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REPUBLIC OF KENYA

A ROAD NETWORK DEVELOPMENT MASTER PLAN STUDY

FINAL REPORT

VOLUME II ANNEX I :

TRAFFIC SIMULATION RESULTS

MAY 1995

JAPAN INTERNATIONAL COOPERATION AGENCY

MINISTRY OF PUBLIC WORKS AND HOUSING

PACIFIC CONSULTANTS INTERNATIONAL (PCI)
CONSTRUCTION PROJECT CONSULTANTS (CPC)

DEVELOPMENT MASTER PLAN STUDY IN THE REPUBLIC OF KENYA FINAL REPORT VOLUME II ANNEX I: TRAFFIC SIMULATION RESULTS

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The following foreign exchange rate is applied in the study:
US$1.00=60.15Ksh (as of November 1994)

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Table 1 TRANPLAN Assignment Group code and Speed Decay Function

ASG code	Road Classification	Surface Type	Width (m)	Link Speed Decay at varying V/C ratio		
				0.00	1.00	1.33
0	Centroid Connector 1)	-	-	1.00	1.00	1.00-
1	Special Function 2)	-	-	1.00	1.00	1.00
2	Four lane Freeway 3)	Paved	14.0	1.00	0.50	0.25
3	Four lane Rural Arterial	Paved	14.0	1.00	0.53	0.22
4	Two lane Rural Arterial	Paved	> 6.5	1.00	0.57	0.24
5	Two lane Rural Arterial	Paved	5.5 - 6.5	1.00	0.62	0.25
6	Two lane Rural Arterial	Paved	4.5 - 5.4	1.00	0.67	0.28
7	Two lane Rural Arterial	Paved	< 4.5	1.00	0.73	0.30
8	Two lane Rural Arterial	Gravel, Earth	>= 4.5	1.00	0.44	0.22
9	Two lane Rural Arterial	Gravel, Earth	< 4.5	1.00	0.50	0.25

1) Link via which zonal trip activity is transferred to / from the roadway network.
2) Special functions including ferries
3) High - order facility with complete control of access. Freeway, motor way and Autobahn are synonymous terms.
4) Represents ideal width of four lane carriage way.

Table2 Link Group 1 (LG1)

LG1	District Name	LG1	District Name
0	not use	26	Kajiado
1	Kilifi	27	Kericho
2	Kwale	28	Bomet
3	Lamu	29	Laikipia
4	Mombasa	30	Nakuru
5	Taita Taveta	31	Nandi
6	Tana River	32	Narok
7	Garissa	33	Samburu
8	Mandera	34	Trans Nzoia
9	Wajir	35	Turkana
10	Embu	36	Uasin Gishu
11	Isiolo	37	West Pokot
12	Kitui	38	Kisii
13	Machakos	39	Nyamila
14	Makueni	40	Kisumu
15	Marsabit	41	Siaya
16	Meru	42	Homa Bay
17	Tharaka Nithi	43	Migori
18	Kiambu	44	Bungoma
19	Kirinyaga	45	Busia
20	Muranga	46	Kakamega
21	Nyandarua	47	Vihiga
22	Nyeri	48	Tanzania
23	Nairobi	49	Somalia
24	Baringo	50	Ethiopia, Sudan
25	Elgeyo Marakwet	51	Uganda

Table 3 Link Group 2 (LG2)

LG2	Road Function Class
0	Others
1	Class A
2	Class B
3	Class C

Table 4 Link Group 3 (LG3)

LG3	IRI
0	0
1	1
2	2
-	-
up to 20	up to 20
99	IRI is not available

Table 5 Trip Ends (Matatsu)

No.	DISTRICT	PROV.	TRIP ENDS (excluding intra traffic) 1994	2000	2005	2013	GROWTH FACTOR 1994	2000	2005	2013	RELATIVE DEMAND (%) 1994	2000	2005	2013
1	Kilifi	Coa	813	962	1,212	1,648	1.000	1.183	1.491	2.027	4.24	3.78	3.73	3.91
2	Kwale	Coa	194	255	369	536	1.000	1.314	1.902	2.763	1.01	1.00	1.14	1.27
3	Lamu	Coa	0	0	0	0	1.000	1.000	1.000	1.000	0.00	0.00	0.00	0.00
4	Monbasa	Coa	1,028	1,196	1,518	1,967	1.000	1.163	1.477	1.913	5.37	4.69	4.68	4.67
5	Taita	Coa	99	202	335	543	1.000	2.040	3.384	5.485	0.52	0.79	1.03	1.29
6	Tana River	Coa	0	0	0	0	1.000	1.000	1.000	1.000	0.00	0.00	0.00	0.00
7	Garissa	NE	6	19	36	58	1.000	3.167	6.000	9.667	0.03	0.07	0.11	0.14
8	Mandera	NE	0	0	0	0	1.000	1.000	1.000	1.000	0.00	0.00	0.00	0.00
9	Wajir	NE	0	0	0	0	1.000	1.000	1.000	1.000	0.00	0.00	0.00	0.00
10	Embu	Eas	105	139	197	293	1.000	1.324	1.876	2.790	0.55	0.55	0.61	0.70
11	Isiolo	Eas	18	39	64	103	1.000	2.167	3.556	5.722	0.09	0.15	0.20	0.24
12	Kitui	Eas	261	319	367	407	1.000	1.222	1.406	1.559	1.36	1.25	1.13	0.97
13	Machakos	Eas	714	850	1,100	1,493	1.000	1.190	1.541	2.091	3.73	3.34	3.39	3.54
14	Makueni	Eas	113	120	124	122	1.000	1.062	1.097	1.080	0.59	0.47	0.38	0.29
15	Marsabit	Eas	2	10	20	32	1.000	5.000	10.000	16.000	0.01	0.04	0.06	0.08
16	Meru	Eas	290	362	510	745	1.000	1.248	1.759	2.569	1.51	1.42	1.57	1.77
17	Tharaka Nithi	Eas	11	18	31	55	1.000	1.636	2.818	5.000	0.06	0.07	0.10	0.13
18	Kiambu	Cen	2,145	2,783	3,366	4,092	1.000	1.297	1.569	1.908	11.20	10.92	10.37	9.71
19	Kirinyaga	Cen	32	152	291	536	1.000	4.750	9.094	16.750	0.17	0.60	0.90	1.27
20	Muranga	Cen	982	1,365	1,767	2,376	1.000	1.390	1.799	2.420	5.13	5.36	5.44	5.64
21	Nyandarua	Cen	375	481	572	688	1.000	1.283	1.525	1.835	1.96	1.89	1.76	1.63
22	Nyeri	Cen	546	789	1,034	1,394	1.000	1.445	1.894	2.553	2.85	3.10	3.18	3.31
23	Nairobi	NBO	4,274	5,835	7,528	9,892	1.000	1.365	1.761	2.314	22.31	22.90	23.19	23.48
24	Baringo	Rif	79	124	166	221	1.000	1.570	2.101	2.797	0.41	0.49	0.51	0.52
25	Elgeyo Marakwet	Rif	10	39	68	110	1.000	3.900	6.800	11.000	0.05	0.15	0.21	0.26
26	Kajiado	Rif	264	330	389	468	1.000	1.250	1.473	1.773	1.38	1.30	1.20	1.11
27	Kericho	Rif	406	712	989	1,349	1.000	1.754	2.436	3.323	2.12	2.79	3.05	3.20
28	Bomet	Rif	7	33	53	79	1.000	4.714	7.571	11.286	0.04	0.13	0.16	0.19
29	Laikipia	Rif	223	280	350	425	1.000	1.256	1.570	1.906	1.16	1.10	1.08	1.01
30	Nakuru	Rif	1,131	1,603	2,041	2,613	1.000	1.417	1.805	2.310	5.90	6.29	6.29	6.20
31	Nandi	Rif	18	164	309	526	1.000	9.111	17.167	29.222	0.09	0.64	0.95	1.25
32	Narok	Rif	118	164	211	278	1.000	1.390	1.788	2.356	0.62	0.64	0.65	0.66
33	Samburu	Rif	25	41	57	75	1.000	1.640	2.280	3.000	0.13	0.16	0.18	0.18
34	Trans Nzoia	Rif	340	492	634	828	1.000	1.447	1.865	2.435	1.77	1.93	1.95	1.97
35	Turkana	Rif	2	6	12	15	1.000	3.000	6.000	7.500	0.01	0.02	0.04	0.04
36	Uasin Gishu	Rif	520	765	1,001	1,331	1.000	1.471	1.925	2.560	2.71	3.00	3.08	3.16
37	West Pokot	Rif	20	44	66	96	1.000	2.200	3.300	4.800	0.10	0.17	0.20	0.23
38	Kisii	Nya	386	494	637	852	1.000	1.280	1.650	2.207	2.02	1.94	1.96	2.02
39	Nyamira	Nya	6	22	42	68	1.000	3.667	7.000	11.333	0.03	0.09	0.13	0.16
40	Kisumu	Nya	1,416	1,690	2,032	2,459	1.000	1.194	1.435	1.737	7.39	6.63	6.26	5.84
41	Siaya	Nya	388	434	476	500	1.000	1.119	1.227	1.289	2.03	1.70	1.47	1.19
42	Homa Bay	Nya	195	219	251	290	1.000	1.123	1.287	1.487	1.02	0.86	0.77	0.69
43	Migori	Nya	360	403	440	462	1.000	1.119	1.222	1.283	1.88	1.58	1.36	1.10
44	Bungoma	Wes	124	200	274	382	1.000	1.613	2.210	3.081	0.65	0.78	0.84	0.91
45	Busia	Wes	210	269	325	385	1.000	1.281	1.548	1.833	1.10	1.06	1.00	0.91
46	Kakamega	Wes	540	669	794	943	1.000	1.239	1.470	1.746	2.82	2.63	2.45	2.24
47	Vihiga	Wes	347	375	391	376	1.000	1.081	1.127	1.084	1.81	1.47	1.20	0.89
48	Tanzania	Out	9	10	14	17	1.000	1.111	1.556	1.889	0.05	0.04	0.04	0.04
49	Somalia	Out	0	0	0	0	1.000	1.000	1.000	1.000	0.00	0.00	0.00	0.00
50	Ethiopia/Sudan	Out	0	0	0	0	1.000	1.000	1.000	1.000	0.00	0.00	0.00	0.00
51	Uganda	Out	4	4	5	6	1.000	1.000	1.250	1.500	0.02	0.02	0.02	0.01
	TOTAL		19,156	25,482	32,468	42,134	1.000	1.330	1.695	2.200	100.00	100.00	100.00	100.00

Table 5 Trip Ends (Bus)

No.	DISTRICT	PROV.	TRIP ENDS (excluding intra traffic) 1994	2000	2005	2013	GROWTH FACTOR 1994	2000	2005	2013	RELATIVE DEMAND (%) 1994	2000	2005	2013
1	Kilifi	Coa	131	151	184	233	1.000	1.153	1.405	1.779	4.16	3.69	3.59	3.56
2	Kwale	Coa	110	115	124	133	1.000	1.045	1.127	1.209	3.50	2.81	2.42	2.03
3	Lamu	Coa	16	22	26	30	1.000	1.375	1.625	1.875	0.51	0.54	0.51	0.46
4	Monbasa	Coa	393	426	502	583	1.000	1.084	1.277	1.483	12.49	10.41	9.80	8.90
5	Taita	Coa	21	35	47	66	1.000	1.667	2.238	3.143	0.67	0.86	0.92	1.01
6	Tana River	Coa	14	20	26	34	1.000	1.429	1.857	2.429	0.45	0.49	0.51	0.52
7	Garissa	NE	17	20	24	26	1.000	1.176	1.412	1.529	0.54	0.49	0.47	0.40
8	Mandera	NE	0	0	0	0	1.000	1.000	1.000	1.000	0.00	0.00	0.00	0.00
9	Wajir	NE	0	0	0	0	1.000	1.000	1.000	1.000	0.00	0.00	0.00	0.00
10	Embu	Eas	22	26	29	36	1.000	1.182	1.318	1.636	0.70	0.64	0.57	0.55
11	Isiolo	Eas	10	16	23	32	1.000	1.600	2.300	3.200	0.32	0.39	0.45	0.49
12	Kitui	Eas	115	118	121	117	1.000	1.026	1.052	1.017	3.66	2.88	2.36	1.79
13	Machakos	Eas	67	87	126	192	1.000	1.299	1.881	2.866	2.13	2.13	2.46	2.93
14	Makueni	Eas	1	1	2	3	1.000	1.000	2.000	3.000	0.03	0.02	0.04	0.05
15	Marsabit	Eas	0	0	0	0	1.000	1.000	1.000	1.000	0.00	0.00	0.00	0.00
16	Meru	Eas	57	70	90	121	1.000	1.228	1.579	2.123	1.81	1.71	1.76	1.85
17	Tharaka Nithi	Eas	2	3	5	8	1.000	1.500	2.500	4.000	0.06	0.07	0.10	0.12
18	Kiambu	Cen	76	120	163	230	1.000	1.579	2.145	3.026	2.42	2.93	3.18	3.51
19	Kirinyaga	Cen	5	15	24	41	1.000	3.000	4.800	8.200	0.16	0.37	0.47	0.63
20	Muranga	Cen	5	37	67	119	1.000	7.400	13.400	23.800	0.16	0.90	1.31	1.82
21	Nyandarua	Cen	64	73	81	89	1.000	1.141	1.266	1.391	2.03	1.78	1.58	1.36
22	Nyeri	Cen	50	97	140	211	1.000	1.940	2.800	4.220	1.59	2.37	2.73	3.22
23	Nairobi	NBO	886	1,216	1,575	2,054	1.000	1.372	1.778	2.318	28.16	29.72	30.75	31.34
24	Baringo	Rif	15	19	22	27	1.000	1.267	1.467	1.800	0.48	0.46	0.43	0.41
25	Elgeyo Marakwet	Rif	0	0	0	0	1.000	1.000	1.000	1.000	0.00	0.00	0.00	0.00
26	Kajiado	Rif	18	33	48	68	1.000	1.833	2.667	3.778	0.57	0.81	0.94	1.04
27	Kericho	Rif	34	46	57	68	1.000	1.353	1.676	2.000	1.08	1.12	1.11	1.04
28	Bomet	Rif	8	9	9	10	1.000	1.125	1.125	1.250	0.25	0.22	0.18	0.15
29	Laikipia	Rif	12	24	33	47	1.000	2.000	2.750	3.917	0.38	0.59	0.64	0.72
30	Nakuru	Rif	177	257	319	412	1.000	1.452	1.802	2.328	5.63	6.28	6.23	6.29
31	Nandi	Rif	2	10	14	22	1.000	5.000	7.000	11.000	0.06	0.24	0.27	0.34
32	Narok	Rif	10	17	24	33	1.000	1.700	2.400	3.300	0.32	0.42	0.47	0.50
33	Samburu	Rif	0	0	0	0	1.000	1.000	1.000	1.000	0.00	0.00	0.00	0.00
34	Trans Nzoia	Rif	36	56	70	91	1.000	1.556	1.944	2.528	1.14	1.37	1.37	1.39
35	Turkana	Rif	4	4	4	4	1.000	1.000	1.000	1.000	0.13	0.10	0.08	0.06
36	Uasin Gishu	Rif	39	83	118	173	1.000	2.128	3.026	4.436	1.24	2.03	2.30	2.64
37	West Pokot	Rif	6	9	12	16	1.000	1.500	2.000	2.667	0.19	0.22	0.23	0.24
38	Kisii	Nya	121	134	151	174	1.000	1.107	1.248	1.438	3.85	3.27	2.95	2.65
39	Nyamira	Nya	0	0	0	0	1.000	1.000	1.000	1.000	0.00	0.00	0.00	0.00
40	Kisumu	Nya	189	227	287	387	1.000	1.201	1.519	2.048	6.01	5.55	5.60	5.90
41	Siaya	Nya	42	46	53	57	1.000	1.095	1.262	1.357	1.34	1.12	1.03	0.87
42	Homa Bay	Nya	33	39	47	63	1.000	1.182	1.424	1.909	1.05	0.95	0.92	0.96
43	Migori	Nya	70	74	78	79	1.000	1.057	1.114	1.129	2.23	1.81	1.52	1.21
44	Bungoma	Wes	59	77	94	108	1.000	1.305	1.593	1.831	1.88	1.88	1.84	1.65
45	Busia	Wes	58	64	69	70	1.000	1.103	1.190	1.207	1.84	1.56	1.35	1.07
46	Kakamega	Wes	82	112	134	166	1.000	1.366	1.634	2.024	2.61	2.74	2.62	2.53
47	Vihiga	Wes	22	26	27	28	1.000	1.182	1.227	1.273	0.70	0.64	0.53	0.43
48	Tanzania	Out	35	42	54	67	1.000	1.200	1.543	1.914	1.11	1.03	1.05	1.02
49	Somalia	Out	0	0	0	0	1.000	1.000	1.000	1.000	0.00	0.00	0.00	0.00
50	Ethiopia/Sudan	Out	0	0	0	0	1.000	1.000	1.000	1.000	0.00	0.00	0.00	0.00
51	Uganda	Out	12	16	19	26	1.000	1.333	1.583	2.167	0.38	0.39	0.37	0.40
	TOTAL		3,146	4,092	5,122	6,554	1.000	1.301	1.628	2.083	100.00	100.00	100.00	100.00

Table 5 Trip Ends (Tanker)

No.	DISTRICT	PROV.	TRIP ENDS (excluding intra traffic) 1994	2000	2005	2013	GROWTH FACTOR 1994	2000	2005	2013	RELATIVE DEMAND (%) 1994	2000	2005	2013
1	Kilifi	Coa	74	100	147	249	1.000	1.351	1.986	3.365	2.42	2.62	2.91	3.20
2	Kwale	Coa	23	38	62	114	1.000	1.652	2.696	4.957	0.75	1.00	1.23	1.47
3	Lamu	Coa	0	0	0	0	1.000	1.000	1.000	1.000	0.00	0.00	0.00	0.00
4	Monbasa	Coa	260	282	337	495	1.000	1.085	1.296	1.904	8.51	7.39	6.66	6.37
5	Taita	Coa	16	34	58	96	1.000	2.125	3.625	6.000	0.52	0.89	1.15	1.24
6	Tana River	Coa	4	8	13	24	1.000	2.000	3.250	6.000	0.13	0.21	0.26	0.31
7	Garissa	NE	0	0	0	0	1.000	1.000	1.000	1.000	0.00	0.00	0.00	0.00
8	Mandera	NE	0	0	0	0	1.000	1.000	1.000	1.000	0.00	0.00	0.00	0.00
9	Wajir	NE	0	0	0	0	1.000	1.000	1.000	1.000	0.00	0.00	0.00	0.00
10	Embu	Eas	4	12	30	70	1.000	3.000	7.500	17.500	0.13	0.31	0.59	0.90
11	Isiolo	Eas	8	12	17	25	1.000	1.500	2.125	3.125	0.26	0.31	0.34	0.32
12	Kitui	Eas	18	28	38	58	1.000	1.556	2.111	3.222	0.59	0.73	0.75	0.75
13	Machakos	Eas	88	108	154	257	1.000	1.227	1.750	2.920	2.88	2.83	3.04	3.31
14	Makueni	Eas	14	14	15	18	1.000	1.000	1.071	1.286	0.46	0.37	0.30	0.23
15	Marsabit	Eas	1	4	5	8	1.000	4.000	5.000	8.000	0.03	0.10	0.10	0.10
16	Meru	Eas	38	50	77	135	1.000	1.316	2.026	3.553	1.24	1.31	1.52	1.74
17	Tharaka Nithi	Eas	0	0	0	0	1.000	1.000	1.000	1.000	0.00	0.00	0.00	0.00
18	Kiambu	Cen	292	381	468	668	1.000	1.305	1.603	2.288	9.55	9.98	9.25	8.60
19	Kirinyaga	Cen	104	123	143	194	1.000	1.183	1.375	1.865	3.40	3.22	2.83	2.50
20	Muranga	Cen	197	261	328	482	1.000	1.325	1.665	2.447	6.45	6.84	6.48	6.20
21	Nyandarua	Cen	4	9	13	23	1.000	2.250	3.250	5.750	0.13	0.24	0.26	0.30
22	Nyeri	Cen	34	80	126	225	1.000	2.353	3.706	6.618	1.11	2.10	2.49	2.90
23	Nairobi	NBO	898	791	1,011	1,498	1.000	0.881	1.126	1.668	29.38	20.73	19.99	19.28
24	Baringo	Rif	2	14	25	46	1.000	7.000	12.500	23.000	0.07	0.37	0.49	0.59
25	Elgeyo Marakwet	Rif	2	8	14	25	1.000	4.000	7.000	12.500	0.07	0.21	0.28	0.32
26	Kajiado	Rif	22	33	44	70	1.000	1.500	2.000	3.182	0.72	0.86	0.87	0.90
27	Kericho	Rif	50	106	157	251	1.000	2.120	3.140	5.020	1.64	2.78	3.10	3.23
28	Bomet	Rif	0	0	0	0	1.000	1.000	1.000	1.000	0.00	0.00	0.00	0.00
29	Laikipia	Rif	32	43	53	72	1.000	1.344	1.656	2.250	1.05	1.13	1.05	0.93
30	Nakuru	Rif	135	72	103	180	1.000	0.533	0.763	1.333	4.42	1.89	2.04	2.32
31	Nandi	Rif	0	0	0	0	1.000	1.000	1.000	1.000	0.00	0.00	0.00	0.00
32	Narok	Rif	18	28	39	62	1.000	1.556	2.167	3.444	0.59	0.73	0.77	0.80
33	Samburu	Rif	0	0	0	0	1.000	1.000	1.000	1.000	0.00	0.00	0.00	0.00
34	Trans Nzoia	Rif	37	65	91	145	1.000	1.757	2.459	3.919	1.21	1.70	1.80	1.87
35	Turkana	Rif	8	9	10	10	1.000	1.125	1.250	1.250	0.26	0.24	0.20	0.13
36	Uasin Gishu	Rif	69	254	347	526	1.000	3.681	5.029	7.623	2.26	6.66	6.86	6.77
37	West Pokot	Rif	6	11	14	22	1.000	1.833	2.333	3.667	0.20	0.29	0.28	0.28
38	Kisii	Nya	29	42	65	120	1.000	1.448	2.241	4.138	0.95	1.10	1.29	1.54
39	Nyamira	Nya	0	0	0	0	1.000	1.000	1.000	1.000	0.00	0.00	0.00	0.00
40	Kisumu	Nya	211	275	359	527	1.000	1.303	1.701	2.498	6.90	7.21	7.10	6.78
41	Siaya	Nya	8	16	25	42	1.000	2.000	3.125	5.250	0.26	0.42	0.49	0.54
42	Homa Bay	Nya	27	38	57	102	1.000	1.407	2.111	3.778	0.88	1.00	1.13	1.31
43	Migori	Nya	36	41	49	64	1.000	1.139	1.361	1.778	1.18	1.07	0.97	0.82
44	Bungoma	Wes	43	72	97	151	1.000	1.674	2.256	3.512	1.41	1.89	1.92	1.94
45	Busia	Wes	15	26	36	57	1.000	1.733	2.400	3.800	0.49	0.68	0.71	0.73
46	Kakamega	Wes	72	112	150	228	1.000	1.556	2.083	3.167	2.36	2.94	2.97	2.93
47	Vihiga	Wes	0	0	0	0	1.000	1.000	1.000	1.000	0.00	0.00	0.00	0.00
48	Tanzania	Out	53	74	95	147	1.000	1.396	1.792	2.774	1.73	1.94	1.88	1.89
49	Somalia	Out	0	0	0	0	1.000	1.000	1.000	1.000	0.00	0.00	0.00	0.00
50	Ethiopia/Sudan	Out	0	0	0	0	1.000	1.000	1.000	1.000	0.00	0.00	0.00	0.00
51	Uganda	Out	104	142	186	284	1.000	1.365	1.788	2.731	3.40	3.72	3.68	3.66
	TOTAL		3,056	3,816	5,058	7,770	1.000	1.249	1.655	2.543	100.00	100.00	100.00	100.00

Table 5 Trip Ends (Heavy Goods)

			TRIP ENDS (excluding intra traffic)				GROWTH FACTOR				RELATIVE DEMAND (%)			
No.	DISTRICT	PROV.	1994	2000	2005	2013	1994	2000	2005	2013	1994	2000	2005	2013
1	Kilifi	Coa	103	133	189	325	1.000	1.291	1.835	3.155	1.83	1.74	1.88	2.13
2	Kwale	Coa	61	89	134	245	1.000	1.459	2.197	4.016	1.08	1.16	1.33	1.61
3	Lamu	Coa	8	25	41	73	1.000	3.125	5.125	9.125	0.14	0.33	0.41	0.48
4	Monbasa	Coa	659	715	813	1,023	1.000	1.085	1.234	1.552	11.70	9.33	8.09	6.71
5	Taita	Coa	34	73	120	220	1.000	2.147	3.529	6.471	0.60	0.95	1.19	1.44
6	Tana River	Coa	4	18	35	67	1.000	4.500	8.750	16.750	0.07	0.23	0.35	0.44
7	Garissa	NE	6	17	28	44	1.000	2.833	4.667	7.333	0.11	0.22	0.28	0.29
8	Mandera	NE	0	0	0	0	1.000	1.000	1.000	1.000	0.00	0.00	0.00	0.00
9	Wajir	NE	0	0	0	0	1.000	1.000	1.000	1.000	0.00	0.00	0.00	0.00
10	Embu	Eas	31	38	55	88	1.000	1.226	1.774	2.839	0.55	0.50	0.55	0.58
11	Isiolo	Eas	20	31	42	62	1.000	1.550	2.100	3.100	0.35	0.40	0.42	0.41
12	Kitui	Eas	142	158	175	206	1.000	1.113	1.232	1.451	2.52	2.06	1.74	1.35
13	Machakos	Eas	519	560	636	818	1.000	1.079	1.225	1.576	9.21	7.31	6.33	5.37
14	Makueni	Eas	66	67	69	72	1.000	1.015	1.045	1.091	1.17	0.87	0.69	0.47
15	Marsabit	Eas	18	21	25	31	1.000	1.167	1.389	1.722	0.32	0.27	0.25	0.20
16	Meru	Eas	71	92	143	250	1.000	1.296	2.014	3.521	1.26	1.20	1.42	1.64
17	Tharaka Nithi	Eas	1	4	9	22	1.000	4.000	9.000	22.000	0.02	0.05	0.09	0.14
18	Kiambu	Cen	384	542	714	1,118	1.000	1.411	1.859	2.911	6.82	7.07	7.10	7.34
19	Kirinyaga	Cen	16	55	99	200	1.000	3.438	6.188	12.500	0.28	0.72	0.98	1.31
20	Muranga	Cen	138	258	390	691	1.000	1.870	2.826	5.007	2.45	3.37	3.88	4.54
21	Nyandarua	Cen	8	20	34	68	1.000	2.500	4.250	8.500	0.14	0.26	0.34	0.45
22	Nyeri	Cen	57	142	233	425	1.000	2.491	4.088	7.456	1.01	1.85	2.32	2.79
23	Nairobi	NBO	1,521	1,979	2,517	3,668	1.000	1.301	1.655	2.412	27.00	25.82	25.04	24.07
24	Baringo	Rif	8	12	18	26	1.000	1.500	2.250	3.250	0.14	0.16	0.18	0.17
25	Elgeyo Marakwet	Rif	4	14	23	41	1.000	3.500	5.750	10.250	0.07	0.18	0.23	0.27
26	Kajiado	Rif	78	100	115	160	1.000	1.282	1.474	2.051	1.38	1.30	1.14	1.05
27	Kericho	Rif	157	255	344	514	1.000	1.624	2.191	3.274	2.79	3.33	3.42	3.37
28	Bomet	Rif	0	0	0	0	1.000	1.000	1.000	1.000	0.00	0.00	0.00	0.00
29	Laikipia	Rif	31	50	67	104	1.000	1.613	2.161	3.355	0.55	0.65	0.67	0.68
30	Nakuru	Rif	412	562	695	988	1.000	1.364	1.687	2.398	7.31	7.33	6.91	6.48
31	Nandi	Rif	11	57	103	191	1.000	5.182	9.364	17.364	0.20	0.74	1.02	1.25
32	Narok	Rif	15	22	27	39	1.000	1.467	1.800	2.600	0.27	0.29	0.27	0.26
33	Samburu	Rif	19	31	38	51	1.000	1.632	2.000	2.684	0.34	0.40	0.38	0.33
34	Trans Nzoia	Rif	54	105	154	254	1.000	1.944	2.852	4.704	0.96	1.37	1.53	1.67
35	Turkana	Rif	80	81	81	81	1.000	1.013	1.013	1.013	1.42	1.06	0.81	0.53
36	Uasin Gishu	Rif	92	169	241	392	1.000	1.837	2.620	4.261	1.63	2.21	2.40	2.57
37	West Pokot	Rif	0	0	0	0	1.000	1.000	1.000	1.000	0.00	0.00	0.00	0.00
38	Kisii	Nya	62	90	153	284	1.000	1.452	2.468	4.581	1.10	1.17	1.52	1.86
39	Nyamira	Nya	0	0	0	0	1.000	1.000	1.000	1.000	0.00	0.00	0.00	0.00
40	Kisumu	Nya	214	286	405	690	1.000	1.336	1.893	3.224	3.80	3.73	4.03	4.53
41	Siaya	Nya	4	18	35	68	1.000	4.500	8.750	17.000	0.07	0.23	0.35	0.45
42	Homa Bay	Nya	33	42	62	107	1.000	1.273	1.879	3.242	0.59	0.55	0.62	0.70
43	Migori	Nya	87	98	111	139	1.000	1.126	1.276	1.598	1.54	1.28	1.10	0.91
44	Bungoma	Wes	93	147	198	301	1.000	1.581	2.129	3.237	1.65	1.92	1.97	1.98
45	Busia	Wes	70	93	109	147	1.000	1.329	1.557	2.100	1.24	1.21	1.08	0.96
46	Kakamega	Wes	71	158	256	452	1.000	2.225	3.606	6.366	1.26	2.06	2.55	2.97
47	Vihiga	Wes	6	12	20	34	1.000	2.000	3.333	5.667	0.11	0.16	0.20	0.22
48	Tanzania	Out	65	88	118	180	1.000	1.354	1.815	2.769	1.15	1.15	1.17	1.18
49	Somalia	Out	4	6	8	11	1.000	1.500	2.000	2.750	0.07	0.08	0.08	0.07
50	Ethiopia/Sudan	Out	16	21	28	43	1.000	1.313	1.750	2.688	0.28	0.27	0.28	0.28
51	Uganda	Out	81	110	142	223	1.000	1.358	1.753	2.753	1.44	1.44	1.41	1.46
	TOTAL		5,634	7,664	10,052	15,236	1.000	1.360	1.784	2.704	100.00	100.00	100.00	100.00

Table 5 Trip Ends (Medium Goods)

			TRIP ENDS (excluding intra traffic)				GROWTH FACTOR				RELATIVE DEMAND (%)			
No.	DISTRICT	PROV.	1994	2000	2005	2013	1994	2000	2005	2013	1994	2000	2005	2013
1	Kilifi	Coa	340	398	471	634	1.000	1.171	1.385	1.865	4.26	3.58	3.18	2.76
2	Kwale	Coa	225	279	354	521	1.000	1.240	1.573	2.316	2.82	2.51	2.39	2.27
3	Lamu	Coa	12	22	34	56	1.000	1.833	2.833	4.667	0.15	0.20	0.23	0.24
4	Monbasa	Coa	701	853	1,053	1,465	1.000	1.217	1.502	2.090	8.79	7.68	7.10	6.38
5	Taita	Coa	49	91	153	293	1.000	1.857	3.122	5.980	0.61	0.82	1.03	1.28
6	Tana River	Coa	12	21	37	67	1.000	1.750	3.083	5.583	0.15	0.19	0.25	0.29
7	Garissa	NE	9	17	25	40	1.000	1.889	2.778	4.444	0.11	0.15	0.17	0.17
8	Mandera	NE	5	10	14	24	1.000	2.000	2.800	4.800	0.06	0.09	0.09	0.10
9	Wajir	NE	3	4	8	16	1.000	1.333	2.667	5.333	0.04	0.04	0.05	0.07
10	Embu	Eas	42	59	88	155	1.000	1.405	2.095	3.690	0.53	0.53	0.59	0.68
11	Isiolo	Eas	25	34	47	75	1.000	1.360	1.880	3.000	0.31	0.31	0.32	0.33
12	Kitui	Eas	96	124	157	220	1.000	1.292	1.635	2.292	1.20	1.12	1.06	0.96
13	Machakos	Eas	367	455	598	912	1.000	1.240	1.629	2.485	4.60	4.10	4.03	3.97
14	Makueni	Eas	45	53	58	73	1.000	1.178	1.289	1.622	0.56	0.48	0.39	0.32
15	Marsabit	Eas	18	26	30	40	1.000	1.444	1.667	2.222	0.23	0.23	0.20	0.17
16	Meru	Eas	176	221	297	472	1.000	1.256	1.688	2.682	2.21	1.99	2.00	2.06
17	Tharaka Nithi	Eas	4	8	14	30	1.000	2.000	3.500	7.500	0.05	0.07	0.09	0.13
18	Kiambu	Cen	520	766	1,046	1,692	1.000	1.473	2.012	3.254	6.52	6.89	7.06	7.37
19	Kirinyaga	Cen	35	84	144	299	1.000	2.400	4.114	8.543	0.44	0.76	0.97	1.30
20	Muranga	Cen	145	287	470	908	1.000	1.979	3.241	6.262	1.82	2.58	3.17	3.96
21	Nyandarua	Cen	106	157	205	311	1.000	1.481	1.934	2.934	1.33	1.41	1.38	1.35
22	Nyeri	Cen	164	267	386	664	1.000	1.628	2.354	4.049	2.06	2.40	2.60	2.89
23	Nairobi	NBO	1,375	2,039	2,854	4,631	1.000	1.483	2.076	3.368	17.24	18.35	19.26	20.18
24	Baringo	Rif	58	83	107	157	1.000	1.431	1.845	2.707	0.73	0.75	0.72	0.68
25	Elgeyo Marakwet	Rif	6	17	29	59	1.000	2.833	4.833	9.833	0.08	0.15	0.20	0.26
26	Kajiado	Rif	100	129	158	220	1.000	1.290	1.580	2.200	1.25	1.16	1.07	0.96
27	Kericho	Rif	180	320	458	749	1.000	1.778	2.544	4.161	2.26	2.88	3.09	3.26
28	Bomet	Rif	20	33	44	65	1.000	1.650	2.200	3.250	0.25	0.30	0.30	0.28
29	Laikipia	Rif	88	117	152	212	1.000	1.330	1.727	2.409	1.10	1.05	1.03	0.92
30	Nakuru	Rif	784	1,051	1,303	1,840	1.000	1.341	1.662	2.347	9.83	9.46	8.79	8.02
31	Nandi	Rif	25	81	148	291	1.000	3.240	5.920	11.640	0.31	0.73	1.00	1.27
32	Narok	Rif	49	72	99	160	1.000	1.469	2.020	3.265	0.61	0.65	0.67	0.70
33	Samburu	Rif	8	13	20	35	1.000	1.625	2.500	4.375	0.10	0.12	0.13	0.15
34	Trans Nzoia	Rif	232	311	400	568	1.000	1.341	1.724	2.448	2.91	2.80	2.70	2.47
35	Turkana	Rif	46	54	60	68	1.000	1.174	1.304	1.478	0.58	0.49	0.40	0.30
36	Uasin Gishu	Rif	250	348	441	645	1.000	1.392	1.764	2.580	3.14	3.13	2.98	2.81
37	West Pokot	Rif	21	33	44	67	1.000	1.571	2.095	3.190	0.26	0.30	0.30	0.29
38	Kisii	Nya	178	235	324	537	1.000	1.320	1.820	3.017	2.23	2.12	2.19	2.34
39	Nyamira	Nya	8	15	22	40	1.000	1.875	2.750	5.000	0.10	0.14	0.15	0.17
40	Kisumu	Nya	605	774	978	1,412	1.000	1.279	1.617	2.334	7.59	6.97	6.60	6.15
41	Siaya	Nya	89	116	143	200	1.000	1.303	1.607	2.247	1.12	1.04	0.96	0.87
42	Homa Bay	Nya	124	154	201	313	1.000	1.242	1.621	2.524	1.56	1.39	1.36	1.36
43	Migori	Nya	88	109	136	189	1.000	1.239	1.545	2.148	1.10	0.98	0.92	0.82
44	Bungoma	Wes	97	166	242	397	1.000	1.711	2.495	4.093	1.22	1.49	1.63	1.73
45	Busia	Wes	89	121	154	219	1.000	1.360	1.730	2.461	1.12	1.09	1.04	0.95
46	Kakamega	Wes	247	345	450	685	1.000	1.397	1.822	2.773	3.10	3.11	3.04	2.98
47	Vihiga	Wes	76	93	108	138	1.000	1.224	1.421	1.816	0.95	0.84	0.73	0.60
48	Tanzania	Out	15	20	26	42	1.000	1.333	1.733	2.800	0.19	0.18	0.18	0.18
49	Somalia	Out	0	0	0	0	1.000	1.000	1.000	1.000	0.00	0.00	0.00	0.00
50	Ethiopia/Sudan	Out	4	5	8	11	1.000	1.250	2.000	2.750	0.05	0.05	0.05	0.05
51	Uganda	Out	13	20	24	37	1.000	1.538	1.846	2.846	0.16	0.18	0.16	0.16
	TOTAL		7,974	11,110	14,822	22,954	1.000	1.393	1.859	2.879	100.00	100.00	100.00	100.00

Table 5 Trip Ends (Light Goods)

No.	DISTRICT	PROV.	TRIP ENDS (excluding intra traffic) 1994	2000	2005	2013	GROWTH FACTOR 1994	2000	2005	2013	RELATIVE DEMAND (%) 1994	2000	2005	2013
1	Kilifi	Coa	2,061	2,323	2,676	3,474	1.000	1.127	1.298	1.686	8.26	6.61	5.67	4.73
2	Kwale	Coa	780	954	1,196	1,773	1.000	1.223	1.533	2.273	3.13	2.72	2.53	2.41
3	Lamu	Coa	18	48	88	168	1.000	2.667	4.889	9.333	0.07	0.14	0.19	0.23
4	Monbasa	Coa	3,060	3,578	4,256	5,658	1.000	1.169	1.391	1.849	12.26	10.19	9.02	7.70
5	Taita	Coa	204	352	551	955	1.000	1.725	2.701	4.681	0.82	1.00	1.17	1.30
6	Tana River	Coa	9	44	95	207	1.000	4.889	10.556	23.000	0.04	0.13	0.20	0.28
7	Garissa	NE	8	28	56	106	1.000	3.500	7.000	13.250	0.03	0.08	0.12	0.14
8	Mandera	NE	0	0	0	0	1.000	1.000	1.000	1.000	0.00	0.00	0.00	0.00
9	Wajir	NE	0	0	0	0	1.000	1.000	1.000	1.000	0.00	0.00	0.00	0.00
10	Embu	Eas	177	235	345	600	1.000	1.328	1.949	3.390	0.71	0.67	0.73	0.82
11	Isiolo	Eas	53	88	131	223	1.000	1.660	2.472	4.208	0.21	0.25	0.28	0.30
12	Kitui	Eas	207	259	313	422	1.000	1.251	1.512	2.039	0.83	0.74	0.66	0.57
13	Machakos	Eas	1,263	1,543	2,011	3,095	1.000	1.222	1.592	2.451	5.06	4.39	4.26	4.21
14	Makueni	Eas	113	125	142	178	1.000	1.106	1.257	1.575	0.45	0.36	0.30	0.24
15	Marsabit	Eas	0	0	0	0	1.000	1.000	1.000	1.000	0.00	0.00	0.00	0.00
16	Meru	Eas	334	463	720	1,319	1.000	1.386	2.156	3.949	1.34	1.32	1.53	1.80
17	Tharaka Nithi	Eas	22	33	56	109	1.000	1.500	2.545	4.955	0.09	0.09	0.12	0.15
18	Kiambu	Cen	3,127	4,277	5,440	7,962	1.000	1.368	1.740	2.546	12.53	12.18	11.52	10.84
19	Kirinyaga	Cen	132	321	552	1,104	1.000	2.432	4.182	8.364	0.53	0.91	1.17	1.50
20	Muranga	Cen	844	1,445	2,146	3,777	1.000	1.712	2.543	4.475	3.38	4.11	4.55	5.14
21	Nyandarua	Cen	260	386	536	888	1.000	1.485	2.062	3.415	1.04	1.10	1.14	1.21
22	Nyeri	Cen	255	631	1,075	2,084	1.000	2.475	4.216	8.173	1.02	1.80	2.28	2.84
23	Nairobi	NBO	5,615	7,888	10,603	16,422	1.000	1.405	1.888	2.925	22.50	22.46	22.46	22.35
24	Baringo	Rif	110	159	206	308	1.000	1.445	1.873	2.800	0.44	0.45	0.44	0.42
25	Elgeyo Marakwet	Rif	0	0	0	0	1.000	1.000	1.000	1.000	0.00	0.00	0.00	0.00
26	Kajiado	Rif	349	463	574	819	1.000	1.327	1.645	2.347	1.40	1.32	1.22	1.11
27	Kericho	Rif	504	1,003	1,500	2,505	1.000	1.990	2.976	4.970	2.02	2.86	3.18	3.41
28	Bomet	Rif	28	71	107	176	1.000	2.536	3.821	6.286	0.11	0.20	0.23	0.24
29	Laikipia	Rif	229	314	428	647	1.000	1.371	1.869	2.825	0.92	0.89	0.91	0.88
30	Nakuru	Rif	1,326	2,073	2,844	4,435	1.000	1.563	2.145	3.345	5.31	5.90	6.02	6.04
31	Nandi	Rif	39	268	516	1,034	1.000	6.872	13.231	26.513	0.16	0.76	1.09	1.41
32	Narok	Rif	268	363	460	675	1.000	1.354	1.716	2.519	1.07	1.03	0.97	0.92
33	Samburu	Rif	32	58	86	142	1.000	1.813	2.688	4.438	0.13	0.17	0.18	0.19
34	Trans Nzoia	Rif	226	459	710	1,240	1.000	2.031	3.142	5.487	0.91	1.31	1.50	1.69
35	Turkana	Rif	31	39	48	60	1.000	1.258	1.548	1.935	0.12	0.11	0.10	0.08
36	Uasin Gishu	Rif	359	653	964	1,624	1.000	1.819	2.685	4.524	1.44	1.86	2.04	2.21
37	West Pokot	Rif	17	54	91	169	1.000	3.176	5.353	9.941	0.07	0.15	0.19	0.23
38	Kisii	Nya	274	418	650	1,173	1.000	1.526	2.372	4.281	1.10	1.19	1.38	1.60
39	Nyamira	Nya	35	63	94	158	1.000	1.800	2.686	4.514	0.14	0.18	0.20	0.22
40	Kisumu	Nya	884	1,233	1,699	2,771	1.000	1.395	1.922	3.135	3.54	3.51	3.60	3.77
41	Siaya	Nya	200	277	366	553	1.000	1.385	1.830	2.765	0.80	0.79	0.78	0.75
42	Homa Bay	Nya	115	166	247	438	1.000	1.443	2.148	3.809	0.46	0.47	0.52	0.60
43	Migori	Nya	108	169	251	413	1.000	1.565	2.324	3.824	0.43	0.48	0.53	0.56
44	Bungoma	Wes	113	222	337	582	1.000	1.965	2.982	5.150	0.45	0.63	0.71	0.79
45	Busia	Wes	121	213	317	533	1.000	1.760	2.620	4.405	0.48	0.61	0.67	0.73
46	Kakamega	Wes	670	900	1,165	1,740	1.000	1.343	1.739	2.597	2.68	2.56	2.47	2.37
47	Vihiga	Wes	270	325	370	459	1.000	1.204	1.370	1.700	1.08	0.93	0.78	0.62
48	Tanzania	Out	80	108	146	224	1.000	1.350	1.825	2.800	0.32	0.31	0.31	0.30
49	Somalia	Out	0	0	0	0	1.000	1.000	1.000	1.000	0.00	0.00	0.00	0.00
50	Ethiopia/Sudan	Out	6	8	10	16	1.000	1.333	1.667	2.667	0.02	0.02	0.02	0.02
51	Uganda	Out	18	24	32	50	1.000	1.333	1.778	2.778	0.07	0.07	0.07	0.07
	TOTAL		24,954	35,124	47,206	73,468	1.000	1.408	1.892	2.944	100.00	100.00	100.00	100.00

Table 5 Trip Ends (Motor Cycle)

No.	DISTRICT	PROV.	TRIP ENDS (excluding intra traffic)				GROWTH FACTOR				RELATIVE DEMAND (%)			
			1994	2000	2005	2013	1994	2000	2005	2013	1994	2000	2005	2013
1	Kilifi	Coa	74	95	118	180	1.000	1.284	1.595	2.432	6.92	5.93	5.13	4.66
2	Kwale	Coa	104	139	188	303	1.000	1.337	1.808	2.913	9.72	8.68	8.17	7.85
3	Lamu	Coa	0	0	0	0	1.000	1.000	1.000	1.000	0.00	0.00	0.00	0.00
4	Monbasa	Coa	169	242	340	534	1.000	1.432	2.012	3.160	15.79	15.11	14.78	13.83
5	Taita	Coa	4	30	81	208	1.000	7.500	20.250	52.000	0.37	1.87	3.52	5.39
6	Tana River	Coa	0	0	0	0	1.000	1.000	1.000	1.000	0.00	0.00	0.00	0.00
7	Garissa	NE	0	0	0	0	1.000	1.000	1.000	1.000	0.00	0.00	0.00	0.00
8	Mandera	NE	0	0	0	0	1.000	1.000	1.000	1.000	0.00	0.00	0.00	0.00
9	Wajir	NE	0	0	0	0	1.000	1.000	1.000	1.000	0.00	0.00	0.00	0.00
10	Embu	Eas	38	48	70	118	1.000	1.263	1.842	3.105	3.55	3.00	3.04	3.06
11	Isiolo	Eas	0	0	0	0	1.000	1.000	1.000	1.000	0.00	0.00	0.00	0.00
12	Kitui	Eas	24	34	52	100	1.000	1.417	2.167	4.167	2.24	2.12	2.26	2.59
13	Machakos	Eas	26	36	62	127	1.000	1.385	2.385	4.885	2.43	2.25	2.70	3.29
14	Makueni	Eas	2	2	4	6	1.000	1.000	2.000	3.000	0.19	0.12	0.17	0.16
15	Marsabit	Eas	18	24	28	39	1.000	1.333	1.556	2.167	1.68	1.50	1.22	1.01
16	Meru	Eas	46	57	75	113	1.000	1.239	1.630	2.457	4.30	3.56	3.26	2.93
17	Tharaka Nithi	Eas	10	12	18	28	1.000	1.200	1.800	2.800	0.93	0.75	0.78	0.73
18	Kiambu	Cen	62	88	116	197	1.000	1.419	1.871	3.177	5.79	5.49	5.04	5.10
19	Kirinyaga	Cen	0	0	0	0	1.000	1.000	1.000	1.000	0.00	0.00	0.00	0.00
20	Muranga	Cen	24	55	97	196	1.000	2.292	4.042	8.167	2.24	3.43	4.22	5.08
21	Nyandarua	Cen	18	52	91	189	1.000	2.889	5.056	10.500	1.68	3.25	3.96	4.89
22	Nyeri	Cen	2	29	64	155	1.000	14.500	32.000	77.500	0.19	1.81	2.78	4.01
23	Nairobi	NBO	148	181	223	292	1.000	1.223	1.507	1.973	13.83	11.30	9.70	7.56
24	Baringo	Rif	2	4	7	12	1.000	2.000	3.500	6.000	0.19	0.25	0.30	0.31
25	Elgeyo Marakwet	Rif	0	0	0	0	1.000	1.000	1.000	1.000	0.00	0.00	0.00	0.00
26	Kajiado	Rif	10	19	26	45	1.000	1.900	2.600	4.500	0.93	1.19	1.13	1.17
27	Kericho	Rif	19	42	68	120	1.000	2.211	3.579	6.316	1.78	2.62	2.96	3.11
28	Bomet	Rif	0	0	0	0	1.000	1.000	1.000	1.000	0.00	0.00	0.00	0.00
29	Laikipia	Rif	8	13	15	19	1.000	1.625	1.875	2.375	0.75	0.81	0.65	0.49
30	Nakuru	Rif	22	42	65	108	1.000	1.909	2.955	4.909	2.06	2.62	2.83	2.80
31	Nandi	Rif	0	0	0	0	1.000	1.000	1.000	1.000	0.00	0.00	0.00	0.00
32	Narok	Rif	2	2	2	2	1.000	1.000	1.000	1.000	0.19	0.12	0.09	0.05
33	Samburu	Rif	0	0	0	0	1.000	1.000	1.000	1.000	0.00	0.00	0.00	0.00
34	Trans Nzoia	Rif	12	31	54	102	1.000	2.583	4.500	8.500	1.12	1.94	2.35	2.64
35	Turkana	Rif	0	0	0	0	1.000	1.000	1.000	1.000	0.00	0.00	0.00	0.00
36	Uasin Gishu	Rif	8	20	28	52	1.000	2.500	3.500	6.500	0.75	1.25	1.22	1.35
37	West Pokot	Rif	0	0	0	0	1.000	1.000	1.000	1.000	0.00	0.00	0.00	0.00
38	Kisii	Nya	19	32	48	86	1.000	1.684	2.526	4.526	1.78	2.00	2.09	2.23
39	Nyamira	Nya	4	6	10	18	1.000	1.500	2.500	4.500	0.37	0.37	0.43	0.47
40	Kisumu	Nya	53	72	100	150	1.000	1.358	1.887	2.830	4.95	4.49	4.35	3.88
41	Siaya	Nya	16	22	30	45	1.000	1.375	1.875	2.813	1.50	1.37	1.30	1.17
42	Homa Bay	Nya	9	12	18	27	1.000	1.333	2.000	3.000	0.84	0.75	0.78	0.70
43	Migori	Nya	13	18	28	45	1.000	1.385	2.154	3.462	1.21	1.12	1.22	1.17
44	Bungoma	Wes	14	19	20	29	1.000	1.357	1.429	2.071	1.31	1.19	0.87	0.75
45	Busia	Wes	0	0	0	0	1.000	1.000	1.000	1.000	0.00	0.00	0.00	0.00
46	Kakamega	Wes	41	56	65	91	1.000	1.366	1.585	2.220	3.83	3.50	2.83	2.36
47	Vihiga	Wes	23	31	40	52	1.000	1.348	1.739	2.261	2.15	1.94	1.74	1.35
48	Tanzania	Out	24	34	45	68	1.000	1.417	1.875	2.833	2.24	2.12	1.96	1.76
49	Somalia	Out	0	0	0	0	1.000	1.000	1.000	1.000	0.00	0.00	0.00	0.00
50	Ethiopia/Sudan	Out	2	3	4	6	1.000	1.500	2.000	3.000	0.19	0.19	0.17	0.16
51	Uganda	Out	0	0	0	0	1.000	1.000	1.000	1.000	0.00	0.00	0.00	0.00
	TOTAL		1,070	1,602	2,300	3,862	1.000	1.497	2.150	3.609	100.00	100.00	100.00	100.00

Table 5 Trip Ends (Car)

No.	DISTRICT	PROV.	TRIP ENDS (excluding intra traffic) 1994	2000	2005	2013	GROWTH FACTOR 1994	2000	2005	2013	RELATIVE DEMAND (%) 1994	2000	2005	2013
1	Kilifi	Coa	2,384	2,640	3,086	4,174	1.000	1.107	1.294	1.751	7.56	5.92	5.16	4.49
2	Kwale	Coa	1,281	1,485	1,752	2,544	1.000	1.159	1.368	1.986	4.06	3.33	2.93	2.74
3	Lamu	Coa	0	0	0	0	1.000	1.000	1.000	1.000	0.00	0.00	0.00	0.00
4	Monbasa	Coa	3,805	4,300	5,030	6,684	1.000	1.130	1.322	1.757	12.07	9.64	8.41	7.19
5	Taita	Coa	139	355	622	1,149	1.000	2.554	4.475	8.266	0.44	0.80	1.04	1.24
6	Tana River	Coa	0	0	0	0	1.000	1.000	1.000	1.000	0.00	0.00	0.00	0.00
7	Garissa	NE	7	39	77	145	1.000	5.571	11.000	20.714	0.02	0.09	0.13	0.16
8	Mandera	NE	0	0	0	0	1.000	1.000	1.000	1.000	0.00	0.00	0.00	0.00
9	Wajir	NE	0	0	0	0	1.000	1.000	1.000	1.000	0.00	0.00	0.00	0.00
10	Embu	Eas	203	273	422	769	1.000	1.345	2.079	3.788	0.64	0.61	0.71	0.83
11	Isiolo	Eas	58	106	167	287	1.000	1.828	2.879	4.948	0.18	0.24	0.28	0.31
12	Kitui	Eas	168	217	274	391	1.000	1.292	1.631	2.327	0.53	0.49	0.46	0.42
13	Machakos	Eas	1,482	1,779	2,371	3,764	1.000	1.200	1.600	2.540	4.70	3.99	3.97	4.05
14	Makueni	Eas	85	93	110	149	1.000	1.094	1.294	1.753	0.27	0.21	0.18	0.16
15	Marsabit	Eas	8	27	50	89	1.000	3.375	6.250	11.125	0.03	0.06	0.08	0.10
16	Meru	Eas	370	535	891	1,681	1.000	1.446	2.408	4.543	1.17	1.20	1.49	1.81
17	Tharaka Nithi	Eas	30	46	76	150	1.000	1.533	2.533	5.000	0.10	0.10	0.13	0.16
18	Kiambu	Cen	4,622	5,910	7,207	10,188	1.000	1.279	1.559	2.204	14.67	13.24	12.06	10.96
19	Kirinyaga	Cen	110	395	718	1,459	1.000	3.591	6.527	13.264	0.35	0.89	1.20	1.57
20	Muranga	Cen	611	1,416	2,284	4,189	1.000	2.318	3.738	6.856	1.94	3.17	3.82	4.51
21	Nyandarua	Cen	124	219	328	586	1.000	1.766	2.645	4.726	0.39	0.49	0.55	0.63
22	Nyeri	Cen	463	1,033	1,642	2,985	1.000	2.231	3.546	6.447	1.47	2.31	2.75	3.21
23	Nairobi	NBO	8,301	11,251	14,548	21,759	1.000	1.355	1.753	2.621	26.34	25.21	24.34	23.40
24	Baringo	Rif	81	183	274	454	1.000	2.259	3.383	5.605	0.26	0.41	0.46	0.49
25	Elgeyo Marakwet	Rif	13	82	150	284	1.000	6.308	11.538	21.846	0.04	0.18	0.25	0.31
26	Kajiado	Rif	353	459	565	812	1.000	1.300	1.601	2.300	1.12	1.03	0.95	0.87
27	Kericho	Rif	741	1,483	2,142	3,437	1.000	2.001	2.891	4.638	2.35	3.32	3.58	3.70
28	Bomet	Rif	19	81	131	224	1.000	4.263	6.895	11.789	0.06	0.18	0.22	0.24
29	Laikipia	Rif	309	443	588	859	1.000	1.434	1.903	2.780	0.98	0.99	0.98	0.92
30	Nakuru	Rif	1,750	2,812	3,841	5,945	1.000	1.607	2.195	3.397	5.55	6.30	6.43	6.39
31	Nandi	Rif	58	417	765	1,459	1.000	7.190	13.190	25.155	0.18	0.93	1.28	1.57
32	Narok	Rif	206	308	406	635	1.000	1.495	1.971	3.083	0.65	0.69	0.68	0.68
33	Samburu	Rif	43	82	119	189	1.000	1.907	2.767	4.395	0.14	0.18	0.20	0.20
34	Trans Nzoia	Rif	214	573	936	1,678	1.000	2.678	4.374	7.841	0.68	1.28	1.57	1.80
35	Turkana	Rif	20	30	39	55	1.000	1.500	1.950	2.750	0.06	0.07	0.07	0.06
36	Uasin Gishu	Rif	408	876	1,361	2,374	1.000	2.147	3.336	5.819	1.29	1.96	2.28	2.55
37	West Pokot	Rif	17	73	125	228	1.000	4.294	7.353	13.412	0.05	0.16	0.21	0.25
38	Kisii	Nya	319	529	901	1,748	1.000	1.658	2.824	5.480	1.01	1.19	1.51	1.88
39	Nyamira	Nya	14	54	98	180	1.000	3.857	7.000	12.857	0.04	0.12	0.16	0.19
40	Kisumu	Nya	1,009	1,418	2,019	3,374	1.000	1.405	2.001	3.344	3.20	3.18	3.38	3.63
41	Siaya	Nya	212	310	424	661	1.000	1.462	2.000	3.118	0.67	0.69	0.71	0.71
42	Homa Bay	Nya	122	194	321	610	1.000	1.590	2.631	5.000	0.39	0.43	0.54	0.66
43	Migori	Nya	161	246	353	568	1.000	1.528	2.193	3.528	0.51	0.55	0.59	0.61
44	Bungoma	Wes	149	331	514	872	1.000	2.221	3.450	5.852	0.47	0.74	0.86	0.94
45	Busia	Wes	68	202	340	625	1.000	2.971	5.000	9.191	0.22	0.45	0.57	0.67
46	Kakamega	Wes	621	852	1,130	1,739	1.000	1.372	1.820	2.800	1.97	1.91	1.89	1.87
47	Vihiga	Wes	216	269	321	425	1.000	1.245	1.486	1.968	0.69	0.60	0.54	0.46
48	Tanzania	Out	107	148	197	304	1.000	1.383	1.841	2.841	0.34	0.33	0.33	0.33
49	Somalia	Out	0	0	0	0	1.000	1.000	1.000	1.000	0.00	0.00	0.00	0.00
50	Ethiopia/Sudan	Out	0	0	0	0	1.000	1.000	1.000	1.000	0.00	0.00	0.00	0.00
51	Uganda	Out	35	50	63	99	1.000	1.429	1.800	2.829	0.11	0.11	0.11	0.11
	TOTAL		31,516	44,624	59,778	92,980	1.000	1.416	1.897	2.950	100.00	100.00	100.00	100.00

Table 6 **Equivalence MOPWH Codes vs TRANPLAN Codes**

KENYA ROAD NETWORK DEVELOPMENT MASTER PLAN STUDY
TABLE OF EQUIVALENCE – MPOW Codes vs TRANPLAN Nodes
ROAD CLASS "A"

TRANPLAN Node# ANODE	BNODE	Super Link # (LG1)	MOPW Code Class	No.	Sec	Road Length [km]	Carr. Width [m]	Number of Lanes	District Number	Province Code	Surface Type [P/G/E]
3804	4305	1	660 A	1	11	26.00	6.50	2	43	7	P
4305	4301	1	660 A	1	11	26.00	6.50	2	43	7	P
3833	3804	2	660 A	1	11	4.00	6.50	2	43	7	P
3836	3833	2	610 A	1	20	16.50	6.20	2	38	7	P
4301	4327	3	660 A	1	11	2.00	6.50	2	43	7	P
4327	4303	4	660 A	1	11	11.00	6.50	2	43	7	P
3839	4203	5	640 A	1	12	4.80	6.20	2	42	7	P
3839	3836	5	610 A	1	20	14.50	6.20	2	38	7	P
4203	4222	6	640 A	1	12	19.00	6.20	2	42	7	P
4222	4221	6	640 A	1	12	13.40	6.20	2	42	7	P
4221	2721	7	640 A	1	12	4.80	6.20	2	42	7	P
2721	4024	8	620 A	1	31	20.00	6.20	2	40	7	P
4002	4001	9	620 A	1	31	20.00	6.20	2	40	7	P
4024	4002	10	620 A	1	31	17.50	6.20	2	40	7	P
4048	4057	11	620 A	1	31	5.00	6.20	2	40	7	P
4001	4048	12	620 A	1	32	5.60	6.50	2	40	7	P
4636	4601	13	930 A	1	40	2.00	5.80	2	46	8	P
4601	4645	14	930 A	1	40	15.00	5.80	2	46	8	P
4645	4702	14	940 A	1	41	6.00	5.90	2	47	8	P
4430	4639	15	930 A	1	40	20.40	5.80	2	46	8	P
4639	4636	15	930 A	1	40	24.00	5.80	2	46	8	P
4730	4057	16	940 A	1	41	7.00	5.90	2	47	8	P
4702	4730	17	940 A	1	41	7.00	5.90	2	47	8	P
4442	4433	18	910 A	1	50	10.00	5.80	2	44	8	P
4433	4402	19	910 A	1	50	20.30	5.80	2	44	8	P
3401	3427	20	760 A	1	61	25.00	5.90	2	34	6	P
3433	3401	21	760 A	1	61	30.80	5.90	2	34	6	P
3701	3433	21	860 A	1	70	14.80	6.00	2	37	6	P
3427	4442	22	760 A	1	61	6.00	5.90	2	34	6	P
3702	3701	23	860 A	1	70	13.50	6.00	2	37	6	P
3703	3727	23	860 A	1	70	14.00	6.00	2	37	6	P
3727	3702	23	860 A	1	70	14.00	6.00	2	37	6	P
3733	3703	24	860 A	1	70	23.00	6.00	2	37	6	P
3736	3733	24	860 A	1	70	23.00	6.00	2	37	6	P
3502	3539	24	850 A	1	80	28.00	6.00	2	35	6	P
3536	3736	24	850 A	1	80	12.00	6.00	2	35	6	P
3537	3536	24	850 A	1	80	27.00	6.00	2	35	6	P
3539	3537	24	850 A	1	80	13.00	6.00	2	35	6	P
3501	3545	25	850 A	1	80	22.00	6.00	2	35	6	P
3542	3502	25	850 A	1	80	37.50	6.00	2	35	6	P
3545	3542	25	850 A	1	80	28.50	6.00	2	35	6	P
3554	3501	26	850 A	1	80	20.00	6.00	2	35	6	P
3557	3554	26	850 A	1	80	21.50	6.00	2	35	6	P
3560	3557	26	850 A	1	80	25.50	6.00	2	35	6	P
3578	3560	27	850 A	1	80	20.00	6.00	2	35	6	P
3580	3578	27	850 A	1	80	28.00	6.00	2	35	6	P
3581	3580	27	850 A	1	80	37.00	6.00	2	35	6	P
3584	3581	27	850 A	1	80	31.00	6.00	2	35	6	P
3587	3584	27	850 A	1	80	30.00	6.00	2	35	6	P
3590	3587	27	850 A	1	80	30.00	5.00	2	35	6	E
1842	2324	28	110 A	2	1	7.70	6.80	2	23	5	P
1803	1842	28	210 A	2	11	9.10	6.60	2	18	4	P
2324	2301	29	110 A	2	1	7.70	6.80	2	23	5	P
1801	2054	30	210 A	2	11	1.00	6.60	2	18	4	P
1801	1803	31	210 A	2	11	18.00	6.60	2	18	4	P

2024	2054	32	210	A	2	14	10.00	7.00	2	20	4	P
2005	2024	33	230	A	2	20	13.50	6.80	2	20	4	P
2033	2005	34	230	A	2	20	26.00	6.80	2	20	4	P
2039	2033	34	220	A	2	30	10.00	7.10	2	20	4	P
1902	2039	35	220	A	2	30	10.00	7.10	2	19	4	P
2227	1902	36	220	A	2	30	17.70	7.10	2	19	4	P
2225	2203	37	250	A	2	40	23.60	6.70	2	29	6	P
2901	2224	37	250	A	2	40	25.00	6.70	2	29	6	P
2224	2225	37	730	A	2	50	3.80	6.80	2	29	6	P
2203	2202	38	250	A	2	40	12.60	6.70	2	29	6	P
2202	2227	39	250	A	2	40	13.00	6.70	2	29	6	P
1627	2901	40	460	A	2	60	21.00	6.40	2	16	3	P
1630	1627	40	460	A	2	60	27.00	6.40	2	16	3	P
1101	1633	41	460	A	2	60	2.00	6.40	2	11	3	P
1633	1630	41	460	A	2	60	23.00	6.40	2	16	3	P
1639	1101	42	420	A	2	70	4.00	5.90	2	11	3	P
1641	1639	42	420	A	2	70	5.00	5.90	2	16	3	P
3322	1642	42	420	A	2	70	28.00	5.00	2	11	3	G
1642	1641	42	420	A	2	70	8.00	5.00	2	11	3	G
3321	3322	42	840	A	2	80	18.00	5.00	2	33	6	G
1521	4808	43	840	A	2	80	20.00	5.00	2	33	6	G
4808	3327	43	840	A	2	80	17.00	5.00	2	33	6	G
3324	3321	43	840	A	2	80	17.00	5.00	2	33	6	G
3327	3324	43	840	A	2	80	20.00	5.00	2	33	6	G
1521	1522	43	450	A	2	90	9.50	6.00		15	3	P
1522	1524	43	450	A	2	90	14.40	5.00	2	15	3	G
1524	1527	43	450	A	2	90	25.00	5.00	2	15	3	G
1527	1530	43	450	A	2	90	25.00	5.00	2	15	3	G
1530	1533	43	450	A	2	90	25.60	5.00	2	15	3	G
1533	1501	43	450	A	2	90	25.00	5.00	2	15	3	G
1557	1502	44	450	A	2	90	9.00	5.00	2	15	3	G
1501	1536	45	450	A	2	90	32.00	5.00	2	15	3	G
1503	1551	45	450	A	2	90	23.00	5.00	2	15	3	G
1536	1539	45	450	A	2	90	32.00	5.00	2	15	3	G
1539	1542	45	450	A	2	90	32.00	5.00	2	15	3	G
1542	1545	45	450	A	2	90	32.00	5.00	2	15	3	G
1545	1548	45	450	A	2	90	34.00	5.00	2	15	3	G
1548	1503	45	450	A	2	90	24.00	5.00	2	15	3	G
1551	1554	45	450	A	2	90	23.00	5.00	2	15	3	G
1554	1557	45	450	A	2	90	14.00	5.00	2	15	3	G
1801	1832	46	210	A	3	11	13.10	6.80		18	4	P
1832	1899	46	210	A	3	12	23.70	6.80		18	4	P
1899	1369	46	440	A	3	21	13.10	6.80		13	3	P
1369	1366	47	440	A	3	21	20.00	6.80		13	3	P
1366	1254	47	440	A	3	22	6.00	6.80	2	12	3	P
1254	1257	48	440	A	3	22	6.00	6.80	2	12	3	P
1257	1260	48	430	A	3	31	10.80	6.80		12	3	P
1260	1242	48	430	A	3	32	27.90	6.80		12	3	P
1202	1275	49	430	A	3	32	20.00	5.00	2	12	3	E
1275	1278	49	430	A	3	32	20.00	5.00	2	12	3	E
4806	1281	49	430	A	3	32	18.50	5.00	2	12	3	E
1278	4806	49	430	A	3	32	20.00	5.00	2	12	3	E
1281	4807	49	430	A	3	32	20.00	5.00	2	12	3	E
4807	645	49	430	A	3	32	18.40	5.00	2	12	3	E
636	639	49	360	A	3	40	33.00	6.80		6	1	P
639	642	49	360	A	3	40	33.00	6.80		6	1	P
642	645	49	360	A	3	40	34.00	6.80		6	1	P
1242	1202	50		A	3	32	14.00	6.80		12	3	P
701	636	51	360	A	3	40	14.50	6.80		6	1	P
703	736	52	510	A	3	50	32.00	5.00	2	7	2	E
736	739	52	510	A	3	50	32.00	5.00	2	7	2	E
739	702	52	510	A	3	50	32.00	5.00	2	7	2	E
702	742	53	510	A	3	50	33.00	5.00	2	7	2	E

742	745	53	510	A	3	50	33.00	5.00	2	7	2	E
745	748	53	510	A	3	50	34.00	5.00	2	7	2	E
701	751	54	510	A	3	50	3.00	6.50	2	7	2	P
751	703	54	510	A	3	50	5.00	5.00	2	7	2	E
227	203	55	320	A	14	10	18.00	6.90	2	2	1	P
236	261	56	320	A	14	10	8.50	6.90	2	2	1	P
404	236	56	340	A	14	21	7.70	8.70	2	4	1	P
202	230	57	320	A	14	10	13.00	6.90	2	2	1	P
230	227	57	320	A	14	10	17.00	6.90	2	2	1	P
203	242	58	320	A	14	10	8.00	6.90	2	2	1	P
221	202	59	320	A	14	10	14.00	6.90	2	2	1	P
261	221	60	320	A	14	10	19.00	6.90	2	2	1	P
530	533	61	350	A	23	1	25.20	6.60	2	5	1	P
533	536	61	350	A	23	1	29.60	5.00	2	5	1	G
536	539	61	350	A	23	1	29.60	5.00	2	5	1	G
539	502	61	350	A	23	1	29.60	5.00	2	5	1	G
1302	2699	62	710	A	104	1	3.00	6.40	2	13	3	P
2602	2624	62	710	A	104	1	24.00	6.40	2	26	6	P
2621	2603	62	710	A	104	1	17.00	6.40	2	26	6	P
2622	2621	62	710	A	104	1	20.00	6.40	2	26	6	P
2624	2622	62	710	A	104	1	18.00	6.40	2	26	6	P
2627	2602	62	710	A	104	1	19.50	6.40	2	26	6	P
2630	2627	62	710	A	104	1	15.00	6.40	2	26	6	P
2699	2630	62	710	A	104	1	15.00	6.40	2	26	6	P
2333	1302	63	440	A	104	10	15.30	7.20	2	13	3	P
2396	2301	64	110	A	104	21	22.50	8.70	2	23	5	P
2395	2396	65	110	A	104	21	7.50	8.70	2	23	5	P
1806	2395	65	210	A	104	31	4.80	7.70	2	18	4	P
2301	2330	66	110	A	104	22	17.00	7.70	2	23	5	P
2330	2333	67	110	A	104	22	8.10	7.70	2	23	5	P
1804	1806	68	210	A	104	31	10.00	7.70	2	18	4	P
1854	1804	69	210	A	104	31	14.00	7.70	2	18	4	P
2121	1854	70	210	A	104	31	22.00	7.70	2	18	4	P
3039	2121	71	240	A	104	32	4.30	9.20	2	18	4	P
3002	3039	71	740	A	104	41	26.00	7.50	2	30	6	P
3036	3004	72	740	A	104	41	32.00	7.50	2	30	6	P
3001	3033	73	740	A	104	41	5.00	7.50	2	30	6	P
3027	3030	74	740	A	104	41	23.20	7.50	2	30	6	P
3030	3031	74	740	A	104	41	22.10	7.50	2	30	6	P
3031	3032	74	740	A	104	42	7.40	7.20	2	30	6	P
2757	3027	75	740	A	104	41	13.50	7.50	2	30	6	P
3004	3002	76	740	A	104	41	27.50	7.50	2	30	6	P
3033	3036	77	740	A	104	41	6.80	7.50	2	30	6	P
3032	3001	78	740	A	104	43	5.20	7.20	2	30	6	P
3601	3630	79	770	A	104	51	21.50	6.80	2	36	6	P
3630	3604	79	770	A	104	51	21.50	6.80	2	36	6	P
3621	3624	80	770	A	104	51	24.40	6.80	2	36	6	P
3624	3601	80	770	A	104	52	7.10	6.80	2	36	6	P
3604	3636	81	770	A	104	51	16.00	6.80	2	36	6	P
3602	3621	82	770	A	104	51	16.80	6.80	2	36	6	P
3636	3637	83	770	A	104	51	18.80	6.80	2	36	6	P
3637	2757	83	770	A	104	51	18.80	6.80	2	36	6	P
3602	4431	84	930	A	104	61	17.50	7.00	2	36	6	P
4431	4430	84	930	A	104	61	16.60	7.00	2	46	8	P
4402	4448	85	910	A	104	71	30.00	7.00	2	44	8	P
4448	4542	86	910	A	104	71	20.80	7.00	2	44	8	P
4430	4402	87	910	A	104	71	1.00	7.00	2	44	8	P
4542	4502	88	920	A	104	81	15.10	7.00	2	44	8	P
403	151	89	340	A	109	11	17.80	7.10	2	4	1	P
401	403	89	340	A	109	12	6.20	8.00	2	4	1	P
103	154	90	310	A	109	21	23.10	7.10	2	1	1	P
154	239	90	320	A	109	31	27.10	6.80	2	2	1	P
239	521	90	320	A	109	31	27.10	6.80	2	2	1	P

521	524	90	350	A	109	41	24.50	6.20	2	5	1	P
524	527	90	350	A	109	41	24.50	6.20	2	5	1	P
151	103	91	310	A	109	21	25.00	7.10	2	1	1	P
530	554	92	350	A	109	41	3.90	6.20	2	5	1	P
554	504	92	350	A	109	41	32.10	6.20	2	5	1	P
504	505	93	350	A	109	41	14.00	6.20	2	5	1	P
527	530	94	350	A	109	41	6.00	6.20	2	5	1	P
1421	1360	95	440	A	109	51	21.50	7.30	2	13	3	P
1401	1424	95	470	A	109	52	13.70	6.50	2	14	3	P
1424	1445	95	470	A	109	52	22.30	6.50	2	14	3	P
1445	1421	95	470	A	109	52	28.40	6.50	2	14	3	P
1360	1302	96	440	A	109	51	26.00	7.30	2	13	3	P
505	1441	97	470	A	109	52	24.00	6.50	2	14	3	P
1402	1442	97	470	A	109	52	20.00	6.50	2	14	3	P
1441	1402	97	470	A	109	52	24.00	6.50	2	14	3	P
1442	1403	97	470	A	109	52	20.00	6.50	2	14	3	P
1403	1444	98	470	A	109	52	22.00	6.50	2	14	3	P
1433	1401	98	470	A	109	52	29.00	6.50	2	26	6	P
1444	1433	98	470	A	109	52	17.00	6.50	2	14	3	P

KENYA ROAD NETWORK DEVELOPMENT MASTER PLAN STUDY
TABLE OF EQUIVALENCE – MPOW Codes vs TRANPLAN Nodes
ROAD CLASS "B"

TRANPLAN Node# ANODE	BNODE	Super Link # (LG1)	MOPW Code Class	No.	Sec	Road Length [km]	Carr. Width [m]	Number of Lanes	District Number	Province Code	Surface Type [P/G/E]
2736	2701	1	120 B	1	10	15.00	6.30	2	27	6	P
2748	2736	1	120 B	1	10	15.00	6.30	2	27	6	P
2751	2748	1	120 B	1	10	15.00	6.30	2	27	6	P
2701	2724	2	120 B	1	10	12.50	6.30	2	27	6	P
3024	2751	3	120 B	1	10	7.00	6.30	2	27	6	P
2724	2763	4	120 B	1	10	19.00	6.30	2	27	6	P
2763	2745	5	120 B	1	10	6.90	6.30	2	27	6	P
4030	4002	6	620 B	1	21	16.60	6.00	2	40	7	P
2745	4030	7	620 B	1	21	5.50	6.00	2	40	7	P
4052	4001	8	620 B	1	22	6.90	7.20	2	40	7	P
4051	4052	8	620 B	1	23	13.10	6.00	2	40	7	P
4003	4051	9	620 B	1	23	4.30	6.00	2	40	7	P
4721	4003	10	620 B	1	23	8.80	6.00	2	40	7	P
4703	4721	11	940 B	1	31	3.00	5.80	2	47	8	P
4628	4703	12	940 B	1	31	6.50	5.80	2	47	8	P
4103	4628	13	940 B	1	31	3.00	5.80	2	47	8	P
4105	4103	13	630 B	1	41	29.00	5.80	2	41	7	P
4142	4105	14	630 B	1	41	4.00	5.80	2	41	7	P
4136	4142	15	630 B	1	41	16.50	5.80	2	41	7	P
4527	4136	15	920 B	1	51	2.00	6.40	2	45	8	P
4545	4527	16	920 B	1	51	20.00	6.40	2	45	8	P
4501	4545	17	920 B	1	51	5.00	6.40	2	45	8	P
3027	3024	18	740 B	1	61	2.90	7.00	2	30	6	P
3605	3621	19	770 B	2	11	11.80	6.00	2	36	6	P
3660	3663	19	770 B	2	11	11.60	6.00	2	46	8	P
3663	3605	19	770 B	2	11	11.80	6.00	2	36	6	P
3603	3660	19	930 B	2	21	12.00	6.00	2	36	6	P
3401	3603	20	760 B	2	31	18.60	6.00	2	34	6	P
1804	3042	21	210 B	3	10	20.00	6.70	2	18	4	P
3045	3042	22	740 B	3	20	29.40	6.00	2	30	6	P
3045	3236	22	750 B	3	30	10.30	5.00	2	32	6	G
3233	3201	22	750 B	3	30	17.50	5.40	2	32	6	P
3236	3233	22	750 B	3	30	30.70	5.00	2	32	6	G
3224	3221	23	750 B	3	30	23.40	5.40	2	32	6	P
3221	2827	23	720 B	3	40	16.00	6.50	2	28	6	P
3227	3224	24	750 B	3	30	20.50	5.40	2	32	6	P
3230	3227	24	750 B	3	30	22.00	5.40	2	32	6	P
3201	3230	25	750 B	3	30	15.50	5.40	2	32	6	P
2829	2830	26	720 B	3	40	17.50	6.50	2	28	6	P
2830	2702	26	720 B	3	40	17.50	6.50	2	28	6	P
2702	2833	27	720 B	3	40	5.00	6.50	2	28	6	P
2827	2829	28	720 B	3	40	6.00	6.50	2	28	6	P
3836	3802	29	610 B	3	50	30.20	5.80	2	38	7	P
3802	2833	30	650 B	3	60	18.00	5.80	2	39	7	P
2406	3060	31	740 B	4	10	6.00	6.40	2	30	6	P
2403	2429	31	810 B	4	20	29.50	6.50	2	24	6	P
2429	2430	31	810 B	4	20	29.50	6.50	2	24	6	P
2430	2406	31	810 B	4	20	29.40	6.50	2	24	6	P
3060	3001	32	740 B	4	10	18.00	6.40	2	30	6	P
2403	2404	33	810 B	4	20	30.30	4.00	1	24	6	G
2404	2427	33	810 B	4	20	30.30	4.00	1	24	6	G
2424	2421	34	810 B	4	20	28.70	4.00	1	24	6	G
2427	2424	34	810 B	4	20	28.40	4.00	1	24	6	G
2502	2421	34	820 B	4	30	6.30	5.00	2	25	6	E
3745	2502	35	820 B	4	30	12.00	5.00	2	25	6	E

3745	3748	35	860	B	4	41	11.00	5.00	2	24	6	G
3748	3703	36	860	B	4	41	32.80	5.00	2	24	6	G
2230	2201	37	250	B	5	10	22.50	6.00	2	22	4	P
2233	2230	37	250	B	5	10	9.00	6.00	2	29	6	P
2236	2233	37	250	B	5	10	20.50	6.00	2	22	4	P
2236	2145	37	730	B	5	20	24.60	6.20	2	29	6	P
2145	2146	37	240	B	5	30	12.50	6.10	2	21	4	P
2201	2202	38	250	B	5	10	12.30	6.00	2	22	4	P
2101	3057	39	730	B	5	22	13.70	6.50	2	29	6	P
3054	3033	39	740	B	5	40	30.10	6.70	2	30	6	P
3057	3054	39	740	B	5	40	21.20	6.70	2	30	6	P
2146	2101	40	240	B	5	30	15.30	6.10	2	21	4	P
1001	1924	41	220	B	6	10	12.00	6.00	2	19	4	P
1903	2039	42	220	B	6	10	5.10	6.00	2	19	4	P
1924	1903	42	220	B	6	10	25.00	6.00	2	19	4	P
1030	1001	43	410	B	6	20	20.60	7.00	2	10	3	P
1002	1030	44	410	B	6	20	7.50	7.00	2	10	3	P
1039	1002	44	410	B	6	20	7.50	7.00	2	10	3	P
1701	1039	44	460	B	6	31	8.30	7.30	2	17	3	P
1601	1603	45	460	B	6	31	14.50	7.30	2	16	3	P
1603	1730	45	460	B	6	31	20.00	7.30	2	16	3	P
1702	1701	45	460	B	6	31	17.30	7.30	2	17	3	P
1730	1702	45	460	B	6	31	3.80	7.30	2	17	3	P
1630	1601	46	460	B	6	31	25.00	7.30	2	16	3	P
1403	1443	47	470	B	7	10	3.00	6.50		14	3	P
1443	1221	47	470	B	7	10	24.80	5.00	2	14	3	G
1201	1230	47	430	B	7	20	9.00	5.00	2	12	3	E
1203	1224	47	430	B	7	20	23.00	5.00	2	12	3	E
1224	1221	47	430	B	7	20	22.80	5.00	2	12	3	E
1227	1203	47	430	B	7	20	23.00	5.00	2	12	3	E
1228	1227	47	430	B	7	20	23.00	5.00	2	12	3	E
1230	1228	47	430	B	7	20	14.00	5.00	2	12	3	E
1233	1201	48	430	B	7	20	3.00	5.00	2	12	3	E
1236	1233	49	430	B	7	20	13.40	5.00	2	12	3	E
1251	1236	50	430	B	7	20	26.00	5.00	2	12	3	E
1254	1251	50	430	B	7	20	6.50	7.10	2	12	3	P
1036	1254	51	440	B	7	30	35.50	6.50	2	13	3	P
1001	1033	51	410	B	7	40	18.80	6.60	2	10	3	P
1033	1034	51	410	B	7	40	11.30	6.60	2	10	3	P
1034	1036	51	410	B	7	40	15.40	6.60	2	10	3	P
401	157	52	340	B	8	11	15.00	7.90	2	4	1	P
157	142	52	310	B	8	20	30.00	6.20	2	13	3	P
104	102	53	310	B	8	20	19.50	6.20	2	13	3	P
133	104	53	310	B	8	20	19.00	6.20	2	13	3	P
136	133	53	310	B	8	20	19.00	6.20	2	13	3	P
101	136	54	310	B	8	20	8.00	6.20	2	13	3	P
142	101	54	310	B	8	20	8.00	6.20	2	13	3	P
105	102	55	310	B	8	20	10.10	5.00	2	1	1	G
121	124	55	310	B	8	20	21.00	5.00	2	1	1	G
124	105	55	310	B	8	20	21.00	5.00	2	1	1	G
602	648	55	360	B	8	30	23.90	5.00	2	6	1	E
648	121	55	360	B	8	30	24.00	5.00	2	6	1	E
630	601	56	360	B	8	30	30.00	5.00	2	6	1	E
631	630	56	360	B	8	30	28.00	5.00	2	6	1	E
633	631	56	360	B	8	30	23.40	5.00	2	6	1	G
634	633	56	360	B	8	30	20.00	5.00	2	6	1	G
636	634	56	360	B	8	30	24.50	5.00		6	1	P
601	624	57	360	B	8	30	28.00	5.00	2	6	1	E
621	602	57	360	B	8	30	34.80	5.00	2	6	1	E
624	621	57	360	B	8	30	30.00	5.00	2	6	1	E
1101	1645	58	460	B	9	11	33.00	5.00	2	16	3	E
1645	1648	58	460	B	9	11	33.00	5.00	2	16	3	E
1102	1148	58	420	B	9	21	2.00	5.00		11	3	G

1145	1103	58	420	B	9	21	32.00	5.00		11	3	G
1148	1145	58	420	B	9	21	31.50	5.00		11	3	G
1151	1102	58	420	B	9	21	30.00	5.00		11	3	G
1648	1151	58	420	B	9	21	31.50	5.00		11	3	G
799	902	59	510	B	9	31	15.00	5.00	2	7	2	E
4805	799	59	510	B	9	31	17.10	5.00		7	2	G
1103	4805	59	510	B	9	31	20.00	5.00		7	2	G
902	939	59	550	B	9	41	24.50	5.00		9	2	G
939	936	59	550	B	9	41	24.50	5.00		9	2	G
4801	948	60	550	B	9	41	18.50	5.00		9	2	G
901	4801	60	550	B	9	41	18.50	5.00		9	2	G
4802	951	60	550	B	9	41	18.50	5.00		9	2	G
948	4802	60	550	B	9	41	18.50	5.00		9	2	G
951	4803	60	550	B	9	41	18.50	5.00		9	2	G
4803	954	60	550	B	9	41	18.50	5.00		9	2	G
954	4804	60	550	B	9	41	18.50	5.00		9	2	G
4804	957	60	550	B	9	41	18.50	5.00		9	2	G
821	822	60	520	B	9	51	27.00	5.00		8	2	G
822	824	60	520	B	9	51	27.00	5.00		8	2	G
824	827	60	520	B	9	51	27.00	5.00		8	2	G
827	830	60	520	B	9	51	27.00	5.00		8	2	G
830	833	60	520	B	9	51	27.00	5.00		8	2	G
833	836	60	520	B	9	51	27.00	5.00		8	2	G
836	839	60	520	B	9	51	27.00	5.00		8	2	G
839	842	60	520	B	9	51	27.00	5.00		8	2	G
842	845	60	520	B	9	51	27.00	5.00		8	2	G
957	821	60	520	B	9	51	29.80	5.00		8	2	G
936	942	61	550	B	9	41	23.00	5.00		9	2	G
942	945	61	550	B	9	41	23.00	5.00		9	2	G
945	901	61	550	B	9	41	23.00	5.00		9	2	G
2333	1355	62	110	B	10	1	8.30	7.10	2	23	5	P

KENYA ROAD NETWORK DEVELOPMENT MASTER PLAN STUDY
TABLE OF EQUIVALENCE – MPOW Codes vs TRANPLAN Nodes
ROAD CLASS "C" – LINK GROUP 1

TRANPLAN Node# ANODE	BNODE	Super Link # (LG1)	MOPW Code Class	No.	Sec	Road Length [km]	Carr. Width [m]	Number of Lanes	District Number	Province Code	Surface Type [P/G/E]
3224	3266	1	750 C	13	10	21.00	5.00	2	32	6	G
3263	3203	1	750 C	13	10	23.00	5.00	2	32	6	G
3264	3263	1	750 C	13	10	21.00	5.00	2	32	6	G
3266	3264	1	750 C	13	10	29.00	5.00	2	32	6	E
3203	4302	2	750 C	13	10	21.00	5.00	2	32	6	G
4327	4302	2	660 C	13	20	24.10	4.00	1	43	7	G
2824	3272	3	720 C	14	20	28.90	5.00	2	28	6	G
2827	2824	3	720 C	14	20	28.90	5.00	2	28	6	G
3202	3273	4	750 C	14	10	14.70	5.00	2	32	6	E
3273	3272	4	750 C	14	10	14.00	5.00	2	32	6	G
2836	2702	5	720 C	15	1	14.40	5.00	2	28	6	G
3272	2836	5	720 C	15	1	14.40	5.00	2	28	6	G
3802	3275	6	610 C	16	1	28.80	5.00	2	38	7	G
3202	3203	7	750 C	17	20	31.10	5.00	2	32	6	E
3275	3202	8	750 C	17	20	11.10	6.00	2	32	6	P
3836	3803	9	610 C	17	10	18.00	6.20	2	38	7	P
3803	3275	10	610 C	17	10	24.00	6.20	2	38	7	P
4203	4227	11	640 C	18	1	29.70	5.00	2	42	7	G
4024	4224	12	620 C	19	10	25.30	6.30	2	40	7	P
4224	4239	12	640 C	19	20	20.60	6.00	2	42	7	P
4239	4201	13	640 C	19	20	27.50	5.00	2	42	7	G
3804	3830	14	610 C	20	10	2.80	5.00	2	43	7	G
3830	3803	14	610 C	20	10	11.40	5.00	2	38	7	G
4227	4324	15	640 C	20	20	3.30	6.50	2	42	7	P
4324	3804	15	640 C	20	20	16.30	6.50	2	43	7	P
3925	3836	16	650 C	21	10	23.10	5.00	2	39	7	G
2730	2733	16	720 C	21	20	16.50	7.20	2	27	6	P
2733	3924	17	650 C	21	10	4.00	5.00	2	39	7	G
3924	3925	17	650 C	21	10	23.10	5.00	2	39	7	G
3924	2833	18	650 C	22	1	22.50	5.00	2	39	7	G
4221	3924	19	650 C	22	1	16.00	5.00	2	39	7	G
2731	2842	20	720 C	23	1	2.30	6.20	2	27	6	P
2842	2702	20	720 C	23	1	13.00	6.20	2	28	6	P
2730	2731	21	720 C	23	1	12.50	6.20	2	27	6	P
2701	2730	22	720 C	23	1	17.50	6.20	2	27	6	P
2828	2845	23	720 C	24	1	20.00	6.70	2	28	6	P
2829	2828	23	720 C	24	1	20.00	6.70	2	28	6	P
2845	2731	23	720 C	24	1	2.30	6.70	2	27	6	P
2723	2721	24	720 C	25	1	26.00	5.00	2	27	6	G
2723	2724	24	720 C	25	1	10.00	5.40	2	27	6	P
4239	4203	25	640 C	26	1	21.00	5.00	2	42	7	G
4051	4054	26	520 C	27	10	29.50	5.90	2	40	7	P
4121	4054	26	530 C	27	20	6.00	6.20	2	41	7	P
4105	4101	27	630 C	28	1	15.00	5.00	2	41	7	G
4101	4121	28	630 C	28	1	20.00	5.00	2	41	7	G
4139	4140	29	920 C	29	20	12.00	5.00	2	45	8	E
4101	4122	30	630 C	29	10	36.00	5.80	2	41	7	P
4139	4101	30	630 C	29	10	25.00	5.00	2	41	7	G
4504	4139	31	920 C	30	20	23.00	5.00	2	45	8	E
4527	4504	31	920 C	30	20	13.00	5.00	2	45	8	E
4533	4527	32	920 C	30	20	27.10	4.00	1	45	8	G
4621	4533	32	930 C	30	30	8.00	5.00		46	8	G
4536	4545	33	920 C	31	10	31.60	4.00	1	45	8	G
4622	4536	34	920 C	31	10	31.60	4.00	1	45	8	G
4621	4622	34	930 C	31	20	9.00	5.00	2	46	8	E

4624	4621	35	930	C	31	20	7.00	5.00	2	46	8	E
4539	4536	36	920	C	32	11	13.60	5.00	2	45	8	G
4444	4445	36	910	C	42	1	8.50	4.00	1	44	8	G
4445	4406	36	910	C	42	1	17.00	4.00	1	44	8	G
4602	4625	37	930	C	33	10	16.00	4.00	1	46	8	G
4624	4602	37	930	C	33	10	4.50	5.00	2	46	8	E
4401	4427	38	910	C	33	20	3.00	5.00	2	44	8	G
4444	4448	38	910	C	33	20	1.00	5.90	2	44	8	P
4448	4401	38	910	C	33	20	17.00	5.90	2	44	8	P
4627	4630	38	940	C	39	30	14.30	5.00	2	46	8	G
4427	4421	39	910	C	33	20	20.00	5.00	2	44	8	G
4602	4601	40	930	C	40	1	31.00	6.40	2	46	8	P
4625	4627	41	930	C	33	10	16.20	5.90	2	46	8	P
4627	4628	42	940	C	33	11	3.00	4.00	1	46	8	G
4421	4624	43	930	C	33	10	10.00	5.00	2	46	8	E
4039	4042	44	620	C	34	10	10.00	6.20	2	40	7	P
4042	4045	44	620	C	34	10	10.00	6.20	2	40	7	P
4045	4048	44	620	C	34	10	11.70	6.20	2	40	7	P
2766	2763	44	720	C	34	20	8.20	6.50	2	27	6	P
4033	4039	45	620	C	34	10	10.00	6.20	2	40	7	P
2766	4033	46	620	C	34	10	10.50	6.20	2	40	7	P
2703	2742	47	720	C	35	10	24.70	5.00	2	27	6	G
2742	2739	47	720	C	35	10	24.70	5.00	2	27	6	G
2751	2703	47	720	C	35	10	1.60	6.80	2	27	6	P
2739	4005	47	620	C	35	20	5.00	5.00	2	40	7	G
4005	2766	47	820	C	35	20	10.00	6.50	2	40	7	P
2766	2745	48	820	C	35	20	9.00	6.50	2	27	6	P
3103	3101	49	830	C	36	11	30.90	6.00	2	31	6	P
3636	3103	49	770	C	36	21	22.50	6.20	2	36	6	P
4030	4033	50	620	C	37	10	9.90	6.30	2	40	7	P
4033	4036	50	620	C	37	10	9.90	6.30	2	40	7	P
3602	3133	50	770	C	37	30	10.50	5.00	2	36	6	G
3136	3101	51	830	C	37	20	26.00	5.00	2	31	6	G
3101	3102	52	236	C	37	20	19.90	6.20	2	31	6	P
3102	4036	52	236	C	37	20	20.00	6.20	2	31	6	P
3133	3136	52	830	C	37	20	26.00	5.00	2	31	6	G
4730	4721	53	940	C	38	1	16.60	5.70	2	47	8	P
3627	3633	54	770	C	39	12	18.80	5.60	2	36	6	P
3101	3121	54	830	C	39	20	22.60	5.60	2	31	6	P
3633	3101	54	830	C	39	20	27.60	5.60	2	31	6	P
3601	3627	55	770	C	39	11	2.20	7.10	2	36	6	P
4733	3121	55	940	C	39	30	14.10	5.50	2	47	8	P
4627	4103	55	630	C	39	40	4.40	5.10	2	46	8	P
4630	4702	56	940	C	39	30	4.80	5.00	2	47	8	G
4702	4733	56	940	C	39	30	15.00	5.50	2	47	8	P
4636	4424	57	930	C	41	10	27.90	5.00	2	46	8	G
4422	4427	57	910	C	41	20	5.00	5.00	2	44	8	E
4424	4422	57	910	C	41	20	15.90	5.00	2	44	8	G
4403	4444	58	910	C	42	1	18.90	4.00	1	44	8	G
4433	4403	58	910	C	42	1	8.30	5.00		44	8	P
4545	4546	59	920	C	43	1	10.50	5.00	2	45	8	E
4546	4502	59	920	C	43	1	19.00	6.00	2	45	8	G
4442	4439	60	910	C	44	20	17.30	5.00	2	44	8	G
3402	3427	60	760	C	44	30	28.50	5.00	2	34	6	G
4439	3602	61	930	C	44	10	19.30	5.00	2	46	8	E
3431	3401	61	760	C	45	1	2.50	5.60	2	34	6	P
3430	3402	61	760	C	45	2	27.30	4.00	1	34	6	G
3530	3596	62	850	C	46	10	25.00	5.00	2	35	6	E
3596	3754	62	850	C	46	10	26.00	5.00	2	35	6	E
3749	3748	62	860	C	46	20	22.50	5.00	2	37	6	E
3754	3749	62	860	C	46	20	22.50	5.00	2	37	6	E
3502	3533	63	850	C	46	10	32.00	5.00	2	35	6	E
3533	3530	63	850	C	46	10	32.00	5.00	2	35	6	E

3401	3423	64	760	C	48	12	16.50	5.00	2	34	6	E
3423	3424	64	760	C	48	12	22.70	5.00	2	34	6	G
3424	3421	64	760	C	48	12	22.00	5.00	2	34	6	G
3421	3657	64	820	C	48	20	21.00	5.00	2	25	6	E
3657	3654	64	770	C	48	31	18.90	5.00	2	36	6	G
3645	3654	65	770	C	50	1	20.00	5.00	2	36	6	G
3654	3603	66	770	C	50	1	31.70	5.00	2	36	6	G
2403	2442	67	810	C	51	30	19.00	5.00	2	24	6	E
2922	2921	67	730	C	51	40	13.30	6.50		29	6	P
2921	2924	68	730	C	51	40	26.30	6.50		29	6	P
2442	2439	69	810	C	51	30	20.00	5.00	2	24	6	E
2453	2403	69	810	C	51	30	23.00	6.70	2	24	6	P
3645	3601	70	770	C	51	12	18.10	5.80	2	36	6	P
2503	2501	70	820	C	51	20	9.40	6.50	2	25	6	P
2524	2503	70	820	C	51	20	10.00	6.50	2	25	6	P
2401	2453	70	810	C	51	30	23.50	6.70	2	24	6	P
3648	3645	71	770	C	51	12	9.00	5.80	2	36	6	P
2454	2524	71	820	C	51	20	19.50	6.50	2	25	6	P
2501	3648	71	820	C	51	20	11.00	6.50	2	25	6	P
2454	2401	71	810	C	51	30	19.50	6.70	2	24	6	P
2439	2922	71	730	C	51	40	15.50	5.00	2	29	6	E
2502	2530	72	820	C	52	1	28.50	5.00	2	25	6	E
2527	2524	72	820	C	52	1	28.70	5.00	2	25	6	E
2530	2527	72	820	C	52	1	28.50	5.00	2	25	6	E
4810	3651	73	820	C	53	20	19.00	5.00	2	25	6	G
3640	3604	74	770	C	53	10	11.00	5.00	2	36	6	G
2501	3651	74	820	C	53	20	16.50	6.00	2	25	6	P
3639	4810	74	820	C	53	20	19.00	5.00	2	25	6	G
3640	3639	75	820	C	53	20	18.90	5.00	2	25	6	G
3643	3642	76	770	C	54	12	16.80	6.00	2	36	6	P
3639	2521	76	820	C	54	20	8.60	6.00	2	25	6	P
3639	3643	76	820	C	54	20	24.70	5.00	2	25	6	G
2436	2402	77	810	C	55	20	29.90	6.60	2	24	6	P
2433	3640	77	820	C	55	30	11.50	6.50	2	25	6	P
2436	3060	78	740	C	55	10	10.20	6.20	2	30	6	P
2402	2433	78	810	C	55	20	29.80	6.60	2	24	6	P
3032	3006	79	740	C	56	1	12.90	6.30	2	30	6	P
3003	3024	80	740	C	56	1	12.70	6.30	2	30	6	P
3005	3003	80	740	C	56	1	14.00	6.30	2	30	6	P
3006	3005	80	740	C	56	1	17.80	6.30	2	30	6	P
3239	3241	81	750	C	57	11	2.00	6.20	2	32	6	P
3241	3242	81	750	C	57	11	31.00	5.00	2	32	6	G
3242	3201	81	750	C	57	11	31.00	5.00	2	32	6	G
3006	3048	81	740	C	57	20	20.00	6.10	2	30	6	P
3048	3051	81	740	C	57	20	9.40	6.10	2	30	6	P
3051	3239	81	740	C	57	20	9.40	6.10	2	30	6	P
2301	2399	82	110	C	58	10	7.00	6.50	2	23	5	P
2399	2657	83	110	C	58	10	6.00	6.50	2	23	5	P
2657	2666	83	710	C	58	20	10.00	5.30	2	26	6	P
2666	2667	83	710	C	58	20	19.00	5.30	2	26	6	P
2667	2669	83	710	C	58	20	20.00	5.30	2	26	6	P
2669	2672	83	710	C	58	20	24.00	5.30	2	26	6	P
2672	2604	83	710	C	58	20	24.60	5.30	2	26	6	P
2321	1354	84	110	C	59	1	10.00	8.00	2	23	5	P
1354	2333	85	110	C	59	1	2.30	8.00	2	23	5	P
2324	2321	86	110	C	59	1	2.30	8.00	2	23	5	P
2397	2398	87	110	C	60	10	8.00	5.80	2	23	5	P
2398	2660	88	110	C	60	10	5.50	5.80	2	23	5	P
2660	2601	88	710	C	60	20	4.90	7.10	2	26	6	P
2397	2396	89	110	C	61	1	7.00	8.00	2	23	5	P
2301	2397	90	110	C	61	1	6.50	8.00	2	23	5	P
1851	2301	91	110	C	62	10	11.50	6.80	2	23	5	P
1804	1802	91	110	C	62	20	14.50	6.80	2	18	4	P

1802	1851	92	110	C	62	20	7.00	6.80	2	18	4	P
1802	1806	93	210	C	63	20	17.00	6.10	2	18	4	P
1806	2394	93	210	C	63	20	2.60	6.10	2	18	4	P
1836	1802	94	210	C	63	20	18.00	6.10	2	18	4	P
2398	2399	95	110	C	63	10	7.80	5.80	2	23	5	P
1803	1836	96	210	C	63	20	16.00	6.10	2	18	4	P
2394	2398	97	110	C	63	10	7.70	5.80	2	23	5	P
1833	1836	98	210	C	64	20	15.50	5.50	2	18	4	P
1836	1848	98	210	C	64	20	6.20	5.50	2	18	4	P
1848	2301	99	110	C	64	10	5.50	5.60	2	23	5	P
1830	1831	99	210	C	64	20	13.20	5.00	2	18	4	G

KENYA ROAD NETWORK DEVELOPMENT MASTER PLAN STUDY
TABLE OF EQUIVALENCE – MPOW Codes vs TRANPLAN Nodes
ROAD CLASS "C" – LINK GROUP 2

TRANPLAN Node# ANODE	BNODE	Super Link # (LG2)	MOPW Code Class	No.	Sec	Road Length [km]	Carr. Width [m]	Number of Lanes	District Number	Province Code	Surface Type [P/G/E]
1831	1833	1	210 C	64	20	18.10	5.50	2	18	4	P
1805	1833	2	210 C	65	1	13.00	5.90	2	18	4	P
1854	1805	2	210 C	65	1	19.50	5.90	2	18	4	P
1833	1803	3	210 C	65	1	13.00	5.90	2	18	4	P
1824	1827	4	210 C	66	10	25.50	5.80	2	18	4	P
1827	1830	4	210 C	66	10	25.50	5.80	2	18	4	P
2121	1824	4	240 C	66	20	4.50	5.40	2	18	4	P
1830	1801	5	210 C	66	10	14.00	5.80	2	18	4	P
2048	2051	6	230 C	67	10	15.40	5.00	2	20	4	G
2051	2054	6	230 C	67	10	31.10	5.00	2	20	4	P
2048	2130	6	240 C	67	20	24.90	5.00	2	21	4	G
2127	3063	7	740 C	67	30	11.00	5.00	2	21	4	G
2130	2127	8	240 C	67	20	5.10	5.00		21	4	P
3063	3002	8	740 C	67	30	6.90	6.00	2	30	6	P
2127	2124	9	240 C	68	1	13.10	6.50	2	21	4	P
2124	2121	9	240 C	68	1	5.00	6.50	2	21	4	P
2136	2143	10	240 C	69	20	17.00	5.00	2	21	4	G
2102	2142	11	240 C	69	20	21.00	5.00	2	21	4	G
2102	2143	11	240 C	69	20	2.00	5.50	2	21	4	P
2130	2133	11	240 C	69	20	25.00	5.00	2	21	4	G
2133	2144	11	240 C	69	20	20.00	5.00	2	21	4	E
2144	2136	11	240 C	69	20	17.00	5.00	2	21	4	G
2142	3036	12	740 C	69	10	17.60	5.30	2	30	6	P
2002	2024	13	230 C	70	10	8.00	5.00	2	20	4	G
2003	2002	13	230 C	70	10	15.00	5.00	2	20	4	G
2201	2204	14	230 C	70	10	20.00	6.20	2	22	4	P
2204	2045	14	230 C	70	10	13.00	6.20	2	22	4	P
2045	2003	14	250 C	70	20	23.00	6.10	2	20	4	P
2001	2004	15	230 C	71	1	14.00	6.30	2	20	4	P
2004	2005	15	230 C	71	1	15.00	6.30	2	20	4	P
2001	2003	16	230 C	72	1	25.10	5.60	2	20	4	P
1902	2001	17	230 C	73	20	12.10	5.80	2	20	4	P
1902	1904	18	220 C	73	10	18.80	6.10	2	19	4	P
1904	1924	19	220 C	73	10	4.00	6.10	2	19	4	P
1921	2227	20	250 C	74	10	4.00	6.10	2	19	4	P
1904	1901	20	220 C	74	20	9.50	6.10	2	19	4	P
1901	1921	21	220 C	74	20	14.50	6.10	2	19	4	P
2203	2201	22	250 C	75	1	9.20	6.10	2	22	4	P
2927	2928	23	730 C	76	10	15.00	5.00	2	29	6	G
2929	2927	23	730 C	76	10	20.00	5.00	2	29	6	G
2930	2929	23	730 C	76	10	20.00	5.00	2	29	6	G
2931	2901	23	730 C	76	10	3.00	5.70	2	29	6	P
2931	2930	23	730 C	76	10	21.00	5.00	2	29	6	G
2146	2928	23	240 C	76	20	12.00	5.00	2	21	4	G
3303	3345	24	840 C	77	40	17.20	5.00	2	33	6	E
3339	3301	24	840 C	77	40	27.50	5.00	2	33	6	G
3336	2939	25	840 C	77	40	19.00	5.00	2	33	6	G
3301	3336	26	840 C	77	40	17.50	5.00	2	33	6	G
3342	3339	27	840 C	77	40	27.50	5.00	2	33	6	G
3345	3342	28	840 C	77	40	27.50	5.00	2	33	6	G
3348	3303	28	840 C	77	40	25.00	5.00	2	33	6	E
1504	1580	28	450 C	77	50	24.00	5.00	2	15	3	E
1580	1581	28	450 C	77	50	24.00	5.00	2	15	3	E
1584	1587	28	450 C	77	50	14.80	5.00	2	15	3	E
2139	3004	29	740 C	77	10	18.10	6.00	2	30	6	P

2101	2103	29	240	C	77	20	11.70	6.00	2	21	4	P
2102	2139	29	240	C	77	20	14.80	6.00	2	21	4	P
2103	2102	29	240	C	77	20	25.50	6.00	2	21	4	P
2924	2101	29	730	C	77	30	9.70	6.10	2	29	6	P
2932	2924	29	730	C	77	30	30.00	6.10	2	29	6	P
2933	2932	29	730	C	77	30	24.40	5.00	2	29	6	G
2936	2933	29	730	C	77	30	33.30	5.00	2	29	6	G
2939	2936	29	730	C	77	30	15.60	5.00	2	29	6	G
1506	3348	29	840	C	77	40	8.50	5.00	2	15	3	E
1583	1584	29	450	C	77	50	20.00	5.00	2	15	3	E
1587	1590	29	450	C	77	50	23.00	5.00	2	15	3	E
1590	1591	29	450	C	77	50	25.50	5.00	2	15	3	E
1591	1593	29	450	C	77	50	25.00	5.00	2	15	3	E
1593	1506	29	450	C	77	50	33.50	5.00	2	15	3	E
1504	1578	29	450	C	82	0	36.00	5.00	2	15	3	E
1563	1501	29	450	C	82	0	29.50	5.00	2	15	3	E
1566	1563	29	450	C	82	0	32.00	5.00	2	15	3	E
1569	1566	29	450	C	82	0	32.00	5.00	2	15	3	E
1572	1569	29	450	C	82	0	32.80	5.00	2	15	3	E
1575	1572	29	450	C	82	0	20.00	5.00	2	15	3	E
1578	1575	29	450	C	82	0	36.00	5.00	2	15	3	E
1581	1583	30	450	C	77	50	20.00	5.00	2	15	3	E
3330	3331	31	840	C	78	1	19.00	5.00	2	33	6	G
3331	3351	31	840	C	78	1	18.00	5.00	2	33	6	G
3333	3330	31	840	C	78	1	18.00	5.00	2	33	6	G
3336	3333	31	840	C	78	1	33.00	5.00	2	33	6	G
3321	3350	31	840	C	79	1	22.00	5.00	2	33	6	G
3350	3351	31	840	C	79	1	22.00	5.00	2	33	6	G
1557	1560	32	450	C	80	10	34.00	5.00	2	15	3	E
1560	978	32	450	C	80	10	30.00	5.00	2	15	3	E
904	972	32	530	C	80	20	32.00	5.00	2	9	2	E
960	901	32	530	C	80	20	5.00	5.00	2	9	2	E
963	960	32	530	C	80	20	25.00	5.00	2	9	2	E
966	963	32	530	C	80	20	30.00	5.00	2	9	2	E
969	966	32	530	C	80	20	30.00	5.00	2	9	2	E
972	969	32	530	C	80	20	33.00	5.00	2	9	2	E
975	904	32	530	C	80	20	29.00	5.00	2	9	2	E
978	975	32	530	C	80	20	10.00	5.00	2	9	2	E
703	1121	33	510	C	81	1	31.00	5.00	2	11	3	E
1121	1124	33	510	C	81	1	31.00	5.00	2	11	3	E
1124	1127	33	510	C	81	1	31.00	5.00	2	11	3	E
1127	1130	33	510	C	81	1	31.00	5.00	2	11	3	E
1130	1103	33	510	C	81	1	33.50	5.00	2	11	3	E
2140	2142	34	740	C	83	10	2.00	5.00		21	4	P
2103	2141	34	240	C	83	20	21.70	5.00	2	21	4	G
2141	2140	34	240	C	83	20	9.00	5.00		21	4	P
4057	4003	35	620	C	86	1	11.40	6.20	2	40	7	P
3002	3043	36	740	C	88	1	20.00	6.30	2	30	6	P
3043	3042	36	740	C	88	1	19.90	6.30	2	30	6	P
2330	1354	37	110	C	89	1	2.00	7.00	2	23	5	P
1354	1355	38	110	C	89	1	2.50	7.00	2	23	5	P
4142	4143	39	630	C	90	10	24.80	5.00	2	41	7	G
4143	4139	39	920	C	90	20	4.50	5.00	2	45	8	G
1024	1027	40	410	C	92	10	20.00	5.00	2	10	3	G
1027	1030	40	410	C	92	10	21.00	5.00	2	10	3	G
1601	1621	41	460	C	92	20	21.70	5.00	2	16	3	G
1621	1727	41	460	C	92	20	12.80	5.00	2	16	3	G
1724	1721	41	460	C	92	20	10.00	5.00	2	17	3	G
1721	1024	41	460	C	92	20	5.00	5.00	2	17	3	G
1727	1724	41	460	C	92	20	18.50	5.00	2	17	3	G
1263	1202	42	430	C	93	10	29.00	5.00	2	12	3	G
1264	1263	42	430	C	93	10	29.00	5.00	2	12	3	G
1266	1264	42	430	C	93	10	19.30	5.00	2	12	3	E

1272	1266	42	430	C	93	10	20.00	5.00	2	12	3	E
1021	1024	42	410	C	93	20	4.00	5.00	2	10	3	G
1272	1021	42	410	C	93	20	8.30	5.00	2	10	3	E
1239	1236	43	430	C	94	1	20.00	5.00	2	12	3	G
1242	1239	43	430	C	94	1	22.70	5.00	2	12	3	G
1336	1339	44	440	C	97	10	9.80	6.30	2	13	3	P
1339	1301	45	440	C	97	10	32.50	6.30	2	13	3	P
1248	1336	46	440	C	97	10	27.90	6.30	2	13	3	P
1301	1360	46	440	C	97	10	15.30	6.30	2	13	3	P
1248	1233	47	430	C	97	20	25.50	7.00	2	12	3	P
1342	1345	48	440	C	98	20	20.00	5.00	2	13	3	G
1348	1351	48	440	C	98	20	30.00	5.80	2	13	3	P
1348	1345	48	440	C	98	20	6.60	5.80	2	13	3	P
2321	1351	49	110	C	98	10	25.00	7.00	2	23	5	P
1303	1301	50	440	C	99	1	20.30	5.80	2	13	3	P
1327	1446	50	470	C	99	2	30.00	5.00	2	14	3	G
1301	1327	51	440	C	99	1	9.50	5.80	2	13	3	P
1345	1303	51	440	C	99	1	20.50	5.00	2	13	3	G
1446	1430	51	470	C	99	2	25.00	5.00	2	14	3	G
1427	1401	52	470	C	99	2	27.00	5.00	2	14	3	G
1430	1427	52	470	C	99	2	27.00	5.00	2	14	3	G
1369	1342	53	440	C	100	1	27.20	5.00	2	13	3	G
1342	1339	54	440	C	100	1	5.00	5.00	2	13	3	G
1336	1333	55	440	C	101	1	10.00	5.00	2	13	3	G
1330	1430	55	470	C	101	2	21.00	5.00	2	14	3	G
1333	1330	55	470	C	101	2	21.00	5.00	2	14	3	G
1401	2676	56	710	C	102	1	12.00	5.00		26	6	P
2648	2642	56	710	C	102	1	21.50	5.00	2	26	6	G
2651	2648	56	710	C	102	1	21.50	5.00	2	26	6	G
2654	2651	56	710	C	102	1	21.50	5.00	2	26	6	G
2676	2654	56	710	C	102	1	21.50	5.00	2	26	6	G
2645	2605	57	710	C	102	1	9.00	5.00	2	26	6	G
2642	2645	58	710	C	102	1	5.00	5.00	2	26	6	G
2675	2645	59	710	C	103	10	26.00	5.00	2	26	6	G
504	549	59	350	C	103	20	20.00	5.00		5	1	G
541	505	59	350	C	103	20	17.50	5.00		5	1	G
542	541	59	350	C	103	20	17.50	5.00		5	1	G
544	542	59	350	C	103	20	17.50	5.00		5	1	G
130	128	59	310	C	103	30	20.00	5.00	2	1	1	G
551	130	60	350	C	103	20	20.00	5.00		5	1	G
102	129	60	310	C	103	30	7.00	5.00	2	1	1	P
107	129	60	310	C	103	30	32.00	5.00	2	1	1	G
127	107	60	310	C	103	30	32.00	5.00	2	1	1	G
128	127	60	310	C	103	30	25.10	5.00	2	1	1	G
545	2675	61	710	C	103	10	26.00	5.00	2	26	6	G
2633	2603	61	710	C	103	10	32.00	5.00	2	26	6	G
2636	2633	61	710	C	103	10	33.00	5.00	2	26	6	G
2639	2636	61	710	C	103	10	13.00	5.00	2	26	6	G
4809	2639	61	710	C	103	10	19.00	5.00	2	26	6	G
2642	4809	61	710	C	103	10	19.00	5.00	2	26	6	G
545	544	61	350	C	103	20	17.50	5.00		5	1	G
548	551	61	350	C	103	20	20.00	5.00		5	1	G
549	548	61	350	C	103	20	20.00	5.00		5	1	G
527	501	62	350	C	105	1	4.00	6.50	2	5	1	P
501	530	63	350	C	105	1	2.50	6.50	2	5	1	P
204	234	64	320	C	106	1	18.00	6.00	2	2	1	P
228	203	64	320	C	106	1	19.00	5.00	2	2	1	E
233	228	64	320	C	106	1	19.00	5.00	2	2	1	E
234	233	64	320	C	106	1	19.00	5.00	2	2	1	E
201	261	65	320	C	106	1	18.70	5.00	2	2	1	E
204	201	65	320	C	106	1	19.00	5.00	2	2	1	E
142	145	66	310	C	107	10	11.00	5.00	2	1	1	E
103	251	67	320	C	107	20	27.00	5.00	2	2	1	G

145	106	68	310	C	107	10	19.00	5.00	2	1	1	E
106	103	69	310	C	107	10	19.00	5.00	2	1	1	E
251	204	69	320	C	107	20	15.00	5.00	2	2	1	E
221	222	70	320	C	108	1	14.00	5.00	2	2	1	G
222	224	70	320	C	108	1	26.40	5.00	2	2	1	G
224	227	70	320	C	108	1	9.60	5.00	2	2	1	G
106	151	71	310	C	111	1	21.20	6.50	2	1	1	P
602	330	72	360	C	112	10	29.00	5.00		6	1	P
302	333	72	330	C	112	20	33.00	5.00	2	3	1	E
321	303	72	330	C	112	20	7.40	5.00	2	3	1	E
330	302	72	330	C	112	20	25.00	5.00	2	3	1	E
333	336	72	330	C	112	20	14.00	5.00	2	3	1	E
336	321	72	330	C	112	20	14.00	5.00	2	3	1	E
2451	2427	73	810	C	113	10	30.00	5.00	2	24	6	G
3521	3599	73	850	C	113	20	19.70	5.00	2	35	6	E
3524	3598	73	850	C	113	20	20.00	5.00	2	35	6	E
3527	3524	73	850	C	113	20	20.80	5.00	2	35	6	E
3530	3597	73	850	C	113	20	14.80	5.00	2	35	6	E
3597	3527	73	850	C	113	20	20.00	5.00	2	35	6	E
3598	3521	73	850	C	113	20	18.70	5.00	2	35	6	E
3599	2451	73	850	C	113	20	20.00	5.00	2	35	6	E
136	139	74	310	C	115	1	19.30	5.00	2	1	1	E
139	145	74	310	C	115	1	19.90	5.00	2	1	1	E
921	702	75	510	C	116	10	19.00	5.00	2	7	2	E
924	921	75	530	C	116	20	30.00	5.00	2	9	2	E
927	924	75	530	C	116	20	30.00	5.00	2	9	2	E
930	927	75	530	C	116	20	30.00	5.00	2	9	2	E
933	930	75	530	C	116	20	30.00	5.00	2	9	2	E
936	933	75	530	C	116	20	34.00	5.00	2	9	2	E
4542	4539	76	920	C	32	12	5.60	5.00	2	44	8	G
4406	4554	76	910	C	32	21	15.90	4.00	1	45	8	G

Table 7 OD Matrices

BASE YEAR (1994) CALIBRATED TOTAL PCU OD MATRIX [pcu/day]

O/D	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26
1	940	99	9	3666	38	10	0	0	0	0	0	0	4	0	0	0	0	1	0	0	0	0	93	0	0	0
2	98	38	0	1659	34	0	0	0	0	0	0	0	3	0	0	0	0	0	0	0	0	1	14	0	0	0
3	10	0	0	29	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	17	0	0	0
4	3669	1650	28	1172	270	25	8	0	0	7	0	46	34	17	18	35	0	84	0	21	1	24	447	4	0	21
5	38	34	0	268	6	0	0	0	0	0	0	0	0	16	0	0	0	20	0	0	0	0	64	0	0	0
6	13	0	0	30	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	5	0	0	0
7	0	0	0	10	0	0	0	0	0	0	0	0	0	0	0	0	0	8	0	7	0	0	31	0	0	0
8	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	8	0	0	0
9	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3	0	0	0
10	0	0	0	6	0	0	0	0	0	359	6	2	0	5	0	135	25	33	1	0	4	5	208	0	0	0
11	0	0	0	0	0	0	0	0	0	6	0	0	0	0	0	5	0	0	0	0	0	4	87	0	0	0
12	0	0	0	53	0	0	0	0	0	2	0	822	38	0	0	4	0	316	0	7	0	5	533	0	2	0
13	4	4	0	33	0	0	0	0	0	0	0	36	17	0	2	3	0	65	7	17	16	23	3175	0	3	96
14	0	0	0	16	16	0	0	0	0	3	0	0	0	0	0	0	0	28	0	0	0	0	337	0	0	1
15	0	0	0	21	0	0	0	0	0	0	0	0	3	0	0	0	0	2	0	0	0	0	41	0	0	0
16	0	0	0	35	0	0	0	0	0	134	5	4	2	0	0	5	0	25	27	2	15	79	284	0	0	0
17	0	0	0	0	0	0	0	0	0	30	0	0	0	0	0	0	0	0	0	5	0	0	18	0	0	1
18	1	0	0	88	20	0	9	0	0	30	0	319	63	27	1	28	0	3648	31	1468	20	73	5248	0	10	36
19	0	0	0	0	0	0	0	0	0	1	0	0	6	0	0	28	0	31	0	0	0	0	318	0	0	1
20	0	1	0	20	0	0	6	0	0	0	0	7	17	0	0	2	5	1476	0	19	2	0	924	0	0	6
21	0	0	0	3	0	0	0	0	0	4	0	0	17	0	0	12	0	21	0	3	1488	363	204	3	0	8
22	0	2	0	25	0	0	0	0	0	6	4	6	21	0	0	82	0	67	0	0	365	13	556	1	0	0
23	96	12	17	444	65	7	29	5	3	207	86	532	3169	334	40	285	14	5243	316	923	204	553	2370	54	11	708
24	0	0	0	6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3	2	58	164	3	0
25	0	0	0	0	0	0	0	0	0	0	0	3	2	0	0	0	0	10	0	0	0	0	11	2	6	0
26	0	0	0	25	0	0	0	0	0	0	0	0	101	1	0	0	1	36	1	4	9	0	708	0	0	237
27	0	0	0	42	0	0	0	0	0	0	0	3	0	0	0	20	0	44	0	2	2	0	229	8	0	0
28	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	4	0	0	0	0	9	0	0	0
29	0	0	0	38	0	0	0	0	0	3	62	0	0	0	4	416	0	14	5	0	35	20	102	0	0	0
30	0	2	0	77	2	0	0	0	0	5	0	4	127	8	2	29	3	273	10	6	88	123	1755	150	4	11
31	0	0	0	16	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	26	0	0	0
32	2	0	0	17	0	0	0	0	0	0	0	4	14	0	0	0	0	28	0	9	21	3	296	0	0	12
33	3	1	0	30	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	55	0	0	0
34	0	0	0	13	0	0	0	0	0	10	0	0	4	0	0	6	0	16	0	0	0	5	111	10	0	8
35	0	0	0	107	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3	0	103	0	0	0
36	1	0	0	35	0	0	0	0	0	0	0	0	2	0	0	11	0	11	7	0	0	5	205	40	0	0
37	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	15	0	0	0
38	0	0	0	49	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3	4	247	0	0	0
39	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	4	0	0	0
40	0	0	0	85	0	0	0	0	0	0	0	0	0	0	0	3	0	45	4	0	3	22	478	0	0	0
41	0	0	0	5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	28	0	0	0
42	0	0	0	18	0	0	0	0	0	0	0	0	0	0	0	2	0	13	0	0	0	0	87	3	0	0
43	0	0	0	81	0	0	0	0	0	0	0	0	42	0	0	0	0	13	0	0	0	0	99	0	0	0
44	0	0	0	47	0	0	0	0	0	0	0	3	2	0	0	9	0	2	0	0	0	0	129	0	0	0
45	0	0	0	55	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	5	0	0	115	0	2	0
46	0	0	0	11	0	0	3	0	0	0	0	0	5	0	3	14	0	10	0	0	0	3	193	0	0	0
47	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	14	0	0	0
48	2	0	0	153	0	0	0	0	0	0	0	0	0	0	0	3	0	0	0	0	3	0	189	0	0	0
49	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	7	0	0	0
50	0	0	0	12	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	17	0	0	7
51	0	0	0	89	0	0	0	0	0	0	0	0	0	0	0	0	0	4	0	0	0	0	191	0	0	16
TOTAL	4886	1843	54	8590	451	42	55	5	3	807	163	1591	3693	408	70	1137	48	11891	409	2498	2735	1330	20466	429	35	1169

O/D	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	TOTAL
1	0	0	0	0	0	2	3	0	0	2	0	0	0	0	0	0	0	0	0	0	0	3	0	0	0	4879
2	0	0	0	1	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1849
3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	56
4	43	0	35	80	10	20	27	15	102	38	1	39	0	90	5	11	82	38	55	9	0	148	0	15	86	8530
5	0	0	0	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	449
6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	48
7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	4	0	0	0	0	0	60
8	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	8
9	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3
10	0	0	2	4	0	0	0	10	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	805
11	0	0	61	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	163
12	4	0	0	4	0	2	0	0	0	0	0	0	0	0	0	0	0	3	0	0	0	0	0	0	0	1595
13	0	0	0	126	0	13	0	3	0	0	0	0	0	0	0	0	37	4	0	4	0	0	0	0	0	3658
14	0	0	0	7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	408
15	0	0	4	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3	0	0	0	0	0	76
16	24	0	417	30	0	0	0	6	0	11	0	0	0	3	0	3	0	9	0	13	0	2	0	0	0	1135
17	0	0	0	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	57
18	38	3	15	275	0	28	0	15	0	12	0	0	0	43	0	10	16	2	0	10	0	0	0	0	3	11890
19	0	0	5	10	0	0	0	0	0	5	0	0	0	4	0	0	0	0	0	0	0	0	0	0	0	409
20	1	0	0	7	0	9	0	0	0	0	0	0	0	0	0	0	0	0	5	0	0	0	0	0	0	2507
21	4	0	33	87	0	22	0	0	3	0	0	4	0	2	0	0	0	0	0	0	0	3	0	0	0	2734
22	0	0	20	122	0	3	0	5	0	6	0	3	0	25	0	0	0	0	0	4	0	0	0	0	0	1336
23	219	7	103	1752	27	296	54	107	103	199	14	246	8	473	30	81	104	128	123	187	10	203	7	13	191	20412
24	12	0	0	150	0	0	0	10	0	38	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	436
25	0	0	0	4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3	0	0	0	0	0	0	35
26	0	0	0	11	0	12	0	8	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	7	17	1178
27	4	0	0	810	0	4	0	1	0	7	0	176	0	249	3	15	12	4	1	24	1	0	0	0	2	1663
28	0	0	0	24	0	4	0	0	0	2	3	6	0	11	0	2	0	0	0	0	0	0	0	0	0	65
29	0	0	237	17	0	0	6	0	0	0	0	0	0	0	0	0	0	0	0	4	0	0	0	0	0	963
30	805	23	18	483	29	39	6	87	14	247	7	213	2	355	8	12	60	23	58	56	0	10	0	0	22	5256
31	0	0	0	30	0	0	0	10	0	3	0	2	0	20	0	0	0	6	0	7	0	0	0	0	0	120
32	2	6	0	43	0	174	3	4	0	0	0	8	0	1	0	7	3	0	0	5	0	0	0	0	0	662
33	0	0	7	5	0	3	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	105
34	1	0	0	86	9	3	0	18	3	561	0	0	0	84	5	0	2	69	2	24	17	0	0	0	0	1065
35	0	0	0	14	0	0	0	3	3	13	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	247
36	11	3	0	243	3	0	0	555	15	408	54	3	0	33	2	0	0	215	43	25	13	0	0	0	7	1950
37	0	3	0	6	0	0	0	0	0	55	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	80
38	174	7	0	218	2	7	1	0	0	3	0	860	23	178	6	69	195	7	4	3	0	1	0	0	0	1761
39	0	0	0	3	0	0	0	0	0	0	0	23	0	9	0	2	0	0	0	0	0	0	0	0	0	41
40	248	8	3	353	20	2	0	89	0	33	0	172	8	1548	704	214	231	54	323	846	112	4	0	0	3	5650
41	3	0	0	14	0	0	0	4	0	2	0	6	0	702	0	5	0	2	0	6	0	0	0	0	0	777
42	15	2	0	15	0	4	0	0	0	0	0	70	2	218	5	483	152	2	2	2	7	0	0	0	0	1102
43	12	0	0	54	0	2	0	2	0	0	0	196	0	231	0	152	2	3	1	1	0	0	0	0	0	891
44	4	0	0	30	5	0	0	69	0	209	0	6	0	55	0	2	5	187	8	42	7	0	0	0	41	1062
45	1	0	0	58	0	0	0	2	0	40	0	4	0	323	0	2	1	6	0	4	0	0	0	0	0	618
46	26	0	4	57	7	7	0	21	0	27	0	3	0	846	6	2	1	43	5	997	555	0	0	0	0	2849
47	1	0	0	6	0	0	0	19	0	14	0	0	0	111	0	8	0	7	0	555	0	0	0	0	0	735
48	0	0	2	8	0	0	0	0	0	0	0	1	0	3	0	0	0	0	0	0	0	0	0	1	1	366
49	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	7
50	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	37
51	2	0	0	22	0	0	0	0	1	7	0	0	0	3	0	0	0	41	0	0	0	1	0	0	0	377
TOTAL	1654	62	966	5277	112	656	101	1061	244	1942	79	1742	43	5655	774	1080	903	1053	633	2835	722	376	7	36	374	93195

YEAR 2000 TOTAL PCU OD MATRIX [pcu/day]

O/D	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26
1	1252	148	19	4102	89	23	0	0	0	0	0	0	5	0	0	0	0	1	0	0	0	0	135	0	0	0
2	148	60	0	1956	94	0	0	0	0	0	0	0	4	0	0	0	0	0	0	0	0	3	20	0	0	0
3	20	0	0	48	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	48	0	0	0
4	4101	1943	46	1060	509	64	10	0	0	7	0	40	40	14	20	30	0	79	0	29	2	44	439	5	0	22
5	90	93	0	503	25	0	0	0	0	0	0	0	0	26	0	0	0	48	0	0	0	0	134	0	0	0
6	28	0	0	83	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	10	0	0	0
7	0	0	0	13	0	0	0	0	0	0	0	0	0	0	0	0	0	25	0	29	0	0	58	0	0	0
8	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	14	0	0	0
9	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	6	0	0	0
10	0	0	0	5	0	0	0	0	0	432	12	2	0	5	0	167	38	39	4	0	11	8	285	0	0	0
11	0	0	0	0	0	0	0	0	0	11	0	0	0	0	0	6	0	0	0	0	0	6	133	0	0	0
12	0	0	0	46	0	0	0	0	0	2	0	712	44	0	0	6	0	360	0	12	0	12	662	0	5	0
13	5	5	0	39	0	0	0	0	0	0	0	42	18	0	2	3	0	70	24	27	18	43	3726	0	19	102
14	0	0	0	13	26	0	0	0	0	3	0	0	0	0	0	0	0	26	0	0	0	0	359	0	0	1
15	0	0	0	24	0	0	0	0	0	0	0	0	3	0	0	0	0	7	0	0	0	0	60	0	0	0
16	0	0	0	29	0	0	0	0	0	167	6	4	2	0	0	8	0	30	40	4	26	141	360	0	0	0
17	0	0	0	0	0	0	0	0	0	46	0	0	0	0	0	0	0	0	0	6	0	0	35	0	0	2
18	1	0	0	83	46	0	24	0	0	36	0	365	68	25	3	32	0	4479	85	2344	23	132	6611	0	39	44
19	0	0	0	0	0	0	0	0	0	4	0	0	20	0	0	43	0	86	0	0	0	0	721	0	0	3
20	0	2	0	27	0	0	23	0	0	0	0	12	27	0	0	4	6	2371	0	60	3	0	1602	0	0	12
21	0	0	0	3	0	0	0	0	0	10	0	0	20	0	0	20	0	25	0	5	2351	555	272	3	0	10
22	0	5	0	45	0	0	0	0	0	10	6	14	40	0	0	148	0	116	0	0	556	26	1149	3	0	0
23	137	16	48	423	134	14	56	9	6	285	132	662	3735	357	60	359	23	6597	715	1600	274	1144	9126	93	24	938
24	0	0	0	7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	4	5	95	257	9	0
25	0	0	0	0	0	0	0	0	0	0	0	8	13	0	0	0	0	39	0	0	0	0	24	6	0	0
26	0	0	0	23	0	0	0	0	0	0	0	0	109	1	0	0	1	43	3	8	11	0	940	0	0	291
27	0	0	0	52	0	0	0	0	0	0	0	5	0	0	0	29	0	82	0	5	4	0	371	16	0	0
28	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	9	0	0	0	0	33	0	0	0
29	0	0	0	37	0	0	0	0	0	4	113	0	0	0	8	535	0	20	10	0	42	37	144	0	0	0
30	0	3	0	67	6	0	0	0	0	5	0	5	134	8	10	32	4	330	23	10	110	224	2097	225	25	14
31	0	0	0	77	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	185	0	0	0
32	2	0	0	19	0	0	0	0	0	0	0	5	18	0	0	0	0	39	0	15	27	7	427	0	0	19
33	6	2	0	42	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	104	0	0	0
34	0	0	0	16	0	0	0	0	0	16	0	0	4	0	0	8	0	24	0	0	0	8	182	15	0	16
35	0	0	0	94	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3	0	117	0	0	0
36	1	0	0	39	0	0	0	0	0	0	0	0	2	0	0	14	0	16	26	0	0	15	312	86	15	0
37	0	0	0	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	23	0	0	0
38	0	0	0	49	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	5	9	328	0	0	0
39	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	11	0	0	0
40	0	0	0	56	0	0	0	0	0	0	0	0	0	0	0	3	0	51	6	0	5	44	479	0	0	0
41	0	0	0	6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	41	0	0	0
42	0	0	0	18	0	0	0	0	0	0	0	0	0	0	0	3	0	17	0	0	0	0	116	4	0	0
43	0	0	0	71	0	0	0	0	0	0	0	0	48	0	0	0	0	18	0	0	0	0	104	0	0	0
44	0	0	0	48	0	0	0	0	0	0	0	4	2	0	0	13	0	3	0	0	0	0	195	0	0	0
45	0	0	0	55	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	11	0	0	176	0	6	0
46	0	0	0	9	0	0	4	0	0	0	0	0	6	0	4	21	0	19	0	0	0	8	302	0	0	0
47	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	16	0	0	0
48	3	0	0	170	0	0	0	0	0	0	0	0	0	0	0	5	0	0	0	0	4	0	291	0	0	0
49	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	10	0	0	0
50	0	0	0	14	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	24	0	0	11
51	0	0	0	80	0	0	0	0	0	0	0	0	0	0	0	0	0	6	0	0	0	0	86	0	0	22
TOTAL	5794	2286	113	9554	929	101	117	9	6	1038	269	1880	4359	436	107	1486	72	15075	938	4174	3479	2470	27178	723	142	1507

O/D	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	TOTAL
1	0	0	0	0	0	3	5	0	0	2	0	0	0	0	0	0	0	0	0	0	0	4	0	0	0	5788
2	0	0	0	1	0	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2297
3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	116
4	53	0	34	73	48	25	38	19	91	44	4	38	0	62	6	10	76	38	57	6	0	166	0	17	78	9487
5	0	0	0	9	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	928
6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	121
7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	6	0	0	0	0	0	131
8	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	14
9	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	6
10	0	0	3	5	0	0	0	15	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1031
11	0	0	113	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	269
12	7	0	0	5	0	2	0	0	0	0	0	0	0	0	0	0	0	4	0	0	0	0	0	0	0	1879
13	0	0	0	133	0	18	0	4	0	0	0	0	0	0	0	0	42	5	0	5	0	0	0	0	0	4347
14	0	0	0	7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	435
15	0	0	7	10	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3	0	0	0	0	0	114
16	37	0	536	33	0	0	0	8	0	15	0	0	0	3	0	4	0	13	0	19	0	3	0	0	0	1485
17	0	0	0	5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	94
18	70	8	21	333	0	37	0	23	0	17	0	0	0	50	0	13	21	4	0	19	0	0	0	0	4	15060
19	0	0	11	22	0	0	0	0	0	18	0	0	0	8	0	0	0	0	0	0	0	0	0	0	0	936
20	3	0	0	12	0	15	0	0	0	0	0	0	0	0	0	0	0	0	10	0	0	0	0	0	0	4198
21	8	0	39	107	0	30	0	0	3	0	0	5	0	3	0	0	0	0	0	0	0	4	0	0	0	3473
22	0	0	37	225	0	7	0	8	0	19	0	7	0	51	0	0	0	0	0	10	0	0	0	0	0	2481
23	368	28	146	2089	171	429	101	176	116	309	17	327	22	476	45	108	107	191	190	290	12	310	10	19	85	27109
24	24	0	0	222	0	0	0	14	0	89	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	736
25	0	0	0	25	0	0	0	0	0	15	0	0	0	0	0	0	0	0	9	0	0	0	0	0	0	139
26	0	0	0	15	0	17	0	17	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	11	25	1515
27	12	0	0	1502	0	9	0	3	0	14	0	331	0	487	8	35	24	7	5	56	2	0	0	0	4	3063
28	0	0	0	62	0	7	0	0	0	3	6	13	0	19	0	5	0	0	0	0	0	0	0	0	0	157
29	0	0	300	24	0	0	12	0	0	0	0	0	0	0	0	0	0	0	0	11	0	0	0	0	0	1297
30	1489	64	25	1041	190	50	10	139	15	335	20	266	4	390	11	15	78	38	86	89	0	13	0	0	42	7742
31	0	0	0	204	0	0	0	49	0	30	0	15	0	122	0	0	0	43	0	32	0	0	0	0	0	737
32	4	10	0	58	0	249	6	10	0	0	0	10	0	2	0	9	4	0	0	7	0	0	0	0	0	947
33	0	0	13	8	0	6	0	0	0	0	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	183
34	4	0	0	137	47	8	0	28	4	957	0	0	0	110	7	0	3	128	3	48	22	0	0	0	0	1795
35	0	0	0	15	0	0	0	4	3	34	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	271
36	25	5	0	327	29	0	0	948	36	867	126	3	0	45	3	0	0	381	78	39	13	0	0	0	198	3439
37	0	6	0	18	0	0	0	0	0	128	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	178
38	326	16	0	273	15	9	2	0	0	5	0	891	50	202	7	94	242	14	7	4	0	2	0	0	0	2350
39	0	0	0	5	0	0	0	0	0	0	0	50	0	27	0	4	0	0	0	0	0	0	0	0	0	97
40	475	15	3	390	121	2	0	119	0	46	0	192	26	1736	880	237	280	78	433	1147	103	5	0	0	3	6936
41	7	0	0	19	0	0	0	8	0	4	0	7	0	877	0	7	0	3	0	10	0	0	0	0	0	987
42	34	6	0	20	0	6	0	0	0	0	0	97	4	242	7	819	194	5	3	3	9	0	0	0	0	1407
43	25	0	0	74	0	3	0	2	0	0	0	244	0	276	0	195	2	5	3	2	0	0	0	0	0	1072
44	7	0	0	50	41	0	0	127	0	373	0	13	0	79	0	5	8	744	15	85	12	0	0	0	58	1892
45	5	0	0	82	0	0	0	3	0	74	0	7	0	432	0	2	3	13	0	8	0	0	0	0	0	877
46	61	0	11	88	32	10	0	43	0	42	0	4	0	1148	10	3	1	87	7	1877	669	0	0	0	0	4166
47	2	0	0	10	0	0	0	24	0	15	0	0	0	103	0	9	0	11	0	672	0	0	0	0	0	862
48	0	0	3	11	0	0	0	0	0	0	0	1	0	4	0	0	0	0	0	0	0	8	0	2	1	495
49	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	10
50	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	50
51	5	0	0	40	0	0	0	0	1	197	0	0	0	4	0	0	0	69	0	0	0	1	0	0	0	511
TOTAL	3051	158	1302	7789	694	942	176	1789	269	3442	173	2323	106	6957	984	1374	1085	1881	906	4148	842	509	10	49	509	125710

YEAR 2005 TOTAL PCU OD MATRIX [pcu/day]

O/D	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26
1	1647	231	33	4827	150	41	0	0	0	0	0	0	7	0	0	0	0	2	0	0	0	0	189	0	0	0
2	229	107	0	2401	181	0	0	0	0	0	0	0	7	0	0	0	0	0	0	0	0	5	23	0	0	0
3	34	0	0	69	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	82	0	0	0
4	4824	2376	67	1023	825	116	12	0	0	7	0	38	54	11	24	34	0	81	0	36	1	60	471	6	0	20
5	151	178	0	811	64	0	0	0	0	0	0	0	0	37	0	0	0	84	0	0	0	0	224	0	0	0
6	49	0	0	151	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	20	0	0	0
7	0	0	0	16	0	0	0	0	0	0	0	0	0	0	0	0	0	46	0	54	0	0	91	0	0	0
8	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	22	0	0	0
9	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	10	0	0	0
10	0	0	0	5	0	0	0	0	0	587	20	3	0	5	0	269	65	50	7	0	18	14	409	0	0	0
11	0	0	0	0	0	0	0	0	0	18	0	0	0	0	0	7	0	0	0	0	0	8	195	0	0	0
12	0	0	0	45	0	0	0	0	0	3	0	797	58	0	0	6	0	401	0	19	0	19	788	0	8	0
13	7	9	0	53	0	0	0	0	0	0	0	55	15	0	2	3	0	83	46	41	22	65	4770	0	36	114
14	0	0	0	11	37	0	0	0	0	3	0	0	0	0	0	0	0	26	0	0	0	0	385	0	0	1
15	0	0	0	27	0	0	0	0	0	0	0	0	3	0	0	0	0	12	0	0	0	0	78	0	0	0
16	0	0	0	35	0	0	0	0	0	267	7	6	2	0	0	7	0	42	67	10	41	248	543	0	0	0
17	0	0	0	0	0	0	0	0	0	80	0	0	0	0	0	0	0	0	0	9	0	0	68	0	0	3
18	1	0	0	82	82	0	45	0	0	43	0	409	81	24	6	46	0	4973	142	3289	28	184	7908	0	68	52
19	0	0	0	0	0	0	0	0	0	7	0	0	40	0	0	74	0	143	0	0	0	0	1178	0	0	4
20	0	4	0	32	0	0	44	0	0	0	0	18	41	0	0	8	9	3332	0	150	5	0	2367	0	0	16
21	0	0	0	4	0	0	0	0	0	17	0	0	24	0	0	33	0	29	0	10	2804	748	345	5	0	12
22	0	9	0	59	0	0	0	0	0	17	9	21	60	0	0	260	0	161	0	0	759	38	1764	5	0	0
23	192	18	81	443	225	25	88	13	11	403	192	787	4790	381	80	543	38	7878	1170	2366	350	1761	9908	133	40	1158
24	0	0	0	8	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	5	8	137	376	16	0
25	0	0	0	0	0	0	0	0	0	0	0	13	24	0	0	0	0	68	0	0	0	0	40	11	0	0
26	0	0	0	22	0	0	0	0	0	0	0	0	125	1	0	0	2	50	4	11	13	0	1161	0	0	339
27	0	0	0	58	0	0	0	0	0	0	0	7	0	0	0	46	0	112	0	10	5	0	535	23	0	0
28	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	13	0	0	0	0	54	0	0	0
29	0	0	0	24	0	0	0	0	0	5	167	0	0	0	9	726	0	23	16	0	43	52	166	0	0	0
30	0	3	0	63	9	0	0	0	0	8	0	6	151	7	20	40	6	383	37	15	131	323	2599	290	45	15
31	0	0	0	127	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	299	0	0	0
32	3	0	0	21	0	0	0	0	0	0	0	5	22	0	0	0	0	48	0	22	36	11	559	0	0	23
33	7	3	0	51	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	150	0	0	0
34	0	0	0	18	0	0	0	0	0	24	0	0	5	0	0	10	0	31	0	0	0	12	254	20	0	24
35	0	0	0	84	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	4	0	138	0	0	0
36	2	0	0	42	0	0	0	0	0	0	0	0	3	0	0	20	0	21	48	0	0	20	431	127	24	0
37	0	0	0	5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	33	0	0	0
38	0	0	0	62	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	6	18	474	0	0	0
39	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	17	0	0	0
40	0	0	0	54	0	0	0	0	0	0	0	0	0	0	0	3	0	66	12	0	6	74	626	0	0	0
41	0	0	0	6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	53	0	0	0
42	0	0	0	21	0	0	0	0	0	0	0	0	0	0	0	5	0	22	0	0	0	0	162	5	0	0
43	0	0	0	64	0	0	0	0	0	0	0	0	56	0	0	0	0	21	0	0	0	0	126	0	0	0
44	0	0	0	51	0	0	0	0	0	0	0	4	4	0	0	22	0	5	0	0	0	0	263	0	0	0
45	0	0	0	56	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	16	0	0	240	0	11	0
46	0	0	0	5	0	0	7	0	0	0	0	0	7	0	5	32	0	29	0	0	0	12	416	0	0	0
47	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	18	0	0	0
48	3	0	0	162	0	0	0	0	0	0	0	0	0	0	0	8	0	0	0	0	4	0	445	0	0	0
49	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	13	0	0	0
50	0	0	0	18	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	32	0	0	14
51	0	0	0	78	0	0	0	0	0	0	0	0	0	0	0	0	0	9	0	0	0	0	116	0	0	31
TOTAL	7149	2938	181	11194	1573	182	196	13	11	1489	395	2169	5579	466	146	2202	120	18244	1549	6058	4281	3689	35442	1001	248	1826

O/D	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	TOTAL
1	0	0	0	0	0	3	7	0	0	4	0	0	0	0	0	0	0	0	0	0	0	5	0	0	0	7146
2	0	0	0	2	0	0	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2958
3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	165
4	61	0	20	71	79	28	48	21	83	47	6	47	0	61	6	13	71	40	56	3	0	160	0	21	76	11104
5	0	0	0	16	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1565
6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	220
7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	9	0	0	0	0	0	216
8	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	22
9	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	10
10	0	0	4	7	0	0	0	24	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1487
11	0	0	167	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	395
12	10	0	0	6	0	3	0	0	0	0	0	0	0	0	0	0	0	4	0	0	0	0	0	0	0	2167
13	0	0	0	149	0	24	0	4	0	0	0	0	0	0	0	0	47	8	0	6	0	0	0	0	0	5559
14	0	0	0	6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	469
15	0	0	9	20	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	5	0	0	0	0	0	154
16	56	0	726	42	0	0	0	11	0	19	0	0	0	4	0	7	0	20	0	31	0	5	0	0	0	2196
17	0	0	0	6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	166
18	95	10	25	385	0	47	0	29	0	24	0	0	0	61	0	16	25	5	0	28	0	0	0	0	6	18219
19	0	0	17	37	0	0	0	0	0	36	0	0	0	12	0	0	0	0	0	0	0	0	0	0	0	1548
20	5	0	0	18	0	23	0	0	0	0	0	0	0	0	0	0	0	0	15	0	0	0	0	0	0	6087
21	11	0	41	126	0	35	0	0	3	0	0	10	0	4	0	0	0	0	0	0	0	4	0	0	0	4265
22	0	0	53	322	0	11	0	11	0	36	0	14	0	85	0	0	0	0	0	17	0	0	0	0	0	3711
23	528	47	168	2590	310	567	145	245	135	427	26	474	33	623	58	147	129	257	260	396	13	466	13	26	115	35319
24	37	0	0	282	0	0	0	20	0	132	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1021
25	0	0	0	45	0	0	0	0	0	25	0	0	0	0	0	0	0	0	17	0	0	0	0	0	0	243
26	0	0	0	15	0	23	0	24	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	15	32	1837
27	18	0	0	2079	0	12	0	6	0	22	0	516	0	686	11	60	37	10	8	90	2	0	0	0	6	4359
28	0	0	0	90	0	9	0	0	0	5	8	21	0	27	0	8	0	0	0	0	0	0	0	0	0	235
29	0	0	290	30	0	0	14	0	0	0	0	0	0	0	0	0	0	0	0	18	0	0	0	0	0	1583
30	2065	95	30	1218	349	57	15	180	17	416	31	353	4	469	12	21	92	52	106	118	0	18	0	0	63	9932
31	0	0	0	377	0	0	0	96	0	58	0	32	0	221	0	0	0	90	0	61	0	0	0	0	0	1361
32	7	14	0	72	0	328	9	16	0	0	0	14	0	2	0	13	5	0	0	9	0	0	0	0	0	1239
33	0	0	18	12	0	8	0	0	0	0	0	4	0	0	0	0	0	0	0	0	0	0	0	0	0	253
34	6	0	0	179	92	12	0	41	3	1345	0	0	0	144	10	0	3	181	5	72	27	0	0	0	0	2518
35	0	0	0	16	0	0	0	4	3	41	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	291
36	36	7	0	406	57	0	0	1330	43	895	190	7	0	61	4	0	0	530	108	52	15	0	0	0	259	4747
37	0	8	0	30	0	0	0	0	0	194	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	270
38	514	24	0	364	32	13	4	0	0	8	0	1056	88	266	9	148	313	26	12	6	0	3	0	0	0	3446
39	0	0	0	7	0	0	0	0	0	0	0	85	0	50	0	6	0	0	0	0	0	0	0	0	0	165
40	667	20	4	468	221	3	0	156	0	62	0	256	46	2130	1087	301	310	104	552	1527	108	8	0	0	5	8876
41	11	0	0	23	0	0	0	7	0	5	0	9	0	1082	0	9	0	3	0	13	0	0	0	0	0	1221
42	60	9	0	28	0	8	0	0	0	0	0	153	6	310	10	877	245	9	4	4	10	0	0	0	0	1948
43	36	0	0	86	0	3	0	3	0	0	0	310	0	306	0	244	3	7	6	2	0	0	0	0	0	1273
44	10	0	0	63	82	0	0	183	0	522	0	21	0	107	0	8	11	1089	23	124	15	0	0	0	102	2709
45	9	0	0	99	0	0	0	4	0	103	0	12	0	549	0	3	5	19	0	10	0	0	0	0	0	1136
46	92	0	18	114	61	13	0	68	0	57	0	5	0	1531	13	4	3	128	12	2161	748	0	0	0	0	5541
47	2	0	0	12	0	0	0	28	0	16	0	0	0	107	0	11	0	15	0	757	0	0	0	0	0	966
48	0	0	4	14	0	0	0	0	0	0	0	3	0	5	0	0	0	0	0	0	0	0	0	2	2	652
49	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	13
50	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	0	0	0	66
51	7	0	0	63	0	0	0	0	1	259	0	0	0	6	0	0	0	100	0	0	0	2	0	0	0	672
TOTAL	4343	234	1594	9995	1283	1230	245	2511	288	4758	261	3402	177	8909	1220	1896	1299	2697	1184	5519	938	673	13	64	667	163741

YEAR 2013 TOTAL PCU OD MATRIX [pcu/day]

O/D	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26
1	2786	482	63	6337	291	85	0	0	0	0	0	0	11	0	0	0	0	3	0	0	0	0	305	0	0	0
2	481	214	0	3329	397	0	0	0	0	0	0	0	13	0	0	0	0	0	0	0	0	12	36	0	0	0
3	67	0	0	105	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	145	0	0	0
4	6256	3261	101	913	1341	204	16	0	0	8	0	35	77	11	25	43	0	92	0	50	1	86	524	8	0	23
5	292	390	0	1339	180	0	0	0	0	0	0	0	0	56	0	0	0	170	0	0	0	0	403	0	0	0
6	100	0	0	281	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	42	0	0	0
7	0	0	0	20	0	0	0	0	0	0	0	0	0	0	0	0	0	84	0	103	0	0	133	0	0	0
8	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	37	0	0	0
9	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	19	0	0	0
10	0	0	0	6	0	0	0	0	0	909	38	4	0	7	0	498	127	73	18	0	35	25	651	0	0	0
11	0	0	0	0	0	0	0	0	0	36	0	0	0	0	0	11	0	0	0	0	0	17	315	0	0	0
12	0	0	0	40	0	0	0	0	0	4	0	929	94	0	0	9	0	489	0	30	0	28	967	0	15	0
13	11	15	0	77	0	0	0	0	0	0	0	91	10	0	2	5	0	120	104	71	33	115	6975	0	73	148
14	0	0	0	11	56	0	0	0	0	4	0	0	0	0	0	0	0	24	0	0	0	0	430	0	0	1
15	0	0	0	34	0	0	0	0	0	0	0	0	4	0	0	0	0	21	0	0	0	0	111	0	0	0
16	0	0	0	42	0	0	0	0	0	493	11	10	3	0	0	10	0	73	148	22	79	517	906	0	0	0
17	0	0	0	0	0	0	0	0	0	158	0	0	0	0	0	0	0	0	0	14	0	0	146	0	0	4
18	2	0	0	90	165	0	81	0	0	62	0	493	117	25	11	79	0	5219	260	5347	36	306	10344	0	110	67
19	0	0	0	0	0	0	0	0	0	16	0	0	92	0	0	161	0	260	0	0	0	0	2166	0	0	7
20	0	9	0	42	0	0	82	0	0	0	0	31	70	0	0	22	14	5424	0	378	9	0	3919	0	0	29
21	0	0	0	4	0	0	0	0	0	34	0	0	36	0	0	63	0	35	0	16	3862	1134	480	8	0	17
22	0	20	0	83	0	0	0	0	0	29	17	35	105	0	0	547	0	257	0	0	1148	68	2990	8	0	0
23	308	25	139	487	406	47	130	23	19	641	311	962	7029	424	116	906	72	10293	2154	3923	492	2982	30613	207	71	1572
24	0	0	0	10	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	7	16	209	591	32	0
25	0	0	0	0	0	0	0	0	0	0	0	23	50	0	0	0	0	110	0	0	0	0	71	23	0	0
26	0	0	0	24	0	0	0	0	0	0	0	0	161	2	0	0	4	67	7	20	19	0	1576	0	0	448
27	0	0	0	69	0	0	0	0	0	0	0	10	0	0	0	76	0	176	0	21	9	0	827	37	0	0
28	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	19	0	0	0	0	89	0	0	0
29	0	0	0	15	0	0	0	0	0	8	256	0	0	0	14	1026	0	32	29	0	46	81	204	0	0	0
30	0	6	0	63	18	0	0	0	0	12	0	8	197	8	32	55	13	504	70	28	171	524	3498	410	80	20
31	0	0	0	215	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	585	0	0	0
32	4	0	0	24	0	0	0	0	0	0	0	6	33	0	0	0	0	71	0	39	52	20	804	0	0	37
33	12	5	0	62	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	235	0	0	0
34	0	0	0	20	0	0	0	0	0	39	0	0	7	0	0	18	0	48	0	0	0	20	380	30	0	41
35	0	0	0	72	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	4	0	167	0	0	0
36	3	0	0	51	0	0	0	0	0	0	0	0	4	0	0	31	0	35	105	0	0	64	641	196	44	0
37	0	0	0	6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	53	0	0	0
38	0	0	0	83	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	13	40	796	0	0	0
39	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	24	0	0	0
40	0	0	0	61	0	0	0	0	0	0	0	0	0	0	0	5	0	100	23	0	11	148	911	0	0	0
41	0	0	0	6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	74	0	0	0
42	0	0	0	25	0	0	0	0	0	0	0	0	0	0	0	10	0	33	0	0	0	0	256	8	0	0
43	0	0	0	62	0	0	0	0	0	0	0	0	70	0	0	0	0	27	0	0	0	0	156	0	0	0
44	0	0	0	56	0	0	0	0	0	0	0	5	6	0	0	39	0	7	0	0	0	0	379	0	0	0
45	0	0	0	60	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	25	0	0	350	0	21	0
46	0	0	0	4	0	0	10	0	0	0	0	0	11	0	6	58	0	48	0	0	0	23	621	0	0	0
47	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	19	0	0	0
48	5	0	0	139	0	0	0	0	0	0	0	0	0	0	0	16	0	0	0	0	6	0	770	0	0	0
49	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	19	0	0	0
50	0	0	0	24	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	52	0	0	22
51	0	0	0	87	0	0	0	0	0	0	0	0	0	0	0	0	0	16	0	0	0	0	179	0	0	49
TOTAL	10327	4428	303	14478	2854	336	319	23	19	2453	633	2642	8209	533	206	3690	230	24930	2916	10087	5994	6226	51582	1526	446	2485

O/D	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	TOTAL
1	0	0	0	0	0	5	11	0	0	8	0	0	0	0	0	0	0	0	0	0	0	7	0	0	0	10392
2	0	0	0	3	0	0	7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	4493
3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	317
4	73	0	11	73	135	35	58	27	71	57	8	65	0	72	7	15	72	41	59	2	0	134	0	30	87	14207
5	0	0	0	33	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2863
6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	423
7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	13	0	0	0	0	0	353
8	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	37
9	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	19
10	0	0	5	10	0	0	0	40	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2444
11	0	0	256	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	635
12	14	0	0	8	0	3	0	0	0	0	0	0	0	0	0	0	0	5	0	0	0	0	0	0	0	2635
13	0	0	0	195	0	35	0	5	0	0	0	0	0	0	0	0	59	12	0	9	0	0	0	0	0	8174
14	0	0	0	7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	533
15	0	0	13	32	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	6	0	0	0	0	0	221
16	99	0	1034	61	0	0	0	18	0	33	0	0	0	5	0	15	0	39	0	53	0	10	0	0	0	3681
17	0	0	0	12	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	334
18	147	13	32	507	0	69	0	43	0	38	0	0	0	94	0	24	33	8	0	46	0	0	0	0	12	24880
19	0	0	29	71	0	0	0	0	0	79	0	0	0	22	0	0	0	0	0	0	0	0	0	0	0	2903
20	11	0	0	32	0	39	0	0	0	0	0	0	0	0	0	0	0	0	26	0	0	0	0	0	0	10137
21	17	0	43	167	0	54	0	0	4	0	0	18	0	7	0	0	0	0	0	0	0	6	0	0	0	5966
22	0	0	82	515	0	20	0	19	0	78	0	31	0	168	0	0	0	0	0	30	0	0	0	0	0	6250
23	822	75	203	3491	580	823	225	366	164	637	42	789	52	908	79	227	165	367	383	588	14	803	20	42	177	51395
24	61	0	0	400	0	0	0	27	0	209	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1562
25	0	0	0	81	0	0	0	0	0	44	0	0	0	0	0	0	0	0	32	0	0	0	0	0	0	434
26	0	0	0	21	0	37	0	41	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	24	49	2500
27	27	0	0	3088	0	20	0	11	0	37	0	871	0	1066	17	114	55	15	17	154	3	0	0	0	11	6733
28	0	0	0	135	0	14	0	0	0	7	13	40	0	40	0	16	0	0	0	0	0	0	0	0	0	373
29	0	0	390	32	0	0	20	0	0	0	0	0	0	0	0	0	0	0	0	32	0	0	0	0	0	2085
30	3067	149	35	1302	646	78	22	265	19	575	54	551	7	634	15	35	110	75	147	174	0	28	0	0	125	13830
31	0	0	0	699	6	0	0	194	0	107	0	75	0	401	0	0	0	177	0	121	0	0	0	0	0	2554
32	10	21	0	109	0	499	15	30	0	0	0	22	0	2	0	23	8	0	0	15	0	0	0	0	0	1844
33	0	0	24	18	0	14	0	0	0	0	0	9	0	0	0	0	0	0	0	0	0	0	0	0	0	379
34	11	0	0	261	185	22	0	63	4	2084	0	0	0	211	13	0	3	275	5	121	33	0	0	0	0	3894
35	0	0	0	18	0	0	0	4	4	50	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	321
36	60	11	0	562	106	0	0	2060	50	1388	310	13	0	101	5	0	0	807	171	77	17	0	0	0	379	7289
37	0	12	0	53	0	0	0	0	0	319	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	443
38	867	42	0	568	76	25	9	0	0	12	0	1995	164	416	10	288	440	49	23	9	0	6	0	0	0	5931
39	0	0	0	10	0	0	0	0	0	0	0	158	0	80	0	10	0	0	0	0	0	0	0	0	0	282
40	1040	31	6	628	404	4	0	231	0	103	0	398	75	3092	1446	452	352	161	767	2326	120	13	0	0	10	12918
41	18	0	0	27	0	0	0	10	0	5	0	10	0	1440	0	14	0	4	0	20	0	0	0	0	0	1628
42	115	15	0	47	0	13	0	0	0	0	0	298	10	467	14	1444	332	17	5	5	12	0	0	0	0	3126
43	57	0	0	109	0	5	0	3	0	0	0	435	0	348	0	325	2	10	10	3	0	0	0	0	0	1622
44	15	0	0	93	162	0	0	277	0	799	0	43	0	167	0	16	17	1691	37	208	22	0	0	0	166	4205
45	16	0	0	131	0	0	0	5	0	166	0	24	0	758	0	4	10	33	0	15	0	0	0	0	0	1618
46	157	0	30	164	125	20	0	114	0	85	0	9	0	2335	20	6	3	214	18	5297	861	0	0	0	0	8239
47	3	0	0	17	0	0	0	34	0	20	0	0	0	118	0	15	0	19	0	880	0	0	0	0	0	1125
48	0	0	5	21	0	0	0	0	0	0	0	6	0	11	0	0	0	0	0	0	0	0	0	3	3	985
49	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	19
50	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3	0	0	0	101
51	12	0	0	121	0	0	0	0	2	382	0	0	0	10	0	0	0	164	0	0	0	3	0	0	0	1025
TOTAL	6719	369	2098	13932	2419	1834	368	3887	318	7318	427	5860	308	12973	1626	3043	1661	4183	1700	8204	1082	1013	20	99	1021	240357

Table 8 Traffic Assignment Results

LOADING OF 1994 PCU TRIPS ONTO 2013 NETWORK

LOADING OF 1994 PCU TRIPS ONTO 2013 NETWORK
SUMMARY OF NETWORK PERFORMANCE
ROAD CLASS : "A"

Sorted by Superlink number

LG1#	ROAD DIST [km]	PCU-KM	VOLUME [pcu/day]	CAPACITY [pcu/day]	SPEED [km/h]	V/C RATIO	REMARK
0	2898.5	2697465	931	15295	58.12	0.06	
1	52.0	67703	1302	15422	65.04	0.08	
2	20.5	26663	1301	12966	61.01	0.10	
3	2.0	976	488	15482	70.59	0.03	
4	11.0	110	10	15482	70.21	0.00	
5	19.0	29587	1557	13040	60.06	0.12	
6	32.5	31589	972	14274	65.51	0.07	
7	4.5	4390	976	16170	70.12	0.06	
8	20.0	18680	934	15482	67.04	0.06	
9	20.0	79020	3951	17348	58.25	0.23	
10	17.5	24500	1400	15482	65.22	0.09	
11	5.0	26165	5233	17348	50.85	0.30	
12	5.5	19410	3529	17663	58.98	0.20	
13	2.0	1014	507	15482	70.59	0.03	
14	21.0	81711	3891	17348	58.61	0.22	
15	44.5	22460	505	15412	68.20	0.03	
16	7.0	19141	2734	17100	60.91	0.16	
17	7.0	27358	3908	17100	58.30	0.23	
18	10.0	4140	414	13616	66.67	0.03	
19	20.0	8242	412	15637	69.55	0.03	
20	25.0	10350	414	13616	66.96	0.03	
21	45.5	25480	560	13616	65.94	0.04	
22	6.0	2484	414	13616	66.67	0.03	
23	41.5	16520	398	13550	66.47	0.03	
24	125.5	70085	558	14639	68.93	0.04	
25	88.0	49048	557	15191	70.24	0.04	
26	67.0	4750	71	15185	72.22	0.00	
27	176.0	12482	71	14919	68.30	0.00	
28	16.5	279575	16944	50606	60.73	0.33	
29	7.5	129770	17303	50667	60.80	0.34	
30	1.0	8687	8687	50000	75.00	0.17	
31	18.0	300308	16684	49722	60.34	0.34	
32	10.0	86870	8687	50000	72.29	0.17	
33	13.5	85050	6300	17348	50.31	0.36	
34	36.0	19817	550	17435	71.40	0.03	
35	10.0	2140	214	19766	75.00	0.01	
36	17.5	106	6	19879	75.86	0.00	
37	52.0	42178	811	16317	68.35	0.05	
38	12.5	463	37	16228	70.75	0.00	
39	13.0	1729	133	16103	70.46	0.01	
40	48.0	78029	1626	17312	65.78	0.09	
41	25.0	12176	487	15420	68.58	0.03	
42	63.0	8918	142	16714	72.69	0.01	
43	198.5	28159	142	13515	67.70	0.01	
44	9.0	125	14	13465	49.36	0.00	
45	245.5	3440	14	13627	49.93	0.00	
46	49.5	61802	1249	19391	70.66	0.06	
47	26.0	31954	1229	19352	70.59	0.06	
48	44.5	4995	112	17364	72.74	0.01	
49	216.5	24270	112	16898	72.52	0.01	
50	14.0	1557	111	16483	70.77	0.01	
51	14.5	1668	115	18522	75.00	0.01	

52	96.0	0	0	13532	49.87	0.00	
53	100.0	0	0	13505	49.76	0.00	
54	8.0	0	0	14230	59.38	0.00	
55	18.0	5245	291	18833	73.66	0.02	
56	16.0	61357	3835	20237	60.86	0.19	
57	30.0	8761	292	18875	73.88	0.02	
58	8.0	2344	293	18938	75.00	0.02	
59	14.0	52973	3784	18803	62.73	0.20	
60	19.0	72028	3791	18838	62.67	0.20	
61	114.0	0	0	14097	54.43	0.00	
62	131.5	54531	415	16853	72.54	0.02	
63	15.0	174602	11640	50667	68.97	0.23	
64	8.0	82656	10332	21424	41.03	0.48	
65	10.0	103320	10332	18599	36.11	0.56	
66	8.0	89456	11182	21424	45.71	0.52	
67	4.0	45948	11487	21424	45.28	0.54	
68	10.0	104560	10456	16716	33.71	0.63	
69	14.0	39323	2809	16597	62.73	0.17	
70	22.0	62238	2829	16716	63.16	0.17	
71	30.0	114911	3830	19341	63.76	0.20	
72	32.0	168608	5269	19212	55.65	0.27	
73	5.0	30420	6084	19212	53.57	0.32	
74	52.5	459882	8760	19385	44.83	0.45	
75	13.5	35910	2660	19212	62.31	0.14	
76	27.5	163488	5945	19212	53.92	0.31	
77	7.0	37427	5347	18663	53.56	0.29	
78	5.0	48098	9620	20584	48.02	0.47	
79	43.0	109521	2547	17348	62.62	0.15	
80	31.5	31745	1008	17738	68.83	0.06	
81	16.0	36736	2296	17348	62.34	0.13	
82	16.5	16884	1023	17558	69.46	0.06	
83	37.5	91106	2429	17302	61.99	0.14	
84	34.0	34748	1022	17348	68.46	0.06	
85	30.0	4980	166	17348	71.15	0.01	
86	20.5	5568	272	17517	71.26	0.02	
87	1.0	1529	1529	17348	75.00	0.09	
88	15.0	4035	269	17348	70.87	0.02	
89	24.0	91704	3821	19542	61.63	0.20	
90	126.0	484229	3843	18223	60.60	0.21	
91	25.0	95925	3837	17720	59.29	0.22	
92	36.0	126045	3501	19298	63.93	0.18	
93	14.0	51152	3654	19214	62.73	0.19	
94	6.0	19380	3230	19352	64.29	0.17	
95	86.0	344058	4001	17587	57.97	0.23	
96	26.0	286765	11029	49808	67.90	0.22	
97	88.0	319704	3633	17348	59.33	0.21	
98	68.0	273768	4026	17348	57.87	0.23	
99	7974.0	2241947	281	14072	57.54	0.02	
TOTAL	14491.5	11284924	308407	1928459		0.05	
TOTAL-A	3619.0	6345512	307195	1899092		0.10	

Note : SL# 0 – Road Class "B" & Cent.Connector
SL# 99 – Road Class "C"
Note : "***" indicates a super link in excess of 0.85 V/C ratio
Note : "****" indicates a super link in excess of 1.00 V/C ratio

LOADING OF 1994 PCU TRIPS ONTO 2013 NETWORK
SUMMARY OF NETWORK PERFORMANCE
ROAD CLASS : "B"

LG1#	ROAD DIST [km]	PCU-KM	VOLUME [pcu/day]	CAPACITY [pcu/day]	SPEED [km/h]	V/C RATIO	REMARK
1	45.0	133830	2974	17348	61.22	0.17	
2	12.5	7475	598	17348	69.44	0.03	
3	7.0	46416	6631	17100	49.17	0.39	
4	19.0	11302	595	17257	69.20	0.03	
5	7.0	3910	559	16852	67.17	0.03	
6	16.5	42421	2571	19352	66.89	0.13	
7	5.5	14085	2561	19352	66.00	0.13	
8	20.0	20810	1041	17428	68.39	0.06	
9	4.5	2679	595	16577	64.87	0.04	
10	8.5	26813	3154	17756	61.41	0.18	
11	3.0	12819	4273	17348	58.06	0.25	
12	6.5	11104	1708	17081	64.08	0.10	
13	32.0	55456	1733	17348	65.53	0.10	
14	4.0	6932	1733	17348	63.16	0.10	
15	18.5	31887	1724	17254	64.60	0.10	
16	20.0	34840	1742	17348	65.22	0.10	
17	5.0	9240	1848	17348	65.22	0.11	
18	3.0	17200	5733	16191	47.52	0.35	
19	47.0	0	0	15449	70.20	0.00	
20	18.5	41218	2228	15566	62.34	0.14	
21	20.0	175580	8779	17348	39.74	0.51	
22	87.5	183293	2095	17388	64.32	0.12	
23	39.5	34230	867	14303	65.74	0.06	
24	42.5	57198	1346	15446	65.08	0.09	
25	15.5	20775	1340	15382	64.65	0.09	
26	35.0	29820	852	15482	67.31	0.06	
27	5.0	4295	859	15482	66.67	0.06	
28	6.0	5226	871	15482	67.92	0.06	
29	30.0	24742	825	15534	67.61	0.05	
30	18.0	14714	817	15396	67.17	0.05	
31	94.5	15859	168	15442	70.20	0.01	
32	18.0	9791	544	15026	69.35	0.04	
33	60.5	9543	158	13593	49.43	0.01	
34	63.0	9970	158	13638	49.50	0.01	
35	23.0	3634	158	13616	49.64	0.01	
36	32.5	5167	159	13700	49.85	0.01	
37	89.0	99301	1116	13859	64.66	0.08	
38	12.5	1193	95	13398	67.24	0.01	
39	65.0	37584	578	14331	64.43	0.04	
40	15.0	22390	1493	15688	66.01	0.10	
41	12.0	15828	1319	17348	67.29	0.08	
42	30.0	10140	338	13616	68.18	0.02	
43	20.5	23678	1155	17348	67.21	0.07	
44	23.0	26796	1165	17038	66.00	0.07	
45	55.5	58830	1060	16054	63.19	0.07	
46	25.0	31700	1268	16054	62.50	0.08	
47	142.0	41606	293	13655	67.46	0.02	
48	3.0	6024	2008	13616	62.07	0.15	
49	13.5	17541	1299	13515	62.84	0.10	
50	32.5	42281	1301	14340	63.17	0.09	
51	80.5	18216	226	15711	69.97	0.01	

52	45.0	341955	7599	20043	52.84	0.38
53	57.5	435423	7573	17220	49.15	0.44
54	16.0	121584	7599	19352	52.17	0.39
55	99.5	20538	206	15239	71.87	0.01
56	125.5	4399	35	17308	56.89	0.00
57	92.5	9455	102	15241	72.02	0.01
58	193.0	3856	20	17262	52.58	0.00
59	101.0	2022	20	15223	49.93	0.00
60	421.0	5891	14	15201	49.89	0.00
61	68.5	1374	20	15252	50.11	0.00
62	8.0	0	0	20260	77.58	0.00
98	3618.0	6345507	1754	17033	63.54	0.10
99	8133.5	2405532	296	13958	56.99	0.02
TOTAL	14491.5	11284918	103949	1031072		0.05
TOTAL-B	2740.0	2533879	101899	1000081		0.06

Note : SL# 99 – Road Class "C" & Cent.Connector
SL# 98 – Road Class "A"
Note : "***" indicates a super link in excess of 0.85 V/C ratio
Note : "****" indicates a super link in excess of 1.00 V/C ratio

LOADING OF 1994 PCU TRIPS ONTO 2013 NETWORK
SUMMARY OF NETWORK PERFORMANCE
ROAD CLASS : "C" – LINK GROUP 1

LG1#	ROAD DIST [km]	PCU-KM	VOLUME [pcu/day]	CAPACITY [pcu/day]	SPEED [km/h]	V/C RATIO	REMARK
0	11381.5	10244260	900	15382	59.10	0.06	
1	93.5	44789	479	13645	46.52	0.04	
2	45.0	21510	478	13616	46.56	0.04	
3	28.5	0	0	13664	50.06	0.00	
4	58.0	0	0	13569	49.80	0.00	
5	29.0	0	0	13522	49.60	0.00	
6	29.0	0	0	13522	49.60	0.00	
7	24.0	0	0	12432	64.57	0.00	
8	18.0	0	0	12363	64.34	0.00	
9	11.0	0	0	13740	69.28	0.00	
10	31.0	0	0	13616	49.87	0.00	
11	29.5	0	0	13708	50.26	0.00	
12	45.5	21296	468	15964	71.54	0.03	
13	27.5	33248	1209	15208	67.90	0.08	
14	14.0	0	0	11856	50.12	0.00	
15	19.5	0	0	15482	70.48	0.00	
16	46.0	44804	974	13616	65.09	0.07	
17	20.5	20951	1022	17132	67.70	0.06	
18	22.5	833	37	13616	49.45	0.00	
19	16.0	2176	136	13616	68.09	0.01	
20	15.0	760	51	14553	70.01	0.00	
21	12.5	863	69	15482	70.75	0.00	
22	17.5	19180	1096	14362	65.63	0.08	
23	42.5	804	19	16152	70.76	0.00	
24	36.0	0	0	13578	54.89	0.00	
25	21.0	15529	739	13551	65.00	0.05	
26	35.5	15194	428	13416	67.44	0.03	
27	15.0	0	0	13616	50.00	0.00	
28	20.0	8560	428	13616	68.18	0.03	
29	25.0	0	0	13616	49.83	0.00	
30	39.5	43505	1101	13547	63.07	0.08	
31	36.0	0	0	13540	49.68	0.00	
32	35.0	316	9	13655	50.05	0.00	
33	31.5	0	0	13659	50.05	0.00	
34	40.5	0	0	13616	49.89	0.00	
35	7.0	62	9	13421	49.17	0.00	
36	32.5	0	0	13183	49.82	0.00	
37	30.0	60	2	13616	50.00	0.00	
38	39.5	70	2	13476	59.51	0.00	
39	4.5	48	11	13313	48.70	0.00	
40	31.0	278	9	15061	70.00	0.00	
41	1.0	6	6	13616	66.67	0.00	
42	17.0	1649	97	13616	68.46	0.01	
43	3.0	6	2	13616	50.00	0.00	
44	41.5	73507	1771	16077	66.90	0.11	
45	10.5	18616	1773	15885	65.75	0.11	
46	8.0	186	23	15676	71.31	0.00	
47	66.0	247323	3747	15574	59.74	0.24	
48	9.0	17675	1964	17088	66.01	0.11	
49	53.5	7462	139	13879	67.93	0.01	
50	50.0	1643	33	14379	69.21	0.00	
51	10.0	99	10	14589	69.18	0.00	

52	62.0	684	11	13660	68.70	0.00	
53	16.5	19651	1191	13616	63.46	0.09	
54	48.5	9708	200	13738	67.43	0.01	
55	51.5	10403	202	15482	69.60	0.01	
56	19.0	0	0	13544	49.47	0.00	
57	48.5	0	0	13672	50.16	0.00	
58	27.0	162	6	13616	55.50	0.00	
59	29.5	3106	105	13524	67.94	0.01	
60	36.5	0	0	13616	49.88	0.00	
61	49.5	0	0	14325	59.62	0.00	
62	96.0	0	0	14304	49.81	0.00	
63	64.0	0	0	13532	49.87	0.00	
64	100.5	0	0	13260	49.99	0.00	
65	20.0	44320	2216	15208	64.52	0.15	
66	31.5	70247	2230	15305	64.67	0.15	
67	20.0	2229	111	15283	70.73	0.01	
68	18.0	40392	2244	15208	63.91	0.15	
69	19.5	1486	76	15323	69.89	0.00	
70	85.5	6568	77	14365	67.14	0.01	
71	94.0	6291	67	15046	70.82	0.00	
72	85.5	0	0	13600	49.88	0.00	
73	11.0	2761	251	10000	50.00	0.03	
74	16.5	0	0	15116	71.91	0.00	
75	19.0	0	0	15048	49.38	0.00	
76	57.5	0	0	13592	60.45	0.00	
77	40.0	15160	379	10000	49.89	0.04	
78	41.0	10341	252	10049	50.18	0.03	
79	13.0	8806	677	9846	48.79	0.07	
80	44.0	26432	601	10045	50.26	0.06	
81	102.5	10650	104	13758	68.43	0.01	
82	7.0	7010	1001	11829	52.32	0.08	
83	103.5	0	0	13724	68.62	0.00	
84	10.0	3050	305	19216	68.97	0.02	
85	Deleted	Deleted	Deleted	Deleted	Deleted	Deleted	
86	2.5	2171	868	17679	63.48	0.05	
87	8.0	5400	675	12000	51.61	0.06	
88	10.5	18876	1798	15402	63.10	0.12	
89	7.0	0	0	11829	54.41	0.00	
90	6.5	4320	665	11815	49.75	0.06	
91	18.5	20423	1104	11870	54.58	0.09	
92	14.5	16704	1152	12000	55.06	0.10	
93	10.0	1252	125	12120	55.64	0.01	
94	7.5	7823	1043	12320	54.52	0.08	
95	16.0	576	36	13418	65.75	0.00	
96	18.0	644	36	12035	63.95	0.00	
97	17.0	0	0	12102	64.15	0.00	
98	11.5	0	0	12209	55.80	0.00	
99	31.0	0	0	15582	71.10	0.00	
SUBTOT-C	3111.0	1040654	38149	1353742			

Note : SL# 0 – Other roads & stub links

LOADING OF 1994 PCU TRIPS ONTO 2013 NETWORK
SUMMARY OF NETWORK PERFORMANCE
ROAD CLASS : "C" – LINK GROUP 2

LG2#	ROAD DIST [km]	PCU-KM	VOLUME [pcu/day]	CAPACITY [pcu/day]	SPEED [km/h]	V/C RATIO
0	10401.00	10083630	969	15385	60.05	0.06
1	15.50	0	0	15382	70.07	0.00
2	32.50	0	0	13574	68.24	0.00
3	13.00	0	0	13511	67.97	0.00
4	55.00	53875	980	13666	65.31	0.07
5	14.00	13566	969	15371	66.78	0.06
6	71.00	0	0	13654	58.24	0.00
7	5.00	0	0	13616	68.18	0.00
8	18.00	0	0	11641	63.24	0.00
9	18.00	0	0	15482	70.13	0.00
10	17.50	4113	235	11772	62.50	0.02
11	81.00	0	0	13616	50.36	0.00
12	21.00	4911	234	13551	67.46	0.02
13	23.00	54901	2387	15066	59.48	0.16
14	56.00	106076	1894	14583	60.88	0.13
15	29.00	166117	5728	17288	50.23	0.33
16	25.00	12150	486	15482	70.42	0.03
17	4.00	3924	981	15482	66.67	0.06
18	18.50	28817	1558	17536	66.32	0.09
19	12.00	16129	1344	15611	64.79	0.09
20	18.50	2368	128	13971	69.85	0.01
21	9.50	8347	879	15319	66.43	0.06
22	9.00	7093	788	15826	68.82	0.05
23	79.00	28088	356	13599	67.07	0.03
24	33.00	22173	672	15388	67.45	0.04
25	25.50	25578	1003	15421	66.58	0.07
26	11.50	11681	1016	15617	66.87	0.07
27	9.50	2677	282	17644	76.19	0.02
28	122.00	25498	209	15063	71.10	0.01
29	560.50	0	0	14183	49.90	0.00
30	17.50	3658	209	13616	67.74	0.02
31	131.50	0	0	13598	49.92	0.00
32	258.00	0	0	13527	49.85	0.00
33	157.00	0	0	15208	49.84	0.00
34	32.50	0	0	11808	54.61	0.00
35	11.50	27787	2416	13185	54.16	0.18
36	40.00	269445	6736	17305	44.64	0.39
37	2.00	610	305	19352	75.00	0.02
38	2.50	0	0	19352	75.00	0.00
39	29.00	0	0	13951	50.26	0.00
40	41.00	0	0	13583	49.86	0.00
41	68.00	0	0	13596	49.85	0.00
42	109.50	0	0	13604	49.83	0.00
43	42.50	0	0	13648	50.04	0.00
44	15.00	109866	7324	15688	46.44	0.47
45	10.00	6987	699	14441	67.00	0.05
46	53.00	37187	702	17004	70.99	0.04
47	32.50	3153	97	14736	69.64	0.01
48	61.50	39362	640	16917	72.35	0.04
49	20.00	12780	639	15208	71.01	0.04
50	40.50	0	0	11801	63.93	0.00
51	64.50	0	0	13255	51.84	0.00

52	54.00	756	14	13532	71.37	0.00	
53	27.00	1387	51	15321	72.74	0.00	
54	5.00	3450	690	15208	71.43	0.05	
55	52.00	725	14	14843	71.38	0.00	
56	98.00	196	2	13616	52.11	0.00	
57	9.00	436	48	13465	49.36	0.00	
58	5.00	10	2	13616	50.00	0.00	
59	122.00	5725	47	13594	49.63	0.00	
60	78.00	0	0	13581	49.75	0.00	
61	196.00	62884	321	14550	69.52	0.02	
62	4.00	2428	607	15482	68.57	0.04	
63	2.50	703	281	15482	71.43	0.02	
64	74.50	0	0	13634	54.46	0.00	
65	37.50	0	0	13652	50.05	0.00	
66	19.00	0	0	13544	67.95	0.00	
67	19.00	0	0	13544	67.95	0.00	
68	11.00	0	0	13616	68.75	0.00	
69	42.00	0	0	13616	49.90	0.00	
70	50.00	0	0	15147	49.77	0.00	
71	21.00	0	0	15556	70.66	0.00	
72	122.00	13675	112	15220	72.17	0.01	
73	164.00	0	0	13899	49.89	0.00	
74	39.00	0	0	13651	50.04	0.00	
75	173.00	0	0	13524	49.85	0.00	
SUBTOT-C	4071	1201292	44085	1093191	50.40	0.00	
TOTAL	14472	11284922	45054	1108576		0.05	
TOTAL-C	7182	2241946	82234	2446933		0.02	

Note : SL# 0 – Other roads & stub links
Note : "***" indicates a super link in excess of 0.85 V/C ratio
Note : "****" indicates a super link in excess of 1.00 V/C ratio

LOADING OF 2000 PCU TRIPS ONTO 2013 NETWORK

LOADING OF 2000 PCU TRIPS ONTO 2013 NETWORK
SUMMARY OF NETWORK PERFORMANCE
ROAD CLASS : "A"

Sorted by Superlink number

LG1#	ROAD DIST [km]	PCU-KM	VOLUME [pcu/day]	CAPACITY [pcu/day]	SPEED [km/h]	V/C RATIO	REMARK
0	2898.5	3573952	1233	15295	57.27	0.08	
1	52.0	85833	1651	15422	63.70	0.11	
2	20.5	33803	1649	12966	58.90	0.13	
3	2.0	1024	512	15482	70.59	0.03	
4	11.0	165	15	15482	70.21	0.00	
5	19.0	37402	1969	13040	58.85	0.15	
6	32.5	39987	1230	14274	64.42	0.09	
7	4.5	5598	1244	16170	68.49	0.08	
8	20.0	23820	1191	15482	66.30	0.08	
9	20.0	97900	4895	17348	55.05	0.28	
10	17.5	30100	1720	15482	64.02	0.11	
11	5.0	32880	6576	17348	48.39	0.38	
12	5.5	24584	4470	17663	56.08	0.25	
13	2.0	1594	797	15482	70.59	0.05	
14	21.0	112770	5370	17348	54.08	0.31	
15	44.5	35307	793	15412	66.99	0.05	
16	7.0	28635	4091	17100	56.68	0.24	
17	7.0	38612	5516	17100	52.32	0.32	
18	10.0	6520	652	13616	65.22	0.05	
19	20.0	12968	648	15637	68.77	0.04	
20	25.0	16600	664	13616	65.79	0.05	
21	45.5	37083	815	13616	65.00	0.06	
22	6.0	3984	664	13616	65.45	0.05	
23	41.5	19122	461	13550	65.59	0.03	
24	125.5	79128	631	14639	68.62	0.04	
25	88.0	55377	629	15191	69.87	0.04	
26	67.0	6422	96	15185	72.22	0.01	
27	176.0	16877	96	14919	68.03	0.01	
28	16.5	357029	21638	50606	52.28	0.43	
29	7.5	166250	22167	50667	51.92	0.44	
30	1.0	14776	14776	50000	66.67	0.30	
31	18.0	424910	23606	49722	51.59	0.47	
32	10.0	147760	14776	50000	63.16	0.30	
33	13.5	120852	8952	17348	40.30	0.52	
34	36.0	70759	1966	17435	67.39	0.11	
35	10.0	10710	1071	19766	73.17	0.05	
36	17.5	1531	87	19879	75.86	0.00	
37	52.0	64780	1246	16317	66.61	0.08	
38	12.5	1838	147	16228	70.75	0.01	
39	13.0	4889	376	16103	69.82	0.02	
40	48.0	112805	2350	17312	63.59	0.14	
41	25.0	19721	789	15420	67.34	0.05	
42	63.0	13565	215	16714	72.56	0.01	
43	198.5	42833	216	13515	67.36	0.02	
44	9.0	178	20	13465	49.36	0.00	
45	245.5	4914	20	13627	49.84	0.00	
46	49.5	81394	1644	19391	69.35	0.08	
47	26.0	41496	1596	19352	69.33	0.08	
48	44.5	11685	263	17364	72.37	0.02	
49	216.5	56775	262	16898	71.81	0.02	
50	14.0	3642	260	16483	69.58	0.02	
51	14.5	3625	250	18522	74.36	0.01	

52	96.0	0	0	13532	49.87	0.00	
53	100.0	0	0	13505	49.76	0.00	
54	8.0	0	0	14230	59.38	0.00	
55	18.0	5835	324	18833	73.66	0.02	
56	16.0	74607	4663	20237	57.97	0.23	
57	30.0	9747	325	18875	73.58	0.02	
58	8.0	2608	326	18938	75.00	0.02	
59	14.0	64413	4601	18803	60.00	0.24	
60	19.0	87583	4610	18838	59.68	0.24	
61	114.0	0	0	14097	54.43	0.00	
62	131.5	83439	635	16853	71.75	0.04	
63	15.0	202449	13497	50667	66.01	0.27	
64	8.0	81184	10148	21424	38.10	0.47	
65	10.0	101480	10148	18599	32.92	0.55	
66	8.0	104160	13020	21424	41.74	0.61	
67	4.0	53276	13319	21424	41.38	0.62	
68	10.0	103290	10329	16716	30.15	0.62	
69	14.0	48136	3438	16597	61.80	0.21	
70	22.0	76186	3463	16716	62.26	0.21	
71	30.0	145655	4855	19341	61.65	0.25	
72	32.0	220160	6880	19212	51.20	0.36	
73	5.0	40805	8161	19212	48.39	0.42	
74	52.5	631253	12024	19385	35.78	0.62	
75	13.5	50693	3755	19212	57.45	0.20	
76	27.5	215353	7831	19212	48.67	0.41	
77	7.0	48824	6975	18663	48.93	0.37	
78	5.0	66346	13269	20584	38.54	0.64	
79	43.0	158627	3689	17348	58.90	0.21	
80	31.5	71058	2256	17738	65.48	0.13	
81	16.0	44960	2810	17348	60.00	0.16	
82	16.5	32632	1978	17558	65.43	0.11	
83	37.5	137146	3657	17302	56.80	0.21	
84	34.0	69258	2037	17348	64.76	0.12	
85	30.0	18150	605	17348	69.77	0.03	
86	20.5	16167	789	17517	69.67	0.05	
87	1.0	2834	2834	17348	66.67	0.16	
88	15.0	11715	781	17348	68.70	0.05	
89	24.0	106690	4445	19542	60.06	0.23	
90	126.0	563357	4471	18223	58.83	0.25	
91	25.0	111600	4464	17720	57.03	0.25	
92	36.0	139866	3885	19298	62.81	0.20	
93	14.0	57101	4079	19214	61.80	0.21	
94	6.0	19740	3290	19352	64.29	0.17	
95	86.0	378807	4405	17587	56.82	0.25	
96	26.0	328516	12635	49808	65.60	0.25	
97	88.0	357544	4063	17348	58.02	0.23	
98	68.0	300356	4417	17348	56.51	0.25	
99	7974.0	3419793	429	14072	57.08	0.03	
TOTAL	14491.5	15100163	397586	1928459		0.07	
TOTAL-A	3619.0	8106418	395924	1899092		0.13	

Note : SL# 0 – Road Class "B" & Cent.Connector
SL# 99 – Road Class "C"
Note : "***" indicates a super link in excess of 0.85 V/C ratio
Note : "****" indicates a super link in excess of 1.00 V/C ratio

LOADING OF 2000 PCU TRIPS ONTO 2013 NETWORK
SUMMARY OF NETWORK PERFORMANCE
ROAD CLASS : "B"

LG1#	ROAD DIST [km]	PCU-KM	VOLUME [pcu/day]	CAPACITY [pcu/day]	SPEED [km/h]	V/C RATIO	REMARK
1	45.0	223065	4957	17348	54.55	0.29	
2	12.5	14825	1186	17348	67.57	0.07	
3	7.0	63611	9087	17100	42.51	0.53	
4	19.0	22415	1180	17257	67.54	0.07	
5	7.0	7725	1104	16852	64.98	0.07	
6	16.5	53609	3249	19352	65.13	0.17	
7	5.5	17666	3212	19352	66.00	0.17	
8	20.0	34670	1734	17428	67.21	0.10	
9	4.5	2945	654	16577	66.63	0.04	
10	8.5	27066	3184	17756	61.41	0.18	
11	3.0	13671	4557	17348	58.06	0.26	
12	6.5	12838	1975	17081	63.02	0.12	
13	32.0	64128	2004	17348	64.64	0.12	
14	4.0	8024	2006	17348	63.16	0.12	
15	18.5	36910	1995	17254	63.84	0.12	
16	20.0	40420	2021	17348	64.52	0.12	
17	5.0	11100	2220	17348	63.83	0.13	
18	3.0	23895	7965	16191	41.26	0.49	
19	47.0	14492	308	15449	70.20	0.02	
20	18.5	67592	3654	15566	57.25	0.23	
21	20.0	224460	11223	17348	33.06	0.65	
22	87.5	247665	2830	17388	62.34	0.16	
23	39.5	50108	1269	14303	64.48	0.09	
24	42.5	75133	1768	15446	63.77	0.11	
25	15.5	27289	1761	15382	63.76	0.11	
26	35.0	40600	1160	15482	66.04	0.07	
27	5.0	5725	1145	15482	65.22	0.07	
28	6.0	7650	1275	15482	65.45	0.08	
29	30.0	32448	1082	15534	66.62	0.07	
30	18.0	19296	1072	15396	66.34	0.07	
31	94.5	18880	200	15442	70.20	0.01	
32	18.0	26420	1468	15026	67.59	0.10	
33	60.5	10087	167	13593	49.43	0.01	
34	63.0	10538	167	13638	49.50	0.01	
35	23.0	3841	167	13616	49.64	0.01	
36	32.5	5461	168	13700	49.85	0.01	
37	89.0	167221	1879	13859	61.96	0.14	
38	12.5	2854	228	13398	66.63	0.02	
39	65.0	63569	978	14331	63.08	0.07	
40	15.0	36237	2416	15688	62.87	0.15	
41	12.0	22776	1898	17348	64.86	0.11	
42	30.0	27000	900	13616	65.94	0.07	
43	20.5	30238	1475	17348	66.13	0.09	
44	23.0	34220	1488	17038	65.09	0.09	
45	55.5	73204	1319	16054	62.48	0.08	
46	25.0	43225	1729	16054	60.98	0.11	
47	142.0	50978	359	13655	67.62	0.03	
48	3.0	7461	2487	13616	60.00	0.18	
49	13.5	21815	1616	13515	61.87	0.12	
50	32.5	52584	1618	14340	62.15	0.11	
51	80.5	29338	364	15711	69.67	0.02	

52	45.0	390465	8677	20043	50.10	0.43	
53	57.5	497192	8647	17220	46.12	0.50	
54	16.0	138832	8677	19352	49.48	0.45	
55	99.5	44067	443	15239	70.85	0.03	
56	125.5	7291	58	17308	56.67	0.00	
57	92.5	21506	232	15241	71.55	0.02	
58	193.0	6748	35	17262	52.29	0.00	
59	101.0	3539	35	15223	49.81	0.00	
60	421.0	9678	23	15201	49.88	0.00	
61	68.5	2404	35	15252	49.93	0.00	
62	8.0	0	0	20260	77.58	0.00	
98	3618.0	8106407	2241	17033	62.11	0.13	
99	8133.5	3643035	448	13958	56.53	0.03	
TOTAL	14491.5	15100152	135479	1031072		0.07	
TOTAL-B	2740.0	3350710	132790	1000081		0.08	

Note : SL# 99 – Road Class "C" & Cent.Connector
SL# 98 – Road Class "A"
Note : "**" indicates a super link in excess of 0.85 V/C ratio
Note : "****" indicates a super link in excess of 1.00 V/C ratio

LOADING OF 2000 PCU TRIPS ONTO 2013 NETWORK
SUMMARY OF NETWORK PERFORMANCE
ROAD CLASS : "C" -- LINK GROUP 1

LG1#	ROAD DIST [km]	PCU-KM	VOLUME [pcu/day]	CAPACITY [pcu/day]	SPEED [km/h]	V/C RATIO	REMARK
0	11381.5	13434150	1180	15382	58.26	0.08	
1	93.5	46569	498	13645	46.45	0.04	
2	45.0	22365	497	13616	46.31	0.04	
3	28.5	0	0	13664	50.06	0.00	
4	58.0	0	0	13569	49.80	0.00	
5	29.0	0	0	13522	49.60	0.00	
6	29.0	0	0	13522	49.60	0.00	
7	24.0	0	0	12432	64.57	0.00	
8	18.0	0	0	12363	64.34	0.00	
9	11.0	0	0	13740	69.28	0.00	
10	31.0	0	0	13616	49.87	0.00	
11	29.5	0	0	13708	50.26	0.00	
12	45.5	24175	531	15964	71.36	0.03	
13	27.5	42103	1531	15208	66.80	0.10	
14	14.0	0	0	11856	50.12	0.00	
15	19.5	0	0	15482	70.48	0.00	
16	46.0	69460	1510	13616	63.30	0.11	
17	20.5	32130	1567	17132	65.20	0.09	
18	22.5	1508	67	13616	49.45	0.00	
19	16.0	3920	245	13616	67.61	0.02	
20	15.0	2067	138	14553	70.01	0.01	
21	12.5	3138	251	15482	70.75	0.02	
22	17.5	31955	1826	14362	63.25	0.13	
23	42.5	4864	114	16152	70.76	0.01	
24	36.0	0	0	13578	54.89	0.00	
25	21.0	20942	997	13551	64.33	0.07	
26	35.5	37843	1066	13416	64.99	0.08	
27	15.0	30	2	13616	50.00	0.00	
28	20.0	21320	1066	13616	65.57	0.08	
29	25.0	0	0	13616	49.83	0.00	
30	39.5	34663	878	13547	63.42	0.06	
31	36.0	0	0	13540	49.68	0.00	
32	35.0	526	15	13655	50.05	0.00	
33	31.5	0	0	13659	50.05	0.00	
34	40.5	0	0	13616	49.89	0.00	
35	7.0	103	15	13421	49.17	0.00	
36	32.5	0	0	13183	49.82	0.00	
37	30.0	60	2	13616	50.00	0.00	
38	39.5	70	2	13476	59.51	0.00	
39	4.5	75	17	13313	48.70	0.00	
40	31.0	463	15	15061	70.00	0.00	
41	1.0	10	10	13616	66.67	0.00	
42	17.0	2822	166	13616	67.55	0.01	
43	3.0	6	2	13616	50.00	0.00	
44	41.5	90938	2191	16077	66.01	0.14	
45	10.5	23254	2215	15885	65.05	0.14	
46	8.0	405	51	15676	71.31	0.00	
47	66.0	280866	4256	15574	57.89	0.27	
48	9.0	18476	2053	17088	65.20	0.12	
49	53.5	45678	854	13879	65.29	0.06	
50	50.0	4333	87	14379	69.21	0.01	
51	10.0	366	37	14589	69.18	0.00	

52	62.0	5909	95	13660	68.70	0.01	
53	16.5	23859	1446	13616	63.06	0.11	
54	48.5	19320	398	13738	66.66	0.03	
55	51.5	26162	508	15482	68.21	0.03	
56	19.0	0	0	13544	49.47	0.00	
57	48.5	0	0	13672	50.16	0.00	
58	27.0	270	10	13616	55.50	0.00	
59	29.5	5948	202	13524	67.42	0.01	
60	36.5	438	12	13616	49.88	0.00	
61	49.5	0	0	14325	59.62	0.00	
62	96.0	0	0	14304	49.81	0.00	
63	64.0	0	0	13532	49.87	0.00	
64	100.5	0	0	13260	49.99	0.00	
65	20.0	66500	3325	15208	59.41	0.22	
66	31.5	105403	3346	15305	59.82	0.22	
67	20.0	7144	357	15283	69.08	0.02	
68	18.0	64044	3558	15208	59.02	0.23	
69	19.5	3995	205	15323	69.89	0.01	
70	85.5	17657	207	14365	66.62	0.01	
71	94.0	16339	174	15046	70.46	0.01	
72	85.5	0	0	13600	49.88	0.00	
73	11.0	9669	879	10000	48.89	0.09	
74	16.5	0	0	15116	71.91	0.00	
75	19.0	0	0	15048	49.38	0.00	
76	57.5	0	0	13592	60.45	0.00	
77	40.0	51040	1276	10000	47.81	0.13	
78	41.0	36215	883	10049	49.00	0.09	
79	13.0	12902	992	9846	48.79	0.10	
80	44.0	39471	897	10045	50.26	0.09	
81	102.5	15462	151	13758	68.20	0.01	
82	7.0	9087	1298	11829	51.01	0.11	
83	103.5	0	0	13724	68.62	0.00	
84	10.0	2990	299	19216	68.97	0.02	
85	Deleted	Deleted	Deleted	Deleted	Deleted	Deleted	
86	2.5	2516	1006	17679	63.48	0.06	
87	8.0	7008	876	12000	50.53	0.07	
88	10.5	24690	2351	15402	61.83	0.15	
89	7.0	0	0	11829	54.41	0.00	
90	6.5	5606	862	11815	49.75	0.07	
91	18.5	77665	4198	11870	48.93	0.35	
92	14.5	63176	4357	12000	49.15	0.36	
93	10.0	1828	183	12120	55.64	0.02	
94	7.5	10141	1352	12320	53.29	0.11	
95	16.0	37744	2359	13418	65.75	0.18	
96	18.0	2023	112	12035	63.57	0.01	
97	17.0	0	0	12102	64.15	0.00	
98	11.5	26278	2285	12209	55.80	0.19	
99	31.0	0	0	15582	71.10	0.00	
SUBTOT-C	3111.0	1666002	65231	1353742			

Note : SL# 0 – Other roads & stub links

LOADING OF 2000 PCU TRIPS ONTO 2013 NETWORK
SUMMARY OF NETWORK PERFORMANCE
ROAD CLASS : "C" – LINK GROUP 2

LG2#	ROAD DIST [km]	PCU–KM	VOLUME [pcu/day]	CAPACITY [pcu/day]	SPEED [km/h]	V/C RATIO
0	10401.00	13346370	1283	15385	59.15	0.08
1	15.50	0	0	15382	70.07	0.00
2	32.50	0	0	13574	68.24	0.00
3	13.00	0	0	13511	67.97	0.00
4	55.00	75072	1365	13666	63.93	0.10
5	14.00	18904	1350	15371	65.20	0.09
6	71.00	0	0	13654	58.24	0.00
7	5.00	0	0	13616	68.18	0.00
8	18.00	0	0	11641	63.24	0.00
9	18.00	0	0	15482	70.13	0.00
10	17.50	5250	300	11772	62.50	0.03
11	81.00	0	0	13616	50.36	0.00
12	21.00	6270	299	13551	67.10	0.02
13	23.00	133952	5824	15066	51.11	0.39
14	56.00	191059	3412	14583	54.92	0.23
15	29.00	201751	6957	17288	43.09	0.40
16	25.00	60000	2400	15482	67.26	0.16
17	4.00	3992	998	15482	64.86	0.06
18	18.50	43908	2373	17536	63.00	0.14
19	12.00	16504	1375	15611	63.66	0.09
20	18.50	5402	292	13971	69.00	0.02
21	9.50	18838	1983	15319	62.70	0.13
22	9.00	10065	1118	15826	67.99	0.07
23	79.00	39687	502	13599	66.69	0.04
24	33.00	31193	945	15388	66.54	0.06
25	25.50	38938	1527	15421	64.33	0.10
26	11.50	17783	1546	15617	65.00	0.10
27	9.50	5160	543	17644	74.28	0.03
28	122.00	43676	358	15063	70.42	0.02
29	560.50	0	0	14183	49.90	0.00
30	17.50	6265	358	13616	67.31	0.03
31	131.50	0	0	13598	49.92	0.00
32	258.00	0	0	13527	49.85	0.00
33	157.00	0	0	15208	49.84	0.00
34	32.50	0	0	11808	54.61	0.00
35	11.50	27414	2384	13185	52.46	0.18
36	40.00	338472	8462	17305	39.02	0.49
37	2.00	598	299	19352	75.00	0.02
38	2.50	0	0	19352	75.00	0.00
39	29.00	0	0	13951	50.26	0.00
40	41.00	0	0	13583	49.86	0.00
41	68.00	0	0	13596	49.85	0.00
42	109.50	0	0	13604	49.83	0.00
43	42.50	0	0	13648	50.04	0.00
44	15.00	128698	8580	15688	42.39	0.55
45	10.00	8418	842	14441	66.24	0.06
46	53.00	45699	862	17004	70.70	0.05
47	32.50	5818	179	14736	69.40	0.01
48	61.50	48972	796	16917	71.64	0.05
49	20.00	15900	795	15208	70.18	0.05
50	40.50	0	0	11801	63.93	0.00
51	64.50	0	0	13255	51.84	0.00

52	54.00	0	0	13532	71.37	0.00	
53	27.00	3128	116	15321	72.74	0.01	
54	5.00	4550	910	15208	71.43	0.06	
55	52.00	0	0	14843	71.38	0.00	
56	98.00	196	2	13616	52.11	0.00	
57	9.00	418	46	13465	49.36	0.00	
58	5.00	10	2	13616	50.00	0.00	
59	122.00	5481	45	13594	49.63	0.00	
60	78.00	0	0	13581	49.75	0.00	
61	196.00	112055	572	14550	68.47	0.04	
62	4.00	4696	1174	15482	66.67	0.08	
63	2.50	1515	606	15482	71.43	0.04	
64	74.50	0	0	13634	54.46	0.00	
65	37.50	0	0	13652	50.05	0.00	
66	19.00	0	0	13544	67.95	0.00	
67	19.00	0	0	13544	67.95	0.00	
68	11.00	0	0	13616	68.75	0.00	
69	42.00	0	0	13616	49.90	0.00	
70	50.00	0	0	15147	49.77	0.00	
71	21.00	0	0	15556	70.66	0.00	
72	122.00	28083	230	15220	71.74	0.02	
73	164.00	0	0	13899	49.89	0.00	
74	39.00	0	0	13651	50.04	0.00	
75	173.00	0	0	13524	49.85	0.00	
SUBTOT-C	4071	1753790	62727	1093191	50.40	0.00	
TOTAL	14472	15100160	64010	1108576		0.07	
TOTAL-C	7182	3419792	127958	2446933		0.03	

Note : SL# 0 – Other roads & stub links
Note : "***" indicates a super link in excess of 0.85 V/C ratio
Note : "****" indicates a super link in excess of 1.00 V/C ratio