	10	2.0
			E	IN	101	355	399	44	2.3	33	39	6	1.0
			E	OUT	102	801	767	-34	1.2	42	38	-4	0.6
			W	IN	103	468	454	-14	0.7	19	13	-6	1.5
			W	OUT	104	149	182	33	2.6	14	8	-6	1.8
I-15	Palmyra Avenue Australis Drive	4091	E	T	105	275	328	53	3.1	15	23	8	1.8
			E	L	106	38	46	8	1.2	2	0	-2	2.0
			S	R	107	151	167	16	1.3	2	5	3	1.6
			S	L	108	97	62	-35	3.9	7	11	4	1.3
			W	R	109	93	106	13	1.3	9	6	-3	1.1
			W	T	110	703	675	-28	1.1	34	33	-1	0.2
I-16	Palmyra Avenue Forrester Road	3916	N	R	111	148	226	78	5.7	26	29	3	0.6
			N	T	112	855	800	-55	1.9	22	26	4	0.8
			S	T	113	260	261	1	0.1	11	8	-3	1.0
			S	L	114	292	281	-11	0.6	34	29	-5	0.9
			W	R	115	371	365	-6	0.3	39	39	0	0.0
			W	L	116	104	199	95	7.7	11	21	10	2.5

Int ID	Intersection	TCS	7.00–8.00 am										
			App	Move	no.	OBS_LV	MOD_LV	DIFF_LV	GEH_LV	OBS_HV	MOD_HV	DIFF_HV	GEH_HV
I-17	Forrester Road Susannah Drive Ellsworth Drive	3927	N	R	117	57	14	-43	7.2	2	0	-2	2.0
			N	T	118	52	20	-32	5.3	5	5	0	0.0
			N	L	119	28	15	-13	2.8	1	0	-1	1.4
			E	R	120	20	37	17	3.2	2	0	-2	2.0
			E	T	121	505	537	32	1.4	59	58	-1	0.1
			E	L	122	5	17	12	3.6	1	2	1	0.8
			S	R	123	4	18	14	4.2	0	0	0	0.0
			S	T	124	18	14	-4	1.0	5	0	-5	3.2
			S	L	125	76	85	9	1.0	2	4	2	1.2
			W	R	126	68	95	27	3.0	6	8	2	0.8
			W	T	127	515	601	86	3.6	60	98	38	4.3
			W	L	128	9	0	-9	4.2	0	0	0	0.0
I-18	Forrester Road Ropes Crossing Boulevard Links Road	RBT	N	IN	129	437	523	86	3.9	18	23	5	1.1
			N	OUT	130	188	204	16	1.1	32	17	-15	3.0
			N	L	131	0	10	10	4.5	0	0	0	0.0
			E	IN	132	100	95	-5	0.5	23	20	-3	0.6
			E	OUT	133	598	686	88	3.5	80	104	24	2.5
			E	L	134	552	541	-11	0.5	39	42	3	0.5
			S	IN	135	1,053	1,194	141	4.2	126	164	38	3.2
			S	OUT	136	462	556	94	4.2	77	86	9	1.0
			W	IN	137	68	53	-15	1.9	80	100	20	2.1
			W	OUT	138	410	419	9	0.4	89	101	12	1.2

Int ID	Intersection	TCS	7.00–8.00 am										
			App	Move	no.	OBS_LV	MOD_LV	DIFF_LV	GEH_LV	OBS_HV	MOD_HV	DIFF_HV	GEH_HV
I-19	Forrester Road Christie Street Boronia Road	RBT	N	IN	139	920	1,086	166	5.2	104	130	26	2.4
			N	OUT	140	1,077	1,259	182	5.3	131	163	32	2.6
			E	IN	141	66	55	-11	1.4	3	0	-3	2.4
			E	OUT	142	49	54	5	0.7	4	0	-4	2.8
			S	IN	143	576	691	115	4.6	100	123	23	2.2
			S	OUT	144	797	999	202	6.7	85	103	18	1.9
			W	IN	145	828	975	147	4.9	76	84	8	0.9
			W	OUT	146	467	493	26	1.2	63	71	8	1.0
I-20	Forrester Road Glossop Street	3129	N	T	147	299	258	-41	2.5	10	12	2	0.6
			N	L	148	522	704	182	7.4	102	83	-19	2.0
			E	R	149	574	591	17	0.7	91	102	11	1.1
			E	L	150	48	19	-29	5.0	7	0	-7	3.7
			S	R	151	37	23	-14	2.6	11	34	23	4.8
			S	T	152	91	45	-46	5.6	10	22	12	3.0
I-21	Great Western Highway Glossop Street	1236	N	R	153	339	426	87	4.4	66	55	-11	1.4
			N	L	154	225	244	19	1.2	58	76	18	2.2
			E	R	155	493	542	49	2.2	72	70	-2	0.2
			E	T	156	533	498	-35	1.5	37	32	-5	0.9
			W	T	157	946	919	-27	0.9	35	41	6	1.0
			W	L	158	291	264	-27	1.6	34	39	5	0.8

Int ID	Intersection	TCS	7.00–8.00 am										
			App	Move	no.	OBS_LV	MOD_LV	DIFF_LV	GEH_LV	OBS_HV	MOD_HV	DIFF_HV	GEH_HV
I-22	Christie Street Lee Holm Road	Priority	E	T	159	399	399	0	0.0	51	48	-3	0.4
			E	L	160	14	11	-3	0.8	8	0	-8	4.0
			S	R	161	8	7	-1	0.4	6	0	-6	3.5
			S	L	162	16	58	42	6.9	9	21	12	3.1
			W	R	163	76	131	55	5.4	14	17	3	0.8
			W	T	164	838	963	125	4.2	65	62	-3	0.4
I-23	Christie Street Dunheved Road Werrington Road	RBT	E	T	165	259	241	-18	1.1	25	34	9	1.7
			E	L	166	162	211	49	3.6	29	35	6	1.1
			S	R	167	306	243	-63	3.8	24	12	-12	2.8
			S	L	168	160	151	-9	0.7	13	7	-6	1.9
			W	R	169	474	470	-4	0.2	14	28	14	3.1
			W	T	170	638	844	206	7.6	36	66	30	4.2
I-24	Werrington Road Great Western Highway	2385	N	R	171	172	246	74	5.1	15	25	10	2.2
			N	T	172	24	50	26	4.3	0	0	0	0.0
			N	L	173	480	500	20	0.9	29	33	4	0.7
			E	R	174	138	80	-58	5.6	14	3	-11	3.8
			E	T	175	815	721	-94	3.4	55	57	2	0.3
			E	L	176	56	26	-30	4.7	1	0	-1	1.4
			S	R	177	35	29	-6	1.1	1	0	-1	1.4
			S	T	178	37	33	-4	0.7	0	0	0	0.0
			S	L	179	9	29	20	4.6	2	0	-2	2.0
			W	R	180	49	47	-2	0.3	0	0	0	0.0
			W	T	181	1,016	1,119	103	3.2	33	65	32	4.6
			W	L	182	124	52	-72	7.7	4	2	-2	1.2

Int ID	Intersection	TCS	7.00-8.00 am										
			App	Move	no.	OBS_LV	MOD_LV	DIFF_LV	GEH_LV	OBS_HV	MOD_HV	DIFF_HV	GEH_HV
I-25	Dunheved Road John Oxley Avenue	Priority	E	T	183	405	371	-34	1.7	36	39	3	0.5
			E	L	184	26	27	1	0.2	2	3	1	0.6
			S	R	185	57	21	-36	5.8	1	0	-1	1.4
			S	L	186	49	46	-3	0.4	2	3	1	0.6
			W	R	187	43	9	-34	6.7	3	0	-3	2.4
			W	T	188	933	993	60	1.9	60	79	19	2.3
I-26	Christie Street Greenbank Drive East	4089	N	R	189	32	32	0	0.0	2	2	0	0.0
			N	T	190	19	18	-1	0.2	0	1	1	1.4
			N	L	191	130	124	-6	0.5	1	6	5	2.7
			E	R	192	30	17	-13	2.7	2	3	1	0.6
			E	T	193	432	354	-78	3.9	21	30	9	1.8
			E	L	194	39	14	-25	4.9	7	1	-6	3.0
			S	R	195	128	201	73	5.7	9	10	1	0.3
			S	T	196	8	9	1	0.3	0	2	2	2.0
			S	L	197	26	19	-7	1.5	0	3	3	2.4
			W	R	198	17	34	17	3.4	0	2	2	2.0
			W	T	199	698	722	24	0.9	56	56	0	0.0
			W	L	200	6	32	26	6.0	3	2	-1	0.6
I-27	Christie Street Greenbank Drive West	4054	N	R	201	115	107	-8	0.8	1	1	0	0.0
			N	L	202	46	73	27	3.5	1	4	3	1.9
			E	R	203	6	40	34	7.1	0	2	2	2.0
			E	T	204	477	355	-122	6.0	25	33	8	1.5
			W	T	205	688	709	21	0.8	56	51	-5	0.7
			W	L	206	29	43	14	2.3	1	3	2	1.4

Int ID	Intersection	TCS	7.00–8.00 am										
			App	Move	no.	OBS_LV	MOD_LV	DIFF_LV	GEH_LV	OBS_HV	MOD_HV	DIFF_HV	GEH_HV
I-28	Lakeside Parade Jordon Springs Boulevard	4443	N	R	207	87	86	-1	0.1	3	1	-2	1.4
			N	T	208	7	6	-1	0.4	0	0	0	0.0
			S	T	209	11	0	-11	4.7	1	0	-1	1.4
			S	L	210	146	111	-35	3.1	5	3	-2	1.0
			W	R	211	67	48	-19	2.5	8	2	-6	2.7
			W	L	212	66	67	1	0.1	8	3	-5	2.1
I-29	Greenwood Parkway Discovery Way	RBT	N	IN	213	46	28	-18	3.0	1	0	-1	1.4
			N	OUT	214	22	14	-8	1.9	2	2	0	0.0
			E	IN	215	275	320	45	2.6	18	17	-1	0.2
			E	OUT	216	110	124	14	1.3	21	13	-8	1.9
			S	IN	217	55	37	-18	2.7	1	2	1	0.8
			S	OUT	218	20	11	-9	2.3	0	0	0	0.0
			W	IN	219	135	192	57	4.5	21	17	-4	0.9
			W	OUT	220	359	428	69	3.5	20	21	1	0.2
I-30	Ninth Avenue Terrybrook Road	RBT	N	IN	221	82	90	8	0.9	0	0	0	0.0
			N	OUT	222	147	152	5	0.4	14	5	-9	2.9
			E	IN	223	122	149	27	2.3	19	9	-10	2.7
			E	OUT	224	300	266	-34	2.0	14	13	-1	0.3
			W	IN	225	418	392	-26	1.3	17	18	1	0.2
			W	OUT	226	175	214	39	2.8	19	9	-10	2.7

Table B.3 Counts Calibration details (8.00–9.00 am)

Int ID	Intersection	TCS	8.00–9.00 am										
			App	Move	no.	OBS_LV	MOD_LV	DIFF_LV	GEH_LV	OBS_HV	MOD_HV	DIFF_HV	GEH_HV
I-01	The Northern Road Ninth Avenue	3797	N	T	1	609	665	56	2.2	36	30	-6	1.0
			N	L	2	126	195	69	5.4	4	4	0	0.0
			E	R	3	154	171	17	1.3	5	9	4	1.5
			E	L	4	253	254	1	0.1	9	5	-4	1.5
			S	R	5	332	303	-29	1.6	12	14	2	0.6
			S	T	6	669	658	-11	0.4	39	25	-14	2.5
I-02	The Northern Road Jardine Way	Priority	N	T	7	830	896	66	2.2	47	36	-11	1.7
			N	L	8	52	27	-25	4.0	1	0	-1	1.4
			E	L	9	53	60	7	0.9	0	2	2	2.0
			S	T	10	987	969	-18	0.6	54	39	-15	2.2
I-03	The Northern Road Greenwood Parkway Borrowdale Way	3567	N	R	11	57	52	-5	0.7	3	2	-1	0.6
			N	T	12	789	837	48	1.7	42	35	-7	1.1
			N	L	13	57	68	11	1.4	1	3	2	1.4
			E	R	14	217	249	32	2.1	8	3	-5	2.1
			E	T	15	68	87	19	2.2	2	6	4	2.0
			E	L	16	148	87	-61	5.6	9	4	-5	2.0
			S	R	17	59	87	28	3.3	14	12	-2	0.6
			S	T	18	670	604	-66	2.6	45	34	-11	1.8
			S	L	19	52	42	-10	1.5	4	9	5	2.0
			W	R	20	168	231	63	4.5	7	12	5	1.6
			W	T	21	74	55	-19	2.4	0	0	0	0.0
			W	L	22	102	124	22	2.1	2	2	0	0.0

Int ID	Intersection	TCS	8.00–9.00 am										
			App	Move	no.	OBS_LV	MOD_LV	DIFF_LV	GEH_LV	OBS_HV	MOD_HV	DIFF_HV	GEH_HV
I-04	The Northern Road Watkin Street	Priority	N	T	23	1,088	1,101	13	0.4	52	50	-2	0.3
			N	L	24	60	53	-7	0.9	4	1	-3	1.9
			E	L	25	79	69	-10	1.2	6	8	2	0.8
			S	T	26	764	741	-23	0.8	63	56	-7	0.9
I-05	The Northern Road Jordan Springs Boulevard	4396	N	T	27	1,107	1,132	25	0.7	51	52	1	0.1
			N	L	28	33	41	8	1.3	4	6	2	0.9
			E	R	29	31	19	-12	2.4	2	0	-2	2.0
			E	L	30	236	200	-36	2.4	6	7	1	0.4
			S	R	31	172	112	-60	5.0	11	7	-4	1.3
			S	T	32	717	719	2	0.1	64	56	-8	1.0
I-06	The Northern Road Sherringham Road	3568	N	R	33	24	29	5	1.0	2	0	-2	2.0
			N	T	34	1,287	1,308	21	0.6	54	59	5	0.7
			S	T	35	837	791	-46	1.6	77	63	-14	1.7
			S	L	36	143	138	-5	0.4	5	0	-5	3.2
			W	R	37	241	273	32	2.0	3	3	0	0.0
			W	L	38	49	31	-18	2.8	2	0	-2	2.0
I-07	The Northern Road Richmond Road Andrews Road	2718	N	R	39	157	174	17	1.3	17	9	-8	2.2
			N	T	40	1,356	1,424	68	1.8	41	52	11	1.6
			S	T	41	914	902	-12	0.4	68	58	-10	1.3
			S	L	42	307	359	52	2.8	51	61	10	1.3
			W	R	43	407	339	-68	3.5	45	61	16	2.2
			W	L	44	85	44	-41	5.1	15	6	-9	2.8

Int ID	Intersection	TCS	8.00–9.00 am										
			App	Move	no.	OBS_LV	MOD_LV	DIFF_LV	GEH_LV	OBS_HV	MOD_HV	DIFF_HV	GEH_HV
I-08	Richmond Road Trinity Drive	Priority	N	T	45	1,607	1,622	15	0.4	86	108	22	2.2
			N	L	46	167	144	-23	1.8	3	5	2	1.0
			E	R	47	42	34	-8	1.3	1	0	-1	1.4
			E	L	48	90	48	-42	5.1	4	0	-4	2.8
			S	R	49	42	35	-7	1.1	2	0	-2	2.0
			S	T	50	1,164	1,221	57	1.7	113	118	5	0.5
I-09	Richmond Road Boomerang Place	4324	N	T	51	1,428	1,435	7	0.2	79	100	21	2.2
			N	L	52	5	12	7	2.4	1	0	-1	1.4
			E	R	53	130	114	-16	1.4	3	5	2	1.0
			E	L	54	138	142	4	0.3	5	5	0	0.0
			S	R	55	61	75	14	1.7	1	2	1	0.8
			S	T	56	1,027	1,077	50	1.5	103	116	13	1.2
I-10	Richmond Road Dunheved Road	2986	N	T	57	1,203	1,212	9	0.3	63	79	16	1.9
			N	L	58	337	375	38	2.0	25	26	1	0.2
			E	R	59	362	363	1	0.1	20	29	9	1.8
			E	L	60	413	389	-24	1.2	17	13	-4	1.0
			S	R	61	228	237	9	0.6	5	12	7	2.4
			S	T	62	745	790	45	1.6	85	89	4	0.4
I-11	Richmond Road Parker Street Coreen Avenue Oxford Street	2706	N	R	63	375	378	3	0.2	5	4	-1	0.5
			N	T	64	1,080	1,093	13	0.4	68	75	7	0.8
			N	L	65	52	56	4	0.5	2	4	2	1.2
			E	R	66	90	109	19	1.9	4	17	13	4.0
			E	T	67	195	172	-23	1.7	2	3	1	0.6
			E	L	68	46	47	1	0.1	2	1	-1	0.8

Int ID	Intersection	TCS	8.00–9.00 am										
			App	Move	no.	OBS_LV	MOD_LV	DIFF_LV	GEH_LV	OBS_HV	MOD_HV	DIFF_HV	GEH_HV
			S	R	69	37	40	3	0.5	5	3	-2	1.0
			S	T	70	565	670	105	4.2	71	74	3	0.4
			S	L	71	83	77	-6	0.7	6	0	-6	3.5
			W	R	72	131	108	-23	2.1	4	4	0	0.0
			W	T	73	121	149	28	2.4	1	8	7	3.3
			W	L	74	220	242	22	1.4	7	9	2	0.7
I-12	Parker Street Copeland Street	2444	N	R	75	12	17	5	1.3	0	0	0	0.0
			N	T	76	1,006	1,086	80	2.5	71	65	-6	0.7
			N	L	77	21	18	-3	0.7	4	3	-1	0.5
			E	R	78	30	19	-11	2.2	6	0	-6	3.5
			E	T	79	88	60	-28	3.3	3	0	-3	2.4
			E	L	80	514	331	-183	8.9	14	18	4	1.0
			S	R	81	377	303	-74	4.0	18	8	-10	2.8
			S	T	82	736	768	32	1.2	107	87	-20	2.0
			S	L	83	13	16	3	0.8	0	0	0	0.0
			W	R	84	68	77	9	1.1	1	2	1	0.8
			W	T	85	84	50	-34	4.2	3	0	-3	2.4
			W	L	86	12	35	23	4.7	0	0	0	0.0
I-13	Great Western Highway Parker Street	442	N	R	87	276	253	-23	1.4	18	5	-13	3.8
			N	T	88	881	892	11	0.4	57	65	8	1.0
			N	L	89	648	435	-213	9.2	12	16	4	1.1
			E	R	90	333	341	8	0.4	15	18	3	0.7
			E	T	91	712	728	16	0.6	25	19	-6	1.3
			E	L	92	134	122	-12	1.1	13	10	-3	0.9

Int ID	Intersection	TCS	8.00–9.00 am										
			App	Move	no.	OBS_LV	MOD_LV	DIFF_LV	GEH_LV	OBS_HV	MOD_HV	DIFF_HV	GEH_HV
			S	R	93	83	60	-23	2.7	5	5	0	0.0
			S	T	94	427	443	16	0.8	61	63	2	0.3
			S	L	95	407	394	-13	0.6	16	13	-3	0.8
			W	R	96	136	112	-24	2.2	1	6	5	2.7
			W	T	97	401	349	-52	2.7	12	10	-2	0.6
			W	L	98	209	249	40	2.6	9	16	7	2.0
I-14	Palmyra Avenue Stony Creek Road	RBT	N	IN	99	374	432	58	2.9	22	22	0	0.0
			N	OUT	100	205	241	36	2.4	26	33	7	1.3
			E	IN	101	398	535	137	6.3	36	46	10	1.6
			E	OUT	102	801	926	125	4.3	38	29	-9	1.6
			W	IN	103	450	495	45	2.1	20	8	-12	3.2
			W	OUT	104	216	295	79	4.9	14	14	0	0.0
I-15	Palmyra Avenue Australis Drive	4091	E	T	105	312	400	88	4.7	20	42	22	4.0
			E	L	106	53	50	-3	0.4	2	0	-2	2.0
			S	R	107	127	91	-36	3.4	4	1	-3	1.9
			S	L	108	101	113	12	1.2	8	3	-5	2.1
			W	R	109	147	143	-4	0.3	9	1	-8	3.6
			W	T	110	690	777	87	3.2	31	27	-4	0.7
I-16	Palmyra Avenue Forrester Road	3916	N	R	111	204	283	79	5.1	16	14	-2	0.5
			N	T	112	833	825	-8	0.3	27	31	4	0.7
			S	T	113	346	352	6	0.3	17	23	6	1.3
			S	L	114	253	235	-18	1.2	57	51	-6	0.8
			W	R	115	273	274	1	0.1	51	54	3	0.4
			W	L	116	129	197	68	5.3	5	30	25	6.0

Int ID	Intersection	TCS	8.00–9.00 am										
			App	Move	no.	OBS_LV	MOD_LV	DIFF_LV	GEH_LV	OBS_HV	MOD_HV	DIFF_HV	GEH_HV
I-17	Forrester Road Susannah Drive Ellsworth Drive	3927	N	R	117	60	12	-48	8.0	2	0	-2	2.0
			N	T	118	84	94	10	1.1	2	0	-2	2.0
			N	L	119	40	26	-14	2.4	0	0	0	0.0
			E	R	120	33	63	30	4.3	1	1	0	0.0
			E	T	121	583	619	36	1.5	73	76	3	0.3
			E	L	122	9	16	7	2.0	0	0	0	0.0
			S	R	123	4	22	18	5.0	0	0	0	0.0
			S	T	124	36	36	0	0.0	2	0	-2	2.0
			S	L	125	142	148	6	0.5	1	4	3	1.9
			W	R	126	89	113	24	2.4	0	1	1	1.4
			W	T	127	415	487	72	3.4	66	90	24	2.7
			W	L	128	13	0	-13	5.1	1	0	-1	1.4
I-18	Forrester Road Ropes Crossing Boulevard Links Road	RBT	N	IN	129	420	445	25	1.2	13	13	0	0.0
			N	OUT	130	211	219	8	0.5	48	20	-28	4.8
			N	L	131	17	10	-7	1.9	0	0	0	0.0
			E	IN	132	76	80	4	0.5	35	37	2	0.3
			E	OUT	133	517	589	72	3.1	76	90	14	1.5
			E	L	134	707	700	-7	0.3	41	43	2	0.3
			S	IN	135	915	1,016	101	3.3	156	156	0	0.0
			S	OUT	136	479	508	29	1.3	107	96	-11	1.1
			W	IN	137	105	110	5	0.5	134	138	4	0.3
			W	OUT	138	326	338	12	0.7	152	138	-14	1.2

Int ID	Intersection	TCS	8.00–9.00 am										
			App	Move	no.	OBS_LV	MOD_LV	DIFF_LV	GEH_LV	OBS_HV	MOD_HV	DIFF_HV	GEH_HV
I-19	Forrester Road Christie Street Boronia Road	RBT	N	IN	139	1,037	1,195	158	4.7	119	140	21	1.8
			N	OUT	140	870	1,011	141	4.6	164	156	-8	0.6
			E	IN	141	67	72	5	0.6	4	0	-4	2.8
			E	OUT	142	21	32	11	2.1	0	0	0	0.0
			S	IN	143	526	662	136	5.6	147	146	-1	0.1
			S	OUT	144	739	873	134	4.7	97	120	23	2.2
			W	IN	145	694	729	35	1.3	67	67	0	0.0
			W	OUT	146	694	746	52	1.9	76	78	2	0.2
I-20	Forrester Road Glossop Street	3129	N	T	147	97	112	15	1.5	11	3	-8	3.0
			N	L	148	642	733	91	3.5	125	117	-8	0.7
			E	R	149	569	587	18	0.7	142	145	3	0.3
			E	L	150	26	4	-22	5.7	9	0	-9	4.2
			S	R	151	35	42	7	1.1	12	27	15	3.4
			S	T	152	60	32	-28	4.1	10	17	7	1.9
I-21	Great Western Highway Glossop Street	1236	N	R	153	437	404	-33	1.6	66	45	-21	2.8
			N	L	154	256	267	11	0.7	72	91	19	2.1
			E	R	155	407	398	-9	0.4	108	109	1	0.1
			E	T	156	893	1,053	160	5.1	40	30	-10	1.7
			W	T	157	865	889	24	0.8	23	29	6	1.2
			W	L	158	281	285	4	0.2	47	41	-6	0.9

Int ID	Intersection	TCS	8.00–9.00 am										
			App	Move	no.	OBS_LV	MOD_LV	DIFF_LV	GEH_LV	OBS_HV	MOD_HV	DIFF_HV	GEH_HV
I-22	Christie Street Lee Holm Road	Priority	E	T	159	630	671	41	1.6	53	68	15	1.9
			E	L	160	29	2	-27	6.9	15	0	-15	5.5
			S	R	161	8	3	-5	2.1	5	0	-5	3.2
			S	L	162	29	23	-6	1.2	11	28	17	3.8
			W	R	163	55	111	56	6.1	11	14	3	0.8
			W	T	164	774	703	-71	2.6	43	39	-4	0.6
I-23	Christie Street Dunheved Road Werrington Road	RBT	E	T	165	343	326	-17	0.9	54	26	-28	4.4
			E	L	166	300	367	67	3.7	50	68	18	2.3
			S	R	167	237	142	-95	6.9	30	16	-14	2.9
			S	L	168	222	233	11	0.7	29	7	-22	5.2
			W	R	169	423	427	4	0.2	37	21	-16	3.0
			W	T	170	560	673	113	4.6	30	35	5	0.9
I-24	Werrington Road Great Western Highway	2385	N	R	171	321	389	68	3.6	14	40	26	5.0
			N	T	172	30	43	13	2.2	1	5	4	2.3
			N	L	173	394	427	33	1.6	6	18	12	3.5
			E	R	174	181	165	-16	1.2	22	10	-12	3.0
			E	T	175	1,332	1,207	-125	3.5	56	28	-28	4.3
			E	L	176	58	33	-25	3.7	0	0	0	0.0
			S	R	177	34	39	5	0.8	0	0	0	0.0
			S	T	178	24	9	-15	3.7	0	0	0	0.0
			S	L	179	5	13	8	2.7	1	0	-1	1.4
			W	R	180	42	42	0	0.0	1	0	-1	1.4
			W	T	181	1,014	1,092	78	2.4	44	44	0	0.0
			W	L	182	164	143	-21	1.7	4	2	-2	1.2

Int ID	Intersection	TCS	8.00–9.00 am										
			App	Move	no.	OBS_LV	MOD_LV	DIFF_LV	GEH_LV	OBS_HV	MOD_HV	DIFF_HV	GEH_HV
I-25	Dunheved Road John Oxley Avenue	Priority	E	T	183	538	492	-46	2.0	43	33	-10	1.6
			E	L	184	44	71	27	3.6	0	1	1	1.4
			S	R	185	69	9	-60	9.6	0	4	4	2.8
			S	L	186	56	38	-18	2.6	1	2	1	0.8
			W	R	187	33	32	-1	0.2	2	1	-1	0.8
			W	T	188	850	907	57	1.9	39	50	11	1.6
I-26	Christie Street Greenbank Drive East	4089	N	R	189	43	83	40	5.0	0	1	1	1.4
			N	T	190	35	25	-10	1.8	0	0	0	0.0
			N	L	191	95	55	-40	4.6	0	2	2	2.0
			E	R	192	27	25	-2	0.4	0	2	2	2.0
			E	T	193	529	393	-136	6.3	38	32	-6	1.0
			E	L	194	130	77	-53	5.2	8	4	-4	1.6
			S	R	195	188	233	45	3.1	6	11	5	1.7
			S	T	196	26	24	-2	0.4	1	2	1	0.8
			S	L	197	54	52	-2	0.3	1	3	2	1.4
			W	R	198	47	54	7	1.0	1	4	3	1.9
			W	T	199	668	640	-28	1.1	31	43	12	2.0
			W	L	200	8	27	19	4.5	0	1	1	1.4
I-27	Christie Street Greenbank Drive West	4054	N	R	201	178	199	21	1.5	1	2	1	0.8
			N	L	202	41	94	53	6.5	0	4	4	2.8
			E	R	203	5	21	16	4.4	3	3	0	0.0
			E	T	204	623	513	-110	4.6	36	33	-3	0.5
			W	T	205	678	622	-56	2.2	33	44	11	1.8
			W	L	206	30	39	9	1.5	0	4	4	2.8

Int ID	Intersection	TCS	8.00–9.00 am										
			App	Move	no.	OBS_LV	MOD_LV	DIFF_LV	GEH_LV	OBS_HV	MOD_HV	DIFF_HV	GEH_HV
I-28	Lakeside Parade Jordon Springs Boulevard	4443	N	R	207	91	77	-14	1.5	3	5	2	1.0
			N	T	208	4	13	9	3.1	1	0	-1	1.4
			S	T	209	18	0	-18	6.0	0	0	0	0.0
			S	L	210	121	93	-28	2.7	5	4	-1	0.5
			W	R	211	51	42	-9	1.3	9	6	-3	1.1
			W	L	212	55	54	-1	0.1	7	7	0	0.0
I-29	Greenwood Parkway Discovery Way	RBT	N	IN	213	84	86	2	0.2	0	0	0	0.0
			N	OUT	214	29	32	3	0.5	3	2	-1	0.6
			E	IN	215	294	304	10	0.6	20	12	-8	2.0
			E	OUT	216	140	175	35	2.8	13	11	-2	0.6
			S	IN	217	74	64	-10	1.2	0	0	0	0.0
			S	OUT	218	53	36	-17	2.5	0	1	1	1.4
			W	IN	219	190	210	20	1.4	15	15	0	0.0
			W	OUT	220	420	420	0	0.0	19	13	-6	1.5
I-30	Ninth Avenue Terrybrook Road	RBT	N	IN	221	167	158	-9	0.7	1	0	-1	1.4
			N	OUT	222	207	204	-3	0.2	17	4	-13	4.0
			E	IN	223	359	385	26	1.3	15	14	-1	0.3
			E	OUT	224	364	412	48	2.4	14	14	0	0.0
			W	IN	225	447	500	53	2.4	16	18	2	0.5
			W	OUT	226	402	428	26	1.3	13	14	1	0.3

Table B.4 Counts Calibration details (4.00–5.00 pm)

Int ID	Intersection	TCS	4.00–5.00 pm										
			App	Move	no.	OBS_LV	MOD_LV	DIFF_LV	GEH_LV	OBS_HV	MOD_HV	DIFF_HV	GEH_HV
I-01	The Northern Road Ninth Avenue	3797	N	T	1	694	625	-69	2.7	26	29	3	0.6
			N	L	2	32	52	20	3.1	0	3	3	2.4
			E	R	3	126	137	11	1.0	8	10	2	0.7
			E	L	4	289	328	39	2.2	10	21	11	2.8
			S	R	5	188	225	37	2.6	5	14	9	2.9
			S	T	6	641	682	41	1.6	43	47	4	0.6
I-02	The Northern Road Jardine Way	Priority	N	T	7	901	875	-26	0.9	34	51	17	2.6
			N	L	8	91	82	-9	1.0	1	1	0	0.0
			E	L	9	38	34	-4	0.7	1	0	-1	1.4
			S	T	10	833	905	72	2.4	47	61	14	1.9
I-03	The Northern Road Greenwood Parkway Borrowdale Way	3567	N	R	11	72	68	-4	0.5	4	5	1	0.5
			N	T	12	793	758	-35	1.3	31	41	10	1.7
			N	L	13	82	95	13	1.4	1	8	7	3.3
			E	R	14	102	114	12	1.2	4	8	4	1.6
			E	T	15	100	77	-23	2.4	0	0	0	0.0
			E	L	16	91	127	36	3.4	11	3	-8	3.0
			S	R	17	166	164	-2	0.2	5	5	0	0.0
			S	T	18	703	768	65	2.4	41	52	11	1.6
			S	L	19	106	153	47	4.1	6	11	5	1.7
			W	R	20	113	148	35	3.1	7	7	0	0.0
			W	T	21	96	83	-13	1.4	0	3	3	2.4
			W	L	22	38	37	-1	0.2	3	1	-2	1.4

Int ID	Intersection	TCS	4.00–5.00 pm										
			App	Move	no.	OBS_LV	MOD_LV	DIFF_LV	GEH_LV	OBS_HV	MOD_HV	DIFF_HV	GEH_HV
I-04	The Northern Road Watkin Street	Priority	N	T	23	949	956	7	0.2	46	46	0	0.0
			N	L	24	53	65	12	1.6	5	3	-2	1.0
			E	L	25	71	48	-23	3.0	6	5	-1	0.4
			S	T	26	968	1,067	99	3.1	52	67	15	1.9
I-05	The Northern Road Jordan Springs Boulevard	4396	N	T	27	959	978	19	0.6	46	53	7	1.0
			N	L	28	47	27	-20	3.3	4	0	-4	2.8
			E	R	29	64	67	3	0.4	3	0	-3	2.4
			E	L	30	238	216	-22	1.5	9	2	-7	3.0
			S	R	31	401	345	-56	2.9	5	2	-3	1.6
			S	T	32	899	999	100	3.2	46	67	21	2.8
I-06	The Northern Road Sherringham Road	3568	N	R	33	69	37	-32	4.4	3	0	-3	2.4
			N	T	34	1,104	1,151	47	1.4	49	55	6	0.8
			S	T	35	1,251	1,303	52	1.5	52	69	17	2.2
			S	L	36	238	304	66	4.0	6	0	-6	3.5
			W	R	37	144	146	2	0.2	3	0	-3	2.4
			W	L	38	39	42	3	0.5	1	0	-1	1.4
I-07	The Northern Road Richmond Road Andrews Road	2718	N	R	39	130	94	-36	3.4	4	3	-1	0.5
			N	T	40	1,111	1,220	109	3.2	47	52	5	0.7
			S	T	41	1,325	1,415	90	2.4	52	62	10	1.3
			S	L	42	492	536	44	1.9	50	60	10	1.3
			W	R	43	437	440	3	0.1	19	28	9	1.9
			W	L	44	183	184	1	0.1	4	7	3	1.3

Int ID	Intersection	TCS	4.00–5.00 pm										
			App	Move	no.	OBS_LV	MOD_LV	DIFF_LV	GEH_LV	OBS_HV	MOD_HV	DIFF_HV	GEH_HV
I-08	Richmond Road Trinity Drive	Priority	N	T	45	1,415	1,525	110	2.9	61	77	16	1.9
			N	L	46	116	133	17	1.5	3	1	-2	1.4
			E	R	47	56	85	29	3.5	3	6	3	1.4
			E	L	48	64	30	-34	5.0	4	2	-2	1.2
			S	R	49	80	87	7	0.8	4	5	1	0.5
			S	T	50	1,779	1,875	96	2.2	101	114	13	1.3
I-09	Richmond Road Boomerang Place	4324	N	T	51	1,278	1,354	76	2.1	60	72	12	1.5
			N	L	52	18	29	11	2.3	1	0	-1	1.4
			E	R	53	166	158	-8	0.6	2	5	3	1.6
			E	L	54	105	107	2	0.2	7	3	-4	1.8
			S	R	55	147	102	-45	4.0	5	1	-4	2.3
			S	T	56	1,637	1,725	88	2.1	100	112	12	1.2
I-10	Richmond Road Dunheved Road	2986	N	T	57	1,009	1,093	84	2.6	54	56	2	0.3
			N	L	58	362	371	9	0.5	14	19	5	1.2
			E	R	59	506	523	17	0.7	30	41	11	1.8
			E	L	60	352	387	35	1.8	8	12	4	1.3
			S	R	61	457	401	-56	2.7	5	20	15	4.2
			S	T	62	1,298	1,289	-9	0.3	75	71	-4	0.5
I-11	Richmond Road Parker Street Coreen Avenue Oxford Street	2706	N	R	63	350	344	-6	0.3	7	6	-1	0.4
			N	T	64	868	1,041	173	5.6	66	60	-6	0.8
			N	L	65	38	77	39	5.1	1	10	9	3.8
			E	R	66	52	93	41	4.8	8	2	-6	2.7
			E	T	67	137	124	-13	1.1	4	1	-3	1.9
			E	L	68	53	10	-43	7.7	4	2	-2	1.2

Int ID	Intersection	TCS	4.00–5.00 pm										
			App	Move	no.	OBS_LV	MOD_LV	DIFF_LV	GEH_LV	OBS_HV	MOD_HV	DIFF_HV	GEH_HV
I-12	Parker Street Copeland Street	2444	S	R	69	62	30	-32	4.7	5	1	-4	2.3
			S	T	70	1,039	1,144	105	3.2	75	77	2	0.2
			S	L	71	83	64	-19	2.2	5	0	-5	3.2
			W	R	72	153	114	-39	3.4	9	0	-9	4.2
			W	T	73	144	155	11	0.9	5	2	-3	1.6
			W	L	74	458	441	-17	0.8	11	12	1	0.3
			N	R	75	30	25	-5	1.0	0	0	0	0.0
			N	T	76	995	1,057	62	1.9	58	52	-6	0.8
			N	L	77	24	52	28	4.5	3	0	-3	2.4
			E	R	78	54	33	-21	3.2	4	1	-3	1.9
			E	T	79	76	51	-25	3.1	2	0	-2	2.0
			E	L	80	347	392	45	2.3	10	7	-3	1.0
I-13	Great Western Highway Parker Street	442	S	R	81	389	517	128	6.0	6	26	20	5.0
			S	T	82	1,136	1,128	-8	0.2	65	67	2	0.2
			S	L	83	33	52	19	2.9	1	6	5	2.7
			W	R	84	73	117	44	4.5	2	2	0	0.0
			W	T	85	85	33	-52	6.8	3	0	-3	2.4
			W	L	86	12	18	6	1.5	1	0	-1	1.4
			N	R	87	286	346	60	3.4	11	6	-5	1.7
			N	T	88	817	933	116	3.9	34	33	-1	0.2
			N	L	89	402	517	115	5.4	9	29	20	4.6
			E	R	90	451	473	22	1.0	4	25	21	5.5
			E	T	91	769	789	20	0.7	18	27	9	1.9
			E	L	92	151	168	17	1.3	7	9	2	0.7

Int ID	Intersection	TCS	4.00–5.00 pm										
			App	Move	no.	OBS_LV	MOD_LV	DIFF_LV	GEH_LV	OBS_HV	MOD_HV	DIFF_HV	GEH_HV
			S	R	93	64	79	15	1.8	5	7	2	0.8
			S	T	94	626	641	15	0.6	59	61	2	0.3
			S	L	95	326	340	14	0.8	10	4	-6	2.3
			W	R	96	309	283	-26	1.5	2	0	-2	2.0
			W	T	97	568	602	34	1.4	6	11	5	1.7
			W	L	98	595	515	-80	3.4	10	2	-8	3.3
I-14	Palmyra Avenue Stony Creek Road	RBT	N	IN	99	318	373	55	3.0	24	25	1	0.2
			N	OUT	100	440	512	72	3.3	41	29	-12	2.0
			E	IN	101	904	920	16	0.5	77	55	-22	2.7
			E	OUT	102	522	547	25	1.1	28	32	4	0.7
			W	IN	103	224	175	-49	3.5	5	7	2	0.8
			W	OUT	104	484	410	-74	3.5	37	26	-11	2.0
I-15	Palmyra Avenue Australis Drive	4091	E	T	105	759	748	-11	0.4	44	46	2	0.3
			E	L	106	132	168	36	2.9	2	3	1	0.6
			S	R	107	98	93	-5	0.5	1	0	-1	1.4
			S	L	108	200	150	-50	3.8	8	9	1	0.3
			W	R	109	131	139	8	0.7	8	6	-2	0.8
			W	T	110	419	411	-8	0.4	24	24	0	0.0
I-16	Palmyra Avenue Forrester Road	3916	N	R	111	180	231	51	3.6	24	18	-6	1.3
			N	T	112	457	446	-11	0.5	13	16	3	0.8
			S	T	113	876	945	69	2.3	39	45	6	0.9
			S	L	114	215	232	17	1.1	28	24	-4	0.8
			W	R	115	374	389	15	0.8	22	22	0	0.0
			W	L	116	213	241	28	1.9	26	11	-15	3.5

Int ID	Intersection	TCS	4.00–5.00 pm										
			App	Move	no.	OBS_LV	MOD_LV	DIFF_LV	GEH_LV	OBS_HV	MOD_HV	DIFF_HV	GEH_HV
I-17	Forrester Road Susannah Drive Ellsworth Drive	3927	N	R	117	30	2	-28	7.0	3	0	-3	2.4
			N	T	118	57	48	-9	1.2	5	1	-4	2.3
			N	L	119	33	54	21	3.2	3	0	-3	2.4
			E	R	120	43	51	8	1.2	1	1	0	0.0
			E	T	121	615	504	-111	4.7	54	53	-1	0.1
			E	L	122	7	21	14	3.7	0	0	0	0.0
			S	R	123	10	17	7	1.9	1	1	0	0.0
			S	T	124	75	64	-11	1.3	4	2	-2	1.2
			S	L	125	169	138	-31	2.5	6	6	0	0.0
			W	R	126	156	180	24	1.9	2	0	-2	2.0
			W	T	127	641	677	36	1.4	44	51	7	1.0
			W	L	128	15	9	-6	1.7	2	0	-2	2.0
I-18	Forrester Road Ropes Crossing Boulevard Links Road	RBT	N	IN	129	241	345	104	6.1	19	32	13	2.6
			N	OUT	130	485	494	9	0.4	35	21	-14	2.6
			N	L	131	0	0	0	0.0	0	0	0	0.0
			E	IN	132	23	15	-8	1.8	17	35	18	3.5
			E	OUT	133	803	853	50	1.7	52	49	-3	0.4
			E	L	134	774	619	-155	5.9	45	21	-24	4.2
			S	IN	135	1,165	1,241	76	2.2	106	132	26	2.4
			S	OUT	136	557	640	83	3.4	55	93	38	4.4
			W	IN	137	517	496	-21	0.9	67	80	13	1.5
			W	OUT	138	101	109	8	0.8	83	117	34	3.4

Int ID	Intersection	TCS	4.00–5.00 pm										
			App	Move	no.	OBS_LV	MOD_LV	DIFF_LV	GEH_LV	OBS_HV	MOD_HV	DIFF_HV	GEH_HV
I-19	Forrester Road Christie Street Boronia Road	RBT	N	IN	139	1,351	1,385	34	0.9	128	114	-14	1.3
			N	OUT	140	1,113	1,239	126	3.7	104	130	26	2.4
			E	IN	141	102	109	7	0.7	2	0	-2	2.0
			E	OUT	142	93	85	-8	0.8	5	0	-5	3.2
			S	IN	143	874	1,001	127	4.1	90	119	29	2.8
			S	OUT	144	766	799	33	1.2	88	110	22	2.2
			W	IN	145	657	835	178	6.5	40	68	28	3.8
			W	OUT	146	1,012	1,209	197	5.9	63	60	-3	0.4
I-20	Forrester Road Glossop Street	3129	N	T	147	71	126	55	5.5	7	2	-5	2.4
			N	L	148	746	590	-156	6.0	77	97	20	2.1
			E	R	149	721	792	71	2.6	97	107	10	1.0
			E	L	150	25	6	-19	4.8	7	1	-6	3.0
			S	R	151	110	70	-40	4.2	7	6	-1	0.4
			S	T	152	121	95	-26	2.5	2	10	8	3.3
I-21	Great Western Highway Glossop Street	1236	N	R	153	591	461	-130	5.7	46	43	-3	0.4
			N	L	154	358	350	-8	0.4	51	55	4	0.5
			E	R	155	426	468	42	2.0	68	60	-8	1.0
			E	T	156	1,352	1,338	-14	0.4	48	69	21	2.7
			W	T	157	807	804	-3	0.1	32	29	-3	0.5
			W	L	158	254	432	178	9.6	33	46	13	2.1

Int ID	Intersection	TCS	4.00–5.00 pm										
			App	Move	no.	OBS_LV	MOD_LV	DIFF_LV	GEH_LV	OBS_HV	MOD_HV	DIFF_HV	GEH_HV
I-22	Christie Street Lee Holm Road	Priority	E	T	159	1,045	1,148	103	3.1	54	55	1	0.1
			E	L	160	9	0	-9	4.2	4	0	-4	2.8
			S	R	161	20	12	-8	2.0	5	0	-5	3.2
			S	L	162	99	52	-47	5.4	6	13	7	2.3
			W	R	163	12	15	3	0.8	3	5	2	1.0
			W	T	164	656	757	101	3.8	44	37	-7	1.1
I-23	Christie Street Dunheved Road Werrington Road	RBT	E	T	165	669	810	141	5.2	26	48	22	3.6
			E	L	166	495	391	-104	4.9	22	21	-1	0.2
			S	R	167	209	200	-9	0.6	12	8	-4	1.3
			S	L	168	574	573	-1	0.0	21	16	-5	1.2
			W	R	169	311	264	-47	2.8	11	15	4	1.1
			W	T	170	449	569	120	5.3	44	49	5	0.7
I-24	Werrington Road Great Western Highway	2385	N	R	171	339	413	74	3.8	16	18	2	0.5
			N	T	172	21	36	15	2.8	2	0	-2	2.0
			N	L	173	228	196	-32	2.2	13	15	2	0.5
			E	R	174	346	351	5	0.3	19	10	-9	2.4
			E	T	175	1,404	1,254	-150	4.1	45	76	31	4.0
			E	L	176	44	40	-4	0.6	1	2	1	0.8
			S	R	177	60	60	0	0.0	0	5	5	3.2
			S	T	178	43	41	-2	0.3	1	0	-1	1.4
			S	L	179	13	1	-12	4.5	1	0	-1	1.4
			W	R	180	44	31	-13	2.1	1	0	-1	1.4
			W	T	181	1,212	1,291	79	2.2	30	56	26	4.0
			W	L	182	227	204	-23	1.6	2	11	9	3.5

Int ID	Intersection	TCS	4.00–5.00 pm										
			App	Move	no.	OBS_LV	MOD_LV	DIFF_LV	GEH_LV	OBS_HV	MOD_HV	DIFF_HV	GEH_HV
I-25	Dunheved Road John Oxley Avenue	Priority	E	T	183	847	903	56	1.9	45	49	4	0.6
			E	L	184	205	303	98	6.1	7	12	5	1.6
			S	R	185	22	35	13	2.4	2	2	0	0.0
			S	L	186	55	41	-14	2.0	1	2	1	0.8
			W	R	187	37	30	-7	1.2	0	2	2	2.0
			W	T	188	739	786	47	1.7	29	48	19	3.1
I-26	Christie Street Greenbank Drive East	4089	N	R	189	26	95	69	8.9	1	6	5	2.7
			N	T	190	24	7	-17	4.3	0	3	3	2.4
			N	L	191	81	46	-35	4.4	2	2	0	0.0
			E	R	192	86	62	-24	2.8	6	3	-3	1.4
			E	T	193	799	763	-36	1.3	35	39	4	0.7
			E	L	194	99	26	-73	9.2	6	1	-5	2.7
			S	R	195	113	167	54	4.6	6	3	-3	1.4
			S	T	196	33	26	-7	1.3	1	2	1	0.8
			S	L	197	35	59	24	3.5	1	4	3	1.9
			W	R	198	51	81	30	3.7	1	1	0	0.0
			W	T	199	693	580	-113	4.5	21	22	1	0.2
			W	L	200	24	51	27	4.4	0	7	7	3.7
I-27	Christie Street Greenbank Drive West	4054	N	R	201	100	52	-48	5.5	2	3	1	0.6
			N	L	202	24	65	41	6.1	0	2	2	2.0
			E	R	203	26	97	71	9.1	0	5	5	3.2
			E	T	204	837	810	-27	0.9	35	43	8	1.3
			W	T	205	749	626	-123	4.7	20	28	8	1.6
			W	L	206	96	92	-4	0.4	1	6	5	2.7

Int ID	Intersection	TCS	4.00–5.00 pm										
			App	Move	no.	OBS_LV	MOD_LV	DIFF_LV	GEH_LV	OBS_HV	MOD_HV	DIFF_HV	GEH_HV
I-28	Lakeside Parade Jordon Springs Boulevard	4443	N	R	207	119	61	-58	6.1	5	0	-5	3.2
			N	T	208	9	9	0	0.0	0	0	0	0.0
			S	T	209	9	3	-6	2.4	1	0	-1	1.4
			S	L	210	75	139	64	6.2	6	1	-5	2.7
			W	R	211	113	144	31	2.7	4	0	-4	2.8
			W	L	212	167	166	-1	0.1	4	2	-2	1.2
I-29	Greenwood Parkway Discovery Way	RBT	N	IN	213	24	47	23	3.9	0	0	0	0.0
			N	OUT	214	64	36	-28	4.0	1	2	1	0.8
			E	IN	215	203	195	-8	0.6	15	8	-7	2.1
			E	OUT	216	250	238	-12	0.8	3	11	8	3.0
			S	IN	217	81	56	-25	3.0	0	0	0	0.0
			S	OUT	218	67	44	-23	3.1	0	0	0	0.0
			W	IN	219	363	339	-24	1.3	4	16	12	3.8
			W	OUT	220	290	322	32	1.8	15	11	-4	1.1
I-30	Ninth Avenue Terrybrook Road	RBT	N	IN	221	134	97	-37	3.4	1	0	-1	1.4
			N	OUT	222	81	67	-14	1.6	6	0	-6	3.5
			E	IN	223	288	360	72	4.0	18	30	12	2.4
			E	OUT	224	149	205	56	4.2	6	16	10	3.0
			W	IN	225	221	278	57	3.6	6	17	11	3.2
			W	OUT	226	413	461	48	2.3	19	31	12	2.4

Table B.5 Counts Calibration details (5.00–6.00 pm)

Int ID	Intersection	TCS	5.00–6.00 pm										
			App	Move	no.	OBS_LV	MOD_LV	DIFF_LV	GEH_LV	OBS_HV	MOD_HV	DIFF_HV	GEH_HV
I-01	The Northern Road Ninth Avenue	3797	N	T	1	726	737	11	0.4	30	31	1	0.2
			N	L	2	23	20	-3	0.6	2	0	-2	2.0
			E	R	3	147	173	26	2.1	8	6	-2	0.8
			E	L	4	386	400	14	0.7	13	4	-9	3.1
			S	R	5	175	186	11	0.8	10	8	-2	0.7
			S	T	6	629	630	1	0.0	28	26	-2	0.4
I-02	The Northern Road Jardine Way	Priority	N	T	7	1,021	1,053	32	1.0	37	35	-2	0.3
			N	L	8	95	81	-14	1.5	3	0	-3	2.4
			E	L	9	36	47	11	1.7	0	2	2	2.0
			S	T	10	798	813	15	0.5	34	34	0	0.0
I-03	The Northern Road Greenwood Parkway Borrowdale Way	3567	N	R	11	70	68	-2	0.2	4	2	-2	1.2
			N	T	12	873	882	9	0.3	27	32	5	0.9
			N	L	13	110	147	37	3.3	6	3	-3	1.4
			E	R	14	112	96	-16	1.6	4	6	2	0.9
			E	T	15	102	96	-6	0.6	0	4	4	2.8
			E	L	16	89	121	32	3.1	7	4	-3	1.3
			S	R	17	166	179	13	1.0	0	2	2	2.0
			S	T	18	657	706	49	1.9	27	26	-1	0.2
			S	L	19	103	144	41	3.7	2	6	4	2.0
			W	R	20	91	138	47	4.4	6	0	-6	3.5
			W	T	21	79	77	-2	0.2	0	3	3	2.4
			W	L	22	36	14	-22	4.4	3	2	-1	0.6

Int ID	Intersection	TCS	5.00–6.00 pm										
			App	Move	no.	OBS_LV	MOD_LV	DIFF_LV	GEH_LV	OBS_HV	MOD_HV	DIFF_HV	GEH_HV
I-04	The Northern Road Watkin Street	Priority	N	T	23	1,025	1,073	48	1.5	32	36	4	0.7
			N	L	24	50	70	20	2.6	3	2	-1	0.6
			E	L	25	62	82	20	2.4	5	6	1	0.4
			S	T	26	915	1,033	118	3.8	33	35	2	0.3
I-05	The Northern Road Jordan Springs Boulevard	4396	N	T	27	1,015	1,094	79	2.4	35	37	2	0.3
			N	L	28	60	59	-1	0.1	3	5	2	1.0
			E	R	29	47	50	3	0.4	3	0	-3	2.4
			E	L	30	278	241	-37	2.3	3	3	0	0.0
			S	R	31	454	290	-164	8.5	1	4	3	1.9
			S	T	32	868	983	115	3.8	27	35	8	1.4
I-06	The Northern Road Sherringham Road	3568	N	R	33	78	55	-23	2.8	0	0	0	0.0
			N	T	34	1,211	1,276	65	1.8	42	40	-2	0.3
			S	T	35	1,291	1,222	-69	1.9	26	39	13	2.3
			S	L	36	239	306	67	4.1	8	0	-8	4.0
			W	R	37	169	170	1	0.1	2	0	-2	2.0
			W	L	38	43	49	6	0.9	0	0	0	0.0
I-07	The Northern Road Richmond Road Andrews Road	2718	N	R	39	161	117	-44	3.7	6	0	-6	3.5
			N	T	40	1,245	1,320	75	2.1	35	40	5	0.8
			S	T	41	1,340	1,363	23	0.6	30	38	8	1.4
			S	L	42	493	496	3	0.1	13	20	7	1.7
			W	R	43	400	416	16	0.8	13	13	0	0.0
			W	L	44	211	164	-47	3.4	4	0	-4	2.8

Int ID	Intersection	TCS	5.00–6.00 pm										
			App	Move	no.	OBS_LV	MOD_LV	DIFF_LV	GEH_LV	OBS_HV	MOD_HV	DIFF_HV	GEH_HV
I-08	Richmond Road Trinity Drive	Priority	N	T	45	1,513	1,586	73	1.9	43	50	7	1.0
			N	L	46	124	148	24	2.1	2	5	3	1.6
			E	R	47	43	83	40	5.0	0	1	1	1.4
			E	L	48	53	27	-26	4.1	3	0	-3	2.4
			S	R	49	80	112	32	3.3	2	5	3	1.6
			S	T	50	1,774	1,779	5	0.1	40	59	19	2.7
I-09	Richmond Road Boomerang Place	4324	N	T	51	1,381	1,387	6	0.2	44	47	3	0.4
			N	L	52	29	41	12	2.0	0	0	0	0.0
			E	R	53	185	188	3	0.2	0	1	1	1.4
			E	L	54	128	105	-23	2.1	4	3	-1	0.5
			S	R	55	167	128	-39	3.2	6	3	-3	1.4
			S	T	56	1,635	1,617	-18	0.4	48	57	9	1.2
I-10	Richmond Road Dunheved Road	2986	N	T	57	1,161	1,131	-30	0.9	40	38	-2	0.3
			N	L	58	355	352	-3	0.2	6	12	6	2.0
			E	R	59	431	474	43	2.0	18	15	-3	0.7
			E	L	60	533	429	-104	4.7	8	22	14	3.6
			S	R	61	457	500	43	2.0	16	17	1	0.2
			S	T	62	1,391	1,275	-116	3.2	37	45	8	1.2
I-11	Richmond Road Parker Street Coreen Avenue Oxford Street	2706	N	R	63	341	335	-6	0.3	10	11	1	0.3
			N	T	64	1,050	1,117	67	2.0	46	40	-6	0.9
			N	L	65	40	76	36	4.7	3	6	3	1.4
			E	R	66	76	102	26	2.8	0	4	4	2.8
			E	T	67	101	70	-31	3.4	0	5	5	3.2
			E	L	68	49	33	-16	2.5	6	0	-6	3.5

Int ID	Intersection	TCS	5.00–6.00 pm										
			App	Move	no.	OBS_LV	MOD_LV	DIFF_LV	GEH_LV	OBS_HV	MOD_HV	DIFF_HV	GEH_HV
			S	R	69	35	44	9	1.4	3	2	-1	0.6
			S	T	70	1,140	1,179	39	1.1	27	42	15	2.6
			S	L	71	50	45	-5	0.7	6	1	-5	2.7
			W	R	72	132	83	-49	4.7	4	0	-4	2.8
			W	T	73	182	214	32	2.3	2	4	2	1.2
			W	L	74	528	503	-25	1.1	7	11	4	1.3
I-12	Parker Street Copeland Street	2444	N	R	75	40	15	-25	4.8	0	0	0	0.0
			N	T	76	940	1,099	159	5.0	50	37	-13	2.0
			N	L	77	21	39	18	3.3	2	2	0	0.0
			E	R	78	48	37	-11	1.7	1	2	1	0.8
			E	T	79	65	43	-22	3.0	4	0	-4	2.8
			E	L	80	340	263	-77	4.4	2	6	4	2.0
			S	R	81	406	397	-9	0.4	4	13	9	3.1
			S	T	82	1,190	1,174	-16	0.5	44	36	-8	1.3
			S	L	83	20	51	31	5.2	2	2	0	0.0
			W	R	84	64	70	6	0.7	1	2	1	0.8
			W	T	85	108	37	-71	8.3	3	0	-3	2.4
			W	L	86	6	17	11	3.2	0	0	0	0.0
I-13	Great Western Highway Parker Street	442	N	R	87	280	311	31	1.8	6	2	-4	2.0
			N	T	88	832	777	-55	1.9	40	32	-8	1.3
			N	L	89	391	501	110	5.2	5	16	11	3.4
			E	R	90	478	498	20	0.9	5	20	15	4.2
			E	T	91	796	887	91	3.1	16	25	9	2.0
			E	L	92	168	177	9	0.7	3	8	5	2.1

Int ID	Intersection	TCS	5.00–6.00 pm										
			App	Move	no.	OBS_LV	MOD_LV	DIFF_LV	GEH_LV	OBS_HV	MOD_HV	DIFF_HV	GEH_HV
			S	R	93	43	39	-4	0.6	0	6	6	3.5
			S	T	94	634	612	-22	0.9	29	25	-4	0.8
			S	L	95	317	265	-52	3.0	3	2	-1	0.6
			W	R	96	342	258	-84	4.8	2	3	1	0.6
			W	T	97	647	616	-31	1.2	7	12	5	1.6
			W	L	98	559	484	-75	3.3	13	9	-4	1.2
I-14	Palmyra Avenue Stony Creek Road	RBT	N	IN	99	288	276	-12	0.7	31	29	-2	0.4
			N	OUT	100	335	364	29	1.6	20	26	6	1.3
			E	IN	101	866	907	41	1.4	40	41	1	0.2
			E	OUT	102	467	443	-24	1.1	37	32	-5	0.9
			W	IN	103	199	169	-30	2.2	9	3	-6	2.4
			W	OUT	104	551	545	-6	0.3	23	15	-8	1.8
I-15	Palmyra Avenue Australis Drive	4091	E	T	105	636	738	102	3.9	41	36	-5	0.8
			E	L	106	156	205	49	3.6	3	0	-3	2.4
			S	R	107	92	94	2	0.2	1	0	-1	1.4
			S	L	108	208	171	-37	2.7	7	4	-3	1.3
			W	R	109	122	89	-33	3.2	8	10	2	0.7
			W	T	110	357	342	-15	0.8	28	19	-9	1.9
I-16	Palmyra Avenue Forrester Road	3916	N	R	111	188	183	-5	0.4	21	12	-9	2.2
			N	T	112	424	402	-22	1.1	18	12	-6	1.5
			S	T	113	812	833	21	0.7	27	28	1	0.2
			S	L	114	258	281	23	1.4	22	26	4	0.8
			W	R	115	403	321	-82	4.3	13	13	0	0.0
			W	L	116	181	319	138	8.7	18	11	-7	1.8

Int ID	Intersection	TCS	5.00–6.00 pm										
			App	Move	no.	OBS_LV	MOD_LV	DIFF_LV	GEH_LV	OBS_HV	MOD_HV	DIFF_HV	GEH_HV
I-17	Forrester Road Susannah Drive Ellsworth Drive	3927	N	R	117	35	3	-32	7.3	2	0	-2	2.0
			N	T	118	50	33	-17	2.6	4	1	-3	1.9
			N	L	119	40	53	13	1.9	2	0	-2	2.0
			E	R	120	46	54	8	1.1	2	1	-1	0.8
			E	T	121	695	537	-158	6.4	45	41	-4	0.6
			E	L	122	6	10	4	1.4	1	0	-1	1.4
			S	R	123	4	20	16	4.6	0	0	0	0.0
			S	T	124	83	55	-28	3.4	5	0	-5	3.2
			S	L	125	148	193	45	3.4	2	9	7	3.0
			W	R	126	121	140	19	1.7	0	2	2	2.0
			W	T	127	637	587	-50	2.0	25	27	2	0.4
			W	L	128	36	16	-20	3.9	0	2	2	2.0
I-18	Forrester Road Ropes Crossing Boulevard Links Road	RBT	N	IN	129	278	382	104	5.7	10	16	6	1.7
			N	OUT	130	546	569	23	1.0	23	13	-10	2.4
			N	L	131	4	0	-4	2.8	0	0	0	0.0
			E	IN	132	17	18	1	0.2	17	20	3	0.7
			E	OUT	133	782	742	-40	1.4	35	30	-5	0.9
			E	L	134	863	717	-146	5.2	31	33	2	0.4
			S	IN	135	1,231	1,199	-32	0.9	52	50	-2	0.3
			S	OUT	136	541	571	30	1.3	33	33	0	0.0
			W	IN	137	388	339	-49	2.6	35	35	0	0.0
			W	OUT	138	49	56	7	1.0	41	45	4	0.6

Int ID	Intersection	TCS	5.00–6.00 pm										
			App	Move	no.	OBS_LV	MOD_LV	DIFF_LV	GEH_LV	OBS_HV	MOD_HV	DIFF_HV	GEH_HV
I-19	Forrester Road Christie Street Boronia Road	RBT	N	IN	139	1,368	1,388	20	0.5	90	89	-1	0.1
			N	OUT	140	1,195	1,211	16	0.5	42	50	8	1.2
			E	IN	141	108	128	20	1.8	1	0	-1	1.4
			E	OUT	142	92	61	-31	3.5	2	0	-2	2.0
			S	IN	143	963	1,089	126	3.9	38	44	6	0.9
			S	OUT	144	733	819	86	3.1	56	94	38	4.4
			W	IN	145	696	736	40	1.5	15	41	26	4.9
			W	OUT	146	1,115	1,250	135	3.9	44	32	-12	1.9
I-20	Forrester Road Glossop Street	3129	N	T	147	43	88	45	5.6	3	3	0	0.0
			N	L	148	712	611	-101	3.9	38	65	27	3.8
			E	R	149	810	812	2	0.1	52	34	-18	2.7
			E	L	150	24	7	-17	4.3	0	0	0	0.0
			S	R	151	142	90	-52	4.8	7	6	-1	0.4
			S	T	152	167	122	-45	3.7	2	7	5	2.4
I-21	Great Western Highway Glossop Street	1236	N	R	153	455	373	-82	4.0	17	27	10	2.1
			N	L	154	428	369	-59	3.0	30	35	5	0.9
			E	R	155	455	439	-16	0.8	34	28	-6	1.1
			E	T	156	1,327	1,390	63	1.7	25	32	7	1.3
			W	T	157	836	814	-22	0.8	18	25	7	1.5
			W	L	158	235	319	84	5.0	15	16	1	0.3

Int ID	Intersection	TCS	5.00–6.00 pm										
			App	Move	no.	OBS_LV	MOD_LV	DIFF_LV	GEH_LV	OBS_HV	MOD_HV	DIFF_HV	GEH_HV
I-22	Christie Street Lee Holm Road	Priority	E	T	159	1,128	1,198	70	2.1	35	31	-4	0.7
			E	L	160	5	0	-5	3.2	2	0	-2	2.0
			S	R	161	7	2	-5	2.4	1	0	-1	1.4
			S	L	162	86	76	-10	1.1	2	19	17	5.2
			W	R	163	6	34	28	6.3	3	2	-1	0.6
			W	T	164	659	650	-9	0.4	21	12	-9	2.2
I-23	Christie Street Dunheved Road Werrington Road	RBT	E	T	165	744	838	94	3.3	43	35	-8	1.3
			E	L	166	471	450	-21	1.0	19	14	-5	1.2
			S	R	167	256	172	-84	5.7	21	3	-18	5.2
			S	L	168	463	394	-69	3.3	21	7	-14	3.7
			W	R	169	314	246	-68	4.1	18	12	-6	1.5
			W	T	170	412	510	98	4.6	18	23	5	1.1
I-24	Werrington Road Great Western Highway	2385	N	R	171	373	408	35	1.8	5	24	19	5.0
			N	T	172	23	23	0	0.0	0	0	0	0.0
			N	L	173	246	171	-75	5.2	10	11	1	0.3
			E	R	174	370	264	-106	6.0	18	9	-9	2.4
			E	T	175	1,524	1,464	-60	1.6	42	60	18	2.5
			E	L	176	52	64	12	1.6	0	8	8	4.0
			S	R	177	34	51	17	2.6	0	0	0	0.0
			S	T	178	46	37	-9	1.4	0	0	0	0.0
			S	L	179	6	4	-2	0.9	0	0	0	0.0
			W	R	180	41	23	-18	3.2	0	0	0	0.0
			W	T	181	1,203	1,182	-21	0.6	30	42	12	2.0
			W	L	182	252	189	-63	4.2	1	9	8	3.6

Int ID	Intersection	TCS	5.00–6.00 pm										
			App	Move	no.	OBS_LV	MOD_LV	DIFF_LV	GEH_LV	OBS_HV	MOD_HV	DIFF_HV	GEH_HV
I-25	Dunheved Road John Oxley Avenue	Priority	E	T	183	892	910	18	0.6	33	31	-2	0.4
			E	L	184	182	233	51	3.5	0	11	11	4.7
			S	R	185	19	29	10	2.0	1	0	-1	1.4
			S	L	186	79	64	-15	1.8	1	1	0	0.0
			W	R	187	74	25	-49	7.0	2	3	1	0.6
			W	T	188	670	719	49	1.9	21	26	5	1.0
I-26	Christie Street Greenbank Drive East	4089	N	R	189	32	81	49	6.5	0	4	4	2.8
			N	T	190	21	13	-8	1.9	0	0	0	0.0
			N	L	191	74	63	-11	1.3	2	0	-2	2.0
			E	R	192	128	97	-31	2.9	1	1	0	0.0
			E	T	193	747	693	-54	2.0	26	32	6	1.1
			E	L	194	145	57	-88	8.8	7	0	-7	3.7
			S	R	195	136	132	-4	0.3	6	7	1	0.4
			S	T	196	47	33	-14	2.2	0	2	2	2.0
			S	L	197	37	46	9	1.4	1	0	-1	1.4
			W	R	198	53	85	32	3.9	1	7	6	3.0
			W	T	199	669	577	-92	3.7	19	14	-5	1.2
			W	L	200	29	57	28	4.3	1	5	4	2.3
I-27	Christie Street Greenbank Drive West	4054	N	R	201	128	115	-13	1.2	1	5	4	2.3
			N	L	202	33	52	19	2.9	0	9	9	4.2
			E	R	203	30	91	61	7.8	2	7	5	2.4
			E	T	204	788	733	-55	2.0	26	28	2	0.4
			W	T	205	719	680	-39	1.5	20	21	1	0.2
			W	L	206	139	129	-10	0.9	3	7	4	1.8

Int ID	Intersection	TCS	5.00–6.00 pm										
			App	Move	no.	OBS_LV	MOD_LV	DIFF_LV	GEH_LV	OBS_HV	MOD_HV	DIFF_HV	GEH_HV
I-28	Lakeside Parade Jordon Springs Boulevard	4443	N	R	207	123	69	-54	5.5	2	0	-2	2.0
			N	T	208	22	15	-7	1.6	0	0	0	0.0
			S	T	209	7	2	-5	2.4	1	0	-1	1.4
			S	L	210	94	169	75	6.5	3	3	0	0.0
			W	R	211	154	100	-54	4.8	1	1	0	0.0
			W	L	212	164	167	3	0.2	4	8	4	1.6
I-29	Greenwood Parkway Discovery Way	RBT	N	IN	213	53	41	-12	1.8	1	0	-1	1.4
			N	OUT	214	84	58	-26	3.1	0	2	2	2.0
			E	IN	215	200	221	21	1.4	10	11	1	0.3
			E	OUT	216	232	297	65	4.0	5	4	-1	0.5
			S	IN	217	89	55	-34	4.0	1	1	0	0.0
			S	OUT	218	80	55	-25	3.0	5	0	-5	3.2
			W	IN	219	356	406	50	2.6	7	8	1	0.4
			W	OUT	220	302	310	8	0.5	11	14	3	0.8
I-30	Ninth Avenue Terrybrook Road	RBT	N	IN	221	157	141	-16	1.3	4	1	-3	1.9
			N	OUT	222	66	59	-7	0.9	8	0	-8	4.0
			E	IN	223	383	454	71	3.5	15	9	-6	1.7
			E	OUT	224	138	173	35	2.8	8	8	0	0.0
			W	IN	225	201	209	8	0.6	11	8	-3	1.0
			W	OUT	226	537	573	36	1.5	19	10	-9	2.4

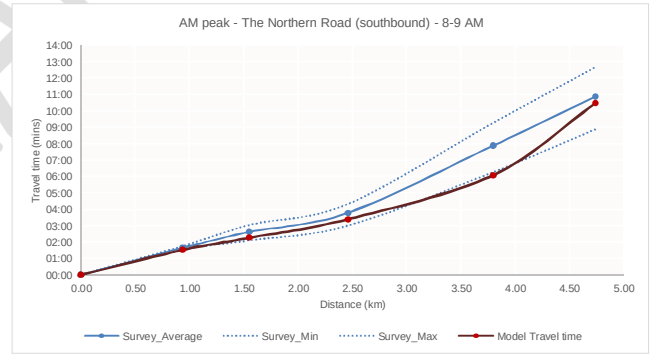
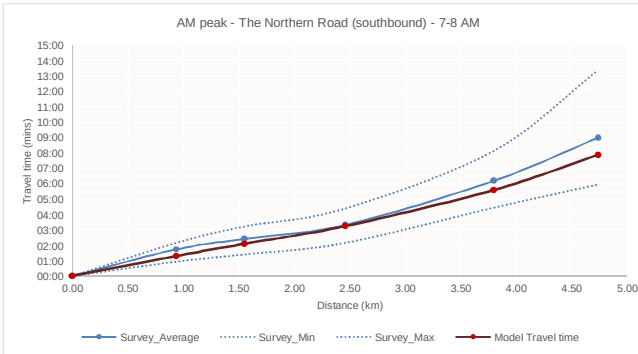
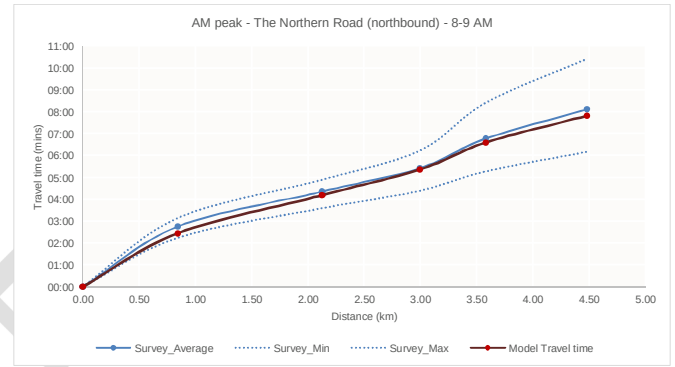
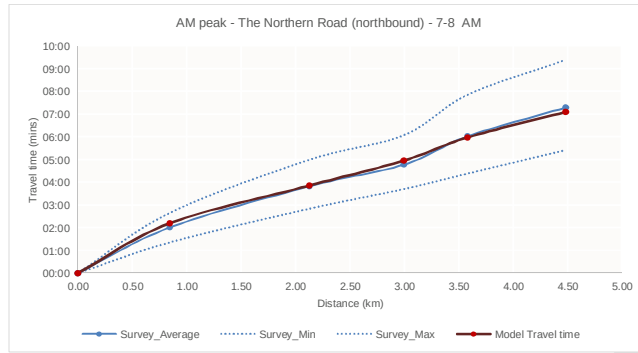
Appendix C

MODEL VALIDATION OUTPUTS

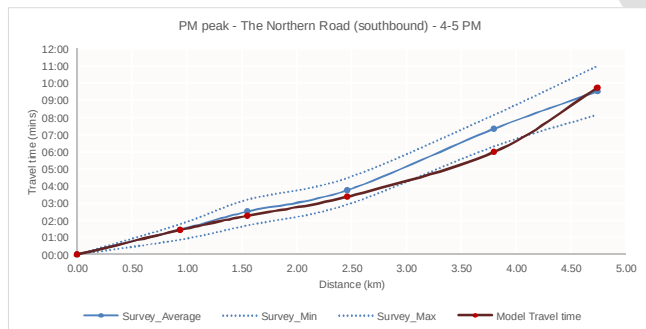
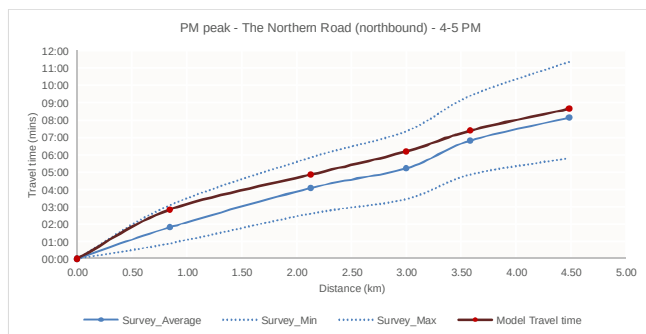
APPENDIX C-1 TRAVEL TIME VALIDATION

Route 1 – AM peak 7.00–8.00

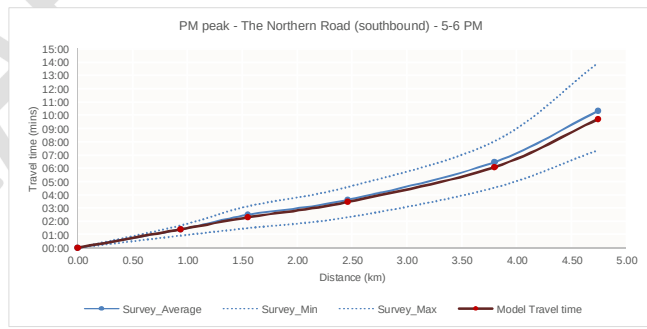
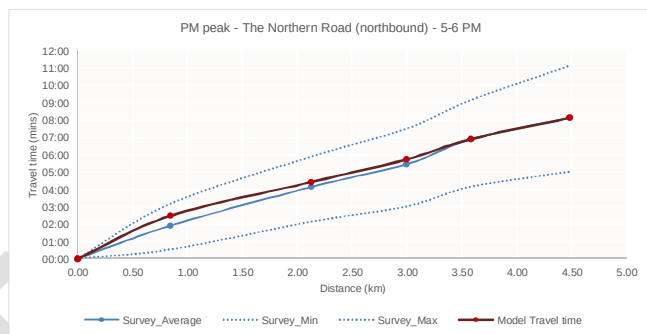
Route 1 – AM peak 8.00–9.00



Route 1 – PM peak 4.00–5.00

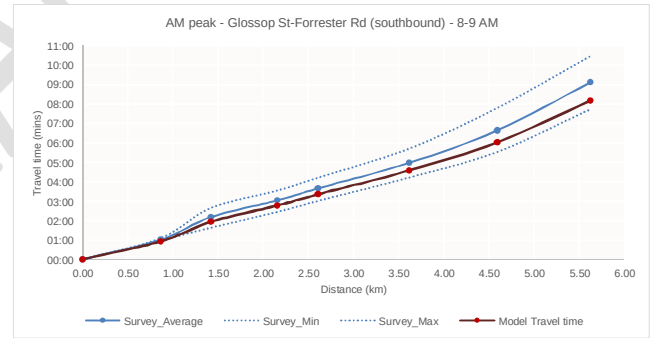
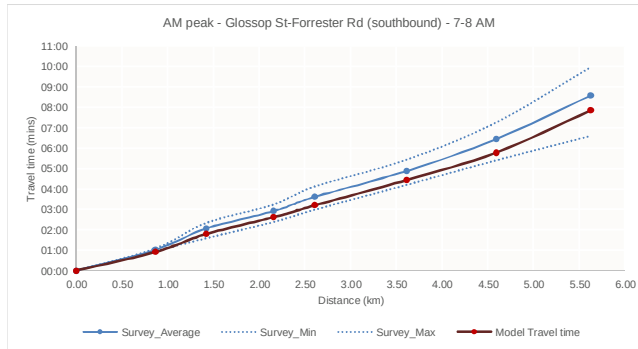
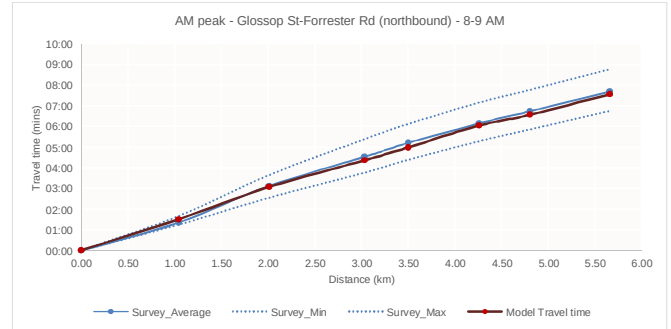
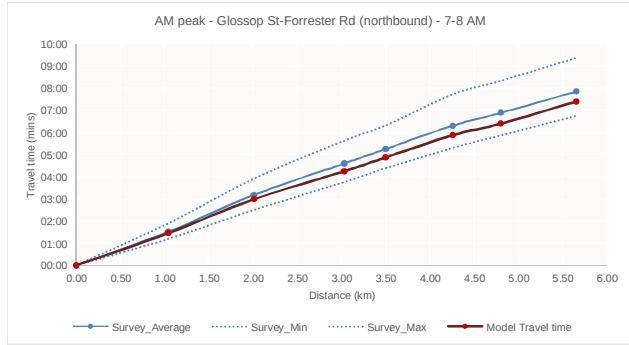


Route 1 – PM peak 5.00–6.00

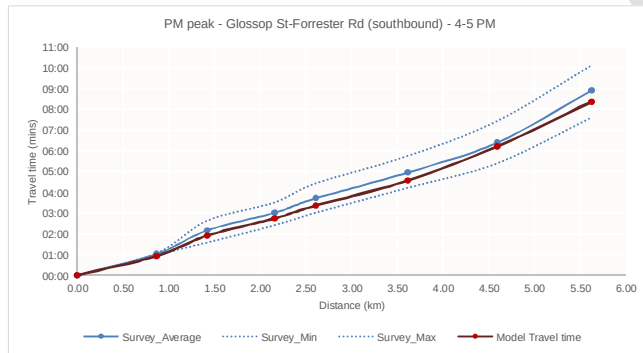
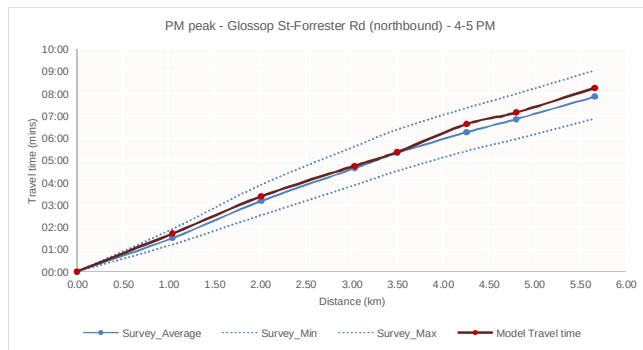


Route 2 – AM peak 7.00–8.00

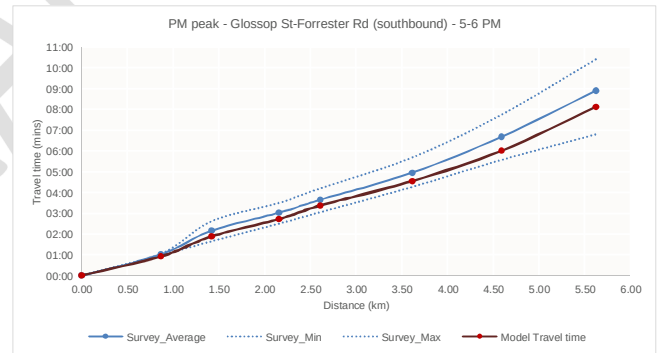
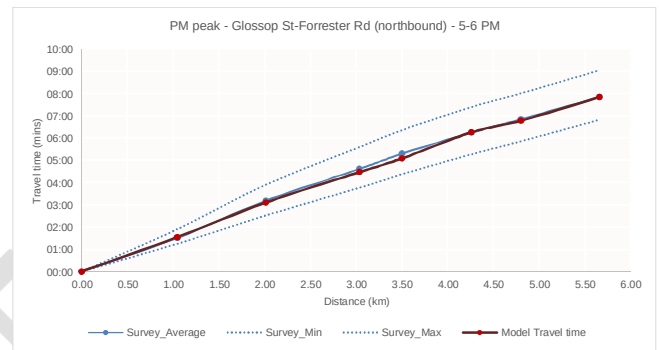
Route 2 – AM peak 8.00–9.00



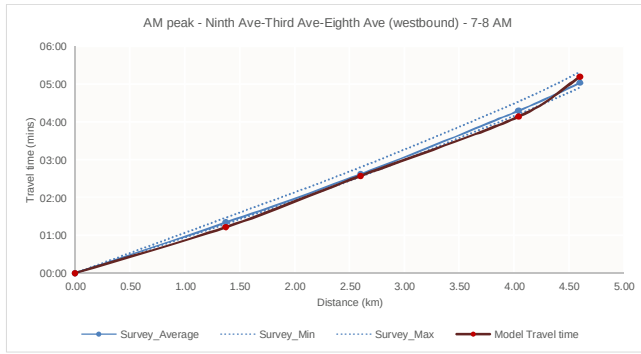
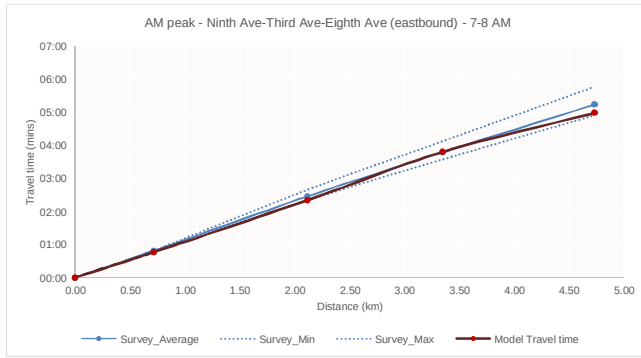
Route 2 – PM peak 4.00–5.00



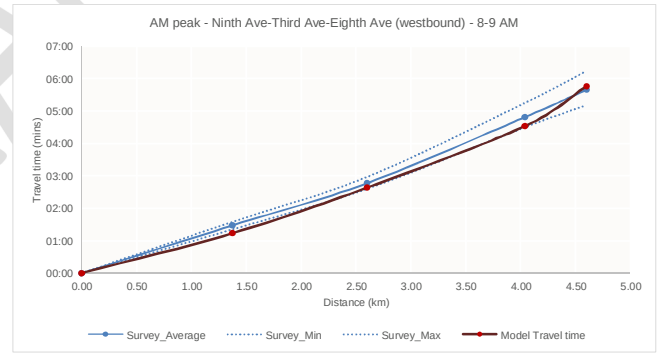
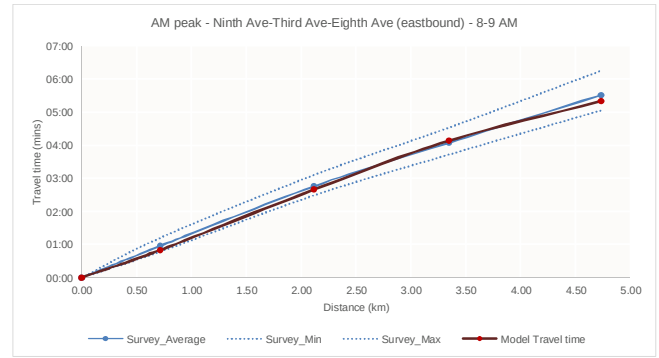
Route 2 – PM peak 5.00–6.00



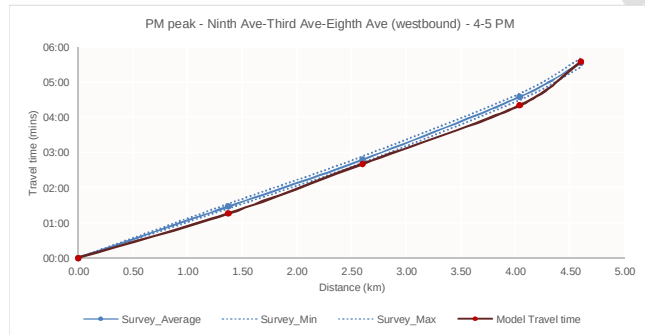
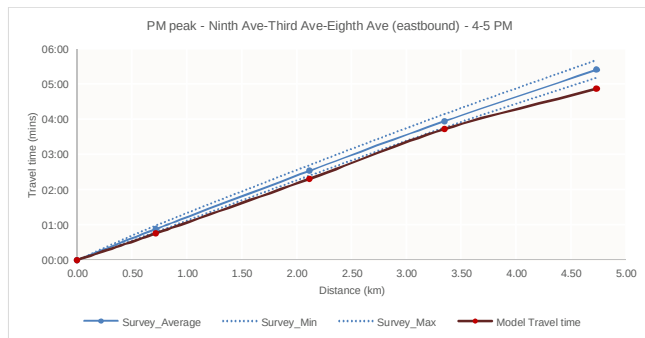
Route 3 – AM peak 7.00–8.00



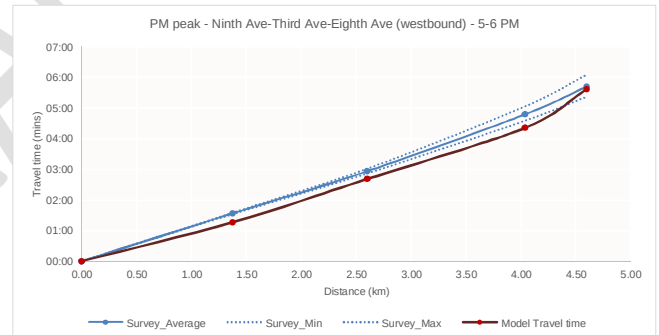
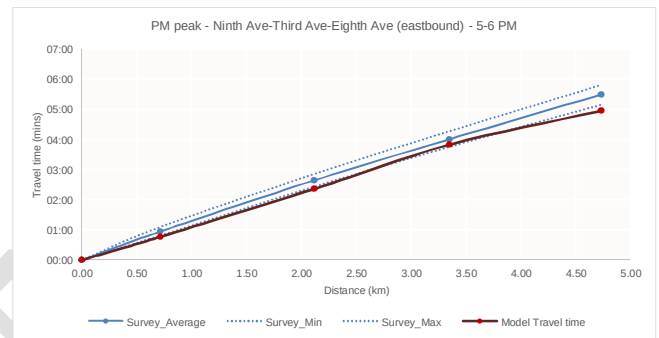
Route 3 – AM peak 8.00–9.00



Route 3 – PM peak 4.00–5.00

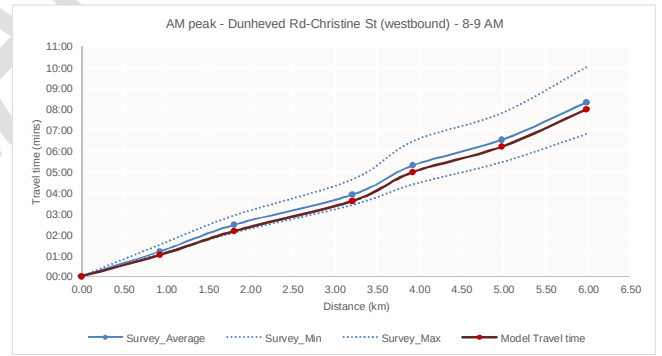
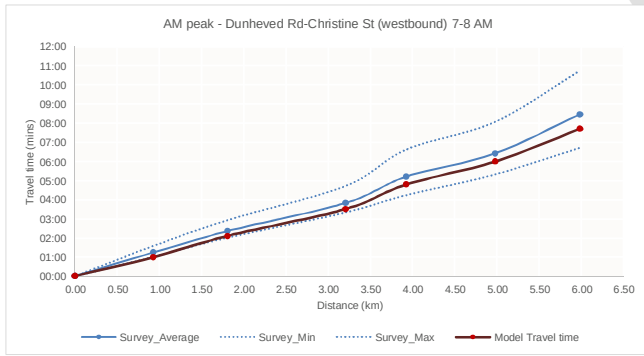
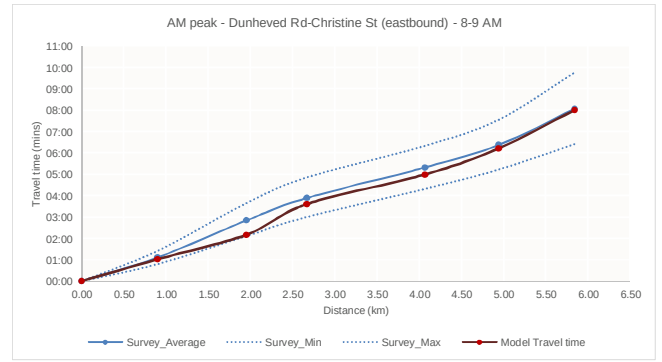
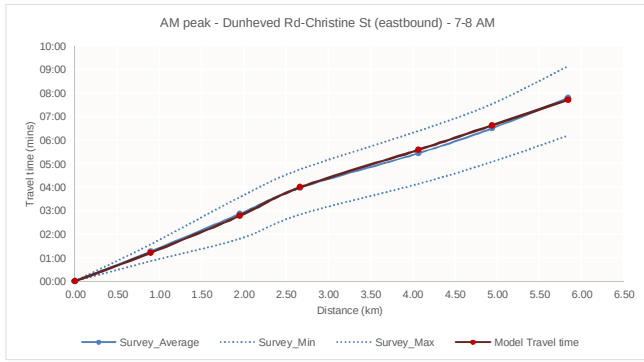


Route 3 – PM peak 5.00–6.00

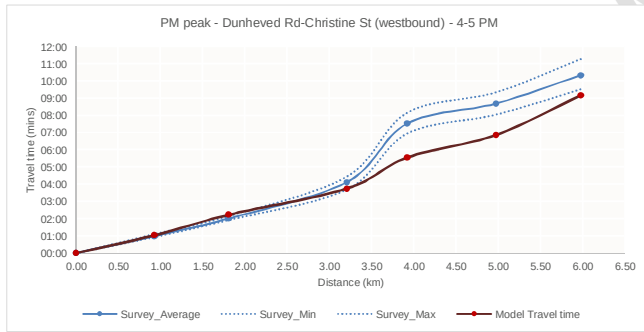
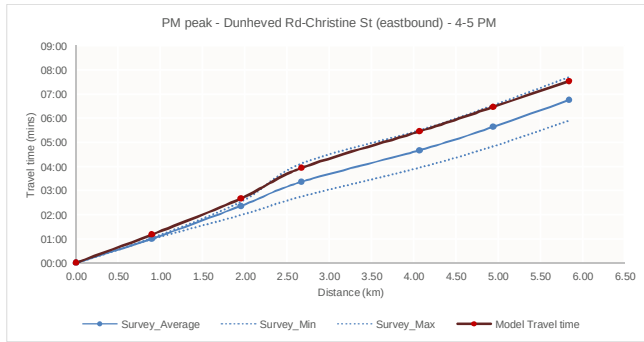


Route 4 – AM peak 7.00–8.00

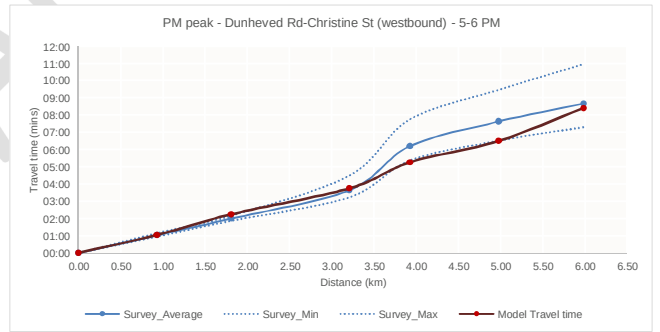
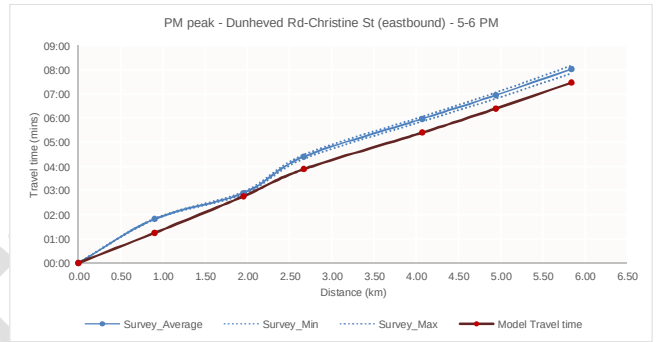
Route 4 – AM peak 8.00–9.00



Route 4 – PM peak 4.00–5.00

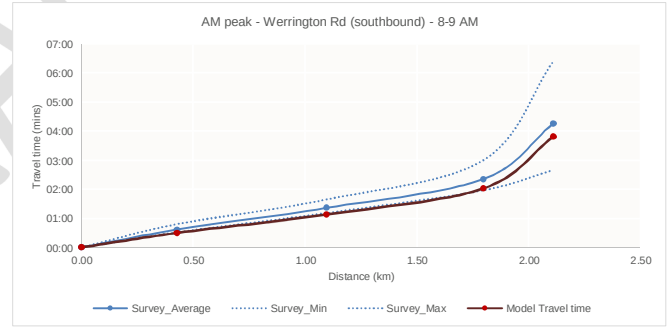
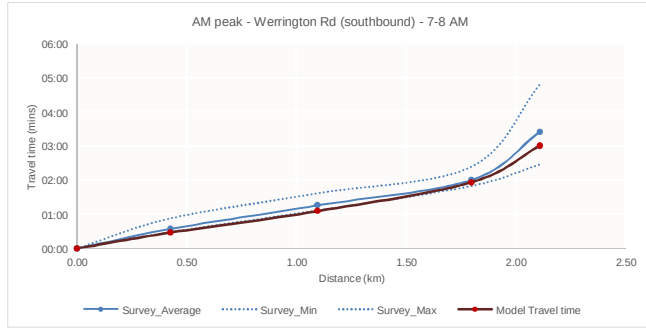
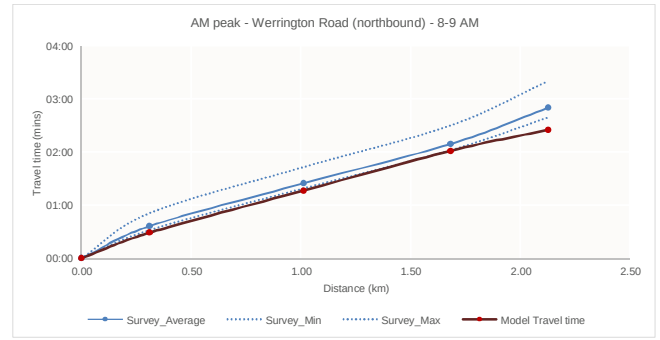
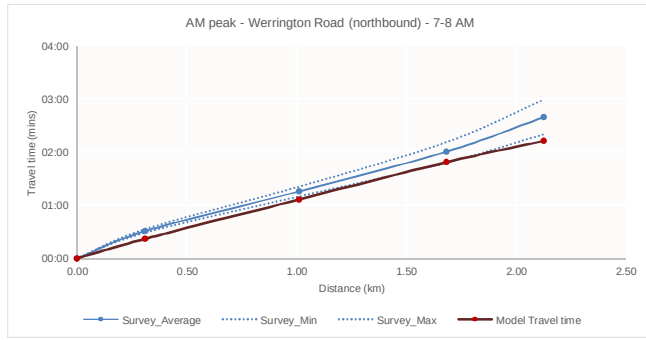


Route 4 – PM peak 5.00–6.00

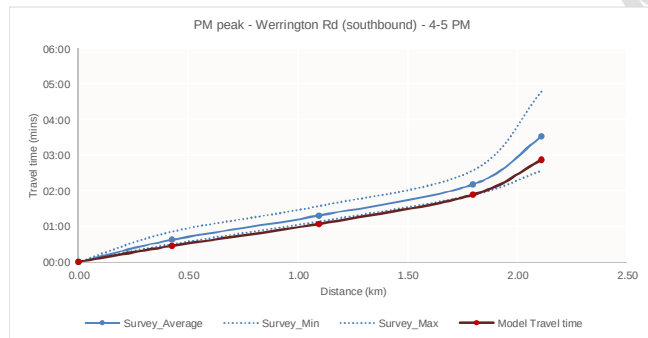
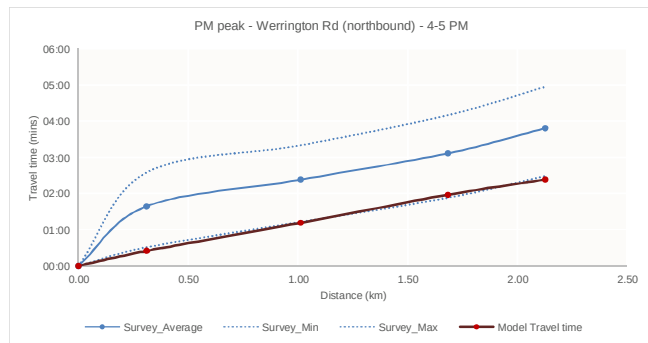


Route 5 – AM peak 7.00–8.00

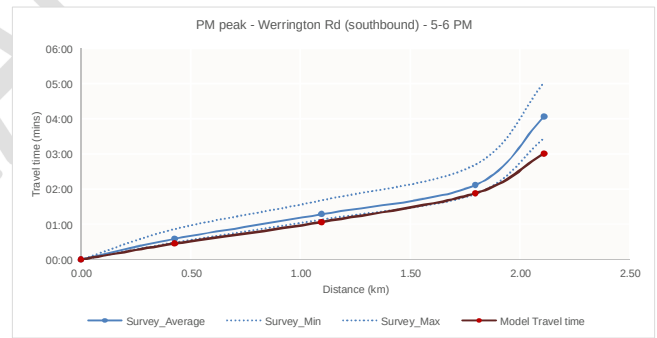
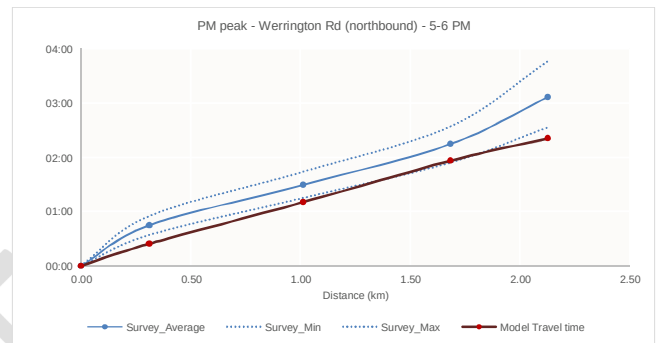
Route 5 – AM peak 8.00–9.00



Route 5 – PM peak 4.00–5.00

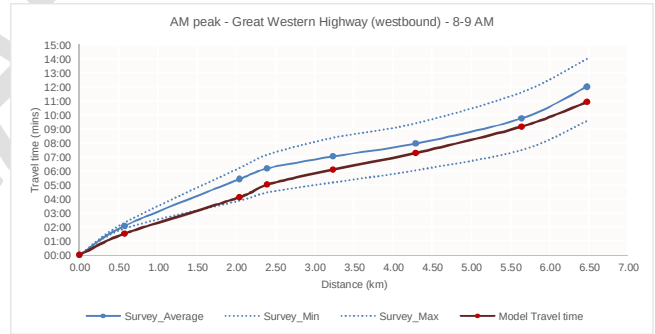
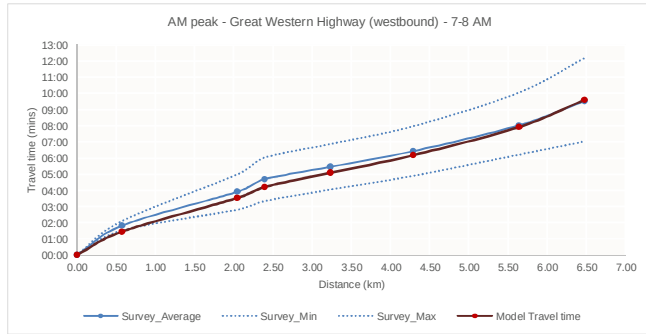
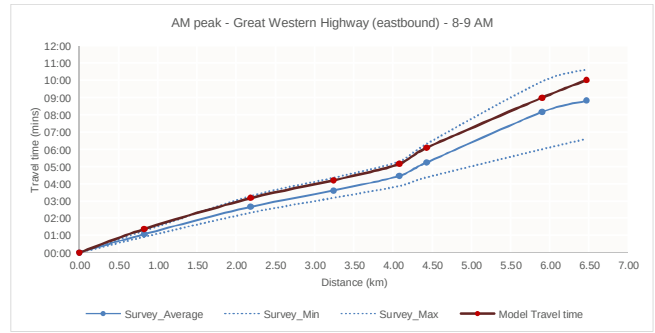
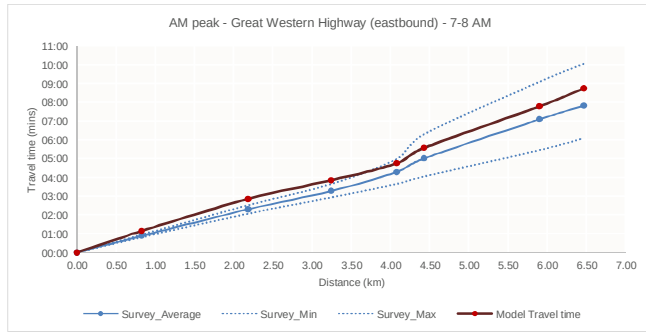


Route 5 – PM peak 5.00–6.00



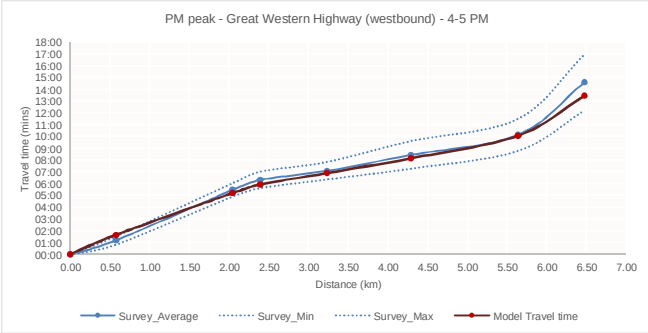
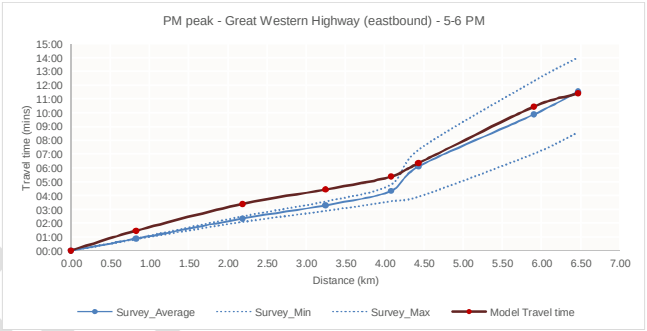
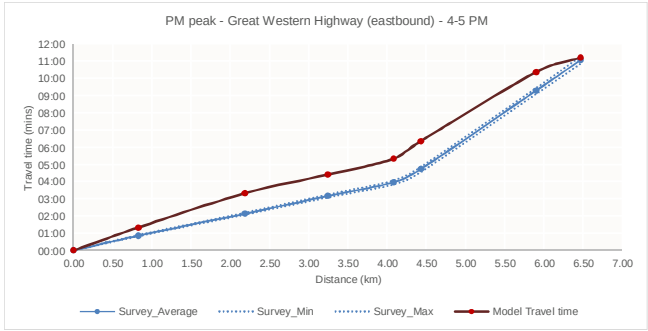
Route 6 – AM peak 7.00–8.00

Route 6 – AM peak 8.00–9.00



Route 6 – PM peak 4.00–5.00

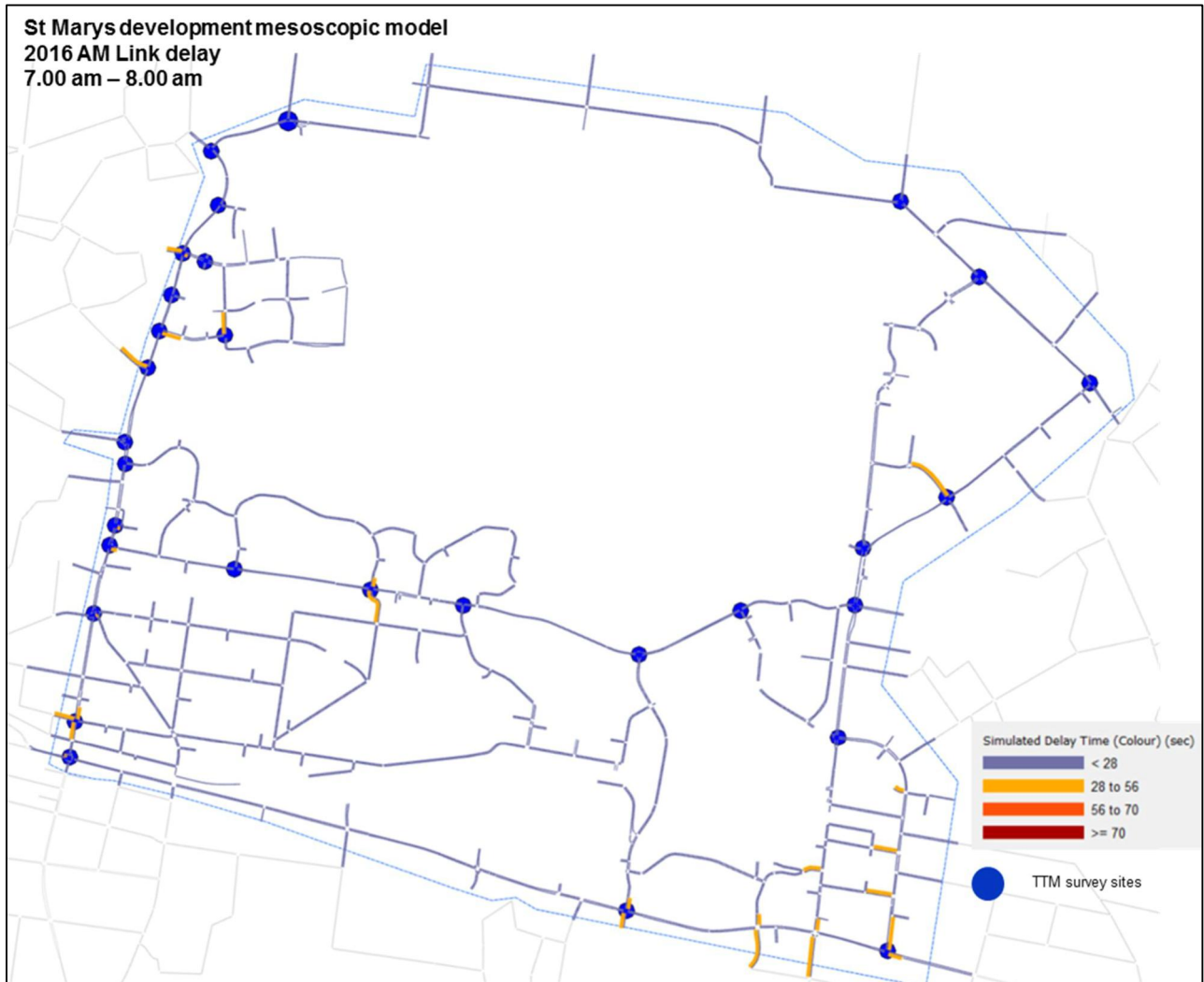
Route 6 – PM peak 5.00–6.00



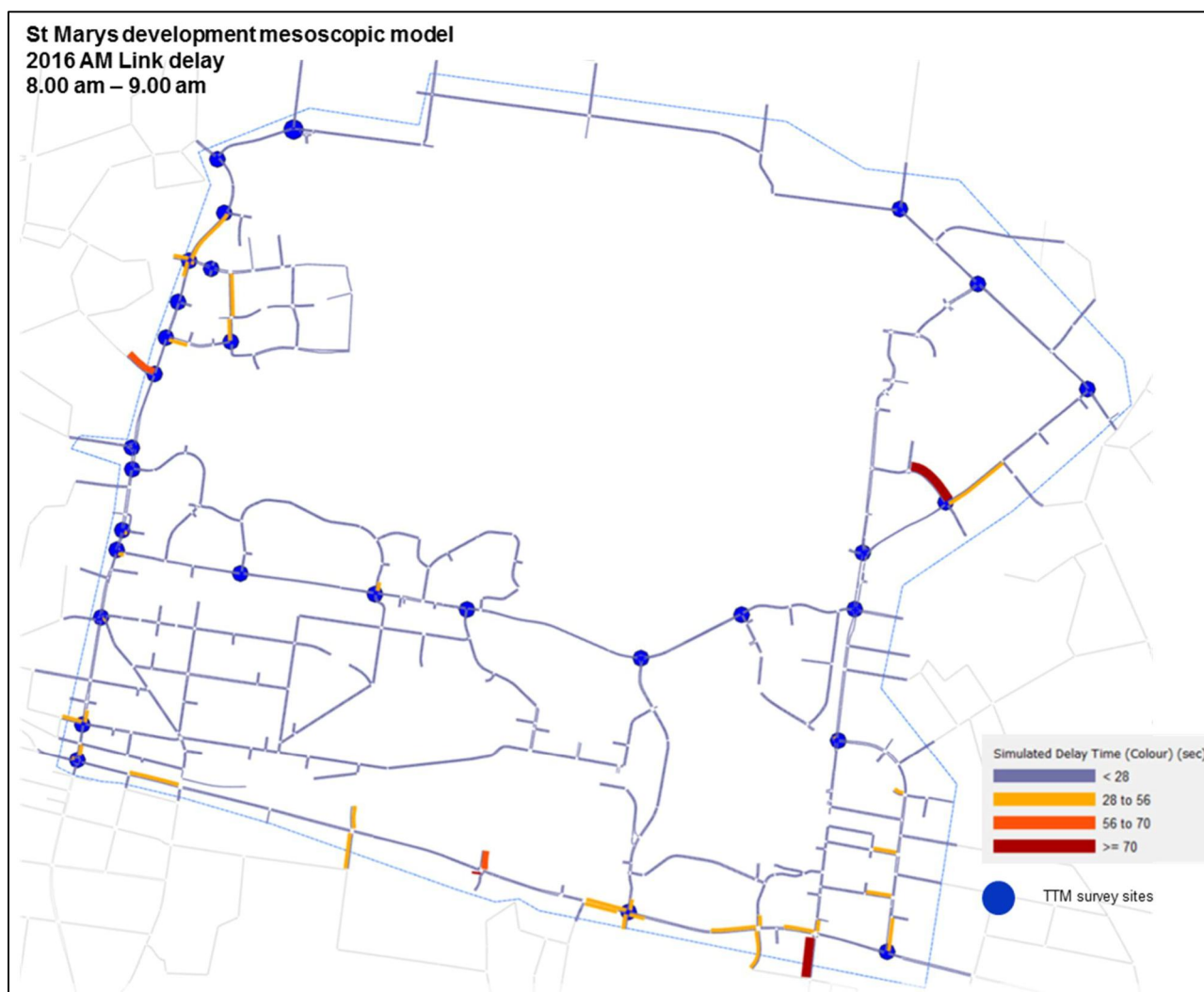
The sectional travel time survey results in westbound direction of PM peak 5-6 were deemed unreliable due to the road work on Great Western Highway, west of Glossop Street.

Appendix D

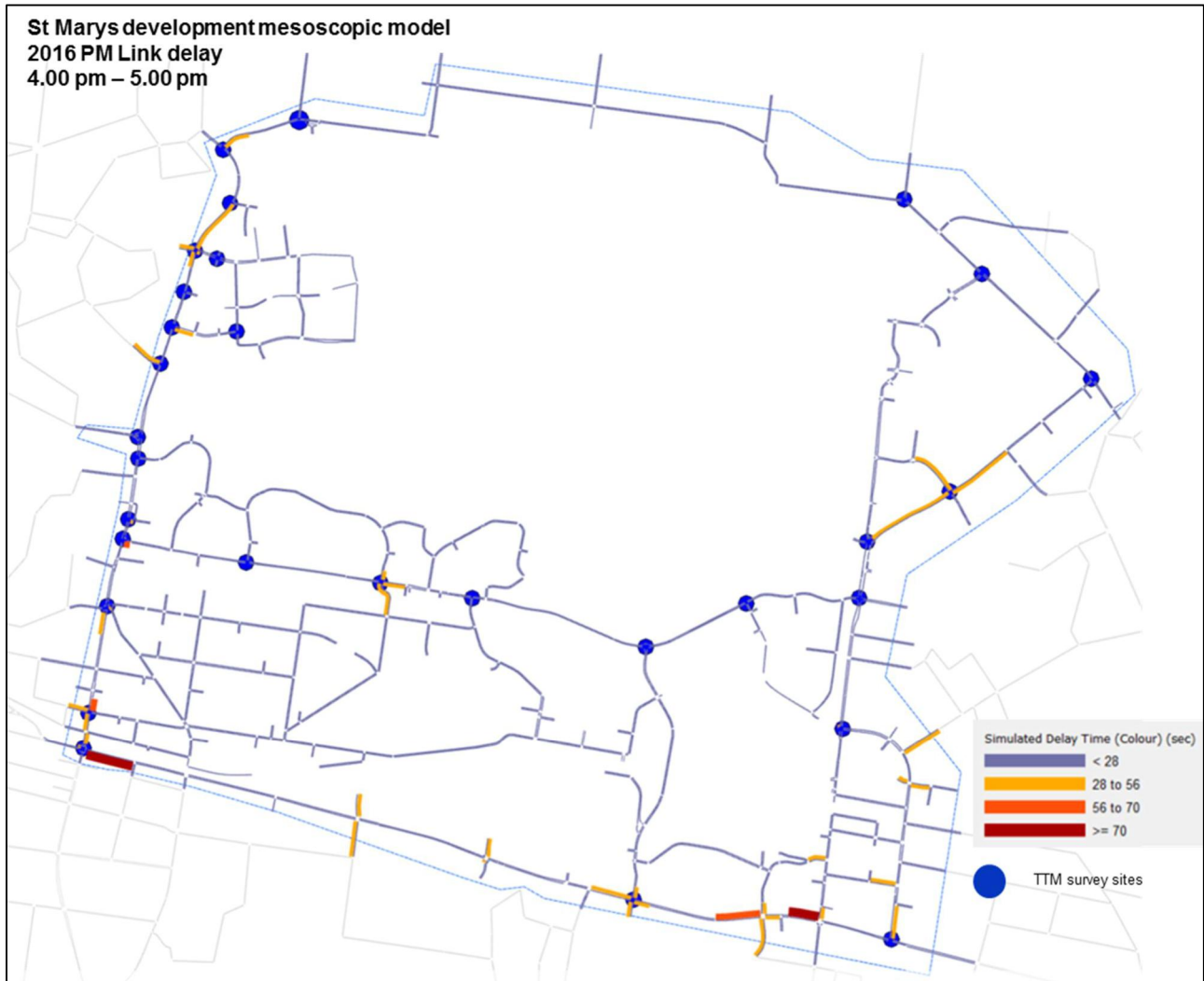
NETWORK DELAY PLOTS



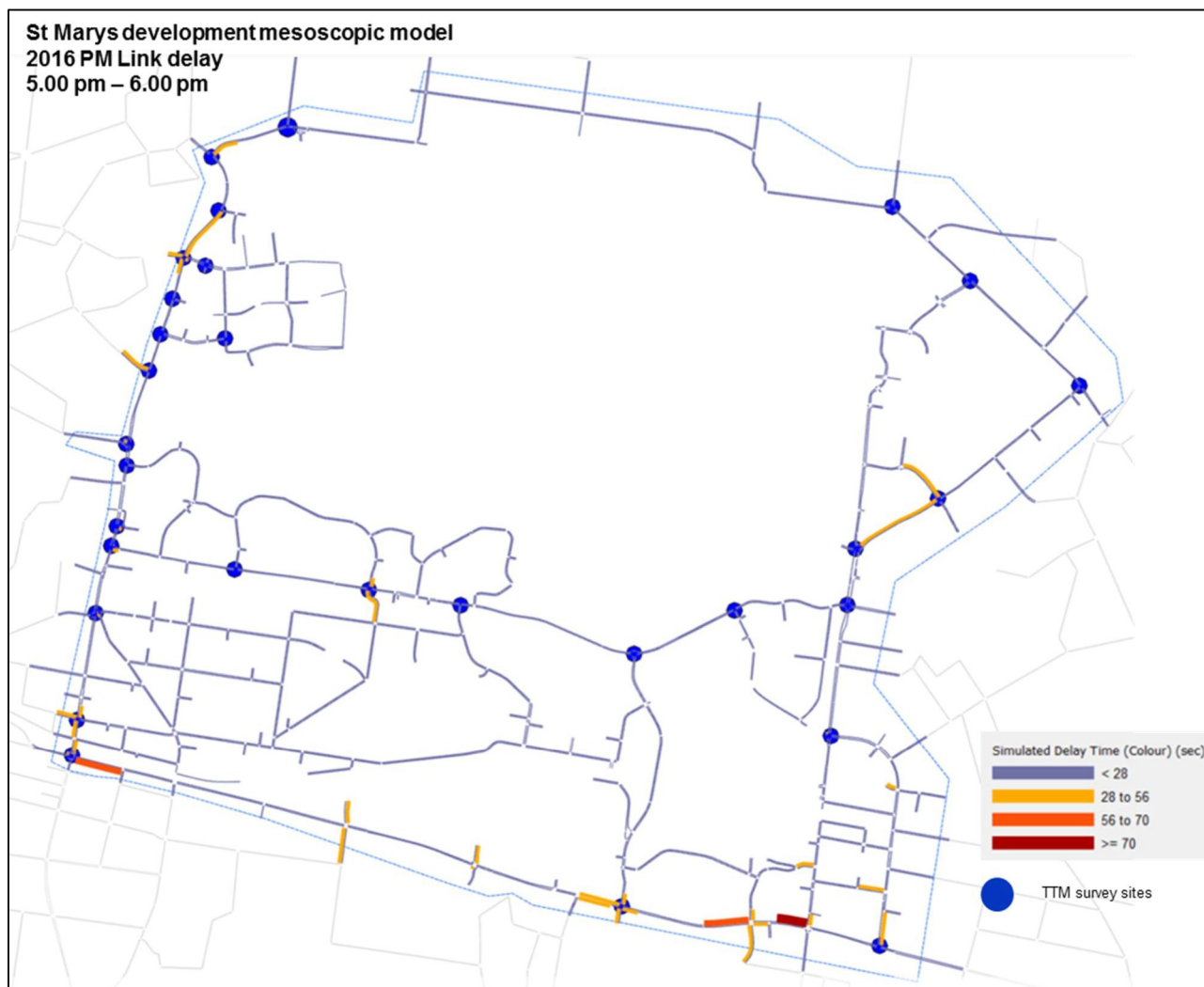
Network delay plot – 7.00 am to 8.00 am



Network delay plot – 8.00 am to 9.00 am



Network delay plot – 4.00 pm to 5.00 pm



Network delay plot – 5.00 pm to 6.00 pm

APPENDIX C

AIMSUN RESULTS



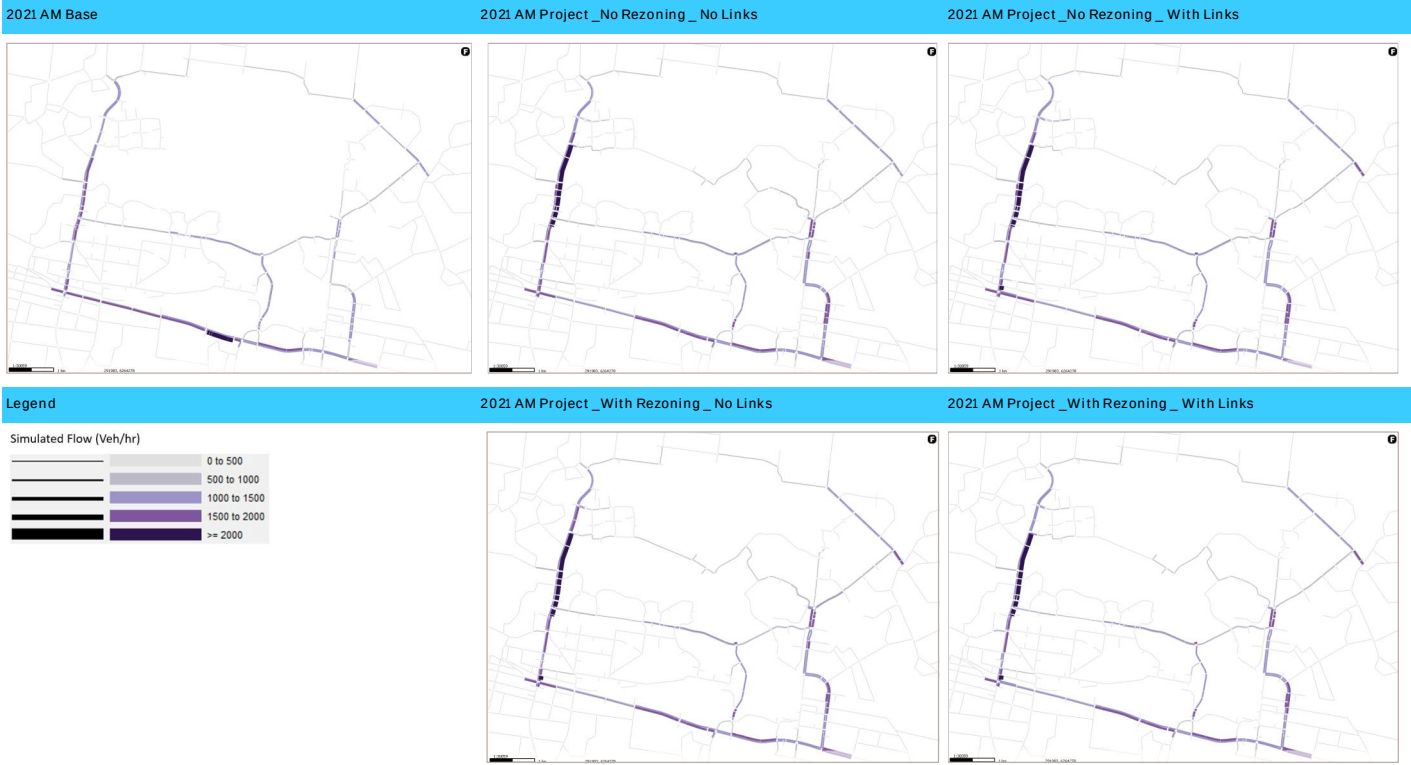


Figure C.1 Network flow - 2021 AM (8.00 am-9.00 am)



Figure C.2 Network flow – 2021 PM (5.00 pm–6.00 pm)

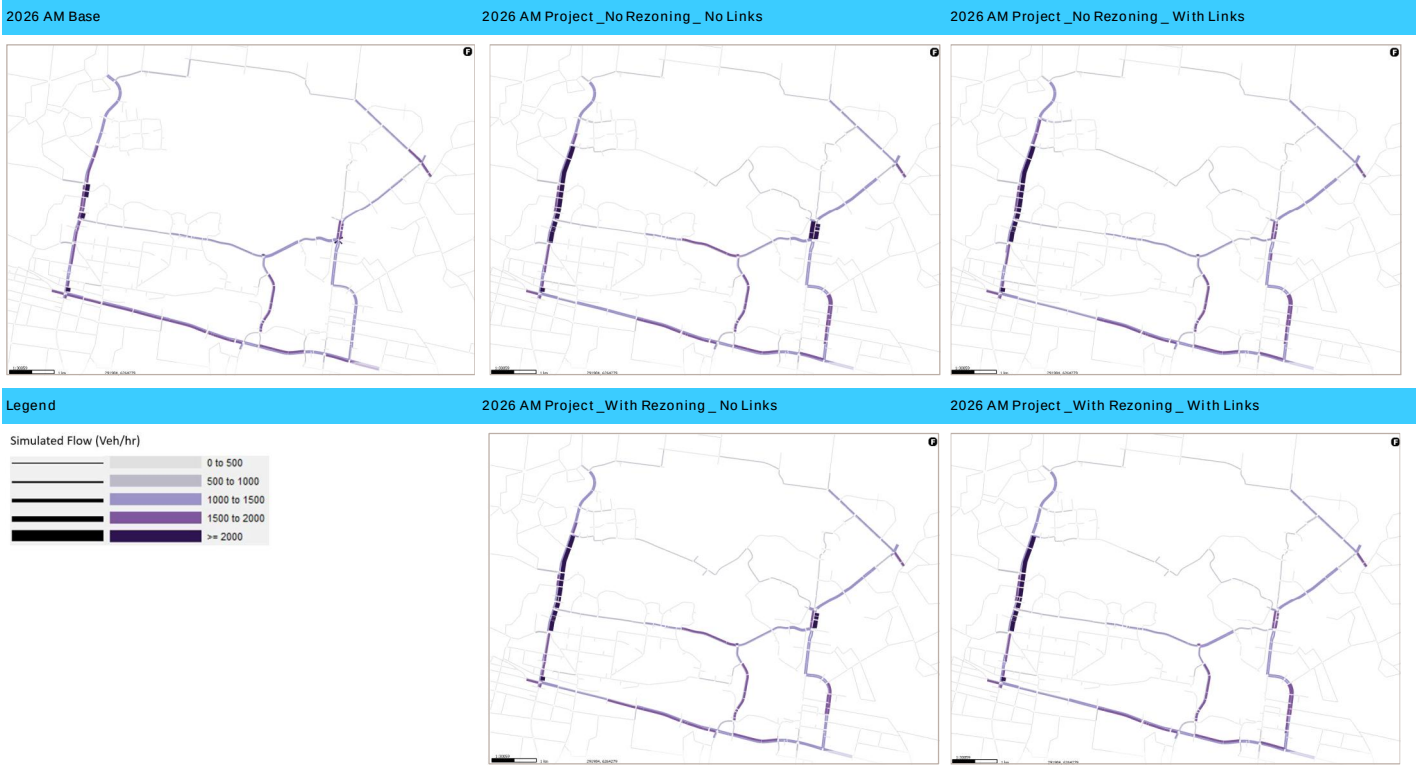


Figure C.3 Network flow – 2026 AM (8.00 am-9.00 am)

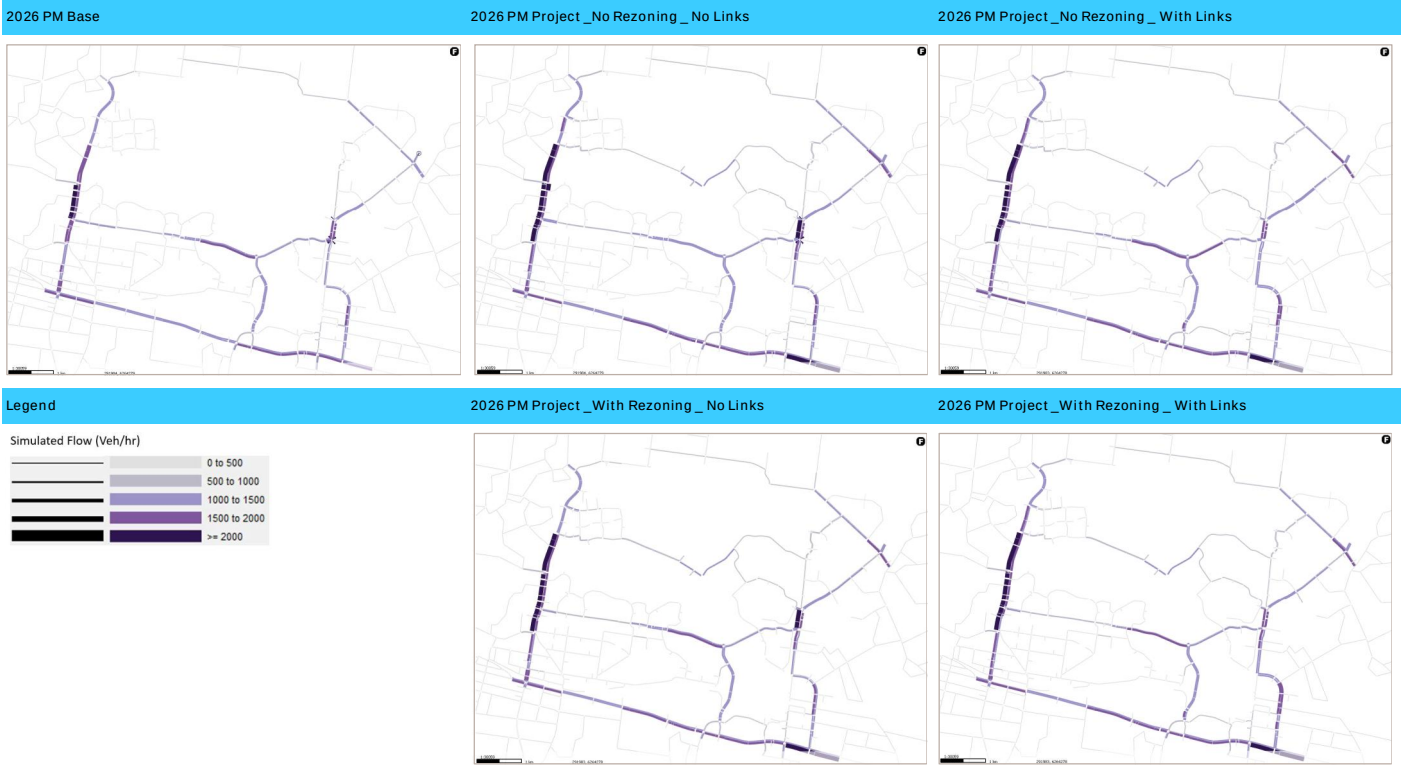


Figure C.4 Network flow – 2026 PM (5.00 pm–6.00 pm)

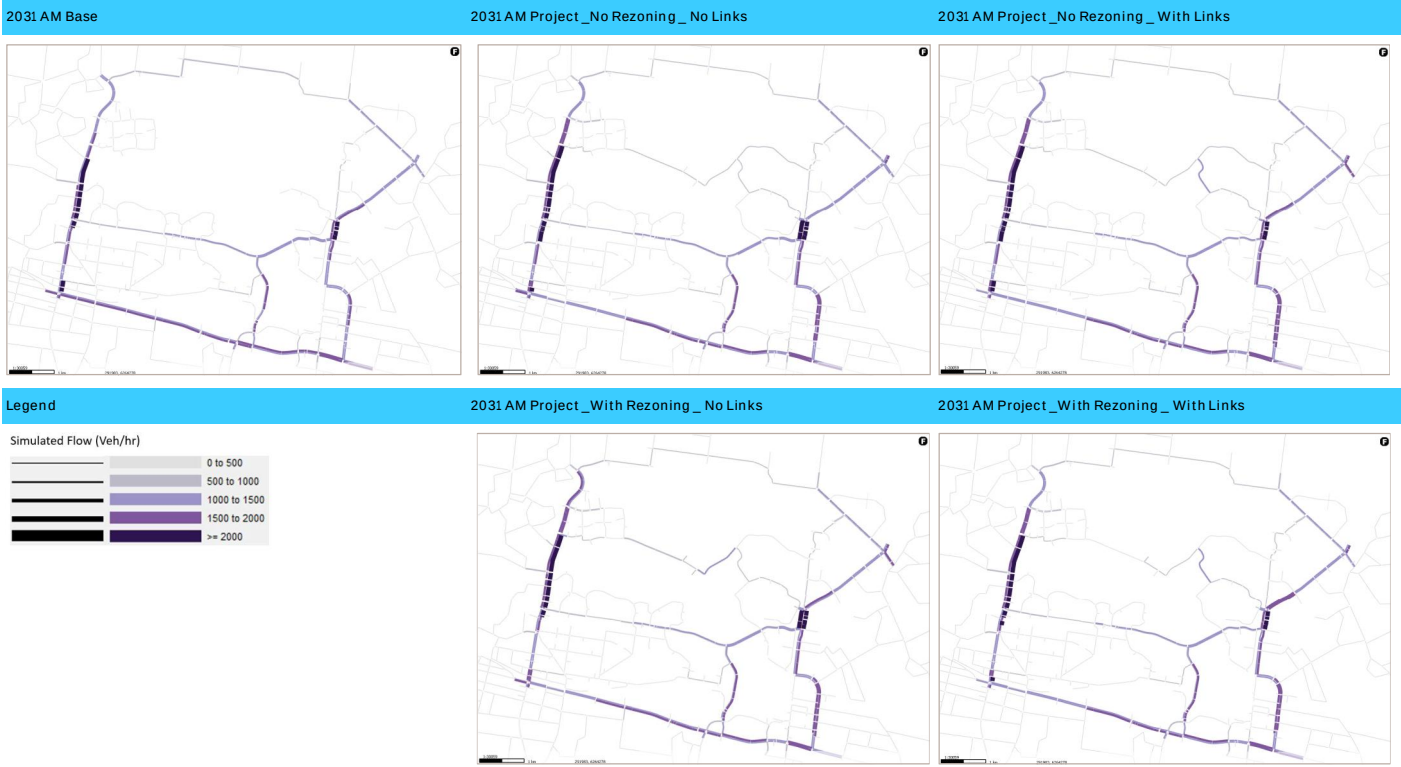


Figure C.5 Network flow – 2031 AM (8.00 am–9.00 am)

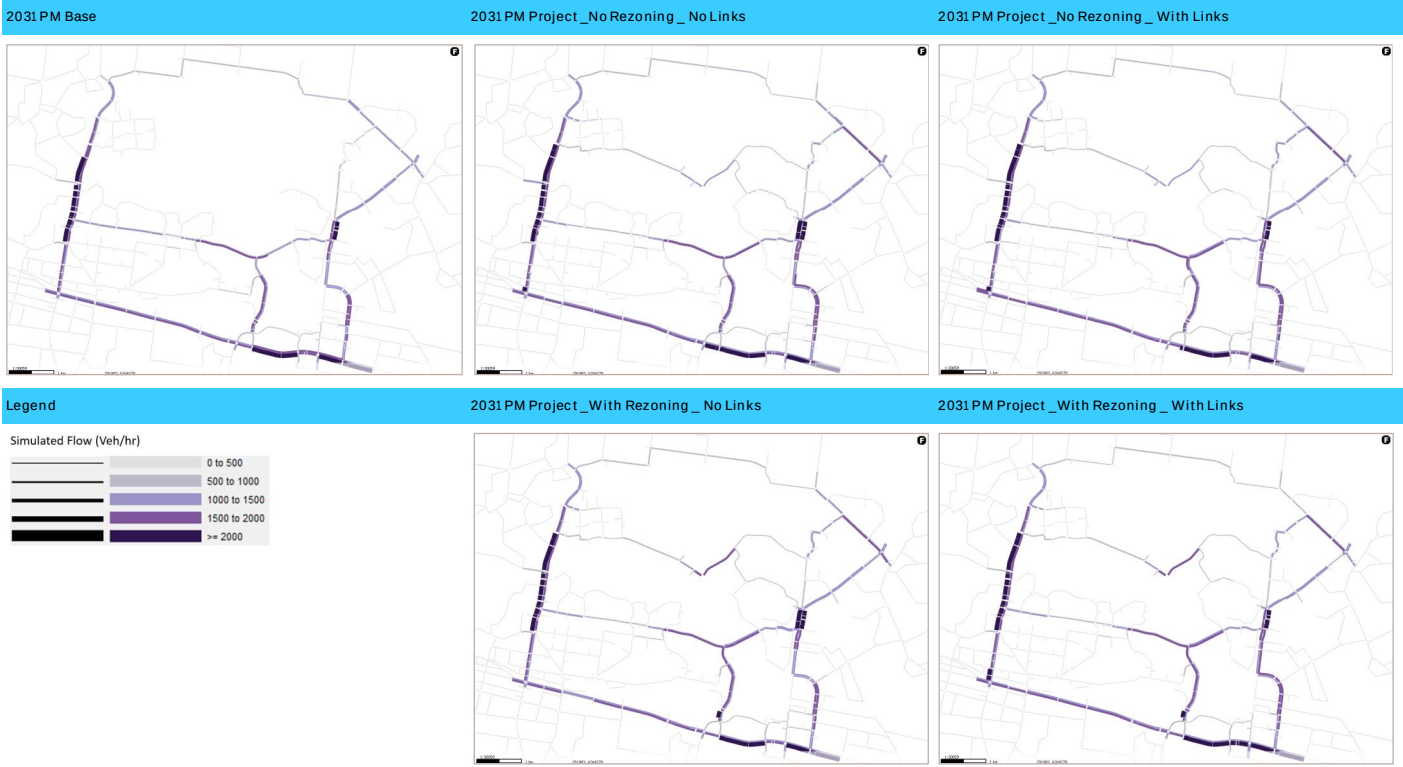


Figure C.6 Network flow – 2031 PM (5.00 pm–6.00 pm)