

10.3 CORDON LINE SURVEY

10.3.1 Roadside Interview Survey Form

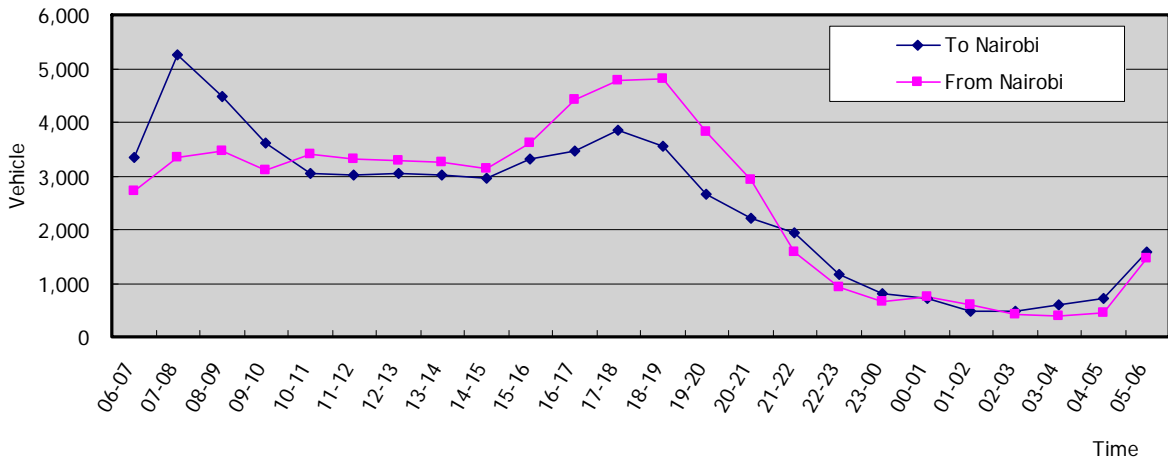
<b>NUTrans Cordon Line Survey (Roadside OD Interview Survey Form)</b>																			
Station No.: _____	Sample No. : <input style="width: 20px;" type="text"/> <input style="width: 20px;" type="text"/> <input style="width: 20px;" type="text"/> <input style="width: 20px;" type="text"/>																		
District : _____	Road : _____																		
Interviewer : _____	Date : _____																		
Hour : _____ : _____																			
Dir./ From : _____	To : _____																		
<b>I. Vehicle Type</b> <table style="width: 100%; border: none;"> <tr> <td style="width: 50%; padding: 2px;"><input type="checkbox"/> 1. Bicycle</td> <td style="width: 50%; padding: 2px;"><input type="checkbox"/> 7. Taxi</td> </tr> <tr> <td style="padding: 2px;"><input type="checkbox"/> 2. Motor Cycle</td> <td style="padding: 2px;"><input type="checkbox"/> 8. Private Car</td> </tr> <tr> <td style="padding: 2px;"><input type="checkbox"/> 3. Tricycle</td> <td style="padding: 2px;"><input type="checkbox"/> 9. School / Co. / Tourist Bus</td> </tr> <tr> <td style="padding: 2px;"><input type="checkbox"/> 4. Matatu</td> <td style="padding: 2px;"><input type="checkbox"/> 10. Truck</td> </tr> <tr> <td style="padding: 2px;"><input type="checkbox"/> 5. Metro Shuttle</td> <td style="padding: 2px;"><input type="checkbox"/> 11. Trailer</td> </tr> <tr> <td style="padding: 2px;"><input type="checkbox"/> 6. Bus</td> <td style="padding: 2px;"><input type="checkbox"/> 12. Others <input style="width: 20px;" type="text"/></td> </tr> </table>				<input type="checkbox"/> 1. Bicycle	<input type="checkbox"/> 7. Taxi	<input type="checkbox"/> 2. Motor Cycle	<input type="checkbox"/> 8. Private Car	<input type="checkbox"/> 3. Tricycle	<input type="checkbox"/> 9. School / Co. / Tourist Bus	<input type="checkbox"/> 4. Matatu	<input type="checkbox"/> 10. Truck	<input type="checkbox"/> 5. Metro Shuttle	<input type="checkbox"/> 11. Trailer	<input type="checkbox"/> 6. Bus	<input type="checkbox"/> 12. Others <input style="width: 20px;" type="text"/>				
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<input type="checkbox"/> 6. Bus	<input type="checkbox"/> 12. Others <input style="width: 20px;" type="text"/>																		
<b>II. Origin</b> No./Building Street : _____ District : _____ City / Municipality : _____ <input style="width: 20px;" type="text"/> <input style="width: 20px;" type="text"/> <input style="width: 20px;" type="text"/>																			
<b>III. Destination</b> No. Street : _____ District : _____ City / Municipality : _____ <input style="width: 20px;" type="text"/> <input style="width: 20px;" type="text"/> <input style="width: 20px;" type="text"/>																			
<b>IV. Trip Purpose</b> <table style="width: 100%; border: none;"> <tr> <td style="width: 25%; padding: 2px;"><input type="checkbox"/> 1. To Home</td> <td style="width: 25%; padding: 2px;"><input type="checkbox"/> 3. To School</td> <td style="width: 25%; padding: 2px;"><input type="checkbox"/> 5. Firm Business</td> <td style="width: 25%; padding: 2px;"><input type="checkbox"/> 7. Shopping</td> </tr> <tr> <td style="padding: 2px;"><input type="checkbox"/> 2. To Work</td> <td style="padding: 2px;"><input type="checkbox"/> 4. Personal Business</td> <td style="padding: 2px;"><input type="checkbox"/> 6. Social</td> <td style="padding: 2px;"><input type="checkbox"/> 8. Others</td> </tr> </table>				<input type="checkbox"/> 1. To Home	<input type="checkbox"/> 3. To School	<input type="checkbox"/> 5. Firm Business	<input type="checkbox"/> 7. Shopping	<input type="checkbox"/> 2. To Work	<input type="checkbox"/> 4. Personal Business	<input type="checkbox"/> 6. Social	<input type="checkbox"/> 8. Others								
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<b>V. Number of Persons (including Driver)</b> Person (s) : _____ <input style="width: 20px;" type="text"/> <input style="width: 20px;" type="text"/>																			
<b>VI. Commodity Type</b> Type 1. _____ <input style="width: 20px;" type="text"/> <input style="width: 20px;" type="text"/> Type 2. _____ <input style="width: 20px;" type="text"/> <input style="width: 20px;" type="text"/>																			
<b>VII. Commodity Weight</b> <table style="width: 100%; border: none;"> <tr> <td style="width: 25%;">Type 1.</td> <td style="width: 25%;">Quantity :</td> <td style="width: 15%;">Unit :</td> <td style="width: 35%;">Weight :</td> </tr> <tr> <td colspan="3"></td> <td style="text-align: right;"><input style="width: 20px;" type="text"/><input style="width: 20px;" type="text"/></td> </tr> <tr> <td>Type 2.</td> <td>Quantity :</td> <td>Unit :</td> <td>Weight :</td> </tr> <tr> <td colspan="3"></td> <td style="text-align: right;"><input style="width: 20px;" type="text"/><input style="width: 20px;" type="text"/></td> </tr> </table>				Type 1.	Quantity :	Unit :	Weight :				<input style="width: 20px;" type="text"/> <input style="width: 20px;" type="text"/>	Type 2.	Quantity :	Unit :	Weight :				<input style="width: 20px;" type="text"/> <input style="width: 20px;" type="text"/>
Type 1.	Quantity :	Unit :	Weight :																
			<input style="width: 20px;" type="text"/> <input style="width: 20px;" type="text"/>																
Type 2.	Quantity :	Unit :	Weight :																
			<input style="width: 20px;" type="text"/> <input style="width: 20px;" type="text"/>																
<b>VIII. Net Load Capacity (kg)</b> <input style="width: 40px;" type="text"/>																			
. Vehicle Registered Place (Home or Office) No. Building Street : _____ District : _____ City / Municipality : _____ <input style="width: 20px;" type="text"/> <input style="width: 20px;" type="text"/> <input style="width: 20px;" type="text"/>																			

**FIGURE 10.3-1 ROADSIDE INTERVIEW SURVEY SHEET**

**10.3.2 Survey Results**

Hourly Traffic Volume to/from Nairobi

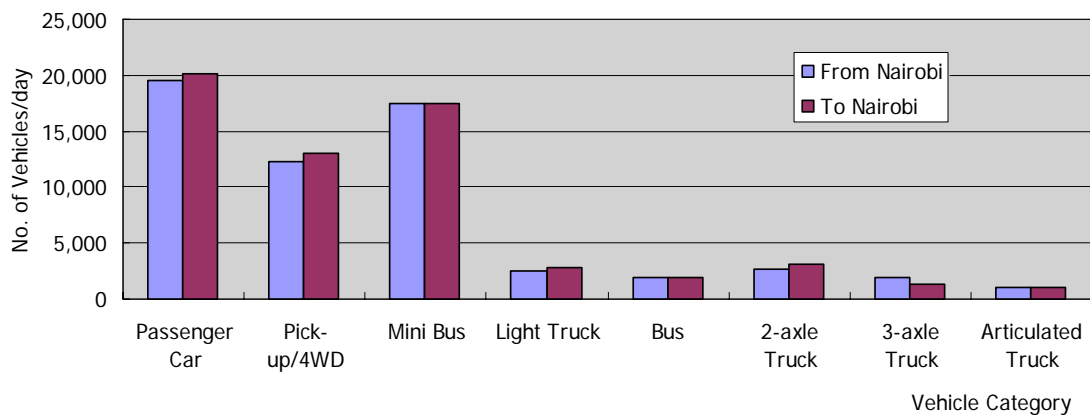
The morning peak hour is mostly between 07-08hr for inbound traffic while the evening peak is 18-19hr for outbound traffic. The evening peak rate is lower than the morning peak, while the evening peak (16-19hr) is longer than the morning peak (07- 08hr).



**FIGURE 10.3-2 HOURLY TRAFFIC VOLUMES TO/FROM NAIROBI**

Hourly Traffic Volume to/from Nairobi

Figure 10.3-3 shows that about 20,000 passenger cars are composing the traffic volume, which is reaching about 60,000 vehicles in each direction.



**FIGURE 10.3-3 TOTAL TRIPS TO/FROM NAIROBI**

TABLE 10.3-1 CORDON LINE

## TRAFFIC COUNT SURVEY(CORDON LINE)

Sta.	Location	Road Name	Survey Date	Dir	1)Sedan/Wagon	2)Pick-up/4WD	3)Mini Bus	4)Light Truck	5)Bus	6)2-axle Truck	7)3-axle Truck	8)Articulated Truck	9)Motorbike/Tricycle	10)Bicycle	11)Push/Pull Cart	12)Walker	Subtotal (1-8)	Total (1-12)
C-1	Outside JKIA	Mombasa Road	14-Sep-04 (12-hr)	To NRB	4,394	2,476	1,755	483	166	549	283	318	94	691	313	4,109	10,424	15,631
				From NRB	4,109	2,476	1,879	691	257	463	313	419	145	83	5	1,240	10,609	12,082
			(24-hr)	Total	8,503	4,952	3,634	1,174	423	1,014	596	737	239	774	318	5,349	21,033	27,713
				To NRB	6,463	3,444	2,533	618	442	760	435	552	111	691	313	4,109	15,247	20,471
			(24-hr)	From NRB	6,220	3,448	2,896	874	509	626	413	685	151	83	5	1,240	15,673	17,152
				Total	12,683	6,892	5,431	1,492	951	1,386	848	1,237	262	774	318	5,349	30,920	37,623
C-2	Uthiru	Naivasha Road	14-Sep-04 (12-hr)	To NRB	1,852	1,201	2,816	154	116	147	134	235	23	111	23	993	6,655	7,805
				From NRB	2,691	1,546	2,829	106	232	471	136	169	14	139	17	759	8,180	9,109
			(24-hr)	Total	4,543	2,747	5,645	260	348	618	270	404	37	250	40	1,752	14,835	16,914
				To NRB	2,476	1,515	3,293	353	191	276	206	257	34	111	23	993	8,567	9,728
			(24-hr)	From NRB	3,270	1,925	3,487	266	310	644	203	192	17	139	17	759	10,297	11,229
				Total	5,746	3,440	6,780	619	501	920	409	449	51	250	40	1,752	18,864	20,957
C-3	Kenya University	Thika Road	15-Sep-04 (12-hr)	To NRB	2,766	1,844	3,644	497	134	528	570	79	0	480	5	2,137	10,062	12,684
				From NRB	2,869	1,938	1,824	452	86	668	325	126	23	252	0	1,697	8,288	10,260
			(24-hr)	Total	5,635	3,782	5,468	949	220	1,196	895	205	23	732	5	3,834	18,350	22,944
				To NRB	3,927	2,753	4,785	796	278	713	729	190	5	480	5	2,137	14,171	16,798
			(24-hr)	From NRB	3,755	2,664	2,875	722	142	797	415	180	45	252	0	1,697	11,550	13,544
				Total	7,682	5,417	7,660	1,518	420	1,510	1,144	370	50	732	5	3,834	25,721	30,342
C-4	Mbagathi Institute	Ngong Road	14-Sep-04 (12-hr)	To NRB	1,219	545	634	104	186	131	28	6	38	529	0	1,771	2,853	5,191
				From NRB	743	469	620	63	126	124	21	6	15	312	5	1,897	2,172	4,401
			(24-hr)	Total	1,962	1,014	1,254	167	312	255	49	12	53	841	5	3,668	5,025	9,592
				To NRB	1,496	659	880	123	233	148	35	10	44	529	0	1,771	3,584	5,928
			(24-hr)	From NRB	1,346	676	907	97	187	146	37	6	19	312	5	1,897	3,402	5,635
				Total	2,842	1,335	1,787	220	420	294	72	16	63	841	5	3,668	6,986	11,563
C-5	Bulbul	Magadi Road	17-Sep-04 (12-hr)	To NRB	944	816	850	86	276	107	75	4	42	12	0	62	3,158	3,274
				From NRB	608	521	672	114	161	60	59	10	22	46	0	337	2,205	2,610
			(24-hr)	Total	1,552	1,337	1,522	200	437	167	134	14	64	58	0	399	5,363	5,884
				To NRB	1,153	997	1,154	105	375	126	88	5	51	12	0	62	4,002	4,127
			(24-hr)	From NRB	1,014	869	985	190	236	80	79	13	37	46	0	337	3,468	3,887
				Total	2,168	1,866	2,139	295	611	206	167	18	88	58	0	399	7,470	8,015
C-6	Dagoretti	Kikuyu Road	16-Sep-04 (12-hr)	To NRB	263	228	196	48	26	24	15	4	8	17	11	348	804	1,188
				From NRB	274	280	345	94	34	83	6	1	39	150	39	630	1,117	1,975
			(24-hr)	Total	537	508	541	142	60	107	21	5	47	167	50	978	1,921	3,163
				To NRB	321	279	266	59	35	28	18	5	10	17	11	348	1,010	1,396
			(24-hr)	From NRB	457	467	506	157	50	111	8	1	63	150	39	630	1,757	2,641
				Total	778	746	772	215	85	139	26	6	73	167	50	978	2,767	4,037
C-7	Ruaka	Limuru Road	17-Sep-04 (12-hr)	To NRB	624	345	1,238	50	8	103	18	0	7	80	0	515	2,386	2,988
				From NRB	509	387	1,251	10	2	113	8	2	1	146	0	521	2,282	2,950
			(24-hr)	Total	1,133	732	2,489	60	10	216	26	2	8	226	0	1,036	4,668	5,938
				To NRB	816	451	1,471	65	10	168	29	0	9	80	0	515	3,010	3,614
			(24-hr)	From NRB	624	475	1,552	12	2	167	12	3	1	146	0	521	2,847	3,515
				Total	1,440	925	3,023	78	12	335	41	3	10	226	0	1,036	5,857	7,129

TABLE 10.3-2 CONGESTION SECTION BY TRAVEL SPEED SURVEY (EVENING)

TRAFFIC COUNT SURVEY (CORDON LINE)

Sta.	Location	Road Name	Survey Date	Dir	1)Sedan/Wagon	2)Pick-up 4WD	3)Mini Bus	4)Light Truck	5)Bus	6)2-axle Truck	7)3-axle Truck	8)Articulate d Truck	9)Motorbike/Tricycle	10)Bicycle	11)Push/Pull Cart	12)Walker	Subtotal (1-8)	Total (1-12)
C-8	Kigwa Estate	Kiambu Road	28-Sep-04 (12-hr)	To NRB	1,362	837	1,491	91	10	78	12	2	17	873	12	88	3,883	4,873
				From NRB	1,364	839	1,491	90	10	84	12	2	17	612	5	27	3,912	4,573
				Total		2,726	1,696	2,982	181	20	162	24	4	34	1,485	17	115	7,795
			(24-hr)	To NRB	1,974	1,213	1,998	132	13	113	17	3	25	873	12	88	5,463	6,461
				From NRB	1,821	1,147	2,355	120	16	113	16	3	23	612	5	27	5,591	6,238
				Total		3,795	2,360	4,353	252	29	226	34	6	47	1,485	17	115	11,055
C-9	Kamiti Prison	Kamiti Road	23-Sep-04 (12-hr)	To NRB	133	126	137	69	39	74	32	0	6	152	152	766	610	1,686
				From NRB	274	237	256	91	78	69	30	1	32	151	1	438	1,036	1,638
				Total		407	363	393	160	117	143	62	1	38	303	153	1,204	1,646
			(24-hr)	To NRB	193	183	184	100	52	107	46	0	9	152	152	766	865	1,944
				From NRB	366	316	404	122	123	93	40	1	43	151	1	438	1,466	2,099
				Total		559	499	588	221	175	200	87	1	51	303	153	1,204	2,331
C-10	Kamulu	Koma Rock Road	24-Sep-04 (12-hr)	To NRB	107	121	199	57	79	59	165	1	10	216	8	365	788	1,387
				From NRB	191	162	331	130	138	130	41	4	12	224	11	263	1,127	1,637
				Total		298	283	530	187	217	189	206	5	22	440	19	628	1,915
			(24-hr)	To NRB	154	174	308	82	122	85	239	1	14	216	8	365	1,167	1,771
				From NRB	280	238	528	191	220	179	56	6	18	224	11	263	1,698	2,214
				Total		435	412	836	273	342	264	295	7	32	440	19	628	2,865
C-11	Kamuru	D408	21-Sep-04 (12-hr)	To NRB	222	204	296	31	61	71	31	0	5	1,389	50	2,445	916	4,805
				From NRB	569	492	516	60	115	108	50	0	23	1,454	78	3,885	1,910	7,350
				Total		791	696	812	91	176	179	81	0	28	2,843	128	6,330	2,826
			(24-hr)	To NRB	290	267	352	41	72	116	51	0	7	1,389	50	2,445	1,188	5,078
				From NRB	698	603	640	74	143	160	74	0	28	1,454	78	3,885	2,391	7,836
				Total		988	870	992	114	215	276	125	0	35	2,843	128	6,330	3,579
C-12	Mwimbo	Gethuru Road	24-Sep-04 (12-hr)	To NRB	232	234	226	32	51	16	2	0	18	17	11	348	793	1,187
				From NRB	173	181	239	31	46	22	4	1	20	150	39	630	697	1,536
				Total		405	415	465	63	97	38	6	1	38	167	50	978	1,490
			(24-hr)	To NRB	303	306	269	42	61	26	3	0	24	17	11	348	1,009	1,409
				From NRB	212	222	296	38	57	33	6	1	25	150	39	630	866	1,709
				Total		515	528	565	80	118	59	9	1	48	167	50	978	1,875
TOTAL			(12-hr)	To NRB	14,118	8,977	13,482	1,702	1,152	1,887	1,365	649	268	4,567	585	13,947	43,332	62,699
				From NRB	14,374	9,548	12,253	1,932	1,285	2,397	1,005	741	363	3,719	200	12,334	43,535	60,141
				Total		28,492	18,525	25,735	3,634	2,437	4,284	2,370	1,390	631	8,286	785	26,271	86,867
			(24-hr)	To NRB	19,566	12,240	17,492	2,515	1,885	2,666	1,897	1,023	342	4,567	585	13,947	59,284	78,725
				From NRB	20,064	13,050	17,434	2,862	1,995	3,148	1,360	1,092	471	3,719	200	12,334	61,086	77,720
				Total		39,630	25,290	34,926	5,378	3,880	5,815	3,256	2,114	813	8,286	785	26,271	120,290

10.4 SCREEN LINE SURVEY

TABLE 10.4-1 (1) TRAFFIC VOLUMES OF THE 15 SURVEY STATIONS

SCREEN LINE TRAFFIC COUNT

Sta.	Location	Road Name	Survey Date	Dir	1) Sedan/Wagon	2) Pick-up/4WD	3) Mini-Bus	4) Light Truck	5) Bus	6) 2-axle Truck	7) 3-axle Truck	8) Articulated Truck	9) Motorcycle/Tricycle	10) Bicycle	11) Push/Pull Cart	12) Walker	Subtotal (1-8)	Total (1-12)		
S-1	Jokim Estate	Mombasa Road	17-Sep-04 (12-hr)	To NRB	6,115	3,132	5,109	663	440	273	406	76	-	490	5	2,127	16,214	18,836		
				From NRB	5,050	2,777	5,692	585	605	428	220	144	71	144	71	252	1	1,648	15,501	17,473
				Total	11,165	5,909	10,801	1,248	1,045	701	626	220	201	144	71	742	6	3,775	31,715	36,309
				(24-hr)	From NRB	6,739	3,683	5,616	759	596	369	504	104	490	104	-	490	5	2,127	18,370
S-2	Kangemi	Waiyaki way	17-Sep-04 (12-hr)	To NRB	13,396	7,009	11,887	1,402	1,401	886	776	372	82	82	742	6	3,775	37,129	41,734	
				From NRB	2,739	1,399	2,957	205	144	137	120	213	27	258	52	1416	7,934	9,687		
				Total	5,305	2,879	6,215	316	342	605	218	355	38	561	92	3,492	16,235	20,438		
				(24-hr)	From NRB	4,135	2,515	4,578	250	476	588	318	398	40	303	40	2,076	13,258	15,717	
S-3	Safari Park	Thika Road	17-Sep-04 (12-hr)	To NRB	7,698	4,285	8,562	608	732	850	528	719	68	561	92	3,492	23,982	28,195		
				From NRB	5,410	2,991	5,980	673	439	594	304	129	75	252	52	1,772	15,841	18,096		
				Total	11,251	6,441	11,052	1,092	855	974	480	216	132	667	27	3,513	32,361	36,700		
				(24-hr)	From NRB	7,608	4,976	6,841	628	663	547	335	229	88	415	11	1,772	21,827	24,113	
S-4	Bomas of Kenya	Langata Road	20-Sep-04 (12-hr)	To NRB	8,305	4,406	7,978	926	1,154	754	402	199	79	252	16	1,741	24,124	26,212		
				From NRB	15,913	9,382	14,819	1,554	1,817	1,301	737	428	167	667	27	3,513	45,951	50,325		
				Total	4,425	2,472	1,757	253	287	237	152	31	98	245	6	833	9,614	10,796		
				(24-hr)	From NRB	2,613	1,921	1,278	303	392	259	115	33	65	72	-	819	6,914	7,870	
S-5	Dandora	Koma Rock Road	21-Sep-04 (12-hr)	To NRB	7,038	4,393	3,035	556	679	496	267	64	163	317	6	1,652	16,528	18,666		
				From NRB	4,893	2,786	2,234	452	362	366	228	33	111	245	6	833	11,374	12,569		
				Total	3,040	2,357	1,834	463	496	432	182	56	70	72	-	819	8,860	9,821		
				(24-hr)	From NRB	7,933	5,143	4,068	915	858	798	410	109	181	317	6	1,652	20,234	22,390	
S-6	Race Course	Ngong Road	20-Sep-04 (12-hr)	To NRB	752	562	950	148	50	476	342	20	20	598	-	1,368	3,300	5,286		
				From NRB	736	468	834	250	96	296	244	22	26	628	12	670	2,946	4,282		
				Total	1,488	1,030	1,784	398	146	772	586	42	46	1,226	12	2,038	6,246	9,568		
				(24-hr)	From NRB	1,058	586	1,052	278	134	330	248	22	32	628	12	670	3,708	5,050	
S-7	Riruta	Naivasha Road	20-Sep-04 (12-hr)	To NRB	1,884	1,234	2,096	460	212	856	598	42	52	1,226	12	2,038	7,382	10,710		
				From NRB	1,468	1,001	608	121	337	45	82	20	5	82	151	32	924	3,605	4,794	
				Total	1,616	1,233	956	132	382	65	17	7	81	136	23	797	4,408	5,445		
				(24-hr)	From NRB	3,084	2,234	1,564	253	719	110	163	37	12	163	287	55	1,721	8,013	10,239
S-7	Riruta	Naivasha Road	20-Sep-04 (12-hr)	To NRB	1,655	1,128	772	198	428	73	33	8	92	151	32	924	4,295	5,494		
				From NRB	1,924	1,468	1,334	211	533	104	27	11	96	136	23	797	5,612	6,664		
				Total	3,579	2,596	2,106	409	961	177	60	19	188	287	55	1,721	9,907	12,158		
				(24-hr)	From NRB	592	465	453	80	107	15	7	1	23	459	11	2,025	1,720	4,238	
S-7	Riruta	Naivasha Road	20-Sep-04 (12-hr)	To NRB	908	485	703	111	120	48	13	8	28	296	29	2,498	2,396	5,247		
				From NRB	1,500	950	1,156	191	227	63	20	9	51	755	40	4,523	4,116	9,485		
				Total	659	518	575	131	136	24	11	2	26	459	11	2,025	2,056	4,577		
				(24-hr)	From NRB	1,081	577	981	177	167	77	21	13	33	296	29	2,498	3,094	5,950	
S-7	Riruta	Naivasha Road	20-Sep-04 (12-hr)	To NRB	1,740	1,095	1,556	308	303	101	32	15	59	755	40	4,523	5,150	10,527		
				From NRB	1,740	1,095	1,556	308	303	101	32	15	59	755	40	4,523	5,150	10,527		
				Total	1,740	1,095	1,556	308	303	101	32	15	59	755	40	4,523	5,150	10,527		
				(24-hr)	From NRB	1,740	1,095	1,556	308	303	101	32	15	59	755	40	4,523	5,150	10,527	

TABLE 10.4-1 (2) TRAFFIC VOLUMES OF THE 15 SURVEY STATIONS

SCREEN LINE TRAFFIC COUNT

Sta.	Location	Road Name	Survey Date	Dir	1) Sedan/Wagon	2) Pick-up/4WD	3) Mini Bus	4) Light Truck	5) Bus	6) 2-axle Truck	7) 3-axle Truck	8) Articulated Truck	9) Motorcycle/Tricycle	10) Bicycle	11) Push/Pull Cart	12) Walker	Subtotal (1-18)	Total (1-12)	
S-8	Canadian Embassy	Limuru Road	To NRB	To NRB	3,358	2,371	2,161	226	83	153	75	14	112	237	-	792	8,441	9,582	
			From NRB	From NRB	3,082	2,852	1,920	227	90	162	50	13	109	387	-	736	8,396	9,628	
			Total	Total	6,440	5,223	4,081	453	173	315	123	27	221	624	-	1,528	16,837	19,210	
			To NRB	From NRB	3,785	2,672	2,419	277	93	187	92	17	126	335	-	792	9,542	10,697	
S-9	Buruburu (Railway Outer Ring Road)		Total	Total	3,931	3,638	2,158	280	101	200	62	16	139	335	-	638	10,386	11,498	
			To NRB	From NRB	7,716	6,310	4,577	557	194	387	154	33	265	572	-	1,430	19,928	22,195	
			Total	Total	3,779	3,316	1,649	654	250	467	219	101	36	1,389	50	2,445	8,435	12,355	
			To NRB	From NRB	3,339	1,790	1,760	675	249	326	246	96	25	1,454	78	3,885	8,481	13,923	
S-10	Makadara	Lunga Lunga Road	Total	Total	7,118	3,106	3,409	1,329	499	793	465	197	61	2,843	128	6,330	16,916	26,278	
			To NRB	From NRB	4,239	1,476	1,850	715	281	511	239	110	40	1,389	50	2,445	9,421	13,345	
			Total	Total	4,559	2,444	2,244	730	318	352	266	104	34	1,454	78	3,885	11,017	16,468	
			To NRB	From NRB	8,798	3,920	4,094	1,445	599	863	505	214	74	2,843	128	6,330	20,438	29,813	
S-11	Kuguru Food Compl	Enterprise Road	Total	Total	2,190	1,231	501	307	7	312	128	104	72	1,540	24	3,400	4,780	9,816	
			To NRB	From NRB	2,284	1,906	858	471	50	402	167	172	201	32	1,063	31	5,829	6,350	12,682
			Total	Total	1,065	2,130	980	835	37	584	300	305	104	2,603	30	5,791	8,426	16,954	
			To NRB	From NRB	2,468	1,387	561	376	8	382	157	127	81	1,540	24	3,400	5,466	10,511	
S-12	Kawangware	Kawangware Road	Total	Total	1,358	1,147	538	652	34	336	212	248	41	922	5	2,073	4,525	7,566	
			To NRB	From NRB	3,826	2,534	1,099	1,028	42	718	369	375	122	2,462	29	5,473	9,991	18,077	
			Total	Total	2,284	1,906	858	471	50	402	167	172	201	32	1,063	31	5,829	6,350	12,682
			To NRB	From NRB	1,707	1,575	861	587	110	569	222	244	181	414	8	5,587	5,875	12,065	
S-13	Lake View	Lower Kabete Road	Total	Total	3,991	3,481	1,719	1,058	160	971	389	456	308	759	39	11,416	12,225	24,747	
			To NRB	From NRB	2,574	2,148	961	577	56	492	204	260	143	345	31	5,829	7,272	13,620	
			Total	Total	4,751	4,157	1,929	1,302	180	1,194	478	561	374	704	38	10,672	14,532	26,340	
			To NRB	From NRB	1,799	1,068	750	22	60	66	-	-	115	462	21	2,101	3,765	6,464	
S-14	Gachite Shops	RedHill Road	Total	Total	1,088	1,399	850	38	68	38	-	-	177	340	17	1,604	3,501	5,639	
			To NRB	From NRB	2,887	2,467	1,600	60	128	124	-	-	292	802	38	3,705	7,266	12,103	
			Total	Total	2,003	1,189	953	36	76	108	-	-	128	462	21	2,101	4,365	7,077	
			To NRB	From NRB	1,295	1,665	1,186	61	95	93	-	-	211	340	17	1,604	4,395	6,567	
S-13	Lake View	Lower Kabete Road	Total	Total	3,298	2,854	2,139	97	171	201	-	-	339	802	38	3,705	8,760	13,644	
			To NRB	From NRB	1,122	799	674	33	66	5	-	-	17	95	28	622	2,699	3,461	
			Total	Total	864	684	748	83	115	32	8	8	190	8	519	2,536	3,258		
			To NRB	From NRB	1,986	1,483	1,422	116	181	37	8	2	22	285	36	1,141	5,235	6,719	
S-14	Gachite Shops	RedHill Road	Total	Total	1,446	1,030	922	55	90	8	-	-	22	95	28	622	3,551	4,318	
			To NRB	From NRB	1,420	1,124	1,094	161	168	62	16	4	8	163	7	445	4,049	4,672	
			Total	Total	2,866	2,154	2,016	216	238	70	16	4	30	258	35	1,067	7,600	8,990	
			To NRB	From NRB	339	182	561	56	3	10	-	-	12	1,630	64	633	1,151	3,490	
S-14	Gachite Shops	RedHill Road	Total	Total	284	372	664	84	4	50	18	5	48	1,576	57	593	1,481	3,755	
			To NRB	From NRB	623	554	1,225	140	7	60	18	5	60	3,206	121	1,226	2,632	7,245	
			Total	Total	437	235	767	93	4	17	-	-	15	1,630	64	633	1,553	3,895	
			To NRB	From NRB	467	611	971	163	6	97	35	10	79	1,353	49	509	2,360	4,330	
Total	Total	904	846	1,738	256	10	114	35	10	94	2,983	113	1,142	3,913	8,245				

SCREEN LINE TRAFFIC COUNT  
**TABLE 10.4-1 (3) TRAFFIC VOLUMES OF THE 15 SURVEY STATIONS**

Sta.	Location	Road Name	Survey Date	Dir	1) Sedan/ Wagon	2) Pick-up/ 4WD	3) Mini Bus	4) Light Truck	5) Bus	6) 2-axle Truck	7) 3-axle Truck	8) Articulate d Truck	9) Motorbik e/ Tricycle	10) Bicycle	11) Push/Pu ll Cart	12) Walker	Subtotal (1-8)	Total (1-12)
S-15	Garden Estate	Kiambu Road	18-Sep-04 (12-hr)	To NRB	2,503	726	1,499	148	39	68	16	3	22	302	-	653	5,002	5,979
				From NRB	1,375	1,197	1,550	122	16	54	18	3	25	3	25	396	-	811
			Total		3,878	1,923	3,049	270	55	122	34	6	47	698	-	1,464	9,337	11,546
			(24-hr)	To NRB	3,390	983	2,050	242	53	111	26	5	30	302	-	653	6,860	7,845
				From NRB	2,080	1,811	2,205	164	23	72	24	4	4	38	343	-	703	6,383
			Total		5,470	2,794	4,255	406	76	183	50	9	68	645	-	1,356	13,243	15,312
TOTAL			(12-hr)	To NRB	39,306	22,080	25,559	3,806	2,339	3,066	1,828	867	820	8,616	335	26,940	98,851	135,562
				From NRB	31,703	22,123	27,533	4,509	2,914	3,661	1,745	1,049	979	7,759	295	26,375	95,237	130,645
			Total		71,009	44,203	53,092	8,315	5,253	6,727	3,573	1,916	1,799	16,375	630	53,315	194,088	266,207
			(24-hr)	To NRB	46,285	26,629	31,549	5,079	3,180	3,983	2,389	1,256	950	8,616	335	26,940	120,350	157,191
				From NRB	43,487	29,684	35,392	5,884	4,716	2,359	1,654	284	284	7,208	284	24,949	127,810	161,464
			Total		89,772	56,313	66,941	10,963	7,814	8,699	4,748	2,910	2,163	15,824	619	51,889	248,160	318,655

10.5 TRAFFIC COUNT SURVEY

TABLE 10.5-1 (1) TRAFFIC COUNT SURVEY

TRAFFIC COUNT( 30 Sections)

Sta.	Location	Road Name	Survey Date	Dir	1)Sedan/Wagon	2)Pick-up/4WD	3)Mini Bus	4)Light Truck	5)Bus	6)2-axle Truck	7)3-axle Truck	8)Articulated Truck	9)Motorbike/Tricycle	10)Bicycle	11)Push/Pull Cart	12)Walker	Subtotal (1-8)	Total (1-12)			
T1	Wilson Airport	Langata Rd	13-Mar-04 (12-hr)	1	8,657	4,328	3,588	360	356	176	48	11	87	137	16	2,166	17,524	19,590			
				2	6,142	5,101	2,960	430	392	175	44	14	180	188	25	1,628	15,258	17,279			
				Total	14,799	9,429	6,548	790	748	351	92	25	267	325	41	3,794	32,782	37,209			
				(24-hr)	10,562	5,280	4,557	536	452	262	72	16	106	137	16	2,166	21,737	24,162			
T2	KWAL	Enterprise Rd	7-Mar-04 (12-hr)	1	19,161	12,421	8,523	1,160	977	516	136	36	38	358	325	41	3,794	42,930	47,448		
				2	5,640	4,529	1,583	1,002	44	476	191	133	415	525	30	2,806	13,598	17,374			
				Total	4,752	4,767	1,657	771	97	618	247	199	418	788	38	4,849	13,108	19,201			
				(24-hr)	10,392	9,296	3,240	1,773	141	1,094	438	332	833	1,313	68	7,655	26,706	36,575			
T3	Makongeni Police St	Jogoo Road	7-Mar-04 (12-hr)	1	6,881	5,525	2,010	1,493	56	709	285	198	506	525	30	2,806	17,157	21,024			
				2	6,653	6,674	2,220	1,118	130	896	338	289	585	788	38	4,849	18,338	24,598			
				Total	13,534	12,199	4,230	2,611	186	1,605	643	487	1,091	1,313	68	7,655	35,495	45,622			
				(24-hr)	9,548	7,250	9,120	1,010	2,403	451	202	82	289	634	96	3,158	30,066	34,243			
T4	Punwani Maternity Hos	General Waruingu Rd	7-Mar-04 (12-hr)	1	8,456	4,904	9,867	730	737	631	176	62	243	910	105	3,357	25,563	30,178			
				2	2,387	1,259	2,540	274	373	220	119	71	32	354	210	4,554	7,243	12,393			
				Total	18,004	12,154	18,987	1,740	3,140	1,082	378	144	532	1,544	201	6,515	55,629	64,421			
				(24-hr)	11,649	8,845	11,582	1,505	3,052	672	301	122	353	634	96	3,158	37,728	41,969			
T5	Radiant Hospital	Juja Rd	7-Mar-04 (12-hr)	1	23,487	15,711	24,804	2,564	4,040	1,587	556	212	693	1,544	201	3,357	35,233	39,945			
				2	2,878	1,388	3,231	301	259	208	102	102	39	413	274	3,173	8,367	12,266			
				Total	26,365	17,099	28,035	2,865	4,299	1,795	658	322	448	212	71	71	767	484	7,727	15,610	24,659
				(24-hr)	3,342	1,763	3,404	397	500	319	173	103	45	354	210	4,554	10,001	15,164			
T6	Pungani	Thika Road	7-Mar-04 (12-hr)	1	6,853	3,456	7,507	845	829	629	325	103	93	767	484	7,727	20,547	29,618			
				2	3,455	1,887	5,067	256	730	91	102	79	76	2,262	388	19,494	11,667	33,887			
				Total	2,263	1,196	5,899	340	229	116	108	40	174	4,006	731	32,574	21,858	59,245			
				(24-hr)	4,215	2,302	6,435	381	927	136	152	118	93	2,262	388	19,494	14,666	36,903			
T7	Uchumi s/m(Parklands)	Limuru Rd	7-Mar-04 (12-hr)	1	3,168	1,674	7,905	493	307	168	157	58	-	1,744	343	13,080	13,930	29,097			
				2	7,383	3,976	14,340	874	1,234	304	309	176	93	4,006	731	32,574	28,596	66,000			
				Total	18,532	13,803	19,299	2,147	2,029	1,142	811	262	484	386	18	5,190	58,025	64,103			
				(24-hr)	3,006	1,759	2,861	221	238	64	36	13	51	200	7	632	8,238	9,128			
T8	Uchumi s/m(Parklands)	Limuru Rd	7-Mar-04 (12-hr)	1	4,101	2,612	2,649	121	11	42	2	3	135	160	14	486	9,541	10,336			
				2	7,107	4,411	5,510	342	249	106	38	16	186	360	21	1,118	17,779	19,464			
				Total	3,667	2,195	3,633	329	302	95	54	19	62	200	7	632	10,294	11,195			
				(24-hr)	5,741	3,657	3,550	175	15	61	3	4	189	160	14	486	13,206	14,055			
Total	9,408	5,852	7,183	504	317	156	57	23	251	360	21	1,118	23,500	25,250							



TABLE 10.5-1 (2) TRAFFIC COUNT SURVEY

TRAFFIC COUNT( 30 Sections)

Sta	Location	Road Name	Survey Date	Dir	1)Secur Wagon	2)Pick-up 4WD	3)Mini Bus	4)Light Truck	5)Bus	6)2-whe Truck	7)3-whe Truck	8)Articulated Truck	9)Motorbike e/Tricycle	10)Bicycle	11)Push/Bike Il Cart	12)Walker	Subtotal (1-8)	Total (1-12)		
T15	Muthaga police Station	Kiambu Rd	7-Mar-04	1	1,699	843	2,219	54	6	21	-	-	-	7	93	-	961	4,842	5,903	
			(12-hr)	2	1,399	1,047	803	86	10	52	9	-	-	-	46	62	-	1,033	3,400	4,541
			Total	1	3,098	1,890	3,022	140	10	73	9	-	-	-	53	155	-	1,994	8,242	10,444
T16	Nairobi South Pk. School/Mombasa Rd		(24-hr)	2	2,073	1,028	2,818	80	8	31	-	-	-	9	93	-	961	6,038	7,101	
			Total	2	1,959	1,466	1,976	125	5	75	13	-	-	-	64	62	-	1,033	4,719	5,878
			(13-Mar-04)	1	4,032	2,494	3,894	205	13	106	13	-	-	-	73	155	-	1,994	10,757	12,979
T17	Armed Forces Hospital	Mbagathi Rd	(12-hr)	2	8,958	4,651	2,662	709	373	412	182	180	168	331	82	4	1,440	23,748	25,605	
			Total	2	18,065	9,270	5,370	1,325	6,114	993	348	350	348	613	155	11	2,530	41,835	45,144	
			(24-hr)	1	11,111	5,684	3,439	918	7,291	866	250	250	404	82	4	1,440	29,809	31,739		
T18	Industrial Area Police St/Chogoria Rd		(12-hr)	2	12,541	6,455	3,567	1,028	500	597	264	261	395	73	7	1,090	25,213	26,778		
			Total	2	23,652	12,139	7,006	1,946	7,391	1,463	514	511	799	155	11	2,530	55,022	58,517		
			(24-hr)	1	9,349	5,514	1,943	778	985	568	225	62	74	131	155	9	2,067	19,424	21,705	
T19	Kenya polytechnics	Haile Selassie Avenue	(12-hr)	2	7,864	3,445	1,299	262	416	235	59	11	104	228	7	2,668	13,591	16,338		
			Total	2	17,213	8,959	3,242	1,040	1,401	803	284	73	178	359	16	4,675	33,015	38,243		
			(24-hr)	1	11,406	6,727	2,468	1,159	1,251	846	335	92	90	131	9	2,067	24,284	26,581		
T20	Groganville estate	Riverside Drive	(12-hr)	2	11,010	4,823	1,741	380	557	341	86	16	146	228	7	2,668	18,954	21,943		
			Total	2	22,416	11,550	4,209	1,539	1,808	1,187	421	108	236	359	16	4,675	43,238	48,524		
			(24-hr)	1	4,435	2,703	998	186	155	87	55	12	159	405	-	4,901	8,631	14,096		
T21	ABC Place	Waiyaki Way	(12-hr)	2	4,337	1,435	1,179	284	249	194	27	17	299	544	-	5,921	7,622	14,356		
			Total	2	8,672	4,138	2,177	470	404	281	82	29	458	949	-	10,822	16,253	28,482		
			(24-hr)	1	5,411	3,298	1,267	277	197	130	82	18	194	405	-	4,901	10,680	16,180		
T22	Waiyaki Way		(12-hr)	2	5,932	2,009	1,580	412	334	281	39	25	419	544	-	5,921	10,612	17,496		
			Total	2	11,343	5,307	2,847	689	531	411	121	43	613	949	-	10,822	21,292	33,676		
			(24-hr)	1	3,483	2,229	1,076	173	732	77	6	5	148	244	-	4,901	17,481	35,684		
T23	Waiyaki Way		(12-hr)	2	3,107	2,507	12,053	136	365	100	9	1	115	218	87	17,957	18,268	36,645		
			Total	2	6,590	4,736	22,829	299	1,097	177	15	6	263	462	219	35,636	35,749	72,329		
			(24-hr)	1	4,349	2,719	13,686	258	930	115	9	7	181	244	132	17,679	21,973	40,309		
T24	Waiyaki Way		(12-hr)	2	4,350	3,510	16,151	183	489	145	13	1	161	218	87	17,957	24,842	43,265		
			Total	2	8,599	6,229	29,837	441	1,419	260	22	8	342	462	219	35,636	46,815	83,474		
			(24-hr)	1	1,753	822	145	33	18	48	8	-	88	462	-	2,251	2,827	5,628		
T25	Waiyaki Way		(12-hr)	2	1,186	544	104	30	8	6	7	4	80	437	2	2,758	1,889	5,166		
			Total	2	2,939	1,366	249	63	26	54	15	4	168	899	2	5,009	4,716	10,794		
			(24-hr)	1	2,139	1,003	184	49	23	72	12	-	107	462	-	2,251	3,482	6,302		
T26	Waiyaki Way		(12-hr)	2	1,709	1,765	323	93	34	81	22	6	219	899	2	2,758	2,641	5,950		
			Total	2	4,996	3,993	4,769	602	1,068	373	314	185	172	336	77	1,484	16,300	18,369		
			(24-hr)	2	4,734	3,010	4,106	756	1,083	631	477	440	262	336	77	1,484	15,209	17,368		
T27	Waiyaki Way		(12-hr)	1	9,730	7,003	8,875	1,328	2,153	1,004	791	625	434	672	154	2,968	31,509	35,737		
			Total	1	6,095	4,871	6,057	897	1,356	556	468	276	210	336	77	1,484	20,576	22,683		
			(24-hr)	2	6,628	4,214	5,902	1,053	1,454	915	692	638	367	336	77	1,484	21,096	23,360		
T28	Waiyaki Way		(12-hr)	2	12,723	9,085	11,359	1,950	2,810	1,471	1,160	914	577	672	154	2,968	41,672	46,043		
			Total	2	12,723	9,085	11,359	1,950	2,810	1,471	1,160	914	577	672	154	2,968	41,672	46,043		
			(24-hr)	1	12,723	9,085	11,359	1,950	2,810	1,471	1,160	914	577	672	154	2,968	41,672	46,043		

TABLE 10.5-1 (3) TRAFFIC COUNT SURVEY

TRAFFIC COUNT (30 Sections)

Sta.	Location	Road Name	Survey Date	Dir	1) Sedan/ Wagon	2) Pick-up/ 4WD	3) Mini Bus	4) Light Truck	5) Bus	6) 2-axle Truck	7) 3-axle Truck	8) Articulated Truck	9) Motorbike e/ Tricycle	10) Bicycle	11) Push/Pull Cart	12) Walker	Subtotal (1-8)	Total (1-12)	
TL2	Fairbrood Nursing Home	Prakirood	7-Mar-04 (12-hr)	1	834	506	6,093	81	171	62	33	-	41	142	63	5,058	7,780	13,084	
			7-Mar-04 (12-hr)	2	1,538	544	5,265	27	141	67	46	69	2,971	36	146	89	2,971	7,688	10,870
			Total		2,392	1,050	11,358	108	312	129	79	158	5,942	77	288	152	8,029	15,428	23,954
TL3	SST. Austins Academy	James Gichuru Rd	(24-hr)	1	1,017	617	7,738	121	92	52	49	-	50	142	63	5,058	9,851	15,164	
			(24-hr)	2	2,181	762	7,055	39	189	97	67	-	50	146	69	2,971	10,390	13,626	
			Total		3,198	1,379	14,793	160	406	189	116	-	100	288	132	8,029	20,241	28,790	
TL4	Rungu Estate	C02	7-Mar-04 (12-hr)	1	4,045	2,053	4,068	110	35	60	24	-	1	37	404	-	2,196	6,716	9,663
			7-Mar-04 (12-hr)	2	4,114	2,488	4,991	139	92	55	30	5	13	531	-	1,288	7,516	9,348	
			Total		8,159	4,541	9,059	249	127	115	54	6	26	1,062	-	2,574	14,232	19,011	
TL5	Rukuba	C03	(24-hr)	1	4,935	2,495	518	164	44	89	36	1	45	494	-	2,196	8,292	11,227	
			(24-hr)	2	5,760	3,483	795	202	123	80	44	7	18	531	-	1,288	10,494	12,331	
			Total		10,695	5,988	1,313	366	167	169	80	8	63	1,025	-	2,484	18,786	23,558	
TL6	Near Kerwa	A104	7-Mar-04 (12-hr)	1	312	185	2,999	38	67	18	11	-	3	12	594	46	1,715	933	3,900
			7-Mar-04 (12-hr)	2	3,238	2,75	4,47	37	60	26	3	0	18	266	44	1,607	1,176	3,111	
			Total		6,40	460	7,466	75	127	44	14	3	30	860	90	3,222	2,109	6,011	
TL7	Juja	Thika Road	(24-hr)	1	381	226	380	57	85	27	16	4	15	594	46	1,715	1,176	3,546	
			(24-hr)	2	459	385	599	54	80	38	4	-	25	266	44	1,607	1,619	3,561	
			Total		840	611	979	111	165	65	20	4	40	860	90	3,222	2,795	7,107	
TL8	Thika	A3	7-Mar-04 (12-hr)	1	1,824	1,403	2,922	351	264	374	165	146	63	168	7	515	7,489	8,202	
			7-Mar-04 (12-hr)	2	1,599	1,069	1,553	225	137	288	173	76	63	850	17	1,220	5,089	7,330	
			Total		3,383	2,472	4,475	576	401	662	338	222	343	1,516	24	2,440	12,529	15,532	
TL9	Thika	A3	(24-hr)	1	2,225	1,712	3,711	523	335	557	246	218	77	168	7	515	9,527	10,294	
			(24-hr)	2	2,183	1,497	2,081	326	184	418	251	110	88	850	17	1,220	7,050	9,328	
			Total		4,408	3,209	5,792	849	519	975	497	228	165	1,018	24	2,640	16,577	19,619	
TL10	Thika	A3	7-Mar-04 (12-hr)	1	1,935	1,531	3,054	476	198	505	168	87	65	502	22	558	7,954	9,101	
			7-Mar-04 (12-hr)	2	2,812	1,719	2,609	443	341	315	153	121	40	391	384	323	8,513	9,653	
			Total		4,747	3,250	5,663	919	539	820	321	208	105	895	406	881	16,467	18,754	
TL11	Thika	A3	(24-hr)	1	2,361	1,868	3,879	709	251	752	250	79	752	22	558	10,200	11,361		
			(24-hr)	2	3,937	2,407	3,496	642	487	457	222	175	56	393	384	323	11,793	12,949	
			Total		6,298	4,275	7,375	1,351	708	1,209	472	305	135	895	406	881	21,993	24,310	

TRAFFIC COUNT (30 Sections) **TABLE 10.5-1 (4) TRAFFIC COUNT SURVEY**

Sta.	Location	Road Name	Survey Date	Dir	1)Sedan/Wagon	2)Pick-up/4WD	3)Mini Bus	4)Light Truck	5)Bus	6)2-axle Truck	7)3-axle Truck	8)Articulated Truck	9)Motorbike/Tricycle	10)Bicycle	11)Push/Pull Cart	12)Walker	Subtotal (1-8)	Total (1-12)	
T29	Kitengela	A104	7-Mar-04 (12-hr)	1	567	338	589	125	45	199	129	109	2	59	.	340	2,301	2,702	
				2	695	637	698	111	41	239	147	93	2	88	.	669	2,661	3,420	
			Total		1,262	1,175	1,287	236	86	438	276	202	4	147	.	1,009	4,962	6,122	
			(24-hr)		1	692	656	748	186	57	297	192	162	2	59	.	340	2,990	3,391
T30	Machakos	A109	7-Mar-04 (12-hr)	2	973	892	935	161	55	347	213	135	3	88	.	669	3,711	4,471	
				Total		1,665	1,548	1,683	347	112	644	405	297	5	147	.	1,009	6,701	7,862
			(24-hr)		1	1,637	938	941	84	137	402	382	427	14	239	4	607	4,968	5,832
			Total		2	747	940	1,440	203	155	296	214	186	47	229	6	779	4,181	5,242
			Total	1	2,384	1,898	2,381	287	292	698	596	613	61	468	10	1,386	9,149	11,074	
				2	1,997	1,169	1,195	125	174	599	569	636	17	239	4	607	6,464	7,331	
			(24-hr)		2	1,046	1,316	1,930	294	208	429	310	270	66	229	6	779	5,803	6,883
			Total			3,043	2,485	3,125	419	382	1,028	879	906	83	468	10	1,386	12,267	14,214

## 10.6 PUBLIC TRANSPORT USERS SURVEY

### 10.6.1 Interview Survey Form

<b>NUTrans (Bus/Matatu-Passenger Interview Survey Form)</b>				
Location: _____	Surveyor: _____	Time: _____		
Respondent: 1. Bus track	2. Metro shuttle	3. Other Bus	4. Matatu	5. Others
Route: _____				
<b>I. ABOUT YOURSELF</b>				
<b>1. Sex:</b>	1. Male	2. Female		
<b>2. Age:</b>	1. <19	2. 20-29	3. 30-39	4. 40-49 5. 50-59 6. >60
<b>3. Educational Background:</b>	1. Primary School	2. High School	3. University/College	
	4. Vocational Training	5. None		
<b>4. Working Status:</b>	1. Working	2. Studying (Univ./Col.)	3. Schooling	
	4. Housewife	5. Jobless	6. Retired	
<b>5. How much are you earning per month? (K.shs/month)</b>				
1. Under Kshs1,999	2. Kshs2,000-4,999	3. Kshs5,000-9,999	4. Kshs10,000-14,999	
5. Kshs15,000-19,999	6. Kshs20,000-29,999	7. Kshs30,000-39,999	8. Kshs40,000-49,999	
9. Kshs50,000-99,999	10. Kshs100,000 OVER			
<b>II. ABOUT THIS TRIP</b>				
<b>6. Where did you start this trip?</b>				□ □ □
_____	_____	_____	_____	
No. / Building	Street	Estate / District	City / Municipality	
<b>7. Where will you end this trip?</b>				□ □ □
_____	_____	_____	_____	
No. / Building	Street	Estate / District	City / Municipality	
<b>8. What is the purpose of this trip?</b>				
1. To Home	2. To Work	3. To School	4. Business	5. Private 6. Others
<b>9. How do you access and egress mode to/from bus stop/matatu?</b>				
9.1 Access:	Mode _____	, Time _____ minutes		
9.2 Access:	Mode _____	, Time _____ minutes		
1. Walking	2. Bicycle/Tricycle	3. Bus	4. Matatu	5. Others (Please specify _____)
<b>10. What kind of bus ticket do you use for this trip?</b>				
1. Single trip ticket	2. Monthly ticket			
<b>10.1 If you use a monthly bus ticket, please answer: How many trips do you make per day?</b>				
1. Weekday:	_____ trips/day	2. Weekend day:	_____ trips/day	
<b>11. When did you start to use this Bus/Matatu Route?</b>				
1. >3 years	2. 2-3 years	3. 1-2 years	4. <1 year	

**III. OPINION ON BUS SERVICE**

<b>12. What is your assessment of present Bus/Matatu service?</b>					
	1. very good	2. good	3. fair	4. bad	5. very bad
1) Travel time/speed	1.	2.	3.	4.	5.
2) Waiting time	1.	2.	3.	4.	5.
3) Punctuality	1.	2.	3.	4.	5.
4) Service hours	1.	2.	3.	4.	5.
5) Transfer to other routes	1.	2.	3.	4.	5.
6) Safety on B/A at bus stop	1.	2.	3.	4.	5.
7) Fleet quality	1.	2.	3.	4.	5.
8) On board comfort	1.	2.	3.	4.	5.
9) On board security	1.	2.	3.	4.	5.
10) Operational information	1.	2.	3.	4.	5.
11) Driver's skill	1.	2.	3.	4.	5.
12) Staff behaviors	1.	2.	3.	4.	5.
13) Fare	1.	2.	3.	4.	5.
14) Ticketing system	1.	2.	3.	4.	5.
15) Feeder service	1.	2.	3.	4.	5.
16) Air quality	1.	2.	3.	4.	5.
17) Noise level	1.	2.	3.	4.	5.
<b>Questions 18,19 and 20 are only for bus passengers</b>					
18) Bus stop location/number	1.	2.	3.	4.	5.
19) Bus stop facility	1.	2.	3.	4.	5.
20) Operational info at bus stop	1.	2.	3.	4.	5.
<b>13. Please express how important are the following criteria to improve the Bus/Matatu service?</b>					
<i>Criteria</i>	1. important	2. indifferent	3. Not important		
1) Reduction of travel time	1.	2.	3.		
2) Reduction of waiting time	1.	2.	3.		
3) Improvement of regularity/punctuality	1.	2.	3.		
4) Extension of service hours	1.	2.	3.		
5) Improvement of accessibility to bus stop	1.	2.	3.		
6) Improvement of bus stop facility/information	1.	2.	3.		
7) Introduction of new bus fleet with air-con.	1.	2.	3.		
8) To provide the bus priority lane	1.	2.	3.		
9) Parking space at the bus stop/terminal	1.	2.	3.		
10) Feeder service	1.	2.	3.		

**IV. TRAFFIC SAFETY****14. What is the major reason of traffic accidents happened in Nairobi?**

1. Bad driving behavior of road users
2. Poor physical conditions of roads
3. Inadequate traffic control and safety facilities (traffic signal, markings, pedestrian crossing etc.)
4. Weak traffic enforcement by traffic police
5. People don't follow the traffic rules and regulations

**14.1 If answer is (1), whose driving behavior is the most dangerous on traffic?**

1. Bicycle/Tricycle
2. Matatu
3. Bus
4. Truck
5. Taxi
6. Car
7. Pedestrian

**15. Where is the most dangerous traffic point in Nairobi?**

Please specify: \_\_\_\_\_

**16. In order to improve traffic safety and efficiency, what countermeasures are important?**

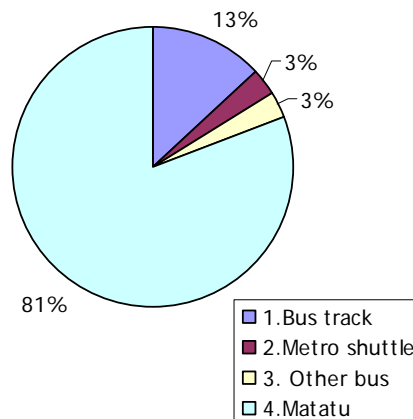
Countermeasures	Importance		
	1. Important	2. Indifferent	3. Not important
1) Strengthening enforcement by traffic police	1.	2.	3.
2) Proper traffic control at intersection	1.	2.	3.
3) More traffic education to the people	1.	2.	3.
4) Reduction of max speed	1.	2.	3.
5) Introduction of more traffic signals	1.	2.	3.
6) Introduction of more street lights	1.	2.	3.
7) Proper and visible lane marking	1.	2.	3.
8) More traffic information and warning signs	1.	2.	3.
9) Improvement of pedestrian crossing	1.	2.	3.

**Thank you very much for your kind cooperation!**

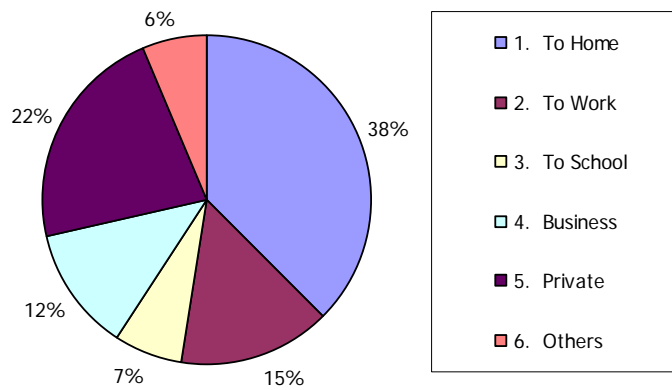
**10.6.2 Results of the Interview Survey**

**(1) Characteristics of Public Transport Users**

Figure 10.6-1 shows the distribution of the respondents. The total number is 1615 samples. Figure 10.6-2 on the other hand shows the distribution of the public transport by the trip purpose. Figure 10.6-3 and 10.6-4 show the distribution of origin and destination of public transport trips for the different traffic zones.



**FIGURE 10.6-1 RESPONDENTS**



**FIGURE 10.6-2 TRIP PURPOSE**

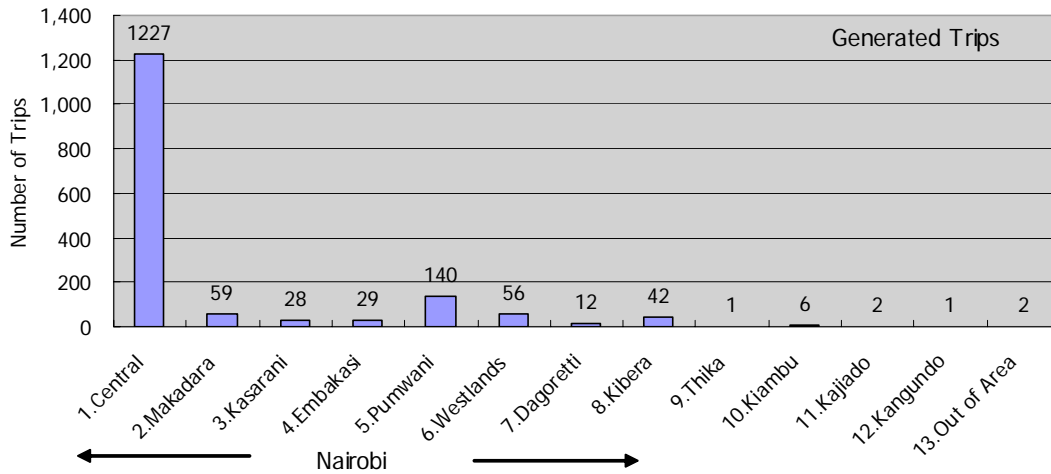


FIGURE 10.6-3 TRIP ORIGIN

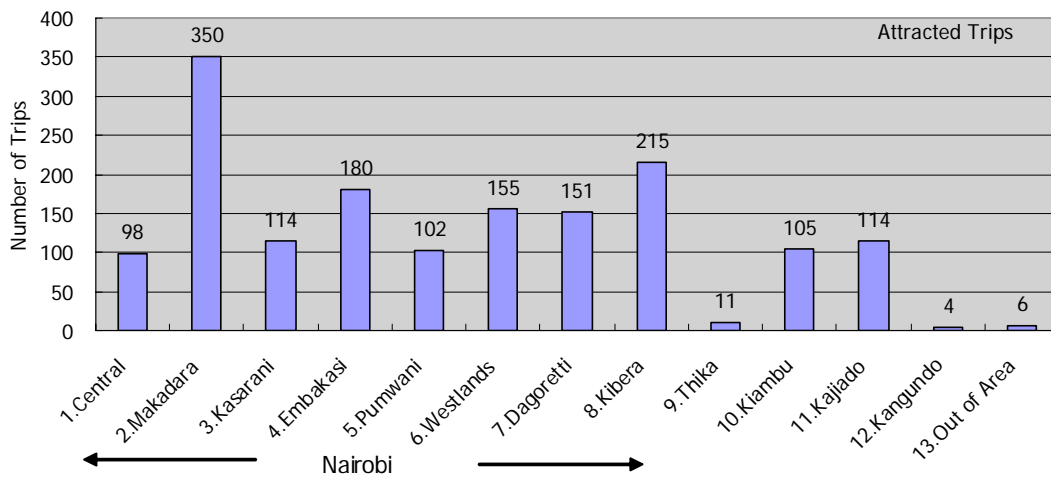


FIGURE 10.6-4 TRIP DESTINATION

Figure 10.6-5 shows most of the access mode to/from bus stop/matatu is walking. The maximum walking time to/from bus stop/matatu is 30min as shown in Figure 10.6-6. Around 46% of the total sample have less than or equal 10 min walking time. The average walking time is 11.7 min.

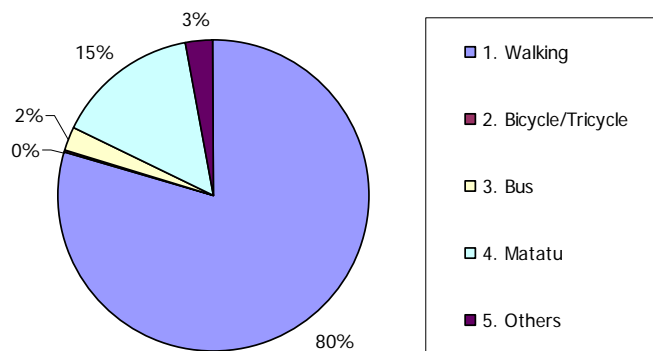
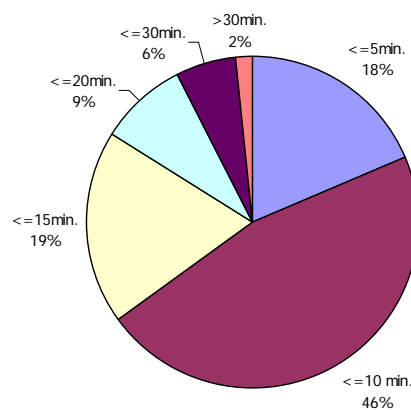


FIGURE 10.6-5 ACCESS MODE TO/FROM BUSSTOP/MATATU

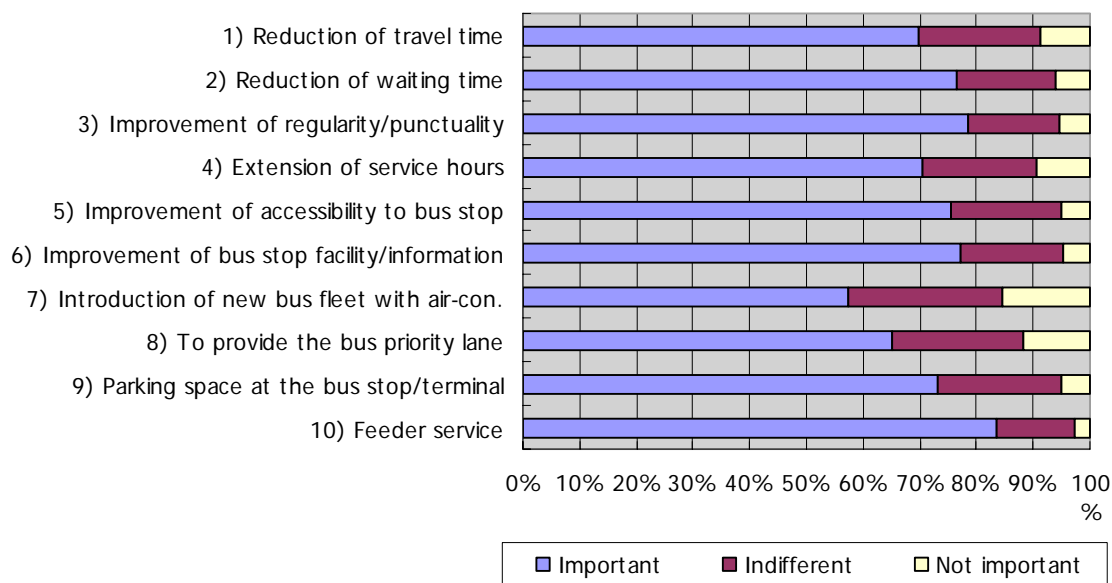




**FIGURE 10.6-6 WALKING TIME TO/FROM BUSSTOP/MATATU**

**(2) Opinion on Bus/Matatu Service**

The opinions of the residents to improve the services of bus/matatu is reflected in Figure in Figure 10.6-9. In general, it appears that there is a strong opinion to improve the present level of service.



**FIGURE 10.6-7 OPINION TO IMPROVE THE BUS/MATATU SERVICE**

**(3) Traffic Safety**

The major reason of traffic accidents are bad driving behavior and poor physical conditions of roads shown in Figure 10.6-8. Especially bad driving behavior is matatu driver shown in Figure 10.6-9. The two major reasons of traffic accidents are bad driving and poor physical conditions of roads as shown in Figure 10.6-8. The main source of these accidents are matatus (Figure 10.6-9).

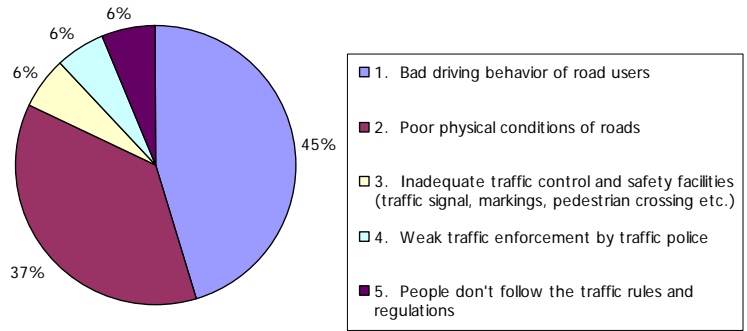


FIGURE 10.6-8 OPINION ON THE MAJOR REASON OF TRAFFIC ACCIDENT

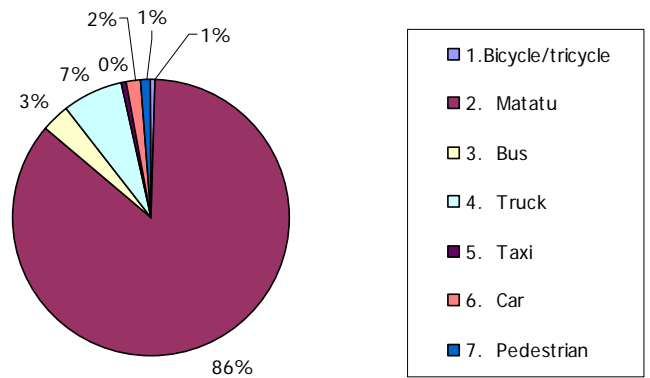


FIGURE 10.6-9 OPINION ON THE MOST DANGEROUS DRIVING BEHAVIOR ON TRAFFIC

As presented in Figure 10.6-10, all countermeasures for traffic safety and efficiency are important. In particular, the countermeasures which are deemed to be important are “Strengthening enforcement by traffic police”, “Proper traffic control at intersection”, and “Improvement of pedestrian crossing”.

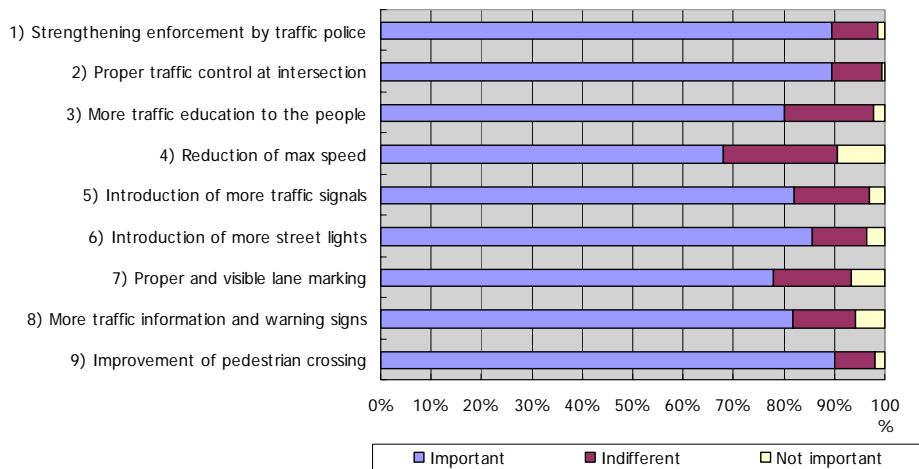


FIGURE 10.6-10 OPINION ON THE COUNTERMEASURES FOR TRAFFIC SAFETY AND EFFICIENCY