

THE UNITED REPUBLIC OF TANZANIA

THE FEASIBILITY STUDY  
ON  
ROAD IMPROVEMENT AND MAINTENANCE  
IN  
DAR ES SALAAM

FINAL REPORT

APPENDICES

JULY, 1990

JAPAN INTERNATIONAL COOPERATION AGENCY

S S F

90-096

THE FEASIBILITY STUDY ON ROAD IMPROVEMENT  
AND MAINTENANCE IN DAR ES SALAAM

FINAL REPORT  
APPENDICES

JULY, 1990

46  
737  
S S F

90-096



JICA LIBRARY



1082772[3]

21240.



THE UNITED REPUBLIC OF TANZANIA

THE FEASIBILITY STUDY

ON

ROAD IMPROVEMENT AND MAINTENANCE

IN

DAR ES SALAAM

FINAL REPORT

APPENDICES

JULY, 1990

JAPAN INTERNATIONAL COOPERATION AGENCY

国際協力事業団

21240

# APPENDICES

## CHAPTER 1: INTRODUCTION

## CHAPTER 2: OUT LINE OF THE STUDY AREA

Appendix 2-1: Gross Domestic Product by Kind of Economic Activity at Current Prices.....	A-2-1
Appendix 2-2: Gross Domestic Product by Kind of Economic Activity at 1976's Prices.....	A-2-2
Appendix 2-3: Structure of GDP.....	A-2-3
Appendix 2-4: Existing Condition of Bus Terminal.....	A-2-4
Appendix 2-5: Historical Trend for Passenger and Cargo Handled at Dar es Salaam Port.....	A-2-7
Appendix 2-6: Historical Trend for Passenger and Freight Dar es Salaam Airport.....	A-2-8
Appendix 2-7: Tanzania Railways: Usable Stock of Transport Equipment.....	A-2-9
Appendix 2-8: TRC-Operating Statistics: 1977 to 1986.	A-2-9
Appendix 2-9: Tanzania-Zambia Railway Operating Statistics .....	A-2-9

## CHAPTER 3: TRAFFIC SURVEY AND ANALYSIS

Appendix 3-1: Traffic Zone.....	A-3-1
Appendix 3-2: Implementation Schedule of Traffic Survey .....	A-3-3
Appendix 3-3: Assignment Schedule and Location by Type of Survey.....	A-3-4
Appendix 3-4: Method of Traffic Count Survey.....	A-3-6
Appendix 3-5: Result of Traffic Count .....	A-3-7
Appendix 3-6: Present Traffic Volume ( ADT ) and Congestion Ratio on Each Survey Station .....	A-3-31
Appendix 3-7: Traffic Capacity Calculation Formula..	A-3-39
Appendix 3-8: Method of O-D Survey.....	A-3-47
Appendix 3-9: Data of Running Speed Survey.....	A-3-51

## CHAPTER 4: FUTURE FRAMEWORK

Appendix 4-1: Existing and Future Population by Word	A-4-1
Appendix 4-2: Existing and Future Industrial Employment by Zone.....	A-4-3
Appendix 4-3: Existing and Future Commercial Employment by Zone.....	A-4-4

## CHAPTER 5: TRAFFIC DEMAND FORECAST

Appendix 5-1: Future O-D Table by Type of Vehicle ...	A-5-1
Appendix 5-2: Present O-D Table by Type of Vehicle...	A-5-9
Appendix 5-3: Future Traffic Desire Line ( Car , Taxi ) .....	A-5-17
Appendix 5-4: Future Traffic Desire line ( Light Goods ) .....	A-5-18
Appendix 5-5: Future Traffic Desire Line ( Medium Goods ) .....	A-5-19
Appendix 5-6: Future Traffic Desire Line ( Heavy Goods ) .....	A-5-20
Appendix 5-7: Traffic Capacity on Alternative Networks .....	A-5-21
Appendix 5-8: Results of Future Traffic Assignment on Alternative Networks.....	A-5-25

## CHAPTER 6: IDENTIFICATION OF ROAD NETWORKS

Appendix 6-1: Existing Classified Roads.....	A-6-1
Appendix 6-2: Present Situation of Roads Proposed in DSM Master Plan.....	A-6-3
Appendix 6-3: Breakdown of Priority Roads Proposed by DCC .....	A-6-4

## CHAPTER 7: ENGINEERING SURVEY AND ANALYSIS

Appendix 7-1-1: Summary of Road Inventory.....	A-7-1
Appendix 7-1-2: Existing Condition of Roadside Drainage .....	A-7-13
Appendix 7-2-1: Method of PSI Survey Conducted .....	A-7-14
Appendix 7-2-2: Rating Items on Pavement Conditions.	A-7-15



Appendix 7-2-3: Rating Form.....A-7-16

Appendix 7-2-4: Result of PSI Survey and Road  
Section by Countermeasures .....A-7-17

Appendix 7-3-1: Sampling Location along the Routes..A-7-26

Appendix 7-3-2: Summary of Subsoil Test Results ....A-7-27

Appendix 7-3-3: Inspection Points of Pavement.....A-7-33

Appendix 7-3-4: Thickness of Pavement Structural Component  
.....A-7-34

Appendix 7-3-5: Location of Quarry Sites near DSM...A-7-37

CHAPTER 8: EXISTING ROAD MAINTENANCE AND OPERATION

Appendix 8-1-1: Location Map of Site Depots.....A-8-1

Appendix 8-1-2: Organization Chart of Road Section...A-8-2

Appendix 8-1-3: Operational Organization Chart and Number  
of Staff in Main Depot.....A-8-3

Appendix 8-2-1: Layout of Proposed Main Depot.....A-8-4

Appendix 8-2-2: List and Condition of Road Maintenance  
Equipment owned by DCC.....A-8-5

Appendix 8-2-3: List of Tipper owned by DCC.....A-8-6

Appendix 8-2-4: Summary of Hand Tools and Layout of  
Site Depots.....A-8-7

Appendix 8-2-5: List of Tools in Main Depot.....A-8-8

CHAPTER 9: IMPROVEMENT OF ROAD MAINTENANCE SYSTEM

Appendix 9-1: Penetration Method for Asphalt Pavement  
.....A-9-1

Appendix 9-2: Requirement for Bitumen Patching.....A-9-2

Appendix 9-3: Requirement for Routine Maintenance....A-9-4

Appendix 9-4: Summary of Main Staffs and Materials...A-9-7

Appendix 9-5: Yearly Expenditure for the Road Main  
Depot.....A-9-8

Appendix 9-6: Equipment for Road Maintenance.....A-9-9

Appendix 9-7: Equipment for Road Main Depot.....A-9-11

Appendix 9-8: Equipment for Road Main Depot.....A-9-12

## CHAPTER 10: IDENTIFICATION OF NECESSARY IMPROVEMENT

Appendix 10-1: Result of PSI Survey.....	A-10-1
Appendix 10-2: Pavement Overlay Design.....	A-10-9
Appendix 10-2-1: Summary of Initial Daily Traffic ( IDT ) .....	A-10-9
Appendix 10-2-2: Average Gross Mass of Heavy Vehicle .....	A-10-10
Appendix 10-2-3: Analysis Chart of Initial Traffic Number .....	A-10-12
Appendix 10-2-4: Adjustment Factor for Design Period .....	A-10-13
Appendix 10-2-5: Summary of Design Traffic Number ( DTN ) .....	A-10-14
Appendix 10-2-6: Thickness Design Chart.....	A-10-16
Appendix 10-2-7: Conversion Factors for Converting Thickness of Existing Pavement Compo- nents to Effective Thickness.....	A-10-17
Appendix 10-2-8: Effective Thickness of Existing Pavement .....	A-10-21
Appendix 10-2-9: Thickness of Overlay.....	A-10-22
Appendix 10-2-10: Preliminary Bridge Design.....	A-10-23
Appendix 10-3: Work Quantity and Preliminary Cost Estimate .....	A-10-25
Appendix 10-3-1: Unit Quantity of Improvement Measures .....	A-10-25
Appendix 10-3-2: Estimated Unit Quantity of Pot-holes .....	A-10-27
Appendix 10-3-3: Unit Rates for Major Work Items..	A-10-28
Appendix 10-3-4: Unit Cost of Each Improvement Measures .....	A-10-30
Appendix 10-3-5: Preliminary Cost of Improvement Measures for Each Road.....	A-10-33

## CHAPTER 11: EVALUATION OF PROJECT ROADS AND

### FORMULATION OF IMPLEMENTATION PROGRAMME

Appendix 11-1: Criteria of Priority Order for Each Road in terms of Socio-Economy.....	A-11-1
Appendix 11-2: Roads Committed by Other Agency / Government.....	A-11-12

CHAPTER 12: PRELIMINARY ENGINEERING DESIGN  
FOR THE HIGH PRIORITY PROJECT

Appendix 12-1: Area Road Traffic Count.....A-12-1  
Appendix 12-2: Intersection Traffic Counting..... A-12-6  
Appendix 12-3: Introduction of Grade Separation....A-12-16  
Appendix 12-4: Location of Sub-soil Sampling.....A-12-18  
Appendix 12-5: Sub-soil Test Results.....A-12-19  
Appendix 12-6: Location of Pavement Structural Survey  
.....A-12-21  
Appendix 12-7: Structural Component of Existing Roads  
.....A-12-22  
Appendix 12-8: Project Length by Improvement Measures  
.....A-12-23  
Appendix 12-9-1: Initial Daily Traffic.....A-12-28  
Appendix 12-9-2: Design Traffic Number (DTN).....A-12-29  
Appendix 12-9-3: Effective Thickness of Existing Pavement  
.....A-12-30  
Appendix 12-9-4: Required Thickness of Overlay.....A-12-31  
Appendix 12-9-5: Required Thickness of Reconstruction  
.....A-12-32

CHAPTER 13: CONSTRUCTION PLAN COST ESTIMATE

Appendix 13-1: General Layout of Construction Facilities  
.....A-13-1  
Appendix 13-2: Detailed Breakdown of Major Work Quantities  
.....A-13-2

CHAPTER 14: ECONOMIC ANALYSIS AND EVALUATION

Appendix 14-1: Characteristics of Representative Vehicle  
.....A-14-1

APPENDIX : SCOPE OF WORK AND MINUTES OF MEETING

Appendix 16-1: Scope of Work.....A-16-1  
Appendix 16-2: Minutes of Work.....A-16-8  
Appendix 16-3: Minutes of Meeting for Inception Report  
.....A-16-12  
Appendix 16-4: Minutes of Meeting for Progress Report  
.....A-16-18  
Appendix 16-5: Minutes of Meeting for Interim Report  
.....A-16-24  
Appendix 16-6: Minutes of Meeting for Draft Final Report  
.....A-16-34

## CHAPTER 2: OUTLINE OF THE STUDY AREA

### LIST OF APPENDICES

- Appendix 2-1: Gross Domestic Product by Kind of Economic Activity at Current Prices
- Appendix 2-2: Gross Domestic Product by Kind of Economic Activity at 1976's Prices
- Appendix 2-3: Structure of GDP
- Appendix 2-4: Existing Condition of Bus Terminal
- Appendix 2-5: Historical Trend for Passenger and Cargo Handled at Dar es Salaam Port
- Appendix 2-6: Historical Trend for Passenger and Freight Dar es Salaam Airport
- Appendix 2-7: Tanzania Railways: Usable Stock Transport Equipment
- Appendix 2-8: TRC-Operating Statistics: 1977 to 1986
- Appendix 2-9: Tanzania-Zambia Railway Operating Statistics



Appendix 2-1: Gross Domestic Product by Kind of Economic Activity at Current Prices

Economic Activity	Shs. Million											
	1976	1977	1978	1979	1980	1981	1982	1983	1984	1985	1986	1987
1. Agriculture, Forestry, Fishing and Hunting	9046	11131	12506	14728	16636	20338	26449	32737	41295	61231	84153	120941
2. Mining and Quarrying	214	243	228	284	329	299	266	249	337	251	474	563
3. Manufacturing	2811	3287	3859	3868	4097	4501	4361	4869	5932	6665	7417	9044
4. Electricity and Water	219	254	261	275	424	423	421	514	551	1071	2096	2259
5. Construction	884	1111	1052	1229	1498	1614	1863	1252	1661	2061	3257	3658
6. Whole sale and retail trade hotels and restaurants	2839	3407	3889	4344	4713	5479	6814	8148	10447	14195	18851	27453
7. Transport and Communication	1685	1793	1917	2113	3019	3133	3395	3507	4789	7021	9863	16794
8. Finance, Insurance, Real Estate and Business services	2036	2419	2686	2978	3744	4507	4891	5252	6028	6659	8127	11062
9. Public Administration and other services	2342	2596	2873	3342	3959	4732	5446	7372	8614	10735	11340	12771
10. Total Industries	22076	26241	29271	33161	38419	45026	53906	63900	79654	109889	145578	204545
11. Imputed bank service charge	-424	-543	-689	-844	-965	-1120	-1360	-1292	-1511	-1806	-2544	-6444
12. Gross Domestic Product at f.c.	21652	25698	28582	32317	37454	43906	52546	62608	78143	108083	143034	198101

Source: Bureau of Statistics

Population (000) 22,455  
GDP per Capita 8,822

Appendix 2-2: Gross Domestic Product by Kind of Economic Activity at 1976's Prices

Economic Activity	Shs. Million												
	1976	1977	1978	1979	1980	1981	1982	1983	1984	1985	1986	1987	1988
1. Agriculture, Forestry, Fishing and Hunting	9046	9150	8998	9066	9418	9511	9639	9914	10312	10931	11557	12066	
2. Mining and Quarrying	214	231	189	200	189	193	193	174	186	174	167	165	
3. Manufacturing	2811	2641	2730	2821	2683	2382	2304	2103	2159	2075	1991	2075	
4. Electricity and Water	220	244	286	318	400	417	420	413	439	461	544	585	
5. Construction	884	915	783	879	932	890	930	549	660	601	752	774	
6. Wholesale and retail trade hotels and restaurants	2839	2782	2797	2839	2839	2725	2668	2612	2640	2662	2953	3086	
7. Transport and Communication	1685	1652	1699	1634	1818	1652	1694	1473	1482	1509	1514	1582	
8. Finance, Insurance, Real Estate and Business services	2036	2089	2208	2338	2483	2529	2702	2817	2984	3046	3283	3362	
9. Public Administration and other services	2342	2497	2997	3255	3188	3551	3556	3543	3549	3616	3283	3309	
10. Total Industries	22077	22201	22687	23350	23950	23850	24106	23598	24411	25075	26044	27004	
11. Imputed bank service charge	-424	-462	-485	-501	-531	-549	-667	-716	-755	-797	-886	-862	
12. Gross Domestic Product at f.c.	21653	21739	22202	22849	23419	23301	23439	22882	23656	24278	25158	26142	

Source: Bureau of Statistics

Population (000) (1) 17512 18003 18507 19025 19558 20106 20669 21248 21843 22455 23174  
 Real GNP per Capita (T.shs/capita) 1295 1297 1294 1254 1233 1174 1181 1180 1192 1202 -

1) Census years are 1978 and 1988. Other years have been estimated using implicit average annual growth rate of 2.8%.

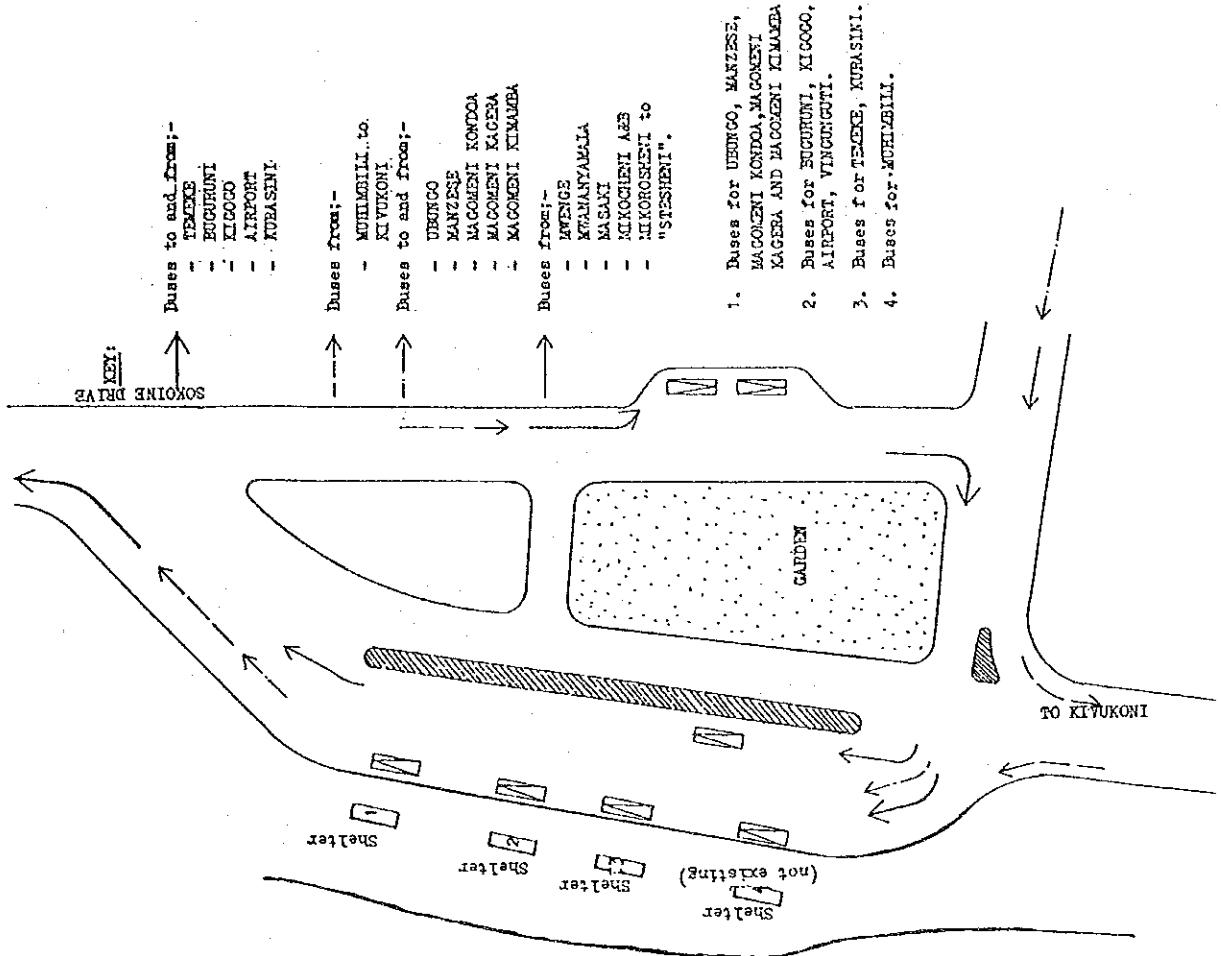


Appendix 2-3: Structure of GDP

Economic Activity	1978	1979	1980	1981	1982	1983	1984	1985	1986	1987
1. Agriculture, Forestry, Fishing and Hunting	42.7	44.4	43.3	45.2	49.1	51.2	51.8	55.7	57.8	59.1
2. Mining and Quassying	0.8	0.9	0.9	0.7	0.5	0.4	0.4	0.2	0.3	0.3
3. Manufacturing	13.2	11.7	10.7	10.0	8.1	7.6	7.4	6.1	5.1	4.4
4. Electricity and Water	0.9	0.8	1.1	0.9	0.8	0.8	0.7	1.0	1.4	1.1
5. Construction	3.6	3.7	3.9	3.6	3.5	2.0	2.1	1.9	2.2	1.8
6. Whole sale and vetail trade hotels and restaurants	13.3	13.1	12.3	12.2	12.6	12.8	13.1	12.9	12.9	13.4
7. Transport and Communication	6.5	6.4	7.9	7.0	6.3	5.5	6.0	6.4	6.8	8.2
8. Finance Insurance Real Estate and Business services	9.2	9.0	9.7	10.0	9.1	8.2	7.6	6.1	5.6	5.4
9. Public Administration and other services	9.8	10.1	10.3	10.5	10.1	11.5	10.8	9.8	7.8	6.2
10 Total Industries	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0



7. POSTA TERMINAL



Buses to and from:-  
 - TEKEKE  
 - EUCURUNI  
 - KIGOGO  
 - AIRPORT  
 - KURASINI

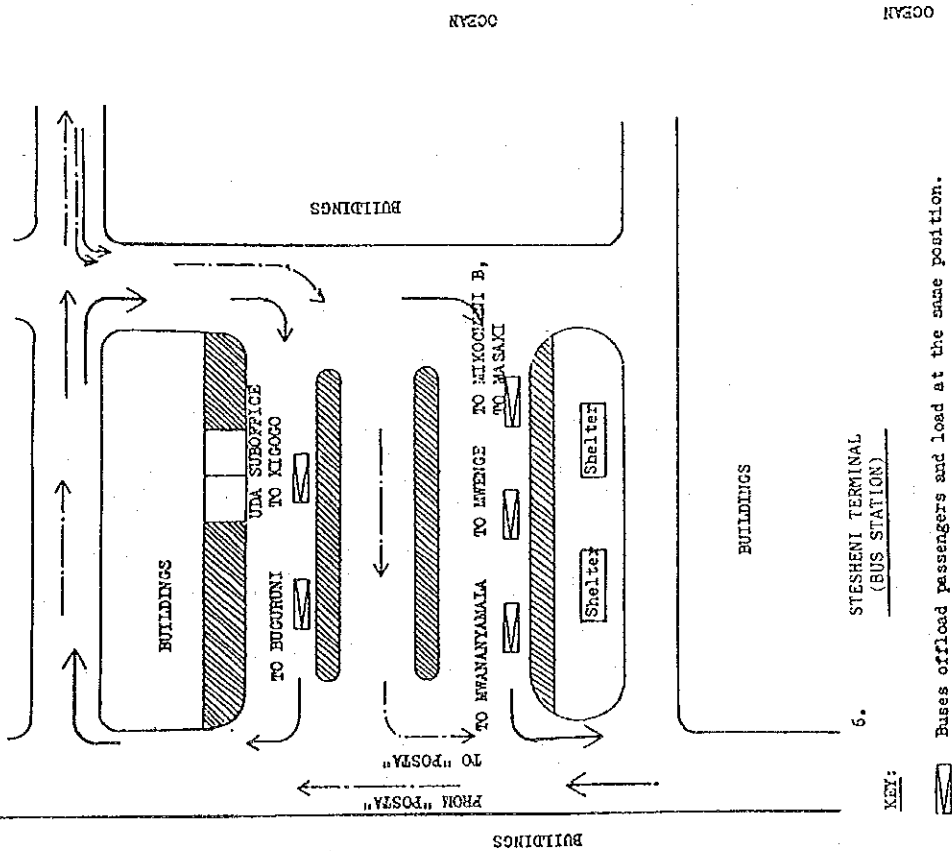
Buses from:-  
 - MUMBIHILI to  
 - KIVUKONI

Buses to and from:-  
 - UENGO  
 - WANZESE  
 - MAGONENI KONDOLA  
 - MAGONENI KACERA  
 - MAGONENI KIMAMBA

Buses from:-  
 - MWENGE  
 - KWANANYAMALA  
 - MASAKI  
 - MIKOCHENI ABE  
 - MIKOCHENI to  
 - "STESHENI".

1. Buses for UENGO, WANZESE, MAGONENI KONDOLA, MAGONENI KACERA AND MAGONENI KIMAMBA
2. Buses for EUCURUNI, KIGOGO, AIRPORT, VINGUGUTI.
3. Buses for TEKEKE, KURASINI.
4. Buses for MUMBIHILI.

6. STESHENI TERMINAL (BUS STATION)



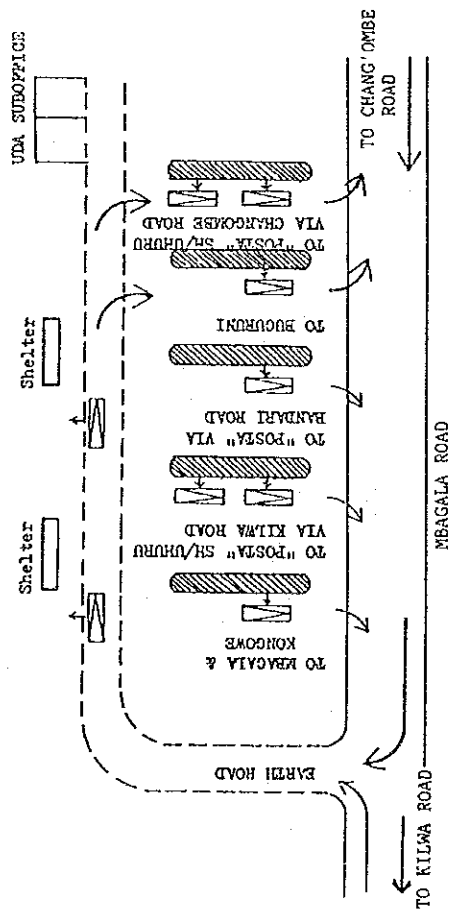
Buses to and from:-  
 - UDA SUBOFFICE TO KIGOGO  
 - TO EUCURUNI

Buses from:-  
 - TO MWANANYAMALA TO MWENGE TO MIKOCHENI B, TO MASAKI

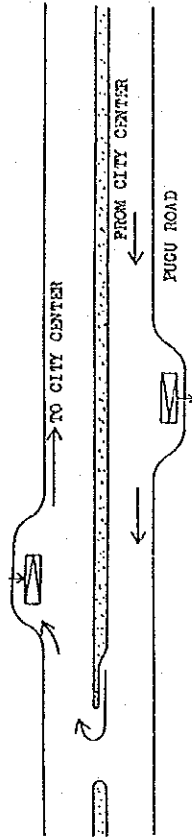
1. Buses offload passengers and load at the same position.
2. For buses to and from MWENGE, MWANANYAMALA, MASAKI AND MIKOCHENI B.
3. For buses to and from EUCURUNI AND KIGOGO.
4. For buses to and from POSTA.

Notes:  
 1. Buses going to the POSTA via Uhuru Road go through the middle bay of the bus station ("Stesheni"). Some passengers a light there.  
 2. UDA SUBOFFICE is used for drivers and conductors changing shifts, and by the inspectors.

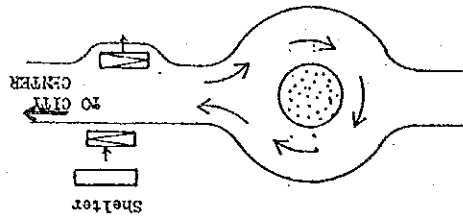
8. TENEKE TERMINAL



9. VINGINGUTI TERMINAL



10. MUHIBILI TERMINAL



Appendix 2-5: Historical Trend for Passenger and Cargo Handled at Dar es Salaam Port

	YEAR.												Annual Increasing rate
	1978	1979	1980	1981	1982	1983	1984	1985	1986	1987			
Total no of ships	957	850	880	807	884	808	995	856	887	846			-1.4%
Total Passengers	28,348	25,598	29,265	67,524	82,693	134,718	56,976	71,784	72,400	79,400			12.1%
Cargo Handled (000-devt)	4,145	3,368	3,760	3,361	3,255	3,155	3,538	3,104	3,547	5,116			2.4%

Appendix 2-6: Historical Trend for Passenger and Freight Dar es Salaam Airport

	1987/1978										Average Annual Increase
	Year										
	1978	1979	1980	1981	1982	1983	1984	1985	1986	1987	
Annual Passenger handled (number)	294,516	402,381	499,122	485,939	519,575	490,767	563,818	529,348	572,257	580,059	7.8%
Annual Freight handled (tonne)	2988.9	3858	4456	4627	4762	5179	5787.9	8966.8	7047.9	5798.0	7.6%
Annual Mail handled (tonne)	505	654.2	759.3	825.8	846.8	1011.1	1050.8	1848.5	1117.0	7916	5.1%

Source: "Transport Statistics 1987" Bureau of Statistics.

Appendix 2-7: Tanzania Railways : Usable Stock of Transport Equipment

Item	1982	1983	1984	1985	1986
Locomotives	137	125	129	133	112
Freight rolling stock	2306	2659	2219	2971	2874

Appendix 2-8: TRC-Operating Statistics: 1977 to 1986

	1977	1978	1979	1980	1981	1982	1983	1984	1985	1986
Passenger (000)	3297	2850	2837	2609	2559	3284	3945	3933	4094	3274
Goods (000t)	-	1054	1093	1126	1166	1061	903	1037	1073	989
Livestock (000)	-	115	106	168	190	176	176	160	155	125

Appendix 2-9: Tanzania-Zambia Railway Operating Statistics

	1978	1979	1980	1981	1982	1983	1984	1985	1986	1987
Locomotives	-	-	114	114	96	105	110	109	95	95
Passenger Rolling stock	-	-	100	100	97	97	97	95	95	95
Freight Rolling stock	-	-	1995	1995	1962	1962	1962	1849	1849	1844
Passenger (000)	1134	1313	1397	1024	987	564	1198	1065	1161	1313
Freight (000)	1273	923	970	752	796	824	973	1098	984	1212
Zambian Export /import	1021 (80%)	664 (72%)	432 (54%)	547 (73%)	580 (73%)	632 (77%)	725 (75%)	775 (70%)	538 (55%)	-





## CHAPTER 3: TRAFFIC SURVEY AND ANALYSIS

### LIST OF APPENDICES

Appendix 3-1: Traffic Zone

Appendix 3-2: Implementation Schedule of Traffic Survey

Appendix 3-3: Assignment Schedule and Location by Type of Survey

Appendix 3-4: Method of Traffic Count Survey

Appendix 3-5: Result of Traffic Count

Appendix 3-6: Present Traffic Volume ( ADT ) and Congestion Ratio on Each Survey Station

Appendix 3-7: Traffic Capacity Calculation Formula

Appendix 3-8: Method of O-D Survey

Appendix 3-9: Data of Running Speed Survey



Appendix 3-1: Traffic Zone

<u>IN Dar es Salaam</u>			
<u>No.</u>	<u>Zone Name</u>	<u>Ward</u>	<u>District</u>
1	City-Centre	Kisutu Mchafukoge	Ilala
2	Kariakoo	Jangwani Kariakoo	Ilala
3	Kivukoni	Kivukoni	Ilala
4	Upanga	Upanga West Upanga East	Ilala
5	Gerezani	Gerezani Mchikichini	Ilala
6	Ilala	Ilala	Ilala
7	Keko	Keko	Temeke
8	Miburani	Miburani	Temeke
9	Kurasini	Kurasini	Temeke
10	Buguruni	Buguruni	Ilala
11	Kigogo	Kigogo	Kinondoni
12	Magomeni	Magomeni Mzimuni Ndugumbi	Kinondoni
13	Kinondoni	Kinondoni	Kinondoni
14	Mwananyamala	Mananyamala	Kinondoni
15	Mburahati	Makarumla	Kinondoni
16	Tandale	Tandale	Kinondoni
17	Manzese	Manzese	Kinondoni
18	Mabibo	Mabibo	Kinondoni
19	Msasani	Msasani	Kinondoni
20	Kawe	Kawe	Kinondoni
21	Ubungo	Ubungo	Kinondoni
22	Tabata	Tabata	Ilala
23	Vingunguti	Vingunguti	Ilala
24	Kipawa	Kipawa	Ilala
25	Ukonga	Ukonga	Ilala
26	Temeke	Temeke	Temeke
27	Mtoni	Mtoni	Temeke
28	Mbagala	Mbagala Yombo vituka Charambe/chamazi	Temeke

## (CONTINUE)

<u>No.</u>	<u>Zone Name</u>	<u>Ward</u>	<u>District</u>
29	Vijimbweni	Vijibweni	
		Kibada	Temeke
		Tuangoma	
30	Kigamboni	Kigamboni	Temeke
31	Kunduchi	Kunduchi	
		Mbuweni	Kinondoni
		Bunju	
32	Kibanda	Kibanda	Kinondoni
		Gobe	
33	Pugu	Pugu	
		Kinyerezi	Ilala
		Msongola	
34	Kisarawe	Kisarawe	
		Somangira	Temeke
		Kimbiji	

Out of Dar es Salaam

<u>No.</u>	<u>ZONE NAMES.</u>	<u>District</u>	<u>Region</u>
35	Bagamoyo	Bagamoyo	Coast
36	Kibaha	Kibaha	Coast
37	Kisarawe	Kisarawe	Coast
38	Rufiji	Rufiji	Coast
39	Mafia Island	Mafia	Coast
40	Zanzibar/Pemba Island	Zanzibar (north, south/ west) Pemba (north, south)	
41	Tanga and Nothern Area	Region: TANGA, ARUSHA KILIMANJARO Country: Kenya	
42	Morogoro and Western Area	Region: Morogoro, Dodoma, Tabora, Iringa, Mbeya, Rukwa, Kigoma Shinyanga, Mara, Mwanza, Kagera Contry: Zambia, Malawi, Mozambique, Zaire Burundi, Rwanda, Uganda.	
43	Lindi and Southern Area	Region: Lindi, Mtwara, Ruvuma.	

Appendix 3-2: Implementation Schedule of Traffic Survey

	May																			
	April									May										
	29	30	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18
Training	32 persons x 1 day									30 persons x 1 day										
0 - D Survey ( 12 points)										( 1 point/day ) ( 1 point x 1 day ) ( 2 points/day ) 15 persons x 1 day 30 persons x 2 days 30 persons x 3 days										
12 hour Traffic Count	( 8 points / day ) 32 persons x 4 days									( 6 points/day ) 4 persons x 1 day ( 1 point/day ) 4 persons x 2 days										
24 hour Traffic Count										( 1 point/day ) 4 persons x 1 day										
1 Week Traffic Count										4 persons x 7 days										
Cording 0 - D Survey Date										7 persons x 3 days 7 persons x 4 days										
Number of Survey Staff	32 persons									38 persons 19 persons 45 persons 4 persons 7 persons 32 persons x 4 days 41 persons 11 persons 41 persons x 3 days										
Number of Police Officers										8 persons x 2 shift x 2 days 2 persons 4 persons 4 persons x 2 shift x 3 days x 2 shift x 3 days										

Appendix 3-3: Assignment Schedule and Location by Type of Survey

Type	Station No.	Location	Period
O-D Survey	1	Ocean Road, between Seaview Hotel and Etiens Hotel.	May 17th
	2	Upanga Road, near junction to Aga Khan Hospital	May 10th
	3	United Nation Road, opposite Tambaza Sec. School	May 11th
	4	Uhuru Street, Opposite Karume Stadium	May 11th
	5	Pugu Road, near junction of Chang'ombe Road	May 12th
	6	Bandari Street, near junction of Bandari and Kilwa Road	May 12th
	7	Morocco Road, near junction to Kagera	May 15th
	8	Morogoro Road, at Mwembe chai	May 15th
	9	Port Access Road, at junction to Tabata-near Automech industry	May 16th
	10	Port Access Road, near junction of Temeke Road opposite petrol station	May 16th
	11	Kilwa Road, opposite Mtoni Pri. School	May 17th
1 Week Traffic count	20	Morogoro Road , near Kajima Corp. Camp	May 9-15th
24hr Traffic count	20	- ditto -	May 12th
12hr Traffic count	1	As 1 above	May 16th
	2	As 2 above	May 3rd
	3	As 3 above	May 4th
	4	As 4 above	May 5th
	5	As 5 above	May 4th
	6	As 6 above	May 5th
	7	As 7 above	May 4th
	8	As 8 above	May 5th
	9	As 9 above	May 5th
	10	As 10 above	May 4th
	11	As 11 above	May 4th
	12	Samora avenue, at Twiga Hotel	May 9th
	13	Ohio Street, adjacent Ministry of Home Affairs head quaters	May 9th
	14	Maktaba Street, at General Post Office	May 9th
	15	Samora Avenue, adjacent to National Museum	May 2nd
	16	Morogoro Road, opposite National Bank of Commerce	May 3rd
	17	U.W.T Street, opposite Anatoglou Hall	May 4th
	18	Sokoine Drive, opposite Nasaco Office	May 5th

## (CONTINUE)

Type	Station No.	Location	Period
12hr Traffic count	19	Uhuru Street, Midway between Msimbazi and Lumumba street	May 9th
	20	As 20 above	May 9th
	21	Msimbazi Street, near the junction with Swahili Street	May 5th
	22	Gerezani Street near by Traffic lights	May 9th
	23	Bagamoyo Road, near the junction with Kaunda Drive	May 4th
	24	Haileselassie Road, behind Oysterbay Primary School	May 3rd
	25	Old Bagamoyo Road, in front of Drive In Cinema	May 2nd
	26	Kinondoni Road, near Kinondoni Sec. School	May 3rd
	27	Mwinjuma Road, near Jambos Bar	May 5th
	28	Bagamoyo Road, at Makumbusho bus Stop	May 5th
	29	Toure Drive, near the junction with Karume Road	May 3rd
	30	Shekilango Road, near the junction with Morogoro Road	May 2nd
	31	Mpakani Road, between the junction with University road	2nd
	32	C-1 Road, near the Transport Institute.	May 4nd
	33	Old Kigogo Road, in front of Kigogo CCM Office	May 3rd
	34	Pugu Road, at Vingunguti Bus Stop	May 2nd
	35	Chang'ombe Road, near N.H.C. flats and junction with Migeyo-Mbozi Road	May 3rd
	36	Chang'ombe Road, at Mduka mawili Bus Stop	May 3rd
	37	Mbagala Road, near Temeke Bus Terminal	May 2nd
38	Port Access Road, at Shimo la Udongo demolished Area	May 2nd	
39	New Kigogo Road, opposite Msimbazi Primary School	May 17th	

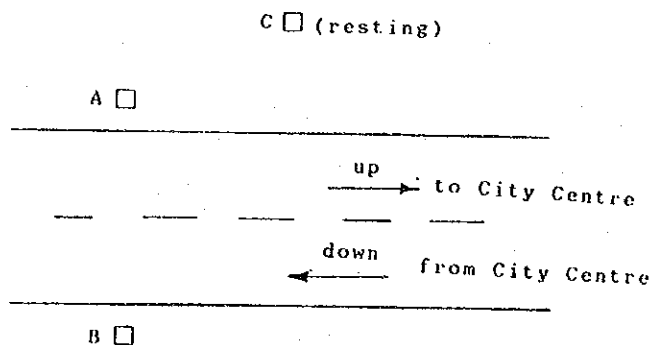
Appendix 3-4: Method of Traffic Count Survey

(1) Arrangement of Traffic Survey Staffs at a Traffic Count Survey Station

One party consists of three members of staff. Two of them are engaged in the counting and one of these is a relief.

Traffic Count Staffs

(1 group/3 people)



(2) Procedure for Traffic Count Survey:

- 1) Traffic Count Starts at 6.00 in the morning
- 2) Person A and B count for an hour while person C starts to rest
- 3) After an hour person relieves person A who then takes a rest while C and B are counting.
- 4) After that hour person B takes a rest for an hour while A and C are counting.
- 5) Procedure repeats.

N.B. Resting is taken inturn for an hour and counting is maintained by two persons for any time, one at each direction

- 6) Traffic count ends at 18.00hrs in the evening.

Time	6:00	7:00	8:00	9:00	10:00	11:00	12:00	13:00	14:00	15:00	16:00	17:00
	to	to	to	to	to	to	to	to	to	to	to	to
person	7:00	8:00	9:00	10:00	11:00	12:00	13:00	14:00	15:00	16:00	17:00	18:00
A	<u>up</u>		<u>down</u>	<u>down</u>		<u>up</u>	<u>up</u>		<u>down</u>	<u>down</u>		<u>up</u>
B	<u>down</u>	<u>down</u>		<u>up</u>	<u>up</u>		<u>down</u>	<u>down</u>		<u>up</u>	<u>up</u>	
C		<u>up</u>	<u>up</u>		<u>down</u>	<u>down</u>		<u>up</u>	<u>up</u>		<u>down</u>	<u>down</u>



Appendix 3-5: Result of Traffic Count  
 (1) 12hr Traffic Count

( 1/20 )

TRAFFIC COUNT SURVEY SHEET

Date: 16/5/1989

NO. \_\_\_\_\_

Date	Station NO	Road/Intersection	Direction	Start Time	End Time	Surveyor	Inspector	Sheet NO						
16/5	1	Ocean Road	Up	6:00	18:00									
TUE														
Type of Vehicle	6	7	8	9	10	11	12	1	2	3	4	5	6	Total
1.Car, Taxi	107	772	697	345	168	189	187	252	291	182	186	351		3727
2.Light Goods Vehicle	29	172	207	100	96	105	85	103	132	86	71	189		1380
3.Medium Goods Vehicle	2	6	10	8	5	6	1	1	5	4	4	3		55
4.Heavy Goods Vehicle	0	7	2	2	8	4	4	5	5	1	4	3		45
5.Bus	1	20	18	9	13	14	16	4	19	18	7	20		159
Total NO.	139	977	934	464	290	318	293	370	452	291	272	566		5366
Total NO. of pcu	143	1037	984	494	337	360	334	389	505	333	298	615		5829

TRAFFIC COUNT SURVEY SHEET

Date: 16/5/1989

NO. \_\_\_\_\_

Date	Station NO	Road/Intersection	Direction	Start Time	End Time	Surveyor	Inspector	Sheet NO						
16/5	1	Ocean Road	Down	6:00	18:00									
TUE														
Type of Vehicle	6	7	8	9	10	11	12	1	2	3	4	5	6	Total
1.Car, Taxi	45	156	127	265	263	281	423	265	416	412	402	227		3282
2.Light Goods Vehicle	15	64	71	59	70	92	148	84	96	130	129	41		999
3.Medium Goods Vehicle	1	3	5	4	7	4	9	4	11	8	5	2		63
4.Heavy Goods Vehicle	1	0	0	5	8	5	3	7	5	4	4	2		44
5.Bus	3	7	17	8	3	7	7	4	5	14	11	1		87
Total NO.	65	230	220	341	351	389	590	364	533	568	551	273		4475
Total NO. of pcu	74	249	259	371	380	417	619	388	564	612	586	281		4800

TRAFFIC COUNT SURVEY SHEET

Date: 4/5/1989

NO. \_\_\_\_\_

Date	Station NO	Road/Intersection	Direction	Start Time	End Time	Surveyor	Inspector	Sheet NO						
4/5	2	Upanga Road	Up	6:25AM	18:00									
THU														
Type of Vehicle	6	7	8	9	10	11	12	1	2	3	4	5	6	Total
1.Car, Taxi	119	351	393	358	283	303	307	402	360	432	464	298		4070
2.Light Goods Vehicle	86	223	119	174	133	134	121	120	197	141	227	86		1761
3.Medium Goods Vehicle	3	17	16	20	15	16	24	33	18	19	30	11		222
4.Heavy Goods Vehicle		2	2	6	5		1	9				1		26
5.Bus	27	42	28	27	38	19	22	47	36	33	30	36		384
Total NO.	235	635	558	585	474	472	475	611	611	624	751	432		6463
Total NO. of pcu	292	740	634	671	575	526	545	756	701	707	841	517		7505

TRAFFIC COUNT SURVEY SHEET

Date: 4/5/1989

NO. \_\_\_\_\_

Date	Station NO	Road/Intersection	Direction	Start Time	End Time	Surveyor	Inspector	Sheet NO						
4/5	2	Upanga Road	Down	6:25AM	18:00									
THU														
Type of Vehicle	6	7	8	9	10	11	12	1	2	3	4	5	6	Total
1.Car, Taxi	201	308	268	335	413	307	486	379	413	398	303	533		4344
2.Light Goods Vehicle	48	123	61	100	116	123	157	15	114	134	118	259		1504
3.Medium Goods Vehicle	3	17	19	134	21	16	22	24	17	17	13	27		330
4.Heavy Goods Vehicle		2			2	3	5	3	3	1	1			20
5.Bus	35	54	41	18	34	29	47	40	32	41	39	37		447
Total NO.	287	504	389	587	586	478	717	597	579	591	474	856		6645
Total NO. of pcu	360	633	490	753	679	558	843	707	666	692	567	957		7905

TRAFFIC COUNT SURVEY SHEET

No. \_\_\_\_\_

( 2/20 )

Date	Station No.	Road/Intersection	Direction										Start time	End time	Surveyor	Inspector	Sheet No.
4/5/89	3	United Nation	Up										6.25 AM	6.00 PM			
THU		Road															
Type of vehicle		6	7	8	9	10	11	12	1	2	3	4	5	6	7	Total	
1. Car, Taxi		96	460	180	146	122	160	194	209	171	162	175	223			2298	
2. Light goods vehicle		54	174	73	104	108	81	87	95	117	99	86	77			1155	
3. Medium goods vehicle		4	4	11	14	16	12	12	8	12	9	9	10			121	
4. Heavy goods vehicle					1		0	3	1	0	0	0	0			5	
5. Bus		6	32	13	9	2	4	13	18	12	11	8	10			138	
Total No.		160	670	277	274	248	257	309	331	312	281	278	320			3117	
Total No. of pcu		176	738	314	308	268	277	353	377	348	312	303	350			4124	

TRAFFIC COUNT SURVEY SHEET

No. \_\_\_\_\_

Date	Station No.	Road/Intersection	Direction										Start time	End time	Surveyor	Inspector	Sheet No.
4/5/89	3	United Nation	Down										6.25 AM	6.00 PM			
THU		Road															
Type of vehicle		6	7	8	9	10	11	12	1	2	3	4	5	6	7	Total	
1. Car, Taxi		125	244	271	101	94	158	196	187	195	218	199	280			2268	
2. Light goods vehicle		42	92	104	60	62	66	84	85	104	103	87	124			993	
3. Medium goods vehicle			3	10	4	10	4	8	11	14		10	13			87	
4. Heavy goods vehicle		1	0	0	0	0	0	0	1	2	2	0	1			7	
5. Bus		20	18	7	11	11	10	16	17	24	25	19	23			202	
Total No.		168	357	392	176	176	238	284	301	339	349	315	441			3557	
Total No. of pcu		230	396	416	202	209	262	324	348	405	405	363	502			4062	

TRAFFIC COUNT SURVEY SHEET

No. \_\_\_\_\_

Date	Station No.	Road/Intersection	Direction										Start time	End time	Surveyor	Inspector	Sheet No.
5/5/89	4	Umuru Street	Up										6.00AM	6.00PM			
FRI		Ilala Zone															
Type of vehicle		6	7	8	9	10	11	12	1	2	3	4	5	6	7	Total	
1. Car, Taxi		142	378	308	291	262	291	268	311	347	314	286	204			3402	
2. Light goods vehicle		88	185	176	191	157	154	152	176	208	207	142	123			1959	
3. Medium goods vehicle		17	83	39	40	32	25	25	54	57	49	33	20			474	
4. Heavy goods vehicle		5	10	5	9	10	10	3	9	15	10	7	5			98	
5. Bus		98	134	86	8	69	81	81	86	76	87	100	82			968	
Total No.		350	790	614	539	530	561	529	636	703	667	568	434			6921	
Total No. of pcu		573	1161	835	613	720	768	722	880	942	910	815	628			9567	

TRAFFIC COUNT SURVEY SHEET

No. \_\_\_\_\_

Date	Station No.	Road/Intersection	Direction										Start time	End time	Surveyor	Inspector	Sheet No.
5/5/89	4	Umuru Street	Down										6.00 AM	6.00 PM			
FRI		Ilala Zone															
Type of vehicle		6	7	8	9	10	11	12	1	2	3	4	5	6	7	Total	
1. Car, Taxi		99	237	350	293	339	380	373	343	383	324	314	342			3783	
2. Light goods vehicle		72	132	210	165	205	248	216	220	210	214	218	237			2347	
3. Medium goods vehicle		13	24	72	28	53	58	32	38	54	44	47	49			512	
4. Heavy goods vehicle		4	3	11	18	7	12	9	8	8	9	12	21			122	
5. Bus		88	123	89	67	91	83	84	93	96	95	103	113			1125	
Total No.		276	519	732	577	695	781	714	702	751	686	694	762			7889	
Total No. of pcu		473	795	1004	775	944	1029	932	944	1013	938	971	1079			10897	

TRAFFIC COUNT SURVEY SHEET

No. \_\_\_\_\_

Date	Station No.	Road/Intersection	Direction												Start time	End time	Surveyor	Inspector	Sheet No.
4/5/89	5	Pugu Road Keko/ Chang'ombe Zone	Up												6.00 AM	6.00 PM			
THU			6	7	8	9	10	11	12	1	2	3	4	5	6				
Type of vehicle			-7	-8	-9	-10	-11	-12	-1	-2	-3	-4	-5	-6	-7	Total			
1. Car, Taxi			210	437	554	517	579	685	659	486	591	850	801	595		6964			
2. Light goods vehicle			90	532	495	315	407	435	353	454	520	475	360	292		4728			
3. Medium goods vehicle			20	32	104	55	55	79	68	119	128	67	61	42		830			
4. Heavy goods vehicle			2	17	19	15	11	7	15	20	11	20	14	22		173			
5. Bus			106	117	67	95	98	121	62	59	75	108	109	120		1137			
Total No.			428	1135	1239	997	1150	1327	1157	1138	1325	1520	1345	1071		13832			
Total No. of pcu			664	1435	1515	1272	1423	1662	1379	1415	1625	1843	1652	1397		17282			

( 3/20 )

TRAFFIC COUNT SURVEY SHEET

No. \_\_\_\_\_

Date	Station No.	Road/Intersection	Direction												Start time	End time	Surveyor	Inspector	Sheet No.
4/5/89	5	Pugu Road Keko/ Chang'ombe Zone	Down												6.00 AM	6.00 PM			
THU			6	7	8	9	10	11	12	1	2	3	4	5	6				
Type of vehicle			-7	-8	-9	-10	-11	-12	-1	-2	-3	-4	-5	-6	-7	Total			
1. Car, Taxi			131	592	635	521	439	538	620	760	684	655	674	509		6758			
2. Light goods vehicle			67	291	354	282	452	495	398	423	400	381	394	328		4265			
3. Medium goods vehicle			15	22	59	44	120	74	81	62	89	66	68	42		749			
4. Heavy goods vehicle			1	15	8	7	13	19	13	13	8	15	18	25		145			
5. Bus			82	118	108	84	50	53	100	98	105	93	69	87		1047			
Total No.			296	1035	1164	938	1074	1179	1212	1356	1266	1210	1223	991		12964			
Total No. of pcu			477	1310	1455	1164	1320	1397	1519	1640	1601	1492	1465	1257		16097			

TRAFFIC COUNT SURVEY SHEET

No. \_\_\_\_\_

Date	Station No.	Road/Intersection	Direction												Start time	End time	Surveyor	Inspector	Sheet No.
4/5/89	6	Bandari Street	Up												6.00	6.00			
FRI			6	7	8	9	10	11	12	1	2	3	4	5	6				
Type of vehicle			-7	-8	-9	-10	-11	-12	-1	-2	-3	-4	-5	-6	-7	Total			
1. Car, Taxi			135	328	315	274	275	277	277	252	275	284	257	284		3233			
2. Light goods vehicle			53	122	130	113	137	129	111	127	128	114	120	101		1385			
3. Medium goods vehicle			25	52	48	44	55	59	49	50	66	40	57	33		578			
4. Heavy goods vehicle			2	10	8	11	5	13	13	7	9	14	13	11		116			
5. Bus			49	63	35	31	23	32	27	40	33	32	39	40		444			
Total No.			264	575	536	473	495	510	477	476	511	484	466	469		5756			
Total No. of pcu			391	773	670	601	606	659	606	620	661	616	647	604		7454			

TRAFFIC COUNT SURVEY SHEET

No. \_\_\_\_\_

Date	Station No.	Road/Intersection	Direction												Start time	End time	Surveyor	Inspector	Sheet No.
4/5/89	6	Bandari Street	Down												6.00	18.00			
FRI			6	7	8	9	10	11	12	1	2	3	4	5	6				
Type of vehicle			-7	-8	-9	-10	-11	-12	-1	-2	-3	-4	-5	-6	-7	Total			
1. Car, Taxi			60	256	290	290	252	276	310	247	294	298	295	273		3141			
2. Light goods vehicle			28	75	123	149	148	125	122	110	134	116	119	110		1359			
3. Medium goods vehicle			24	35	68	65	66	65	61	53	55	59	44	36		631			
4. Heavy goods vehicle			5	3	17	15	6	6	9	13	9	11	10	7		111			
5. Bus			45	42	45	23	42	34	28	36	33	33	34	39		435			
Total No.			162	411	544	542	514	506	530	459	525	517	502	465		5677			
Total No. of pcu			286	536	738	683	676	651	665	610	664	654	634	593		7400			

TRAFFIC COUNT SURVEY SHEET

No. \_\_\_\_\_

Date	Station No.	Road/Intersection	Direction								Start time	End time	Surveyor	Inspector	Sheet No.
4/5/89	7	Morocco Road	Up								6.00 AM	18.00 PM			
THU															
Type of vehicle	6	7	8	9	10	11	12	1	2	3	4	5	6	Total	
	-7	-8	-9	-10	-11	-12	-1	-2	-3	-4	-5	-6	-7		
1. Car, Taxi	138	207	187	200	218	191	190	245	244	200	192	262		2474	
2. Light goods vehicle	56	95	137	33	32	47	57	56	45	88	55	69		770	
3. Medium goods vehicle	14	47	21	33	25	28	14	25	39	24	22	38		330	
4. Heavy goods vehicle	1	4	7	5	8	2	3	2	1	2	-	5		40	
5. Bus	26	22	18	7	7	23	9	9	18	24	23	25		211	
Total No.	235	375	370	278	290	291	273	337	347	338	292	399		3925	
Total No. of pcu	303	474	441	335	345	359	311	384	424	414	360	497		4527	

( 4/20 )

TRAFFIC COUNT SURVEY SHEET

No. \_\_\_\_\_

Date	Station No.	Road/Intersection	Direction								Start time	End time	Surveyor	Inspector	Sheet No.
4/5/89	7	Morocco Road	Down								6.00 AM	18.00 PM			
THU															
Type of vehicle	6	7	8	9	10	11	12	1	2	3	4	5	6	Total	
	-7	-8	-9	-10	-11	-12	-1	-2	-3	-4	-5	-6	-7		
1. Car, Taxi	185	294	175	143	114	227	171	167	239	256	353	251		2575	
2. Light goods vehicle	37	48	51	38	75	38	77	88	56	66	58	77		709	
3. Medium goods vehicle	12	37	13	13	21	25	17	20	30	50	46	34		318	
4. Heavy goods vehicle	1	3	2	5	6	1	2	1	5	6	6	7		45	
5. Bus	22	70	10	12	11	9	23	16	20	17	19	27		256	
Total No.	257	452	251	211	227	300	290	292	350	395	482	396		3903	
Total No. of pcu	315	635	268	258	282	345	357	346	430	491	578	498		4823	

TRAFFIC COUNT SURVEY SHEET

No. \_\_\_\_\_

Date	Station No.	Road/Intersection	Direction								Start time	End time	Surveyor	Inspector	Sheet No.
5/5/89	8	Morogoro Road	Up								6.00 AM	18.00 PM			
FRI															
Type of vehicle	6	7	8	9	10	11	12	1	2	3	4	5	6	Total	
	-7	-8	-9	-10	-11	-12	-1	-2	-3	-4	-5	-6	-7		
1. Car, Taxi	167	314	263	208	246	248	252	238	235	238	285	308		3002	
2. Light goods vehicle	90	149	140	164	129	154	140	153	135	157	147	108		1666	
3. Medium goods vehicle	29	60	63	35	27	45	45	41	23	27	27	56		497	
4. Heavy goods vehicle	9	10	10	9	3	3	6	1	3	-	3	7		64	
5. Bus	142	140	102	104	99	119	89	95	117	118	122	104		1351	
Total No.	437	673	578	520	504	570	532	532	531	536	584	583		6580	
Total No. of pcu	768	1033	865	781	735	860	767	769	812	795	861	861		9907	

TRAFFIC COUNT SURVEY SHEET

No. \_\_\_\_\_

Date	Station No.	Road/Intersection	Direction								Start time	End time	Surveyor	Inspector	Sheet No.
5/5/89	8	Morogoro Road	Down								6.00 AM	18.00 PM			
FRI															
Type of vehicle	6	7	8	9	10	11	12	1	2	3	4	5	6	Total	
	-7	-8	-9	-10	-11	-12	-1	-2	-3	-4	-5	-6	-7		
1. Car, Taxi	140	190	245	207	199	244	263	224	259	315	326	346		2958	
2. Light goods vehicle	94	121	115	120	153	153	189	149	134	149	133	163		1673	
3. Medium goods vehicle	25	28	40	32	38	44	20	19	49	63	50	63		471	
4. Heavy goods vehicle	2	7	3	3	6	3	5	5	12	9	6	5		66	
5. Bus	147	129	101	92	98	98	92	127	101	123	130	114		1352	
Total No.	408	475	504	454	494	542	589	524	555	659	643	691		6520	
Total No. of pcu	731	775	752	676	740	788	783	807	830	966	967	992		9827	

TRAFFIC COUNT SURVEY SHEET

No. \_\_\_\_\_

Date	Station No.	Road/Intersection	Direction												Start time	End time	Surveyor	Inspector	Sheet No.
5/5/89	9	Port Access Road	Up												6.00 AM	18.00PM			
FRI																			
Type of vehicle			6	7	8	9	10	11	12	1	2	3	4	5	6	Total			
1. Car, Taxi			104	480	217	150	103	117	98	115	95	137	151	119	1066				
2. Light goods vehicle			110	301	174	114	134	128	122	102	127	108	125	120	1655				
3. Medium goods vehicle			46	85	67	79	85	52	51	71	86	65	80	34	801				
4. Heavy goods vehicle			18	20	21	35	23	22	30	9	15	16	19	20	248				
5. Bus			46	66	31	22	26	22	15	25	17	32	44	21	367				
Total No.			324	952	510	380	371	341	316	322	340	358	419	314	4947				
Total No. of pcu			498	1209	681	573	554	481	457	461	490	519	625	430	6978				

( 5/20 )

TRAFFIC COUNT SURVEY SHEET

No. \_\_\_\_\_

Date	Station No.	Road/Intersection	Direction												Start time	End time	Surveyor	Inspector	Sheet No.
5.5.89	9	Port Access Road	Down												6.00 AM	18.00 PM			
FRI																			
Type of vehicle			6	7	8	9	10	11	12	1	2	3	4	5	6	Total			
1. Car, Taxi			105	137	93	105	100	111	127	113	127	168	218	185	1589				
2. Light goods vehicle			85	112	91	100	107	117	134	130	188	219	199	149	1631				
3. Medium goods vehicle			42	45	47	65	66	77	87	85	72	73	93	65	817				
4. Heavy goods vehicle			2	6	16	15	17	19	14	22	27	36	28	16	218				
5. Bus			37	22	24	22	19	26	12	20	23	29	50	47	331				
Total No.			271	322	271	307	309	350	374	370	437	525	588	462	4586				
Total No. of pcu			391	423	398	446	447	517	513	539	609	728	837	653	6501				

TRAFFIC COUNT SURVEY SHEET

No. \_\_\_\_\_

Date	Station No.	Road/Intersection	Direction												Start time	End time	Surveyor	Inspector	Sheet No.
4.5.89	10	Port Access Road	Up												6.00 AM	18.00 PM			
THU																			
Type of vehicle			6	7	8	9	10	11	12	1	2	3	4	5	6	Total			
1. Car, Taxi			54	118	105	80	108	95	114	109	117	125	114	143	1282				
2. Light goods vehicle			25	58	61	58	66	68	81	69	77	92	73	80	808				
3. Medium goods vehicle			10	27	37	53	42	53	61	67	50	65	71	71	607				
4. Heavy goods vehicle			3	1	10	12	16	40	25	21	17	37	35	27	244				
5. Bus			14	21	24	6	17	21	14	14	22	18	24	26	221				
Total No.			106	225	237	209	249	277	295	280	283	337	317	347	3162				
Total No. of pcu			150	296	342	298	357	452	434	417	411	512	506	524	4699				

TRAFFIC COUNT SURVEY SHEET

No. \_\_\_\_\_

Date	Station No.	Road/Intersection	Direction												Start time	End time	Surveyor	Inspector	Sheet No.
4.5.89	10	Port Access Road	Down												6.00 AM	18.00 PM			
THU																			
Type of vehicle			6	7	8	9	10	11	12	1	2	3	4	5	6	Total			
1. Car, Taxi			40	107	125	80	87	111	118	90	98	123	127	116	1228				
2. Light goods vehicle			22	66	66	78	50	82	80	66	73	76	57	68	784				
3. Medium goods vehicle			14	56	63	44	34	52	79	52	58	76	48	33	609				
4. Heavy goods vehicle			8	15	32	31	14	19	39	15	15	22	11	6	227				
5. Bus			17	27	16	18	14	14	11	15	21	19	12	20	204				
Total No.			101	271	302	251	199	278	327	238	265	322	255	243	3052				
Total No. of pcu			165	411	461	393	289	396	506	350	395	480	346	328	4523				

TRAFFIC COURT SURVEY SHEET

No. \_\_\_\_\_

Date	Station No.	Road/Intersection	Direction								Start time	End time	Surveyor	Inspector	Sheet No.	
4.5.89	11	Kilwa Road	Up								6.00 AM	10.00 PM				
THU																
Type of vehicle			6	7	8	9	10	11	12	1	2	3	4	5	6	Total
			-7	-8	-9	-10	-11	-12	-1	-2	-3	-4	-5	-6	-7	
1. Car, Taxi			67	113	42	38	28	35	35	47	36	48	75	81		645
2. Light goods vehicle			43	78	37	30	28	39	39	47	41	40	45	61		528
3. Medium goods vehicle			30	48	16	27	23	22	37	40	40	37	56	53		429
4. Heavy goods vehicle			5	3	3	11	3	7	6	5	7	6	4	8		68
5. Bus			34	30	13	16	11	11	10	16	11	18	29	53		232
Total No.			179	272	111	122	93	114	127	155	135	149	209	236		1902
Total No. of pcu			289	386	159	203	144	172	196	237	211	234	331	371		2931

( 6/20 )

TRAFFIC COURT SURVEY SHEET

No. \_\_\_\_\_

Date	Station No.	Road/Intersection	Direction								Start time	End time	Surveyor	Inspector	Sheet No.	
4.5.89	11	Mtoni-Kilwa Road	Down								6.00 AM	10.00 PM				
THU																
Type of vehicle			6	7	8	9	10	11	12	1	2	3	4	5	6	Total
			-7	-8	-9	-10	-11	-12	-1	-2	-3	-4	-5	-6	-7	
1. Car, Taxi			25	40	29	38	30	39	40	52	46	75	67	102		583
2. Light goods vehicle			39	46	45	31	36	44	53	33	36	36	61	101		581
3. Medium goods vehicle			24	19	28	26	18	30	45	41	41	50	57	46		425
4. Heavy goods vehicle			4	6	6	5	10	2	9	3	11	7	2	26		91
5. Bus			35	17	14	16	11	16	10	14	15	19	39	33		239
Total No.			127	128	122	116	105	131	157	143	149	207	226	308		1919
Total No. of pcu			229	193	190	184	165	197	240	218	242	309	375	472		3004

TRAFFIC COURT SURVEY SHEET

No. \_\_\_\_\_

Date	Station No.	Road/Intersection	Direction								Start time	End time	Surveyor	Inspector	Sheet No.	
9.5.89	12	Along Samora	Up								6.00 AM	10.00 PM				
TUE		Avenue														
Type of vehicle			6	7	8	9	10	11	12	1	2	3	4	5	6	Total
			-7	-8	-9	-10	-11	-12	-1	-2	-3	-4	-5	-6	-7	
1. Car, Taxi			20	200	109	190	165	130	133	117	185	220	106	81		1656
2. Light goods vehicle			3	19	4	12	14	10	11	7	13	10	5	1		109
3. Medium goods vehicle			1	2	2	4	4	6	3	3	-	5	0	2		32
4. Heavy goods vehicle			1	-	-	-	-	-	-	-	-	-	0	1		2
5. Bus			1	4	-	-	1	-	-	2	-	5	5	1		19
Total No.			26	225	115	206	184	146	147	129	198	240	116	86		1818
Total No. of pcu			31	235	117	210	190	152	150	136	198	255	126	92		1892

TRAFFIC COURT SURVEY SHEET

No. \_\_\_\_\_

Date	Station No.	Road/Intersection	Direction								Start time	End time	Surveyor	Inspector	Sheet No.	
9.5.89	12	Samora Avenue	Down								6.00 AM	10.00 PM				
TUE																
Type of vehicle			6	7	8	9	10	11	12	1	2	3	4	5	6	Total
			-7	-8	-9	-10	-11	-12	-1	-2	-3	-4	-5	-6	-7	
1. Car, Taxi			17	163	180	142	169	97	222	206	171	210	242	118		1937
2. Light goods vehicle			1	2	12	2	11	6	13	11	3	3	6	-		70
3. Medium goods vehicle			1	-	4	3	1	1	6	4	3	3	2	2		30
4. Heavy goods vehicle			-	-	-	1	-	1	-	-	-	-	0	-		2
5. Bus			1	2	2	1	1	3	-	1	-	1	2	6		20
Total No.			20	167	199	149	182	108	241	222	177	217	252	126		2059
Total No. of pcu			23	171	206	156	185	117	247	228	180	222	258	140		2133

TRAFFIC COUNT SURVEY SHEET

No. \_\_\_\_\_

( 7/20 )

Date	Station No.	Road/Intersection	Direction									Start time	End time	Surveyor	Inspector	Sheet No.
9.5.89	13	Ohio	Up									6.00 AM	18.00 PM			
TUE																
Type of vehicle	6	7	8	9	10	11	12	1	2	3	4	5	6	7	Total	
	-7	-8	-9	-10	-11	-12	-1	-2	-3	-4	-5	-6	-7			
1. Car, Taxi	47	318	383	362	318	397	318	285	355	248	226	164			3421	
2. Light goods vehicle	22	130	146	121	150	97	88	97	99	83	59	58			1130	
3. Medium goods vehicle	1	11	23	17	11	31	16	12	9	5	12	8			156	
4. Heavy goods vehicle	0	-	4	-	-	3	0	-	1	2	0	0			10	
5. Bus	19	56	33	41	42	37	32	36	27	25	37	27			412	
Total No.	89	515	589	541	501	565	454	430	491	363	334	257			5129	
Total No. of pcu	128	638	686	640	596	676	534	514	556	422	420	319			6129	

TRAFFIC COUNT SURVEY SHEET

No. \_\_\_\_\_

Date	Station No.	Road/Intersection	Direction									Start time	End time	Surveyor	Inspector	Sheet No.
9.5.89	13	Ohio	Down									6.00 AM	18.00 PM			
TUE																
Type of vehicle	6	7	8	9	10	11	12	1	2	3	4	5	6	7	Total	
	-7	-8	-9	-10	-11	-12	-1	-2	-3	-4	-5	-6	-7			
1. Car, Taxi	33	196	327	341	352	411	346	255	305	266	238	169			3239	
2. Light goods vehicle	14	64	100	122	101	130	117	76	95	81	70	52			1022	
3. Medium goods vehicle	2	2	22	20	14	22	15	7	15	15	14	3			151	
4. Heavy goods vehicle	-	2	0	5	-	2	2	1	1	0	2	2			17	
5. Bus	20	28	41	36	38	41	34	30	31	40	36	27			402	
Total No.	69	292	490	524	505	606	514	369	447	402	360	253			4831	
Total No. of pcu	111	354	534	626	595	714	601	438	526	497	450	314			5820	

TRAFFIC COUNT SURVEY SHEET

No. \_\_\_\_\_

Date	Station No.	Road/Intersection	Direction									Start time	End time	Surveyor	Inspector	Sheet No.
9.5.89	14	Maktaba Street	Up									6.00 AM	18.00 PM			
TUE		City Centre Zone														
Type of vehicle	6	7	8	9	10	11	12	1	2	3	4	5	6	7	Total	
	-7	-8	-9	-10	-11	-12	-1	-2	-3	-4	-5	-6	-7			
1. Car, Taxi	75	379	447	355	383	335	266	227	278	313	262	215			3535	
2. Light goods vehicle	44	162	194	133	134	142	123	142	160	111	88	69			1502	
3. Medium goods vehicle	3	13	9	11	5	12	13	7	13	8	4	8			106	
4. Heavy goods vehicle	1	1	2	0	2	4	1	2	2	0	3	2			18	
5. Bus	43	75	102	72	81	58	61	64	94	68	81	43			842	
Total No.	166	630	754	571	605	548	464	443	547	500	438	337			6003	
Total No. of pcu	257	795	971	726	776	678	601	584	754	644	610	435			7829	

TRAFFIC COUNT SURVEY SHEET

No. \_\_\_\_\_

Date	Station No.	Road/Intersection	Direction									Start time	End time	Surveyor	Inspector	Sheet No.
9/5/89	14	Maktaba Street	Down									6.00 AM	18.00 PM			
TUE		City Centre Zone														
Type of vehicle	6	7	8	9	10	11	12	1	2	3	4	5	6	7	Total	
	-7	-8	-9	-10	-11	-12	-1	-2	-3	-4	-5	-6	-7			
1. Car, Taxi	31	255	321	338	328	345	441	323	373	410	358	440			3963	
2. Light goods vehicle	29	82	103	121	130	156	184	116	141	136	256	181			1635	
3. Medium goods vehicle	2	6	9	9	9	20	5	10	9	6	20	9			114	
4. Heavy goods vehicle	1	0	0	1	1	0	2	1	1	0	8	1			16	
5. Bus	23	52	56	48	41	44	67	36	47	55	38	38			545	
Total No.	86	395	489	517	509	565	699	486	571	607	680	669			6273	
Total No. of pcu	136	505	610	624	602	673	842	570	676	723	792	756			7509	

TRAFFIC COUNT SURVEY SHEET

No. \_\_\_\_\_

( 8/20 )

Date	Station No.	Road/Intersection	Direction								Start time	End time	Surveyor	Inspector	Sheet No.
2.5.89	15	Samora Avenue	Up								6.00 AM	18.00PM			
TUE															
Type of vehicle	6	7	8	9	10	11	12	1	2	3	4	5	6	7	Total
	-7	-8	-9	-10	-11	-12	-1	-2	-3	-4	-5	-6	-7		
1. Car, Taxi	43	258	362	369	403	362	363	370	354	347	368	389			3968
2. Light goods vehicle	8	104	120	142	139	183	149	152	144	108	129	128			1506
3. Medium goods vehicle	0	8	4	6	10	6	6	3	3	0	4	2			52
4. Heavy goods vehicle	0	0	0	0	3	0	3	2	0	0	1	0			9
5. Bus	6	23	28	24	2	6	1	4	6	9	20	14			143
Total No.	57	393	514	541	557	557	522	531	507	464	522	533			5698
Total No. of pcu	69	447	574	595	577	575	536	546	522	482	568	563			6054

TRAFFIC COUNT SURVEY SHEET

No. \_\_\_\_\_

Date	Station No.	Road/Intersection	Direction								Start time	End time	Surveyor	Inspector	Sheet No.
2.5.89	15	Samora Avenue	Down								6.00 AM	18.00PM			
TUE															
Type of vehicle	6	7	8	9	10	11	12	1	2	3	4	5	6	7	Total
	-7	-8	-9	-10	-11	-12	-1	-2	-3	-4	-5	-6	-7		
1. Car, Taxi	0024	258	300	266	266	218	246	250	293	277	291	262			2951
2. Light goods vehicle	0015	109	100	116	105	94	97	78	88	118	100	94			1114
3. Medium goods vehicle	0015	5	5	9	3	1	3	4	5	7	1	4			48
4. Heavy goods vehicle	0000	2	0	2	2	0	0	0	0	0	0	0			6
5. Bus	0001	12	20	6	7	12	20	5	7	6	1	3			100
Total No.	41	386	425	399	383	325	366	337	393	408	393	365			4219
Total No. of pcu	44	419	470	424	404	350	409	351	412	427	396	373			4479

TRAFFIC COUNT SURVEY SHEET

No. \_\_\_\_\_

Date	Station No.	Road/Intersection	Direction								Start time	End time	Surveyor	Inspector	Sheet No.
3.5.89	16	Morogoro Road	Up								6.00 AM	18.00PM			
WED															
Type of vehicle	6	7	8	9	10	11	12	1	2	3	4	5	6	7	Total
	-7	-8	-9	-10	-11	-12	-1	-2	-3	-4	-5	-6	-7		
1. Car, Taxi	19	208	351	304	269	296	225	284	316	277	266	286			3101
2. Light goods vehicle	5	86	161	152	139	167	103	74	134	123	130	108			1382
3. Medium goods vehicle	0	3	8	8	3	6	7	6	2	4	2	5			54
4. Heavy goods vehicle	0	0	1	2	2	0	1	0	1	1	1	0			9
5. Bus	4	9	8	10	5	10	13	14	7	3	7	2			92
Total No.	28	306	529	476	418	479	349	378	460	408	406	401			4638
Total No. of pcu	36	327	555	508	435	505	384	412	478	420	424	410			4824

TRAFFIC COUNT SURVEY SHEET

No. \_\_\_\_\_

Date	Station No.	Road/Intersection	Direction								Start time	End time	Surveyor	Inspector	Sheet No.
3.5.89	16	Morogoro Road	Down								6.00 AM	18.00PM			
WED															
Type of vehicle	6	7	8	9	10	11	12	1	2	3	4	5	6	7	Total
	-7	-8	-9	-10	-11	-12	-1	-2	-3	-4	-5	-6	-7		
1. Car, Taxi	21	151	193	222	249	226	223	209	260	196	259	289			2498
2. Light goods vehicle	4	58	92	100	93	121	105	92	135	102	101	84			1087
3. Medium goods vehicle	2	4	2	5	7	5	18	4	5	11	4	1			66
4. Heavy goods vehicle	0	0	0	1	1	0	1	1	2	0	0	0			6
5. Bus	5	26	12	24	14	12	3	8	19	20	14	11			168
Total No.	32	239	299	352	364	364	350	314	421	329	378	385			3827
Total No. of pcu	44	295	325	407	401	393	376	336	468	380	410	408			4243



TRAFFIC COUNT SURVEY SHEET

No. \_\_\_\_\_

( 9/20 )

Date	Station No.	Road/Intersection	Direction										Start time	End time	Surveyor	Inspector	Sheet No.	
4.5.89	17	UDT Street	Up										6.00 AM	18.00 PM				
THU																		
Type of vehicle			6	7	8	9	10	11	12	1	2	3	4	5	6	Total		
			-7	-8	-9	-10	-11	-12	-1	-2	-3	-4	-5	-6	-7			
1. Car, Taxi			102	394	550	415	383	610	579	493	521	473	461	332		5313		
2. Light goods vehicle			60	172	236	205	180	255	254	185	237	240	173	143		2340		
3. Medium goods vehicle			5	7	26	22	29	36	37	25	27	25	24	10		281		
4. Heavy goods vehicle			1	2	2	4	4	2	3	3	3	3	4	1		32		
5. Bus			7	30	42	30	14	41	49	34	29	39	25	28		368		
Total No.			175	605	856	676	610	944	922	740	817	780	687	522		8334		
Total No. of pcu			196	676	970	766	675	1066	1063	839	908	889	769	598		9415		

TRAFFIC COUNT SURVEY SHEET

No. \_\_\_\_\_

Date	Station No.	Road/Intersection	Direction										Start time	End time	Surveyor	Inspector	Sheet No.	
4.5.89	17	UDT Street	Down										6.00 AM	18.00 PM				
THU																		
Type of vehicle			6	7	8	9	10	11	12	1	2	3	4	5	6	Total		
			-7	-8	-9	-10	-11	-12	-1	-2	-3	-4	-5	-6	-7			
1. Car, Taxi			99	273	381	347	396	438	559	445	413	476	525	361		4713		
2. Light goods vehicle			54	129	133	152	166	193	222	68	158	214	196	187		1872		
3. Medium goods vehicle			0	22	25	25	25	21	36	28	21	25	22	17		267		
4. Heavy goods vehicle			1	2	2	1	60	1	2	4	2	4	2	4		85		
5. Bus			13	32	46	38	39	37	45	42	44	55	51	34		476		
Total No.			167	458	587	553	686	690	864	587	638	774	796	603		7413		
Total No. of pcu			195	548	708	666	909	787	994	707	751	917	924	696		8802		

TRAFFIC COUNT SURVEY SHEET

No. \_\_\_\_\_

Date	Station No.	Road/Intersection	Direction										Start time	End time	Surveyor	Inspector	Sheet No.	
5.5.89	18	Sokoine Drive	Up										6.00 AM	18.00 PM				
FRI																		
Type of vehicle			6	7	8	9	10	11	12	1	2	3	4	5	6	Total		
			-7	-8	-9	-10	-11	-12	-1	-2	-3	-4	-5	-6	-7			
1. Car, Taxi			76	363	462	392	413	379	403	339	407	439	364	286		4323		
2. Light goods vehicle			31	139	166	154	183	192	179	125	168	126	171	115		1749		
3. Medium goods vehicle			21	23	26	27	23	37	35	21	22	32	20	10		297		
4. Heavy goods vehicle			0	1	1	5	1	2	2	1	2	8	2	4		29		
5. Bus			55	96	97	74	52	77	62	73	69	63	53	16		787		
Total No.			183	622	752	652	672	687	681	559	668	668	610	431		7185		
Total No. of pcu			314	839	974	837	801	882	844	728	832	842	740	481		9114		

TRAFFIC COUNT SURVEY SHEET

No. \_\_\_\_\_

Date	Station No.	Road/Intersection	Direction										Start time	End time	Surveyor	Inspector	Sheet No.	
5.5.89	18	Sokoine Drive	Down										6.00 AM	18.00 PM				
FRI																		
Type of vehicle			6	7	8	9	10	11	12	1	2	3	4	5	6	Total		
			-7	-8	-9	-10	-11	-12	-1	-2	-3	-4	-5	-6	-7			
1. Car, Taxi			69	438	411	398	406	387	461	390	410	394	277	244		4285		
2. Light goods vehicle			30	139	169	207	198	176	205	128	176	166	127	101		1822		
3. Medium goods vehicle			7	15	28	24	31	28	37	30	20	26	23	12		281		
4. Heavy goods vehicle			0	3	3	3	1	1	2	6	1	1	0	2		23		
5. Bus			71	98	107	110	103	84	53	74	17	86	80	71		954		
Total No.			177	693	718	742	739	676	758	628	624	673	507	430		7365		
Total No. of pcu			326	911	966	932	978	874	905	818	680	873	690	588		9600		

TRAFFIC COUNT SURVEY SHEET

No. \_\_\_\_\_

Date	Station No.	Road/Intersection	Direction										Start time	End time	Surveyor	Inspector	Sheet No.
9.5.89	19	Uhuru Street	Up										6.00 AM	18.00 PM			
TUE																	
Type of vehicle	6	7	8	9	10	11	12	1	2	3	4	5	6	Total			
	-7	-8	-9	-10	-11	-12	-1	-2	-3	-4	-5	-6	-7				
1. Car, Taxi	77	260	294	316	322	326	293	234	243	295	272	356		3290			
2. Light goods vehicle	26	101	117	116	137	163	159	99	102	127	134	126		1407			
3. Medium goods vehicle	7	35	18	26	23	12	10	20	22	23	35	18		256			
4. Heavy goods vehicle	1	2	2	1	4	-	3	2	2	1	2	3		23			
5. Bus	48	73	57	53	38	51	60	36	48	62	67	65		662			
Total No.	159	472	489	514	530	552	525	391	417	508	510	572		5634			
Total No. of pcu	264	658	624	648	643	666	661	487	539	657	683	734		7264			

( 10/20 )

TRAFFIC COUNT SURVEY SHEET

No. \_\_\_\_\_

Date	Station No.	Road/Intersection	Direction										Start time	End time	Surveyor	Inspector	Sheet No.
9.5.89	19	Uhuru Street	Down										6.00 AM	18.00 PM			
TUE																	
Type of vehicle	6	7	8	9	10	11	12	1	2	3	4	5	6	Total			
	-7	-8	-9	-10	-11	-12	-1	-2	-3	-4	-5	-6	-7				
1. Car, Taxi	39	158	314	293	332	364	321	252	315	375	302	256		3321			
2. Light goods vehicle	15	75	124	165	135	160	154	118	168	185	126	98		1526			
3. Medium goods vehicle	7	15	16	29	20	22	33	36	17	34	32	20		281			
4. Heavy goods vehicle	-	2	3	4	1	1	4	2	3	8	2	1		31			
5. Bus	46	56	49	33	47	32	46	40	39	35	37	37		497			
Total No.	107	306	506	525	535	579	558	448	542	637	501	412		5656			
Total No. of pcu	206	437	626	578	651	667	691	668	643	757	611	508		7043			

TRAFFIC COUNT SURVEY SHEET

No. \_\_\_\_\_

Date	Station No.	Road/Intersection	Direction										Start time	End time	Surveyor	Inspector	Sheet No.
9.5.89	20	Morogoro Road	Up										6.00 AM	18.00 PM			
TUE																	
Type of vehicle	6	7	8	9	10	11	12	1	2	3	4	5	6	Total			
	-7	-8	-9	-10	-11	-12	-1	-2	-3	-4	-5	-6	-7				
1. Car, Taxi	240	618	590	400	391	382	383	393	436	365	392	410		4950			
2. Light goods vehicle	67	281	187	210	148	190	156	190	142	175	180	155		2081			
3. Medium goods vehicle	14	48	28	32	21	36	18	33	16	35	36	23		340			
4. Heavy goods vehicle	14	38	48	24	16	18	20	12	21	14	0	9		234			
5. Bus	126	163	146	149	115	119	118	127	136	138	159	125		1621			
Total No.	461	1148	989	815	691	745	695	755	751	727	767	722		9266			
Total No. of pcu	755	1398	1405	1193	974	1055	989	1066	1081	1056	1121	1013		13316			

TRAFFIC COUNT SURVEY SHEET

No. \_\_\_\_\_

Date	Station No.	Road/Intersection	Direction										Start time	End time	Surveyor	Inspector	Sheet No.
9.5.89	20	Morogoro Road	Down										6.00 AM	18.00 PM			
TUE																	
Type of vehicle	6	7	8	9	10	11	12	1	2	3	4	5	6	Total			
	-7	-8	-9	-10	-11	-12	-1	-2	-3	-4	-5	-6	-7				
1. Car, Taxi	140	363	384	362	334	426	453	405	384	467	587	608		4913			
2. Light goods vehicle	76	151	192	162	190	163	213	193	177	225	176	160		2078			
3. Medium goods vehicle	13	19	22	14	32	21	34	30	47	40	31	24		347			
4. Heavy goods vehicle	9	0	0	6	4	3	1	1	2	6	44	55		122			
5. Bus	115	102	130	156	145	134	158	144	147	142	138	130		1641			
Total No.	344	635	728	700	705	747	879	773	757	880	976	977		9101			
Total No. of pcu	584	858	1010	1038	1033	1042	1247	1090	1102	1216	1371	1371		12974			

TRAFFIC COUNT SURVEY SHEET

No. \_\_\_\_\_

Date	Station No.	Road/Intersection	Direction										Start time	End time	Surveyor	Inspector	Sheet No.	
5.5.89	21	Malabasi Street	Up										6.00 AM	6.00 PM				
FRI																		
Type of vehicle	6	7	8	9	10	11	12	1	2	3	4	5	6	Total				
	-7	-8	-9	-10	-11	-12	-1	-2	-3	-4	-5	-6	-7					
1. Car, Taxi	83	287	202	163	185	178	201	238	112	163	268	115		2195				
2. Light goods vehicle	47	141	108	97	104	109	97	126	83	71	61	71		1115				
3. Medium goods vehicle	11	41	29	30	23	27	31	26	37	33	19	47		354				
4. Heavy goods vehicle	4	2	5	8		2	1	3	0	3		4		32				
5. Bus	85	112	120	149	113	136	144	133	102	111	41	130		1376				
Total No.	230	583	464	447	425	452	474	526	334	381	389	367		5072				
Total No. of pcu	419	852	748	791	674	755	795	824	574	642	490	682		8242				

( 11/20 )

TRAFFIC COUNT SURVEY SHEET

No. \_\_\_\_\_

Date	Station No.	Road/Intersection	Direction										Start time	End time	Surveyor	Inspector	Sheet No.	
5.5.89	21	Malabasi Street	Down										6.00 AM	18.00 PM				
FRI																		
Type of vehicle	6	7	8	9	10	11	12	1	2	3	4	5	6	Total				
	-7	-8	-9	-10	-11	-12	-1	-2	-3	-4	-5	-6	-7					
1. Car, Taxi	166	316	369	355	196	147	170	260	175	185	393	135		2687				
2. Light goods vehicle	79	115	188	104	43	64	68	110	83	85	119	41		1099				
3. Medium goods vehicle	10	13	55	24	42	24	39	33	27	26	16	25		334				
4. Heavy goods vehicle	2	1	3	2	1	6		2	1	3	2	5		28				
5. Bus	100	137	158	135	112	112	130	140	119	137	28	106		1414				
Total No.	357	582	773	420	394	353	407	545	405	436	558	312		5542				
Total No. of pcu	571	871	1150	718	682	613	706	862	672	742	634	559		8760				

TRAFFIC COUNT SURVEY SHEET

No. \_\_\_\_\_

Date	Station No.	Road/Intersection	Direction										Start time	End time	Surveyor	Inspector	Sheet No.	
9.5.89	22	Ceresani Street	Up										6.00 AM	18.00 PM				
TUE																		
Type of vehicle	6	7	8	9	10	11	12	1	2	3	4	5	6	Total				
	-7	-8	-9	-10	-11	-12	-1	-2	-3	-4	-5	-6	-7					
1. Car, Taxi	65	152	168	208	233	252	209	181	233	216	150	134		2201				
2. Light goods vehicle	38	99	76	118	120	148	130	124	106	97	99	95		1250				
3. Medium goods vehicle	20	27	26	47	64	62	52	54	58	61	52	35		558				
4. Heavy goods vehicle	6	2	5	7	9	15	14	16	14	28	14	9		139				
5. Bus	23	30	19	20	22	20	12	14	28	26	31	30		275				
Total No.	152	310	294	400	448	497	417	389	439	428	346	303		4423				
Total No. of pcu	230	401	370	501	574	629	521	503	581	597	488	416		5809				

TRAFFIC COUNT SURVEY SHEET

No. \_\_\_\_\_

Date	Station No.	Road/Intersection	Direction										Start time	End time	Surveyor	Inspector	Sheet No.	
9.5.89	22	Ceresani Street	Down										6.00 AM	18.00 PM				
TUE																		
Type of vehicle	6	7	8	9	10	11	12	1	2	3	4	5	6	Total				
	-7	-8	-9	-10	-11	-12	-1	-2	-3	-4	-5	-6	-7					
1. Car, Taxi	42	233	287	240	240	264	253	213	212	186	178	145		2493				
2. Light goods vehicle	42	144	165	134	141	146	131	95	143	124	127	102		1494				
3. Medium goods vehicle	19	52	74	59	61	71	59	60	42	44	20	8		569				
4. Heavy goods vehicle	7	8	16	24	19	12	6	12	11	6	6	5		132				
5. Bus	25	32	16	21	21	21	20	22	24	32	13	16		263				
Total No.	135	469	558	478	482	514	469	402	432	392	344	276		4951				
Total No. of pcu	218	601	696	627	623	651	580	530	544	512	402	326		6310				

TRAFFIC COUNT SURVEY SHEET

No. \_\_\_\_\_

Date	Station No.	Road/Intersection	Direction										Start time	End time	Surveyor	Inspector	Sheet No.
4.5.89	23	Baganoyo Road	Up										6.00 AM	18.00 PM			
THU																	
Type of vehicle			6	7	8	9	10	11	12	1	2	3	4	5	6		
			-7	-8	-9	-10	-11	-12	-1	-2	-3	-4	-5	-6	-7	Total	
1. Car, Taxi			0268	0506	0352	0375	0355	0454	0345	390	430	381	443	274		4523	
2. Light goods vehicle			0096	0265	0155	0208	0191	0172	0159	215	237	200	159	85		2142	
3. Medium goods vehicle			0010	0009	0008	0039	0029	0016	0021	16	13	20	32	22		243	
4. Heavy goods vehicle			0012	0014	0008	0002	0004	0023	0013	24	22	6	8	6		142	
5. Bus			0014	0018	005	0014	0013	0007	0006	10	9	8	19	5		128	
Total No.			400	812	528	638	592	672	544	655	711	623	661	392		7228	
Total No. of pcu			462	865	562	709	655	747	603	739	786	679	747	436		8011	

( 12/20 )

TRAFFIC COUNT SURVEY SHEET

No. \_\_\_\_\_

Date	Station No.	Road/Intersection	Direction										Start time	End time	Surveyor	Inspector	Sheet No.
4.5.89	23	Baganoyo Road	Down										6.00 AM	18.00 PM			
THU																	
Type of vehicle			6	7	8	9	10	11	12	1	2	3	4	5	6		
			-7	-8	-9	-10	-11	-12	-1	-2	-3	-4	-5	-6	-7	Total	
1. Car, Taxi			0195	0315	0272	0299	0266	0354	0495	523	414	479	572	366		4851	
2. Light goods vehicle			0078	0184	0096	0105	0143	0200	0241	122	191	208	259	177		2004	
3. Medium goods vehicle			0012	0016	0012	0019	0013	0009	0037	18	16	20	30	9		211	
4. Heavy goods vehicle			0004	0004	0013	0026	0018	0019	0009	16	25	9	16	13		172	
5. Bus			0028	0017	0014	0011	0007	0003	0011	8	16	15	13	9		152	
Total No.			317	536	407	460	447	585	793	687	763	931	890	574		7190	
Total No. of pcu			393	594	473	553	510	638	870	753	861	999	978	627		8249	

TRAFFIC COUNT SURVEY SHEET

No. \_\_\_\_\_

Date	Station No.	Road/Intersection	Direction										Start time	End time	Surveyor	Inspector	Sheet No.
3.5.89	24	Haile Sellasie Road	Up										6.00 AM	18.00 PM			
VED																	
Type of vehicle			6	7	8	9	10	11	12	1	2	3	4	5	6		
			-7	-8	-9	-10	-11	-12	-1	-2	-3	-4	-5	-6	-7	Total	
1. Car, Taxi			0090	0170	0128	0117	0133	0156	0140	0216	0141	0158	0165	0190		1804	
2. Light goods vehicle			0038	0048	0056	0064	0064	0042	0049	0060	0043	0058	0047	0062		631	
3. Medium goods vehicle			0006	0011	0016	0016	0009	0009	0013	0013	0017	0012	0006	0008		136	
4. Heavy goods vehicle			0001	0002	0004	0002	0006	0006	0002	0001	0011	0006	0008	0007		56	
5. Bus			0006	0003	0003	0004	0004	0003	0007	0006	0004	0009	0003	0009		63	
Total No.			141	234	207	203	216	216	211	296	216	243	231	276		2690	
Total No. of pcu			161	255	237	231	245	243	242	323	263	285	263	316		3064	

TRAFFIC COUNT SURVEY SHEET

No. \_\_\_\_\_

Date	Station No.	Road/Intersection	Direction										Start time	End time	Surveyor	Inspector	Sheet No.
3.5.89	24	Haile Sellasie Road	Down										6.00 AM	18.00 PM			
VED																	
Type of vehicle			6	7	8	9	10	11	12	1	2	3	4	5	6		
			-7	-8	-9	-10	-11	-12	-1	-2	-3	-4	-5	-6	-7	Total	
1. Car, Taxi			0119	0190	0131	0112	0113	0160	0207	0167	0189	0185	0226	0129		1926	
2. Light goods vehicle			0039	0054	0045	0059	0058	0063	0070	0045	0058	0060	0064	0052		667	
3. Medium goods vehicle			0011	0007	0007	0007	0017	0003	0002	0009	0011	0015	0016	0007		112	
4. Heavy goods vehicle			0002	0000	0001	0003	0001	0005	0004	0008	0010	0001	0002	-		37	
5. Bus			0020	0009	0014	0006	0003	0002	0009	0001	0002	0007	0006	-		79	
Total No.			191	260	198	187	190	233	292	230	270	268	314	188		2821	
Total No. of pcu			246	285	235	212	215	250	320	257	305	299	346	195		3165	

TRAFFIC COUNT SURVEY SHEET

No. \_\_\_\_\_

Date	Station No.	Road/Intersection	Direction								Start time	End time	Surveyor	Inspector	Sheet No.
2.5.89	25	Old Baganoyo Road	Up								6.00 AM	18.00 PM			
TUE															
Type of vehicle	6	7	8	9	10	11	12	1	2	3	4	5	6	Total	
	-7	-8	-9	-10	-11	-12	-1	-2	-3	-4	-5	-6	-7		
1. Car, Taxi	0114	254	016A	012A	0102	0099	0115	0136	0150	0136	0102	0172		1652	
2. Light goods vehicle	0065	126	0067	0068	0063	0049	0032	0056	0063	0034	0050	0066		740	
3. Medium goods vehicle	0005	13	0010	0013	0015	0014	0006	0001	0016	0003	0011	0008		115	
4. Heavy goods vehicle	0000	1	0000	0000	0002	0002	0005	0000	0000	0005	0008	0006		24	
5. Bus	6	4	-	2	1	1	2	1	-	1	5	1		24	
Total No.	191	398	245	207	183	165	160	194	209	179	171	253		2555	
Total No. of pcu	208	421	255	224	204	185	180	197	225	194	206	275		2766	

( 13/20 )

TRAFFIC COUNT SURVEY SHEET

No. \_\_\_\_\_

Date	Station No.	Road/Intersection	Direction								Start time	End time	Surveyor	Inspector	Sheet No.
2.5.89	25	Old Baganoyo Road	Down								6.00 AM	18.00 PM			
TUE															
Type of vehicle	6	7	8	9	10	11	12	1	2	3	4	5	6	Total	
	-7	-8	-9	-10	-11	-12	-1	-2	-3	-4	-5	-6	-7		
1. Car, Taxi	39	82	79	77	114	94	124	177	129	140	199	213		1367	
2. Light goods vehicle	26	30	37	54	50	51	53	100	58	64	85	95		703	
3. Medium goods vehicle	2	4	10	13	7	12	13	16	12	9	12	13		123	
4. Heavy goods vehicle	0	2	0	4	4	2	1	0	0	1	0	1		15	
5. Bus	3	3	7	10	6	5	3	6	8	7	11	12		81	
Total No.	70	121	133	158	181	164	194	299	107	221	307	334		2289	
Total No. of pcu	78	135	157	199	238	190	215	327	235	246	341	373		2604	

TRAFFIC COUNT SURVEY SHEET

No. \_\_\_\_\_

Date	Station No.	Road/Intersection	Direction								Start time	End time	Surveyor	Inspector	Sheet No.
3.5.89	26	Kinondoni Road	Up								6.00 AM	18.00 PM			
WED															
Type of vehicle	6	7	8	9	10	11	12	1	2	3	4	5	6	Total	
	-7	-8	-9	-10	-11	-12	-1	-2	-3	-4	-5	-6	-7		
1. Car, Taxi	67	430	327	164	152	156	168	183	202	194	208	225		2476	
2. Light goods vehicle	35	155	118	78	65	51	56	69	61	68	83	82		921	
3. Medium goods vehicle	5	24	22	7	7	9	11	9	13	8	14	15		144	
4. Heavy goods vehicle	1	-	1	4	0	0	1	-	-	-	-	1		8	
5. Bus	29	87	36	31	33	25	24	26	33	36	44	41		447	
Total No.	137	696	505	284	257	241	260	287	309	306	349	354		3936	
Total No. of pcu	202	894	606	361	330	300	321	348	388	386	451	463		5050	

TRAFFIC COUNT SURVEY SHEET

No. \_\_\_\_\_

Date	Station No.	Road/Intersection	Direction								Start time	End time	Surveyor	Inspector	Sheet No.
3.5.89	26	Kinondoni Road	Down								6.00 AM	18.00 PM			
WED															
Type of vehicle	6	7	8	9	10	11	12	1	2	3	4	5	6	Total	
	-7	-8	-9	-10	-11	-12	-1	-2	-3	-4	-5	-6	-7		
1. Car, Taxi	37	161	185	179	129	168	205	177	187	299	275	329		2331	
2. Light goods vehicle	14	75	43	57	65	74	82	65	55	81	103	135		649	
3. Medium goods vehicle	3	7	13	12	12	9	8	14	17	18	16	25		154	
4. Heavy goods vehicle	0	0	0	0	3	2	0	1	0	0	-	-		6	
5. Bus	24	51	34	28	31	26	40	27	41	56	56	68		482	
Total No.	78	294	275	276	240	279	335	284	300	454	450	527		3822	
Total No. of pcu	129	403	356	344	320	344	423	354	399	584	578	718		4952	

TRAFFIC COUNT SURVEY SHEET

No. \_\_\_\_\_

Date	Station No.	Road/Intersection	Direction										Start time	End time	Surveyor	Inspector	Sheet No.
5.5.89	27	Mwinjuma Road	Up										6.00 AM	18.00 PM			
FRI																	
Type of vehicle			6	7	8	9	10	11	12	1	2	3	4	5	6		
			-7	-8	-9	-10	-11	-12	-1	-2	-3	-4	-5	-6	-7	Total	
1. Car, Taxi			95	177	102	108	90	82	87	95	99	121	145	148	1350		
2. Light goods vehicle			30	66	24	19	12	19	13	15	29	39	22	19	307		
3. Medium goods vehicle			6	21	15	10	15	6	4	13	15	16	8	11	138		
4. Heavy goods vehicle			3	4	-	1	-	1	-	2	9	-	3	1	24		
5. Bus			26	38	8	2	-	4	2	7	11	12	15	23	148		
Total No.			160	306	147	140	117	112	106	132	163	188	194	202	1967		
Total No. of pcu			224	411	176	156	132	128	114	163	218	228	238	261	2449		

( 14/20 )

TRAFFIC COUNT SURVEY SHEET

No. \_\_\_\_\_

Date	Station No.	Road/Intersection	Direction										Start time	End time	Surveyor	Inspector	Sheet No.
5.5.89	27	Mwinjuma Road	Down										6.00 AM	18.00 PM			
FRI																	
Type of vehicle			6	7	8	9	10	11	12	1	2	3	4	5	6		
			-7	-8	-9	-10	-11	-12	-1	-2	-3	-4	-5	-6	-7	Total	
1. Car, Taxi			57	122	107	82	77	70	85	60	67	65	119	172	1083		
2. Light goods vehicle			25	22	34	22	16	27	15	37	24	18	29	43	312		
3. Medium goods vehicle			5	16	8	8	11	11	7	13	8	5	5	12	109		
4. Heavy goods vehicle			-	-	1	1	1	3	2	-	2	-	4	3	17		
5. Bus			29	12	3	2	4	7	6	12	2	17	16	30	140		
Total No.			116	172	153	115	109	118	115	122	103	105	173	260	1661		
Total No. of pcu			179	212	169	129	130	149	138	159	119	144	218	338	2084		

TRAFFIC COUNT SURVEY SHEET

No. \_\_\_\_\_

Date	Station No.	Road/Intersection	Direction										Start time	End time	Surveyor	Inspector	Sheet No.
5.5.89	23	Baganoyo Road	Up										6.00 AM	18.00 PM			
FRI																	
Type of vehicle			6	7	8	9	10	11	12	1	2	3	4	5	6		
			-7	-8	-9	-10	-11	-12	-1	-2	-3	-4	-5	-6	-7	Total	
1. Car, Taxi			170	282	184	149	157	155	116	163	157	185	187	107	2012		
2. Light goods vehicle			51	213	127	128	99	72	99	122	107	119	131	82	1350		
3. Medium goods vehicle			7	20	8	34	36	10	48	39	17	41	42	3	305		
4. Heavy goods vehicle			14	28	15	18	9	33	13	18	31	13	9	29	230		
5. Bus			28	30	20	24	18	18	25	17	17	34	34	18	283		
Total No.			270	573	354	353	319	288	301	359	329	392	403	239	4180		
Total No. of pcu			361	709	432	471	409	400	425	468	442	527	531	336	5511		

TRAFFIC COUNT SURVEY SHEET

No. \_\_\_\_\_

Date	Station No.	Road/Intersection	Direction										Start time	End time	Surveyor	Inspector	Sheet No.
5.5.89	28	Baganoyo Road	Down										6.00 AM	18.00 PM			
FRI																	
Type of vehicle			6	7	8	9	10	11	12	1	2	3	4	5	6		
			-7	-8	-9	-10	-11	-12	-1	-2	-3	-4	-5	-6	-7	Total	
1. Car, Taxi			76	143	196	170	132	120	190	210	203	234	337	250	2261		
2. Light goods vehicle			58	124	85	85	27	103	118	96	84	161	130	111	1182		
3. Medium goods vehicle			13	35	17	13	13	9	10	11	12	9	18	9	169		
4. Heavy goods vehicle			8	13	36	39	36	39	39	41	38	42	28	25	384		
5. Bus			37	35	22	20	13	21	13	26	25	36	31	23	302		
Total No.			192	350	356	327	221	292	370	384	362	482	544	418	4298		
Total No. of pcu			235	481	489	458	332	421	484	529	500	647	680	523	5839		

TRAFFIC COUNT SURVEY SHEET

No. \_\_\_\_\_

( 15/20 )

Date	Station No.	Road/Intersection	Direction										Start time	End time	Surveyor	Inspector	Sheet No.
3.5.89	29	Toure Drive	Up										6.00 AM	18.00PM			
SED																	
Type of vehicle			6	7	8	9	10	11	12	1	2	3	4	5	6	Total	
			-7	-8	-9	-10	-11	-12	-1	-2	-3	-4	-5	-6	-7		
1. Car, Taxi			113	399	222	112	102	79	83	143	165	137	124	92		1771	
2. Light goods vehicle			24	36	37	19	3	23	22	25	2	-	-	18		209	
3. Medium goods vehicle			1	-	4	4	2	80	3	5	3	1	2	1		106	
4. Heavy goods vehicle			-	-	-	-	-	-	1	1	-	-	-	-		2	
5. Bus			-	-	1	-	1	-	-	7	-	-	-	1		10	
Total No.			138	435	264	135	108	182	109	181	170	138	126	112		2098	
Total No. of pcu			139	435	270	139	112	262	114	202	173	139	128	115		2228	

TRAFFIC COUNT SURVEY SHEET

No. \_\_\_\_\_

Date	Station No.	Road/Intersection	Direction										Start time	End time	Surveyor	Inspector	Sheet No.
3.5.89	29	Oysterbay Road	Down										6.00 AM	18.00 PM			
VED																	
Type of vehicle			6	7	8	9	10	11	12	1	2	3	4	5	6	Total	
			-7	-8	-9	-10	-11	-12	-1	-2	-3	-4	-5	-6	-7		
1. Car, Taxi			87	111	44	76	115	113	223	165	130	201	196	197		1658	
2. Light goods vehicle			1	1	8	7	1	-	-	4	3	7	28	14		74	
3. Medium goods vehicle			-	3	5	7	2	3	4	2	3	-	6	-		35	
4. Heavy goods vehicle			-	-	-	-	1	-	1	-	1	-	-	-		3	
5. Bus			-	-	-	1	-	-	-	1	1	1	1	1		6	
Total No.			88	115	57	91	119	118	228	172	138	209	231	212		1776	
Total No. of pcu			88	118	62	100	120	119	231	176	142	211	239	214		1820	

TRAFFIC COUNT SURVEY SHEET

No. \_\_\_\_\_

Date	Station No.	Road/Intersection	Direction										Start time	End time	Surveyor	Inspector	Sheet No.
2.5.89	30	Shekilango Road	Up										6.00 AM	18.00 PM			
TUE																	
Type of vehicle			6	7	8	9	10	11	12	1	2	3	4	5	6	Total	
			-7	-8	-9	-10	-11	-12	-1	-2	-3	-4	-5	-6	-7		
1. Car, Taxi			101	309	202	118	125	105	99	110	95	146	188	226		1824	
2. Light goods vehicle			15	29	21	19	12	19	23	15	44	60	26	24		307	
3. Medium goods vehicle			8	26	23	13	10	11	12	17	9	16	22	23		190	
4. Heavy goods vehicle			5	2	5	4	2	2	2	-	-	4	1	2		29	
5. Bus			10	5	4	2	1	1	1	1	5	7	5	7		49	
Total No.			139	371	255	156	150	138	137	143	153	233	242	282		2399	
Total No. of pcu			177	411	296	181	166	155	155	162	172	271	276	323		2745	

TRAFFIC COUNT SURVEY SHEET

No. \_\_\_\_\_

Date	Station No.	Road/Intersection	Direction										Start time	End time	Surveyor	Inspector	Sheet No.
2.5.89	30	Shekilango Road	Down										6.00 AM	18.00PM			
TUE																	
Type of vehicle			6	7	8	9	10	11	12	1	2	3	4	5	6	Total	
			-7	-8	-9	-10	-11	-12	-1	-2	-3	-4	-5	-6	-7		
1. Car, Taxi			55	115	54	52	112	35	74	149	123	195	194	180		1338	
2. Light goods vehicle			20	75	45	34	10	52	59	15	19	22	25	104		480	
3. Medium goods vehicle			4	14	7	4	12	17	7	13	14	29	21	23		165	
4. Heavy goods vehicle			2	1	1	3	2	1	5	0	3	4	6	1		29	
5. Bus			42	20	6	7	1	4	4	1	1	5	12	8		111	
Total No.			125	225	113	100	137	109	149	178	160	255	258	316		2125	
Total No. of pcu			215	281	134	124	155	136	174	193	182	302	315	357		2568	

TRAFFIC COUNT SURVEY SHEET

No. \_\_\_\_\_

( 16/20 )

Date	Station No.	Road/Intersection	Direction										Start time	End time	Surveyor	Inspector	Sheet No.	
2.5.89	31	Mpakani Road	Up										6.00 AM	18.00 PM				
TUE																		
Type of vehicle	6	7	8	9	10	11	12	1	2	3	4	5	6	7	Total			
	-7	-8	-9	-10	-11	-12	-1	-2	-3	-4	-5	-6	-7					
1. Car, Taxi	46	152	84	70	65	45	55	56	61	67	90	122			913			
2. Light goods vehicle	20	107	77	48	64	40	41	50	60	69	65	91			732			
3. Medium goods vehicle	15	32	24	30	33	40	45	51	48	38	53	37			446			
4. Heavy goods vehicle	5	9	8	7	4	9	6	6	2	10	4	8			78			
5. Bus	26	27	17	7	6	7	11	15	8	17	26	24			191			
Total No.	112	327	210	162	172	141	156	176	179	201	238	282			2360			
Total No. of pcu	189	431	284	220	225	213	237	271	247	293	351	383			3344			

TRAFFIC COUNT SURVEY SHEET

No. \_\_\_\_\_

Date	Station No.	Road/Intersection	Direction										Start time	End time	Surveyor	Inspector	Sheet No.	
2.5.89	31	Mpakani Road	Down										6.00 AM	18.00 PM				
TUE																		
Type of vehicle	6	7	8	9	10	11	12	1	2	3	4	5	6	7	Total			
	-7	-8	-9	-10	-11	-12	-1	-2	-3	-4	-5	-6	-7					
1. Car, Taxi	63	110	68	38	48	37	53	46	59	68	100	113			803			
2. Light goods vehicle	33	73	58	51	41	48	50	40	61	47	87	83			672			
3. Medium goods vehicle	14	24	39	27	30	37	40	30	42	30	29	29			371			
4. Heavy goods vehicle	6	8	8	5	3	3	6	3	7	8	9	5			71			
5. Bus	27	25	12	7	0	4	6	12	12	10	19	23			157			
Total No.	143	240	185	128	122	129	155	131	181	163	244	253			2074			
Total No. of pcu	223	330	264	179	158	180	219	191	261	229	329	338			2901			

TRAFFIC COUNT SURVEY SHEET

No. \_\_\_\_\_

Date	Station No.	Road/Intersection	Direction										Start time	End time	Surveyor	Inspector	Sheet No.	
4.5.89	32	Mabibo Road	Up										6.00 AM	18.00 PM				
THU																		
Type of vehicle	6	7	8	9	10	11	12	1	2	3	4	5	6	7	Total			
	-7	-8	-9	-10	-11	-12	-1	-2	-3	-4	-5	-6	-7					
1. Car, Taxi	34	46	14	10	14	15	20	21	16	39	29	33			291			
2. Light goods vehicle	17	20	13	6	11	15	13	17	15	11	23	27			188			
3. Medium goods vehicle	7	12	1	1	2	15	5	4	9	8	6	11			81			
4. Heavy goods vehicle	1	-	-	-	-	-	1	-	-	-	3	2			7			
5. Bus	21	15	1	5	3	8	4	4	4	11	14	15			105			
Total No.	80	93	29	22	30	53	43	46	44	69	75	88			672			
Total No. of pcu	131	135	32	33	38	84	58	58	61	99	115	133			977			

TRAFFIC COUNT SURVEY SHEET

No. \_\_\_\_\_

Date	Station No.	Road/Intersection	Direction										Start time	End time	Surveyor	Inspector	Sheet No.	
4.5.89	32	Mabibo Road	Down										6.00 AM	18.00 PM				
THU																		
Type of vehicle	6	7	8	9	10	11	12	1	2	3	4	5	6	7	Total			
	-7	-8	-9	-10	-11	-12	-1	-2	-3	-4	-5	-6	-7					
1. Car, Taxi	17	29	15	7	13	15	19	23	28	44	47	36			293			
2. Light goods vehicle	9	12	12	6	6	11	17	22	15	15	19	35			179			
3. Medium goods vehicle	2	6	6	3	7	11	4	4	15	10	8	8			84			
4. Heavy goods vehicle	-	2	1	1	-	-	-	1	1	0	-	3			9			
5. Bus	21	11	2	6	3	6	6	4	1	13	16	16			107			
Total No.	49	60	36	23	29	43	46	54	60	82	92	98			672			
Total No. of pcu	93	92	48	40	42	66	62	68	79	118	136	144			988			



TRAFFIC COUNT SURVEY SHEET

No. \_\_\_\_\_

( 17/20 )

Date	Station No.	Road/Intersection	Direction												Start time	End time	Surveyor	Inspector	Sheet No.
3.5.89	33	Old Kigogo Road	Up												6.00 AM	18.00PM			
WED		Kigogo Zone																	
Type of vehicle	6	7	8	9	10	11	12	1	2	3	4	5	6	Total					
	-7	-8	-9	-10	-11	-12	-1	-2	-3	-4	-5	-6	-7						
1. Car, Taxi	17	99	45	18	22	16	23	21	22	44	33	32		392					
2. Light goods vehicle	10	52	37	23	17	13	23	36	28	29	24	39		321					
3. Medium goods vehicle	3	11	12	5	4	5	4	11	7	3	2	8		75					
4. Heavy goods vehicle	0	0	1	1	0	0	0	0	1	-	0	0		3					
5. Bus	10	38	9	6	3	6	6	10	7	21	13	19		148					
Total No.	40	200	104	53	46	40	56	78	65	97	72	88		939					
Total No. of pcu	63	287	136	72	56	57	72	109	88	142	100	144		1316					

TRAFFIC COUNT SURVEY SHEET

No. \_\_\_\_\_

Date	Station No.	Road/Intersection	Direction												Start time	End time	Surveyor	Inspector	Sheet No.
3.5.89	33	Old Kigogo Road	Down												6.00 AM	18.00PM			
WED																			
Type of vehicle	6	7	8	9	10	11	12	1	2	3	4	5	6	Total					
	-7	-8	-9	-10	-11	-12	-1	-2	-3	-4	-5	-6	-7						
1. Car, Taxi	10	43	42	22	23	16	25	36	27	31	31	57		363					
2. Light goods vehicle	12	30	9	16	16	15	23	27	19	29	50	45		291					
3. Medium goods vehicle	4	5	7	8	4	5	4	3	6	11	10	6		73					
4. Heavy goods vehicle	0	-	0	0	1	0	0	0	0	0	0	0		1					
5. Bus	11	23	9	9	3	6	8	12	10	19	17	24		151					
Total No.	37	101	67	55	47	42	60	78	62	90	108	132		879					
Total No. of pcu	63	152	92	81	59	59	80	105	88	139	152	186		1256					

TRAFFIC COUNT SURVEY SHEET

No. \_\_\_\_\_

Date	Station No.	Road/Intersection	Direction												Start time	End time	Surveyor	Inspector	Sheet No.
2.5.89	34	Pugu Road	Up												6.00 AM	18.00PM			
TUE																			
Type of vehicle	6	7	8	9	10	11	12	1	2	3	4	5	6	Total					
	-7	-8	-9	-10	-11	-12	-1	-2	-3	-4	-5	-6	-7						
1. Car, Taxi	60	213	171	193	245	251	219	232	258	263	327	456		2688					
2. Light goods vehicle	91	143	129	130	156	174	156	122	151	213	263	210		1938					
3. Medium goods vehicle	47	72	42	69	75	57	41	73	82	53	25	46		682					
4. Heavy goods vehicle	20	18	6	14	9	7	4	5	5	3	4	4		99					
5. Bus	36	59	67	73	65	54	34	64	69	72	42	45		680					
Total No.	254	505	415	479	550	543	454	496	565	604	661	561		6087					
Total No. of pcu	411	731	603	722	773	722	571	707	795	807	778	705		8327					

TRAFFIC COUNT SURVEY SHEET

No. \_\_\_\_\_

Date	Station No.	Road/Intersection	Direction												Start time	End time	Surveyor	Inspector	Sheet No.
2.5.89	34	Pugu Road	Down												6.00 AM	18.00PM			
TUE																			
Type of vehicle	6	7	8	9	10	11	12	1	2	3	4	5	6	Total					
	-7	-8	-9	-10	-11	-12	-1	-2	-3	-4	-5	-6	-7						
1. Car, Taxi	96	258	257	260	230	244	198	229	288	258	286	247		2861					
2. Light goods vehicle	43	126	180	235	181	217	173	209	123	219	168	158		2032					
3. Medium goods vehicle	29	39	49	70	50	58	45	68	31	68	84	57		668					
4. Heavy goods vehicle	4	3	8	5	5	12	7	3	7	12	14	11		91					
5. Bus	53	106	45	25	68	19	49	25	47	65	92	58		652					
Total No.	225	552	539	595	534	550	472	544	516	622	844	531		6324					
Total No. of pcu	368	829	694	725	730	670	629	660	675	844	940	726		8498					

TRAFFIC COUNT SURVEY SHEET

No. \_\_\_\_\_

Date	Station No.	Road/Intersection	Direction								Start time	End time	Surveyor	Inspector	Sheet No.	
3.5.89	35	Chang'ombe Road	Up								6.00AM	18.00PM				
WED																
Type of vehicle			6	7	8	9	10	11	12	1	2	3	4	5	6	Total
			-7	-8	-9	-10	-11	-12	-1	-2	-3	-4	-5	-6	-7	
1. Car, Taxi			106	286	285	202	206	191	200	191	166	174	242	241		2490
2. Light goods vehicle			45	192	121	107	128	122	103	114	130	166	128	136		1492
3. Medium goods vehicle			14	25	38	37	38	46	36	26	29	28	29	25		371
4. Heavy goods vehicle			5	1	10	12	5	3	9	6	8	8	6	4		71
5. Bus			29	39	50	35	45	28	45	54	17	24	30	36		432
Total No.			199	543	504	393	422	390	393	391	350	400	435	442		4862
Total No. of pcu			281	648	662	524	560	498	537	538	399	492	536	547		6251

( 18/20 )

TRAFFIC COUNT SURVEY SHEET

No. \_\_\_\_\_

Date	Station No.	Road/Intersection	Direction								Start time	End time	Surveyor	Inspector	Sheet No.	
3.5.89	35	Chang'ombe Road	DOWN								6.00 am	18.00pm				
WED																
Type of vehicle			6	7	8	9	10	11	12	1	2	3	4	5	6	Total
			-7	-8	-9	-10	-11	-12	-1	-2	-3	-4	-5	-6	-7	
1. Car, Taxi			70	161	210	178	207	162	240	195	226	269	258	298		2474
2. Light goods vehicle			52	76	76	89	113	121	131	119	124	125	140	120		1286
3. Medium goods vehicle			28	30	66	26	27	33	42	38	53	53	38	26		460
4. Heavy goods vehicle			1	1	8	6	10	7	10	3	7	10	4	8		75
5. Bus			43	84	65	44	53	34	38	38	36	47	50	46		578
Total No.			194	352	425	343	410	357	461	393	446	504	490	498		4873
Total No. of pcu			310	552	637	469	563	472	599	513	585	671	636	632		6639

TRAFFIC COUNT SURVEY SHEET

No. \_\_\_\_\_

Date	Station No.	Road/Intersection	Direction								Start time	End time	Surveyor	Inspector	Sheet No.	
3.5.89	36	Chang'ombe Road	Up								6.00 AM	18.00 PM				
WED																
Type of vehicle			6	7	8	9	10	11	12	1	2	3	4	5	6	Total
			-7	-8	-9	-10	-11	-12	-1	-2	-3	-4	-5	-6	-7	
1. Car, Taxi			61	140	144	98	108	106	108	120	137	115	137	152		1426
2. Light goods vehicle			19	58	45	35	66	47	52	56	70	65	61	63		637
3. Medium goods vehicle			9	23	17	16	18	22	22	26	20	20	30	28		251
4. Heavy goods vehicle			2	3	1	3	1	1	5	2	1	3	4	3		29
5. Bus			35	72	47	46	38	31	33	35	38	43	39	58		515
Total No.			126	296	254	198	231	207	220	239	266	246	271	304		2858
Total No. of pcu			202	459	367	312	327	295	318	333	364	358	387	454		4197

TRAFFIC COUNT SURVEY SHEET

No. \_\_\_\_\_

Date	Station No.	Road/Intersection	Direction								Start time	End time	Surveyor	Inspector	Sheet No.	
3.5.89	36	Chang'ombe Road	Down								6.00 AM	18.00PM				
WED																
Type of vehicle			6	7	8	9	10	11	12	1	2	3	4	5	6	Total
			-7	-8	-9	-10	-11	-12	-1	-2	-3	-4	-5	-6	-7	
1. Car, Taxi			37	87	128	110	96	111	118	138	140	166	146	162		1439
2. Light goods vehicle			7	17	42	42	53	48	63	67	61	67	55	41		563
3. Medium goods vehicle			13	18	18	24	20	21	23	32	28	26	32	20		275
4. Heavy goods vehicle			-	-	3	1	3	1	1	1	1	1	4	2		18
5. Bus			47	56	27	45	43	30	29	41	41	58	49	62		558
Total No.			104	178	248	222	215	211	234	279	271	318	266	287		2853
Total No. of pcu			211	308	386	338	327	294	317	395	383	462	424	435		4280

TRAFFIC COUNT SURVEY SHEET

No. \_\_\_\_\_

( 19/20 )

Date	Station No.	Road/Intersection	Direction										Start time	End time	Surveyor	Inspector	Sheet No.	
2.2.89	37	Mbagala Road	Up										6.00 AM	18.00 PM				
TUE																		
Type of vehicle	6	7	8	9	10	11	12	1	2	3	4	5	6	7	Total			
1. Car, Taxi	34	55	54	52	32	28	52	56	46	73	82	110			683			
2. Light goods vehicle	21	23	31	22	23	18	35	28	27	33	30	46			337			
3. Medium goods vehicle	5	17	21	14	13	16	18	18	12	36	25	58			253			
4. Heavy goods vehicle	1	2	2	2	1	2	2	2	1	4	3	6			28			
5. Bus	42	42	18	13	22	22	26	22	29	38	50	55			379			
Total No.	103	139	126	103	91	86	131	126	115	184	190	284			1680			
Total No. of pcu	194	244	187	147	150	150	207	192	187	304	321	464			2747			

TRAFFIC COUNT SURVEY SHEET

No. \_\_\_\_\_

Date	Station No.	Road/Intersection	Direction										Start time	End time	Surveyor	Inspector	Sheet No.
2/5/89	37	Mbagala Road	Down										6.00 AM	18.00 PM			
TUE																	
Type of vehicle	6	7	8	9	10	11	12	1	2	3	4	5	6	7	Total		
1. Car, Taxi	27	69	51	45	47	26	38	46	49	68	79	88			653		
2. Light goods vehicle	13	46	31	30	31	24	28	27	28	41	39	50			388		
3. Medium goods vehicle	9	18	13	14	13	21	10	21	13	29	21	28			210		
4. Heavy goods vehicle	1	1	1	1	1	1	1	1	1	2	2	2			15		
5. Bus	56	51	27	19	23	20	24	19	31	43	48	42			403		
Total No.	106	205	123	109	115	92	101	114	122	183	189	210			1669		
Total No. of pcu	229	325	192	163	176	155	161	175	199	299	310	326			2715		

TRAFFIC COUNT SURVEY SHEET

No. \_\_\_\_\_

Date	Station No.	Road/Intersection	Direction										Start time	End time	Surveyor	Inspector	Sheet No.
2.5.89	38	Port Access Road	Up										6.00 AM	18.00 PM			
TUE																	
Type of vehicle	6	7	8	9	10	11	12	1	2	3	4	5	6	7	Total		
1. Car, Taxi	8	64	61	57	52	44	51	24	29	50	42	28			510		
2. Light goods vehicle	11	46	63	50	41	37	29	65	67	31	28	25			493		
3. Medium goods vehicle	8	53	54	36	33	46	43	53	39	47	21	16			449		
4. Heavy goods vehicle	8	20	34	63	28	28	19	17	21	20	11	4			273		
5. Bus	15	15	11	12	9	8	6	6	10	11	6	6			115		
Total No.	50	198	223	218	163	163	148	165	166	159	108	79			1640		
Total No. of pcu	104	321	367	404	270	281	241	264	267	288	163	115			3055		

TRAFFIC COUNT SURVEY SHEET

No. \_\_\_\_\_

Date	Station No.	Road/Intersection	Direction										Start time	End time	Surveyor	Inspector	Sheet No.
2.5.89	38	Port Access Road	Down										6.00 AM	18.00 PM			
TUE																	
Type of vehicle	6	7	8	9	10	11	12	1	2	3	4	5	6	7	Total		
1. Car, Taxi	13	34	49	51	37	38	56	66	51	74	41	41			551		
2. Light goods vehicle	6	21	38	41	78	70	40	38	31	36	67	51			517		
3. Medium goods vehicle	1	18	16	46	41	48	50	51	52	57	76	21			477		
4. Heavy goods vehicle	1	5	15	20	28	32	19	20	16	40	60	32			288		
5. Bus	15	8	12	11	10	3	11	7	7	16	4	7			111		
Total No.	36	86	130	169	194	191	176	182	157	223	248	152			1944		
Total No. of pcu	69	130	200	277	311	309	287	287	257	392	452	251			3219		

TRAFFIC COUNT SURVEY SHEET

No. \_\_\_\_\_

Date	Station No.	Road/Intersection	Direction												Start time	End time	Surveyor	Inspector	Sheet No.
17.5.89	39	New Kigogo Road	Up												6.00 AM	18.00PM			
WED																			
Type of vehicle	-7	-8	-9	-10	-11	-12	-1	-2	-3	-4	-5	-6	-7	Total					
1. Car, Taxi	87	325	199	90	125	117	69	112	103	109	187	112		1655					
2. Light goods vehicle	26	107	124	65	74	82	71	68	66	59	132	52		987					
3. Medium goods vehicle	7	19	10	16	17	16	14	18	15	12	32	10		186					
4. Heavy goods vehicle	21	66	37	22	26	11	21	22	25	54	39	48		392					
5. Bus	29	35	18	14	19	8	9	15	10	19	28	23		227					
Total No.	170	552	388	228	261	234	204	255	239	253	418	245		3447					
Total No. of pcu	277	773	508	316	368	288	278	347	324	411	584	367		4841					

( 20/20 )

TRAFFIC COUNT SURVEY SHEET

No. \_\_\_\_\_

Date	Station No.	Road/Intersection	Direction												Start time	End time	Surveyor	Inspector	Sheet No.
17.5.89	39	New Kigogo Road	Down												6.00 AM	18.00 PM			
WED																			
Type of vehicle	-7	-8	-9	-10	-11	-12	-1	-2	-3	-4	-5	-6	-7	Total					
1. Car, Taxi	71	138	138	133	130	92	144	157	75	109	198	121		1506					
2. Light goods vehicle	49	63	60	66	71	79	79	63	63	68	70	46		797					
3. Medium goods vehicle	20	19	17	10	7	12	8	11	16	43	16	18		199					
4. Heavy goods vehicle	9	18	20	22	38	21	30	30	11	16	31	60		306					
5. Bus	32	30	17	11	11	10	12	18	25	29	29	21		245					
Total No.	181	288	252	242	257	214	273	279	194	265	344	266		3053					
Total No. of pcu	283	403	343	318	362	288	365	386	282	398	480	445		4354					

## TRAFFIC COUNT SURVEY SHEET

Date: 10/5/1989

NO. \_\_\_\_\_

Date	Station NO	Road/Intersection	Direction	Start Time	End Time	Surveyor	Inspector	Sheet NO							
10/5	20	Morogoro Road	Up	6:00AM	18:00										
WED															
Type of Vehicle	6	7	8	9	10	11	12	1	2	3	4	5	6	7	Total
	-7	-8	-9	-10	-11	-12	-1	-2	-3	-4	-5	-6	-7		
1. Car, Taxi	216	704	523	379	385	398	330	407	381	419	445	444			5031
2. Light Goods Vehicle	59	215	207	176	173	144	177	189	186	166	147	117			1956
3. Medium Goods Vehicle	12	29	52	36	22	27	24	14	30	29	22	20			317
4. Heavy Goods Vehicle	15	56	2	5	7	27	11	9	21	19	17	20			209
5. Bus	115	167	174	138	127	125	148	135	141	137	145	142			1694
Total NO.	417	1171	958	734	714	721	690	754	759	770	776	743			9207
Total NO. of pcu	689	1646	1362	1056	1004	1052	1032	1056	1113	1111	1122	1087			13330

## TRAFFIC COUNT SURVEY SHEET

Date: 10/5/1989

NO. \_\_\_\_\_

Date	Station NO	Road/Intersection	Direction	Start Time	End Time	Surveyor	Inspector	Sheet NO							
10/5	20	Morogoro Road	Down	6:00AM	18:00										
WED															
Type of Vehicle	6	7	8	9	10	11	12	1	2	3	4	5	6	7	Total
	-7	-8	-9	-10	-11	-12	-1	-2	-3	-4	-5	-6	-7		
1. Car, Taxi	137	323	404	373	401	378	425	407	448	473	501	534			4804
2. Light Goods Vehicle	81	176	155	129	133	187	213	148	141	178	219	226			1986
3. Medium Goods Vehicle	19	26	26	21	21	37	34	21	19	26	22	33			307
4. Heavy Goods Vehicle	6	9	5	19	25	19	24	38	31	24	34	20			254
5. Bus	118	141	125	121	118	150	126	118	130	170	117	152			1586
Total NO.	628	1001	1001	964	1005	1146	1156	1065	1110	1289	1217	1342			12924
Total NO. of pcu	689	1646	1362	1056	1004	1052	1032	1056	1113	1111	1122	1087			13330

## TRAFFIC COUNT SURVEY SHEET

Date: 11/5/1989

NO. \_\_\_\_\_

Date	Station NO	Road/Intersection	Direction	Start Time	End Time	Surveyor	Inspector	Sheet NO							
11/5	20	Morogoro Road	Up	6:00AM	18:00										
THU															
Type of Vehicle	6	7	8	9	10	11	12	1	2	3	4	5	6	7	Total
	-7	-8	-9	-10	-11	-12	-1	-2	-3	-4	-5	-6	-7		
1. Car, Taxi	257	756	557	402	403	388	456	416	413	364	448	419			5279
2. Light Goods Vehicle	65	221	202	184	192	130	171	206	130	153	174	174			2002
3. Medium Goods Vehicle	15	29	23	24	32	23	20	27	10	8	34	26			271
4. Heavy Goods Vehicle	12	53	40	20	21	30	23	14	19	17	10	15			274
5. Bus	255	159	154	127	131	118	132	145	126	141	169	191			1848
Total NO.	604	1218	976	757	779	689	802	808	698	683	835	825			9674
Total NO. of pcu	1153	1671	1387	1075	1115	1008	1132	1153	998	1007	1227	1263			14189

## TRAFFIC COUNT SURVEY SHEET

Date: 11/5/1989

NO. \_\_\_\_\_

Date	Station NO	Road/Intersection	Direction	Start Time	End Time	Surveyor	Inspector	Sheet NO							
11/5	20	Morogoro Road	Down	6:00AM	18:00										
THU															
Type of Vehicle	6	7	8	9	10	11	12	1	2	3	4	5	6	7	Total
	-7	-8	-9	-10	-11	-12	-1	-2	-3	-4	-5	-6	-7		
1. Car, Taxi	159	340	113	371	394	421	378	401	401	393	544	496			4411
2. Light Goods Vehicle	87	169	162	146	156	185	182	178	178	156	172	179			1950
3. Medium Goods Vehicle	13	34	40	24	15	24	32	25	25	25	15	19			291
4. Heavy Goods Vehicle	8	10	9	19	33	13	13	27	27	27	34	50			270
5. Bus	136	137	114	138	102	154	127	127	127	120	143	148			1573
Total NO.	403	690	438	698	700	797	732	758	758	721	908	892			8495
Total NO. of pcu	704	1018	724	1036	985	1155	1044	1091	1091	1040	1277	1307			12472

TRAFFIC COUNT SURVEY SHEET

No. \_\_\_\_\_

( 2/3 )

Date	Station No.	Road/Intersection	Direction										Start time	End time	Surveyor	Inspector	Sheet No.
12.5.89	20	Morogoro Road	Up										6.00 AM	18.00 PM			
FRI																	
Type of vehicle	6	7	8	9	10	11	12	1	2	3	4	5	6		Total		
	-7	-8	-9	-10	-11	-12	-1	-2	-3	-4	-5	-6	-7				
1. Car, Taxi	226	701	653	393	378	408	398	363	526	436	422	383		5287			
2. Light goods vehicle	81	207	184	174	206	201	171	133	157	149	152	191		1966			
3. Medium goods vehicle	13	19	29	17	26	30	20	18	18	22	19	11		242			
4. Heavy goods vehicle	16	47	62	30	17	24	19	30	24	28	18	15		330			
5. Bus	144	198	165	133	127	123	143	121	126	133	170	158		1741			
Total No.	480	1172	1093	747	754	786	751	665	651	768	781	718		9566			
Total No. of pcu	813	1681	1576	1090	1068	1110	1095	985	1169	1112	1176	1025		11894			

TRAFFIC COUNT SURVEY SHEET

No. \_\_\_\_\_

Date	Station No.	Road/Intersection	Direction										Start time	End time	Surveyor	Inspector	Sheet No.
12.5.89	20	Morogoro Road	Down										6.00 AM	18.00 PM			
FRI																	
Type of vehicle	6	7	8	9	10	11	12	1	2	3	4	5	6		Total		
	-7	-8	-9	-10	-11	-12	-1	-2	-3	-4	-5	-6	-7				
1. Car, Taxi	116	316	467	349	398	404	445	301	416	442	562	577		4793			
2. Light goods vehicle	86	157	171	167	169	148	176	131	210	196	201	213		2025			
3. Medium goods vehicle	14	30	25	36	14	24	26	30	20	30	34	29		312			
4. Heavy goods vehicle	7	18	18	16	24	30	16	24	36	33	40	48		310			
5. Bus	129	167	118	120	128	120	131	111	126	123	152	133		1558			
Total No.	352	688	799	688	733	726	794	597	808	824	989	1000		8998			
Total No. of pcu	638	1088	1056	996	1051	1050	1114	837	1152	1166	1407	1391		11830			

TRAFFIC COUNT SURVEY SHEET

No. \_\_\_\_\_

Date	Station No.	Road/Intersection	Direction										Start time	End time	Surveyor	Inspector	Sheet No.
13.5.89	20	Morogoro Road	Up										6.00 AM	18.00 PM			
SAT																	
Type of vehicle	6	7	8	9	10	11	12	1	2	3	4	5	6		Total		
	-7	-8	-9	-10	-11	-12	-1	-2	-3	-4	-5	-6	-7				
1. Car, Taxi	184	514	445	443	411	384	462	323	436	432	302	293		4629			
2. Light goods vehicle	48	224	241	247	174	215	241	122	124	119	191	145		2111			
3. Medium goods vehicle	19	16	45	31	21	12	27	20	20	21	31	17		280			
4. Heavy goods vehicle	12	39	22	16	10	6	26	14	23	15	13	7		205			
5. Bus	160	193	168	162	147	129	163	87	137	128	155	155		1784			
Total No.	423	996	921	899	783	745	921	568	740	715	692	617		9009			
Total No. of pcu	786	1466	1346	1286	1118	1028	1330	786	1080	1022	1059	958		13267			

TRAFFIC COUNT SURVEY SHEET

No. \_\_\_\_\_

Date	Station No.	Road/Intersection	Direction										Start time	End time	Surveyor	Inspector	Sheet No.
13.5.89	20	Morogoro Road	Down										6.00 AM	18.00 PM			
SAT																	
Type of vehicle	6	7	8	9	10	11	12	1	2	3	4	5	6		Total		
	-7	-8	-9	-10	-11	-12	-1	-2	-3	-4	-5	-6	-7				
1. Car, Taxi	122	297	417	407	391	467	455	402	383	446	385	413		4585			
2. Light goods vehicle	77	173	127	161	185	163	238	212	237	190	149	135		2047			
3. Medium goods vehicle	17	31	21	26	46	19	25	21	19	22	23	11		281			
4. Heavy goods vehicle	9	7	20	25	11	32	49	15	13	19	22	19		229			
5. Bus	142	142	143	144	140	124	163	121	155	131	131	154		1650			
Total No.	367	650	788	763	773	792	930	778	807	808	710	732		8832			
Total No. of pcu	686	979	1075	1127	1121	1097	1379	1067	1162	1130	1039	1089		12951			



(3) 24hr Traffic Count

TRAFFIC COUNT SURVEY SHEET

No. \_\_\_\_\_

Date	Station No.	Road/Intersection	Direction										Start time	End time	Surveyor	Inspector	Sheet No.
12.5.89	20	Morogoro Road	Up										18.00 PM	6.00 AM			
FRI																	
Type of vehicle	6	7	8	9	10	11	12	1	2	3	4	5	6	Total			
	-7	-8	-9	-10	-11	-12	-1	-2	-3	-4	-5	-6	-7				
1. Car, Taxi	387	335	285	142	124	81	39	28	23	17	13	19		1493			
2. Light goods vehicle	110	112	49	59	30	19	12	5	1	1	7	23		428			
3. Medium goods vehicle	2	31	4	9	5	7	8	4	1	3	4	4		85			
4. Heavy goods vehicle	6	10	0	0	1	0	1	0	0	0	1	2		21			
5. Bus	10	43	26	44	39	27	16	5	2	3	19	68		303			
Total No.	515	531	364	254	200	134	75	43	27	24	44	116		2328			
Total No. of pcu	549	668	420	351	266	195	118	59	32	33	88	260		11894			

TRAFFIC COUNT SURVEY SHEET

No. \_\_\_\_\_

Date	Station No.	Road/Intersection	Direction										Start time	End time	Surveyor	Inspector	Sheet No.
12.5.89	20	Morogoro Road	Down										18.00 PM	6.00 AM			
FRI																	
Type of vehicle	6	7	8	9	10	11	12	1	2	3	4	5	6	Total			
	-7	-8	-9	-10	-11	-12	-1	-2	-3	-4	-5	-6	-7				
1. Car, Taxi	453	341	269	196	159	114	55	17	26	18	25	45		1718			
2. Light goods vehicle	154	96	83	61	22	13	7	2	5	1	0	12		456			
3. Medium goods vehicle	27	22	15	13	0	1	2	1	2	2	0	2		85			
4. Heavy goods vehicle	1	3	2	0	1	0	-	0	0	0	0	2		9			
5. Bus	143	151	105	56	11	7	10	9	9	8	11	44		564			
Total No.	778	613	472	326	193	135	74	29	42	29	36	105		2832			
Total No. of pcu	1093	943	699	451	277	150	96	48	62	47	58	199		11830			



Appendix 3-6: Present Traffic Volume ( ADT ) and Congestion Ratio on Each Survey Station

Station No. Date Road Name Direction	1 16.5.89 (Tue) OCEAN ROAD BOTH		2 3.5.89 (Wed) UPANGA BOTH		3 4.5.89 (Thu) U. N. ROAD BOTH		4 5.5.89 (Fri) UHURU STREET BOTH		5 4.5.1989 (Thursday) PUGU ROAD UP DOWN BOTH			
	Observation Value											
1. Car, Taxi	7009	8414	4566	7185	6964	6758	13722					
2. Light Goods	2379	3265	2148	4306	4728	4265	8993					
3. Medium Goods	118	552	208	986	830	749	1579					
4. Heavy Goods	89	46	12	220	173	145	318					
5. Bus	246	831	340	2113	1137	1047	2184					
T o t a l	9841	13108	7274	14810	13832	12964	26791					
PCU (Value)												
1. Car, Taxi	7009	8414	4566	7185	6964	6758	13722					
2. Light Goods	2379	3265	2148	4306	4728	4265	8993					
3. Medium Goods	236	1100	420	1972	1660	1498	3158					
4. Heavy Goods	267	138	36	660	519	435	954					
5. Bus	738	2493	1020	6339	3411	3141	6552					
T o t a l	10629	15410	8186	20464	17282	16097	33379					
ADT (Value)												
1. Car, Taxi	9253	11059	6117	9202	8490	9883	18373					
2. Light Goods	2860	4130	2712	5348	5946	5408	11354					
3. Medium Goods	263	1353	574	2744	2098	1961	4059					
4. Heavy Goods	419	163	46	530	519	622	1141					
5. Bus	885	3705	1241	7818	3441	4272	7713					
T o t a l	13680	20410	10690	25642	20494	22146	42640					
Capacity	18000	13400	17300	13400	26300	26300	52600					
Congestion Rate	0.76	1.52	0.62	1.91	0.78	0.84	0.81					

Station No. Date Road Name Direction	6 5.5.89 (Fri) BANDARI ST. BOTH	7 4.5.89 (Thu) MOROCCO ROAD BOTH	8 5.5.89 (Thu) MOROGORO RD. BOTH	9 5.5.1989 (Thursday) PORT ACCESS ROAD UP DOWN BOTH
Observation Value				
1. Car, Taxi	6374	5049	2960	1866 1589 3455
2. Light Goods	2744	1479	3339	1665 1631 3296
3. Medium Goods	1209	648	968	801 817 1618
4. Heavy Goods	227	85	130	248 218 466
5. Bus	879	467	2703	367 331 698
T o t a l	11433	7728	13100	4947 4586 9533
PCU Value				
1. Car, Taxi	6374	5049	5960	1866 1589 3455
2. Light Goods	2744	1479	3339	1665 1631 3296
3. Medium Goods	2418	1296	1936	1602 1634 3236
4. Heavy Goods	681	255	390	744 654 1398
5. Bus	2637	1401	8109	1101 993 2094
T o t a l	14854	9480	19734	6778 6501 13479
ADT (Value)				
1. Car, Taxi	8134	6782	7609	2254 2140 4394
2. Light Goods	3416	1867	4156	2116 1986 4102
3. Medium Goods	3363	1763	2717	2526 1995 4521
4. Heavy Goods	548	313	314	615 510 1125
5. Bus	3222	1683	9923	1182 1365 2547
T o t a l	18683	12408	24719	8693 7996 16689
Capacity	14700	12100	14700	30100 30100 60200
Congestion Rate	1.27	1.02	1.68	0.29 0.27 0.28

Station No. Date Road Name Direction	10 4. 5. 1989 (Thursday) PORT ACCESS		11 4.5.89 (Thu) KILWA ROAD BOTH	12 9.5.89 (Tue) SAMORA AVE. BOTH	13 9.5.89 (Tue) OHIO STREET BOTH	14 9.5.89 (Tue) MAKITABA ST. BOTH
	UP	DOWN				
Observation Value						
1. Car, Taxi	1282	1228	1228	3593	6660	7498
2. Light Goods	808	784	1109	179	2152	3137
3. Medium Goods	607	609	854	62	307	220
4. Heavy Goods	244	227	159	4	27	34
5. Bus	221	204	471	39	814	1387
T o t a l	3162	3052	3821	3877	9960	12276
PCU (Value)						
1. Car, Taxi	1282	1228	1228	3593	6660	7498
2. Light Goods	808	784	1109	179	2152	3137
3. Medium Goods	1214	1218	1708	124	603	440
4. Heavy Goods	732	681	477	12	81	102
5. Bus	663	612	1413	117	2442	4161
T o t a l	4699	4523	5935	3125	11949	15338
ADT (Value)						
1. Car, Taxi	1563	1796	1640	4743	8771	9898
2. Light Goods	1016	994	1401	215	2585	3766
3. Medium Goods	1713	1595	2324	138	685	491
4. Heavy Goods	732	974	594	19	128	157
5. Bus	669	832	1677	143	2980	5015
T o t a l	5693	6191	7636	5258	15169	19327
Capacity	30100	30100	17300	12600	13500	15300
Congestion Rate	0.19	0.21	0.44	0.42	1.12	1.26

Station No. Date Road Name Direction	15 2.5.89 (Tue) SAMORA AVE. BOTH	16 3.5.89 (Wed) MOROGORO RD. BOTH	17 4. 5. 1989 (Thursday) U. W. T. STREET UP DOWN BOTH		18 5.5.89 (Fri) SOKOINE DRV. BOTH	19 9.5.89 (Tue) UHURU STREET BOTH
Observation Value						
1. Car, Taxi	6939	5599	5313	4713	8608	6611
2. Light Goods	2620	2469	2340	1872	3571	2933
3. Medium Goods	100	122	281	267	578	537
4. Heavy Goods	15	15	32	85	52	54
5. Bus	243	260	368	476	1741	1159
T o t a l	9917	8465	8334	7413	15747	11290
PCU (Value)						
1. Car, Taxi	6939	5599	5313	4713	8608	6611
2. Light Goods	2620	2469	2340	1872	3571	2933
3. Medium Goods	200	244	562	534	1156	1074
4. Heavy Goods	45	45	96	255	156	162
5. Bus	729	780	1104	1428	5223	3477
T o t a l	10533	9137	9415	8802	18217	14257
ADT (Value)						
1. Car, Taxi	9159	7332	6477	6893	10990	8726
2. Light Goods	3148	3126	2943	2373	4442	3520
3. Medium Goods	223	301	793	699	1623	1197
4. Heavy Goods	69	55	95	364	126	265
5. Bus	881	1133	1114	1942	6465	4209
T o t a l	13480	11947	11422	12271	23646	17917
Capacity	12600	11800	30400	30400	12600	13400
Congestion Rate	1.07	1.01	0.38	0.40	1.88	1.34

Station No. Date Road Name Direction	20 09.05.1989 (TUESDAY) MOROGORO ROAD		21 05.05.1989 (Friday) MSIMBAZI STREET		22 09.05.1989 (TUESDAY) GEREZANI STREET	
	UP	DOWN	BOTH	BOTH	BOTH	BOTH
Observation Value						
1. Car, Taxi	4990	4913	4903	4862	4694	
2. Light Goods	2081	2078	4159	2214	2744	
3. Medium Goods	340	347	687	688	1127	
4. Heavy Goods	234	122	356	60	271	
5. Bus	1621	1641	3262	2790	538	
T o t a l	9266	9101	18367	10614	9374	
PCU (Value)						
1. Car, Taxi	4990	4913	9903	4862	4694	
2. Light Goods	2081	2078	4159	2214	2744	
3. Medium Goods	680	694	1374	1376	2254	
4. Heavy Goods	702	366	1068	180	813	
5. Bus	4863	4923	9786	8370	1614	
T o t a l	13316	12974	26290	17002	12119	
ADT (Value)						
1. Car, Taxi	6585	6487	13072	6242	6195	
2. Light Goods	2514	2482	4996	2756	3294	
3. Medium Goods	766	766	1532	1931	2513	
4. Heavy Goods	818	725	1543	146	1271	
5. Bus	5578	6376	11954	10258	1968	
T o t a l	16261	16836	33097	21333	15241	
Capacity	26300	26300	52600	16400	13000	
Congestion Rate	0.62	0.64	0.63	1.30	1.17	

Station No. Date Road Name Direction	23 4.5.89 (Thu) BAGAMOYO RD BOTH	24 3.5.89 (Wed) HAILE SEL. RD BOTH	25 2.5.89 (Tue) O. BAGAMOYO RD BOTH	26 3.5.89 (Wed) KINONDONI RD BOTH	27 5.5.89 (Fri) MWINJUMA RD BOTH	28 5.5.89 (Fri) BAGAMOYO RD BOTH	29 3.5.89 (Wed) OYSTERBAY BOTH
Observation Value							
1. Car, Taxi	9424	3730	3019	4807	2433	4273	3429
2. Light Goods	4146	1298	1443	1770	619	2532	283
3. Medium Goods	454	248	238	298	247	474	141
4. Heavy Goods	314	93	39	14	41	614	5
5. Bus	280	142	105	929	288	585	16
T o t a l	14618	5511	4844	7818	3628	8478	3874
PCU (Value)							
1. Car, Taxi	9424	3730	3019	4807	2433	4273	3429
2. Light Goods	4146	1298	1443	1770	619	2532	283
3. Medium Goods	908	496	476	596	494	948	283
4. Heavy Goods	942	279	117	42	123	1842	15
5. Bus	840	426	315	2787	864	1755	48
T o t a l	16260	6229	5370	10002	4533	11350	4048
ADT (Value)							
1. Car, Taxi	12668	4902	3985	6308	6050	5474	4500
2. Light Goods	5235	1639	1734	2238	771	3156	360
3. Medium Goods	1238	606	530	731	701	1374	343
4. Heavy Goods	1164	332	172	50	99	1470	16
5. Bus	1007	630	396	4158	1053	2155	73
T o t a l	21312	8109	6817	13485	8674	13629	5292
Capacity	13000	11500	12400	16300	10200	13000	11500
Congestion Rate	1.64	0.71	0.55	0.83	0.85	1.05	0.46

Station No. Date Road Name Direction	30 2.5.89 (Tue) SHEKILANGO RD BOTH		31 2.5.89 (Tue) MPAKANI ROAD BOTH		32 4.5.89 (Thu) MABIBO ROAD BOTH		33 3.5.89 (Wed) KIGOGO ROAD BOTH		34 2.5.89 (Tue) PUGU ROAD UP DOWN BOTH			
	Observation Value											
1. Car, Taxi	3162	1716	584	755	2688	2861	5549	2688	2861	5549		
2. Light Goods	787	1404	367	592	1938	2032	3970	1938	2032	3970		
3. Medium Goods	355	817	165	148	682	688	1370	682	688	1370		
4. Heavy Goods	58	149	16	4	99	91	190	99	91	190		
5. Bus	160	348	212	299	680	652	1332	680	652	1332		
T o t a l	4522	4434	1344	1818	6087	6324	12411	6087	6324	12411		
PCU (Value)												
1. Car, Taxi	3162	1716	584	755	2688	2861	5549	2688	2861	5549		
2. Light Goods	787	1404	367	612	1938	2032	3970	1938	2032	3970		
3. Medium Goods	710	1634	330	296	1364	1376	2740	1364	1376	2740		
4. Heavy Goods	174	447	48	12	297	273	570	297	273	570		
5. Bus	480	1044	636	897	2040	1956	3996	2040	1956	3996		
T o t a l	5313	6245	1965	2572	8327	8498	16825	8327	8498	16825		
ADT (Value)												
1. Car, Taxi	4174	2265	784	991	3547	3778	7325	3547	3778	7325		
2. Light Goods	944	1687	963	775	2341	2426	4767	2341	2426	4767		
3. Medium Goods	792	1823	448	362	1536	1520	3056	1536	1520	3056		
4. Heavy Goods	274	693	60	12	346	540	886	346	540	886		
5. Bus	598	1267	755	1342	2340	2533	4873	2340	2533	4873		
T o t a l	6782	7735	2510	3482	10110	10757	20907	10110	10757	20907		
Capacity	10200	19900	11500	10200	26300	26300	52600	26300	26300	52600		
Congestion Rate	0.66	0.39	0.22	0.34	0.38	0.41	0.40	0.38	0.41	0.40		

Station No.	35 3.5.89 (Wed) CHANG'OMBE RD BOTH	36 3.5.89 (Wed) CHANG'OMBE RD BOTH	37 2.5.89 (Tue) MBAGALA ROAD BOTH	38 02.5.1989 (Tuesday) PORT ACCESS ROAD UP DOWN		39 17.5.89 (Wed) KIGOGO ROAD BOTH
Observation Value						
1. Car, Taxi	4964	2865	1336	510	551	3161
2. Light Goods	2778	1200	725	493	517	1784
3. Medium Goods	831	526	463	449	477	385
4. Heavy Goods	152	47	43	273	288	637
5. Bus	1010	1073	782	115	111	472
T o t a l	9735	5711	3349	1840	1944	6500
PCU (Value)						
1. Car, Taxi	4964	2865	1336	510	551	3161
2. Light Goods	2778	1200	725	493	517	1784
3. Medium Goods	1662	1052	926	898	954	770
4. Heavy Goods	456	141	129	819	864	2064
5. Bus	3030	3219	2346	345	333	1416
T o t a l	12890	8477	5462	3065	3219	9195
ADT (Value)						
1. Car, Taxi	6519	3466	1780	673	727	4146
2. Light Goods	3514	1518	889	596	617	2257
3. Medium Goods	2040	1291	1093	1011	1054	946
4. Heavy Goods	529	169	143	954	1712	2427
5. Bus	4470	4800	2932	396	431	2113
T o t a l	17072	11244	6837	3630	4541	11889
Capacity	14100	14100	11500	30100	30100	10500
Congestion Rate	1.21	0.80	0.59	0.12	0.15	1.13



## Appendix 3-7: Traffic Capacity Calculation Formula

The method of calculations are shown the following formula applied the Road Capacity Manual of Japan.

### 1. Possible Capacity

1) a single carriageway

$$C = 2,500 r_L \cdot r_C \cdot r_N \cdot r_I \text{ (p.c.u/h)}$$

2) a dual carriageway

$$C = 2,200 r_L \cdot r_C \cdot r_N \cdot r_I \times N \text{ (p.c.u/h)}$$

C : possible capacity

$r_L$  : adjustment factor of lane width

$r_C$  : " of lateral clearance

$r_N$  : " of including motor cycle and bicycle

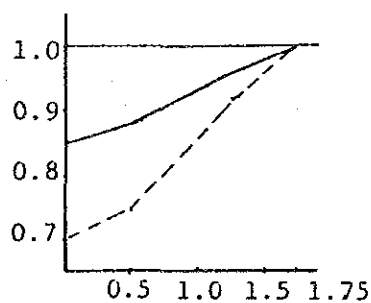
$r_I$  : " of roadside conditions

N : No. of lanes.

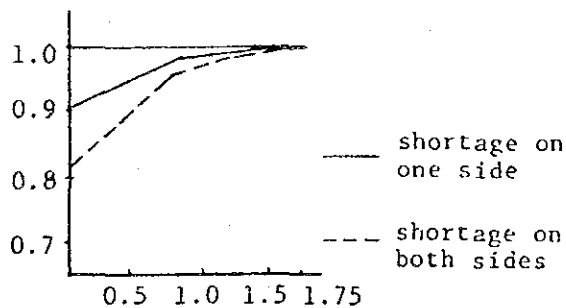
- Adjustment for lane width ( $r_L$ )

lane width (m)	( $r_L$ ) Adjustment Factor
3.50	1.00
3.25	0.94
3.00	0.85
2.75	0.77

- Adjustment for lateral clearance ( $r_C$ )



lateral clearance (m)  
(a single carriageway)



lateral clearance (m)  
(a dual carriageway)

- Adjustment for mixing of motorcycle and bicycle ( $r_N$ )

$$r_N = \frac{100}{100 + \alpha P_m + \beta \cdot P_B}$$

$r_N$  : adjustment factor for including motor cycle and bicycle

$\alpha$  : conversion factors for passenger car in motor cycle

$P_m$  : percentage of motor cycle (%)

$\beta$  : conversion factors for passenger car in bicycle

$P_B$  : percentage of bicycle (%)

- Adjustment for roadside condition ( $r_I$ )

(1) Adjustment Factor for roadside conditions

Roadside conditions	No. of lanes	
	2 lanes	Multi-lane
· free way	1.00	1.00
· mountainous area	0.90	0.95
· level terrain	0.85	0.90
· urban area	0.70	0.75

(2) Adjustment Factor for roadside conditions

Degree of urbanization	adjustment
Rural area	1.0 ~ 0.9
Suburb	0.9 ~ 0.8
Urban area	0.8 ~ 0.7

2. Design Capacity

$$C_D = C \times r_p$$

$C_D$  : Design Capacity (p.c.u./h)

$C$  : Possible Capacity (p.c.u./h)

$r_p$  : reduced ratio for Level of Service

Level of Service	Adjustment factor for Level of Service	
	rural area	urban area
1	0.75	0.80
2	0.85	0.90
3	1.00	1.00

3. Calculation of Daytime 12 hours Traffic Capacity

(Multi-lane road)

$$C_{12} = \frac{C_D/2}{(K/100) \times (D/100)} = C_D \times \frac{5,000}{K \times D}$$

(Single carriageway road)

$$C_{12} = \frac{C_D}{K/100} = C_D \times \frac{100}{K}$$

where  $C_{12}$ : Daytime 12 hrs traffic capacity

$C_D$  : Design Capacity (p.c.u./h)

$K$  : Percentage of 30th hourly volume in year within average daytime 12 hrs traffic.

$D$  : Percentage of heavy direction in peak hour traffic

K-value

$$K = \frac{a \times Q_p + b}{Q_{12}} \times 100$$

where K : Percentage of 30 th hourly volume in Average Annual Daytime 12 hrs. Traffic

Q<sub>p</sub> : Peak hour traffic (p.c.u./h)

Q<sub>12</sub> : Daytime 12 hrs. traffic (p.c.u./12 hrs)

a,b : parameter

Roadside condition	a	b
Urban area	1.12	20.4
Level terrain	1.06	167.5
Mountainous terrain	1.01	377.6

On this Study, from observation values the following K-values are using.

Classification	K-Value
1.CBD Area all road (Inside UWT road)	10.6
2.Urban Area arterial road (Outside UWT road)	11.0
3. -ditto- collector road	13.1

D-value

$$D = \frac{\max (P_u, P_d)}{P_u + P_d} \times 100$$

where D : Percentage of heavy direction in peak  
hour traffic

$P_u$  : Up-stream traffic in peak hour (p.c.u./h)

$P_d$  : Down-stream traffic in peak hour (p.c.u./h)

On this Study, from observation values the following D-values  
are using.

Classification	D-Value
1.CBD Area (Inside UWT road)	57.5
2.Urban Area (Outside UWT road)	64.0

Traffic Capacity Calculation on Each Road (1/3)

Link No.	Name of Roads	No. of Lane (N)	Lane Width (m)	( $\alpha_L$ )	( $\alpha_C$ )	( $\alpha_N$ )	( $\alpha_I$ )	(2 Lane) $C=2,500 \cdot \alpha_L \cdot \alpha_C \cdot \alpha_N$ (4 Lane & more) $C=2,200 \cdot \alpha_L \cdot \alpha_C \cdot \alpha_N$	( $\alpha_F$ )	$C_D = C \cdot \alpha_F$	K	D	(2 Lane) $C12=C_D \cdot 100$ (4 Lane & more) $C12=C_D \cdot 5,000$ K.D	Capacity (24hours)
1-1	Bagamoyo Road	4	3.25	0.94	1.00	1.00	0.70	5790	1.00	5790	11.0	64.0	41125	52600
1-1	Bagamoyo Road	2	3.00	0.85	0.75	1.00	0.70	1116	1.00	1116	11.0	64.0	10145	13600
1-2	Morrocco Road	2	3.00	0.85	0.70	1.00	0.70	1041	1.00	1041	11.0	-	9466	12100
1-3	Kinondoni Road	2	3.25	0.94	0.85	1.00	0.70	1398	1.00	1398	11.0	-	12711	16300
1-4	Morogoro Road	4	3.25	0.94	1.00	1.00	0.70	5790	1.00	5790	11.0	64.0	41125	52600
1-4	Morogoro Road	2	2.75 3.25	0.77 0.94	0.75 0.75	1.00	0.70	1263 1010	1.00	1263 1010	11.0	64.0	11494 9188	14700 11800
1-5	United Nation Road	2	3.50	1.00	0.85	1.00	0.70	1488	1.00	1488	11.0	-	13523	17300
1-6	UWT Road	4	3.25	0.94	1.00	1.00	0.70	5790	1.00	5790	10.6	57.5	47501	60800
1-7	Fort Access Road	4	3.25	0.94	1.00	1.00	0.80	6618	1.00	6618	11.0	64.0	47003	60200
1-8	Bandari Road	2	3.00	0.85	0.65	1.00	0.70	1264	1.00	1264	11.0	-	11494	14700
1-9	Kilwa Road	2	3.00	0.85	1.00	1.00	0.70	1488	1.00	1488	11.0	-	13518	17300
1-10	Uhuru Road	2	3.25	0.94	0.70	1.00	0.70	1152	1.00	1152	11.0	-	10473	13400
1-10	Uhuru Road	4	3.25	0.94	0.90	1.00	0.75	5584	1.00	5584	11.0	64.0	39659	50800
1-11	Msimbazi Road	2	3.00	0.85	0.75	1.00	0.70	1413	1.00	1413	11.0	64.0	12845	16400
1-12	Npakani Road	2	3.25	0.94	1.00	1.00	0.70	1645	1.00	1645	10.6	-	15519	19900
1-13	Upanga Road	2	3.25	0.94	0.70	1.00	0.70	1152	1.00	1152	11.0	-	10473	13400
1-14	Pugu Road	4	3.25	0.94	1.00	1.00	0.70	5790	1.00	5790	11.0	64.0	41125	52600
1-15-1	Nkarumah Street	2	3.50	1.00	0.75	1.00	0.70	1313	1.00	1313	10.6	-	12387	15900
1-15-2	Samora Avenue	2	3.00	0.85	0.70	1.00	0.70	1041	1.00	1041	10.6	-	9821	12600
1-15-3	Sokoine (City) Drive	2	3.00	0.85	0.70	1.00	0.70	1041	1.00	1041	10.6	-	9821	12600
1-15-4	Gerozani Street	2	3.00 3.50	0.85 1.00	0.70 0.70	1.00	0.70	1116 1575	1.00	1116 1575	11.0	-	10142 14318	13000 19300
1-15-5	Kivukoni Front	2	3.00 2.75	0.85 0.77	0.70 0.70	1.00	0.70	1413 943	1.00	1413 943	10.6	-	13330 8899	17100 11400



Traffic Capacity Calculation on Each Road (3/3)

Link No.	Name of Roads	No. of Lane (N)	Lane Width (M)	( $x_L$ )	( $x_C$ )	( $x_N$ )	( $x_I$ )	(2 Lane) C=2,500. $x_L$ . $x_C$ . $x_N$ (4 Lane & more) C=2,200. $x_L$ . $x_C$ . $x_N$	( $x_P$ )	$C_D = C \cdot x_P$	K	D	(2 Lane) C12=C <sub>D</sub> . $\frac{100}{K}$ (4 Lane & more) C12=C <sub>D</sub> . $\frac{5,000}{K \cdot D}$	Capacity (24hours)
2-1	Old Bagamoyo Road	2	3.25	0.94	0.75	1.00	0.80	1410	0.90	1269	13.1	-	9687	12400
2-2	Haile Sillasiie Road	2	2.75	0.77	0.85	1.00	0.80	1309	0.90	1178	13.1	-	8992	11500
2-3	Toure Drive	2	2.75	0.77	0.85	1.00	0.80	1309	0.90	1178	13.1	-	8992	11500
2-4	Bongoyo Road	2	2.75	0.77	0.85	1.00	0.80	1309	0.90	1178	13.1	-	8992	11500
2-5	Sheklango Road	2	2.75	0.77	0.75	1.00	0.80	1155	0.90	1040	13.1	-	7939	10200
2-7	Mwinjuma Road	2	2.75	0.77	0.75	1.00	0.80	1156	0.90	1040	13.1	-	7939	10200
2-8	Malanya Road	2	2.75	0.77	0.75	1.00	0.80	1155	0.90	1040	13.1	-	7939	10200
2-9	University Road	2	3.00	0.85	0.85	1.00	0.80	1445	0.90	1300	13.1	-	9924	12700
2-10	Kigogo C-1 Road	2	2.75	0.77	0.85	1.00	0.80	1309	0.90	1178	13.1	-	8992	11500
2-11	Kigogo C-2 Road	2	2.75	0.77	0.75	1.00	0.80	1155	0.90	1040	13.1	-	7939	10200
2-12	Kigogo C-3 Road	2	2.75	0.77	0.75	1.00	0.80	1155	0.90	1040	13.1	-	7939	10200
2-13	Old Kigogo Road	2	2.75	0.77	0.85	1.00	0.80	1309	0.90	1178	13.1	-	8992	11500
2-14	Kagera Street	2	3.00	0.85	0.85	1.00	0.80	1445	0.90	1300	13.1	-	9924	12700
2-15	Mikumi Street	2	3.00	0.85	0.85	1.00	0.80	1445	0.90	1300	13.1	-	9924	12700
2-16	New Kigogo Road	2	3.00	0.85	0.70	1.00	0.80	1190	0.90	1071	13.1	-	8176	10500
2-17	Changombe Road	2	3.25	0.94	0.85	1.00	0.80	1598	0.90	1438	13.1	-	10977	14100
2-18	Temeke Street	2	2.75	0.77	0.85	1.00	0.80	1309	0.90	1178	13.1	-	8992	11500
2-19	Mbagalla I Road	2	2.75	0.77	0.85	1.00	0.80	1309	0.90	1178	13.1	-	8992	11500
2-20	Mbagalla I Road	2	2.75	0.77	0.85	1.00	0.80	1309	0.90	1178	13.1	-	8992	11500
2-21	Mahunda Street	2	2.75	0.77	0.85	1.00	0.80	1309	0.90	1178	13.1	-	8992	11500
2-6	Kondoa Street	2	3.00	0.85	0.85	1.00	0.80	1445	0.90	1310	13.1	-	9931	12700



Appendix 3-8: Method of O - D Survey

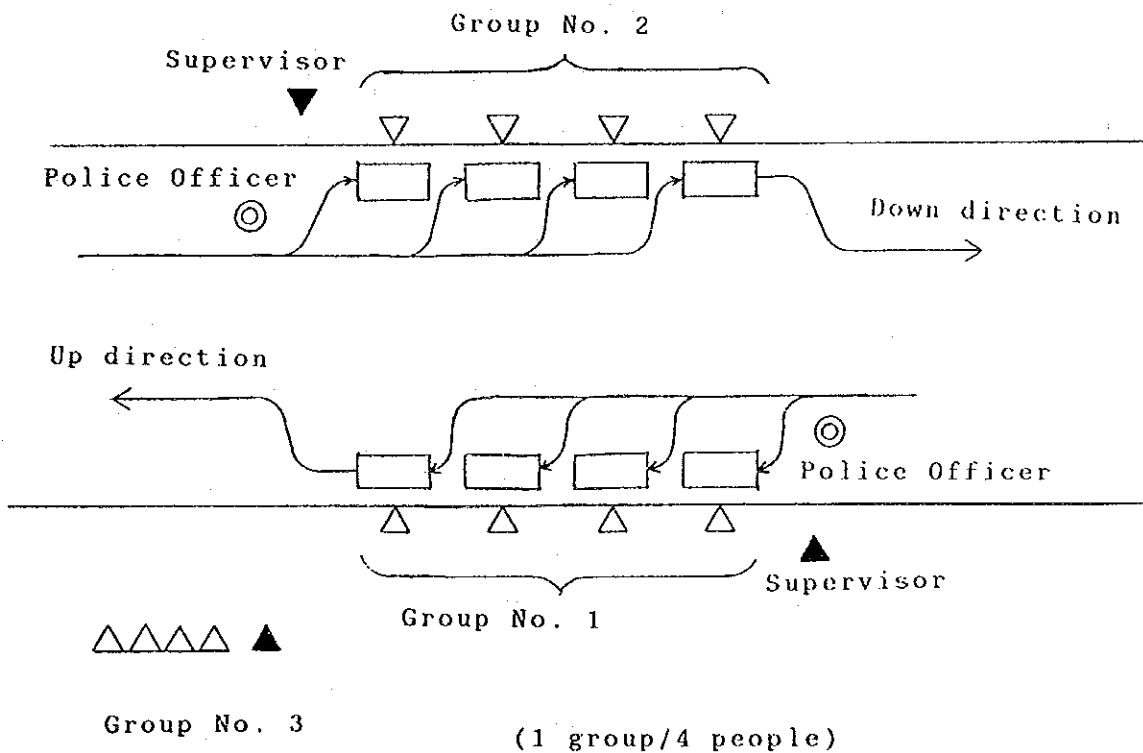
(1) Arrangement of O-D Survey Staffs

One group consists of four members of staff  
Two groups are engaged in the interview, one in each direction  
A Third group takes a rest in turn, all the time during O-D survey

Two police Officers at each one O-D Survey Station are required all the time during the O-D survey.

Selection of sample cars is made by the police officers to make direct inquiry of the car drivers.

Arrangement of O-D Survey Staffs



(2) Procedure for O-D Survey

- 1) O-D survey starts at 6.00 in the morning
- 2) The two police officers stop the cars and guide them to the interviewers (surveyors)
- 3) An interviewer greets the driver and introduces the survey purpose as follows:

Here is an interview being conducted to survey the traffic flow in Dar es salaam by the Dar es salaam City Council and Japanese International Cooperation agency. Please cooperate".

- 4) The surveyor then asks the questions to the driver as per the questionnaire at the end of this Appendix.
- 5) One group surveys for two hours continuously and then takes a rest for an hour.
- 6) The procedure is repeated accordingly.
- 7) The survey ends at 18.00 hours in the evening .

The survey time schedule is shown in the table below.

Time	6:00	7:00	8:00	9:00	10:00	11:00	12:00	13:00	14:00	15:00	16:00	17:00
	to	to	to	to	to	to	to	to	to	to	to	to
Group	7:00	8:00	9:00	10:00	11:00	12:00	13:00	14:00	15:00	16:00	17:00	18:00
Group1	<u>up</u>		<u>down</u>	<u>down</u>		<u>up</u>	<u>up</u>		<u>down</u>	<u>down</u>		<u>up</u>
Group2	<u>down</u>	<u>down</u>		<u>up</u>	<u>up</u>		<u>down</u>	<u>down</u>		<u>up</u>	<u>up</u>	
Group3		<u>up</u>	<u>up</u>		<u>down</u>	<u>down</u>		<u>up</u>	<u>up</u>		<u>down</u>	<u>down</u>

(3) Method of Writting on the Survey Sheet Questionare

(Please refer to the questionnaire on next page )

- 1) Answers are written for the bold framed spaces.
- 2) Type of vehicle: Classfy 4 types according to questionnaire form excluding buses and others and write the corresponding number under the column for type.
- 3) Origin and Destination: Ward, District and City/Region will be written in that order under the corresponding columns. And even a name of a popular institution or building may be written.
- 4) Trip purpose: Trip purpose indicates the following characteristic movements.

- 1 Go to office/working place - going to working place from home.
- 2 Go to school - going to school from home.
- 3 Come back to home - coming back to home from work, school etc.
- 4 Business - eg going to deliver something, for meeting, to collect money, or to a field site for construction or repair i.e duty/business trips.
- 5 Others - eg going to buy personal goods, recreations, and other purpose not included above, the corresponding numbers 1 to 5 shall be written in the column for trip purpose.

- 5) No. of passengers aboard: Number of all persons on board including the driver shall be written.



Appendix 3-9: Data of Runing Speed Survey

Data No.	No. of lane	Road Name	Surface Condition	Velocity (Km/hr)	Congestion Ratio(hourly)
1	4	Port Access Rd	good	61.1	0.20
2	4	-ditto-	good	62.1	0.15
3	4	Morogoro Rd	good	75.0	0.33
4	4	-ditto-	good	53.0	0.43
5	4	Selender Bridge	good	60.0	0.36
6	4	-ditto-	good	54.6	0.41
7	2	Morocco Rd	poor	21.2	0.60
8	2	-ditto-	poor	22.3	0.70
9	2	Shekirango Rd	bad	22.0	0.13
10	2	Bagamoyo Rd	good	25.1	0.74
11	2	-ditto-	good	28.2	0.74
12	2	-ditto-	good	24.3	0.89
13	2	-ditto-	good	27.6	0.72
14	2	United Nation Rd	good	32.4	0.43
15	2	-ditto-	good	28.5	0.50
16	2	Mbagara Rd	bad	24.4	0.31
17	2	-ditto-	bad	25.2	0.33
18	2	Changombe Rd	poor	27.5	0.44
19	2	-ditto-	poor	26.2	0.52
20	2	-ditto-	poor	13.6	0.68
21	2	-ditto-	poor	28.2	0.79
22	2	New kigogo Rd	good	37.8	0.60
23	2	-ditto-	good	30.9	0.76
24	2	-ditto-	bad	19.6	0.60
25	2	-ditto-	bad	20.2	0.76
26	2	Mpakani Rd	poor	33.9	0.25
27	2	-ditto-	poor	27.6	0.28
28	2	Old bagamoyo Rd	bad	29.4	0.36



## CHAPTER 4: FUTURE FRAMEWORK

### LIST OF APPENDICES

Appendix 4-1: Existing and Future Population by Word

Appendix 4-2: Existing and Future Industrial Employment  
by Zone

Appendix 4-3: Existing and Future Commercial Employment  
by Zone





Appendix 4-1: Existing and Future Population by Ward

District	Name of Ward/Branch	Type of Ward	Population		Annual Average Increase Rate	Area (km <sup>2</sup> )	Population density (person/ha)		Population Project by Trend Method in 2000	density (p/ha)	
			1978	1985			1978	1988			
1.	Kinondoni (531km <sup>2</sup> )	R	1. Panju	5,032	9,977	7.5	99.8	0.5	1.0	20,000	2
			2. Mbweni	1,316	2,159	5	29.4	0.4	0.7	3,000	1
			3. Kunduchi	11,713	22,743	7	88.0	1.3	2.6	46,000	5
			4. Kawe	27,404	44,085	5	46.0	1.0	9.6	114,000	25
			5. Goba	2,700	4,753	6	54.0	0.5	0.9	9,000	2
			6. Kibamba	8,751	16,751	7	120.6	0.7	4.3	43,000	4
			7. Ubungo	23,825	46,980	7	38.6	8.2	12.2	122,000	32
			8. Manzee	28,522	54,499	7	5.4	52.8	100.9	113,000	209
			9. Mabiho	28,187	45,953	5	5.8	48.6	79.2	75,000	132
			10. Kigogo	16,343	21,222	3	3.6	45.4	59.0	28,000	77
10.	Mzimoni	U	11 Mzimoni	20,153	23,985	2	1.4	14.4	171.3	28,000	200
			12 Kinondoni	27,879	42,387	4	3.7	75.3	114.6	63,000	170
			13 Kusunni	25,764	51,253	7	24.0	10.7	21.4	106,000	45
			14 Mwananyamala	44,614	72,508	5	4.1	108.8	176.8	103,000	250
			15 Tandale	24,699	58,413	9	2.5	98.8	233.7	63,000	250
			16 Ndugumbi	24,146	32,736	3	1.4	172.5	233.8	35,000	250
			17 Makurumala (Mburubati)	29,422	53,991	6	1.7	173.1	317.6	51,000	300
			18 Magoteni	14,256	16,944	2	1.0	142.6	189.4	20,000	200
19	Ilala (246,2km <sup>2</sup> )	U	1. Kivukoni	5,663	5,372	1	2.5	22.7	21.5	5,000	20
			2. Upanga West	10,772	11,020	-	2.6	41.4	42.4	12,000	45
			3. Upanga East	9,441	9,807	2	1.3	64.9	75.4	11,000	87
			4. Mchafukoge/city centre	10,907	8,547	2	-0.7	155.8	122.1	7,000	99
			5. Kisuta	7,939	8,358	1	0.5	158.8	167.2	9,000	180
24	Gerezani	U	6. Gerezani	7,589	7,457	-	0.7	109.8	107.0	7,000	100
			7. Yangwani	13,592	15,320	1	1.2	113.1	129.7	17,000	142
			8. Kariakoo	11,606	12,569	1	0.6	193.4	209.5	12,000	200
			9. Bagununi	32,679	48,247	4	3.6	90.8	134.0	72,000	200
			10. Kipawa	16,277	36,910	9	10.4	15.7	35.5	104,000	100
			11. Yangunguti	18,899	33,690	6	5.2	36.3	64.3	63,000	121
			12. Mchikichini	14,319	15,040	0.5	1.2	119.3	125.3	16,000	133
			13. Ilala	30,784	35,038	1	2.2	139.9	159.3	39,000	197
			14. Kirerezi	2,861	3,048	1	60.7	10.5	0.5	4,000	1
			15. Tabata	2,070	18,465	24	9.1	2.3	20.3	163,000	168
34	Maongola	R	16 Maongola	2,459	13,351	18	28.0	0.9	4.8	90,000	33
			17. Fugu	6,438	6,226	-	59.5	1.1	1.0	11,000	2
			18. Ukonga	24,860	45,203	6	56.2	4.4	8.0	117,000	79

Continue

37	Temeke (715,9km <sup>2</sup> )	U U U U U	16,375 34,762 13,124 72,844 68,472	26,776 42,860 39,417 91,144 72,692	5 2 12 2 1	5.7 6.1 2.1 5.9 6.7	28.7 57.0 62.5 123.5 102.2	47.0 70.3 187.7 154.5 108.8	45,000 50,000 48,000 111,000 82,000	79 82 229 188 122
42	6. Toangoma 7. Charambe 8. Yombo Vitula 9. Chamazi 10. Mbagala	R M R R M	4,110 2,719 2,477 3,072 11,129	6,652 18,624 13,408 5,452 40,866	5 21 18 6 14	44.8 16.4 13.6 76.4 23.6	0.9 1.7 1.8 0.4 4.3	1.5 11.4 9.9 0.7 16.0	12,000 581,000 42,000 10,000 128,000	3 35 31 1 50
47	11. Kimbiyi 12. Somangira 13. Kisarawe 14. Kibada 15. Vijibweni 16. Kigumboni	R R R R R M	3,327 2,999 1,276 2,540 1,948 17,406	6,465 6,730 2,821 3,003 2,527 26,078	7 8 8 2 3 4	254.8 121.6 67.8 12.4 12.0 35.2	0.1 0.2 0.2 2.0 1.6 4.9	0.2 0.6 0.2 2.4 2.1 7.4	15,000 16,000 7,000 4,000 4,000 39,000	1 1 1 3 3 11
52	Dar es Salaam (14,95km <sup>2</sup> )		851,522	1,360,950	48	1,493km <sup>2</sup>	5.7	9.1	2,451,000	16.4

Appendix 4-2: Existing and Future Industrial Employment by Zone

NO	No. of Industry in 1988	Industrial Employment in 1988	No. of Proposed Industry <sup>(2)</sup>	Additional Manufacturing in 2000	Other Industrial Employment in 2000	Total Industrial Employment in 2000
1.	188	7,600	0	-	9,800	9,800
2.	222	9,000	0	-	11,600	11,600
3.	22	900	-	-	1,200	1,200
4.	39	1,600	2	1,900	2,100	4,000
5.	152	6,100	2	1,900	7,900	9,800
6.	78	3,200	1	1,000	4,100	5,100
7.	320	12,900	22	21,300	16,600	37,900
8.	64	2,600	-	-	3,300	3,300
9.	33	1,300 + 17,500	2	1,900	24,200	26,100
10	39	1,600	3	2,900	2,100	5,000
11	12	500	-	-	600	600
12	78	3,200	-	-	4,100	4,100
13	6	200	-	-	300	300
14	19	800	-	-	1,000	1,000
15	5	200	-	-	300	300
16	4	200	-	-	300	300
17	63	2,500	-	-	3,200	3,200
18	17	700	4	3,800	900	4,700
19	23	900	3	2,900	1,200	4,100
20	10	400	3	2,900	500	3,400
21	49	2,000	9	8,600	2,600	11,200
22	17	700	4	3,800	900	4,700
23	-	-	4	3,900	-	3,900
24	92	3,700	15	14,500	4,800	19,300
25	28	1,100	3	2,900	1,400	4,300
26	138	5,600	4	3,800	7,200	11,000
27	19	800	-	-	1,000	1,000
28	15	600	2	1,900	800	2,700
29	-	-	-	-	-	-
30	12	500	1	1,000	600	1,600
31	2	100	2	1,900	100	2,000
32	7	300	-	-	400	400
33	-	-	1	1,000	-	1,000
34	-	-	-	-	-	-
<b>Total</b>	<b>1,773</b>	<b>89,200</b>	<b>87</b>	<b>83,400</b>	<b>114,900</b>	<b>198,300</b>

(1) Including harbour employment estimated.

(2) No. of proposing and on going industries registered by the Ministry Commerce and Industry.

Appendix 4-3: Existing and Future Commercial Employment by Zone

No.	No. of Commerce in 1988	Commerce Employment 1988	Population in 1988	Population in 2000	Increase Rate of (2000/1988)	Future Commerce Employment in 2000
1.	1,934	19,400	16,904	16,000	1.81	26,200
2.	2,126	21,300	27,889	29,000	1.81	28,600
3.	582	5,800	5,372	5,000	1.81	7,800
4.	349	3,500	20,827	23,000	1.10	2,900
5.	1,094	11,000	22,527	23,000	1.81	14,800
6.	789	7,900	35,048	39,000	1.81	10,700
7.	441	4,400	42,868	50,000	1.26	4,100
8.	720	7,200	72,892	82,000	1.12	6,000
9.	305	3,100	26,776	45,000	1.68	3,900
10.	846	8,500	48,247	72,000	1.49	9,500
11.	145	1,500	21,222	28,000	1.32	1,500
12.	871	8,700	73,665	83,000	1.81	11,700
13.	143	1,400	42,387	63,000	1.49	1,600
14.	189	1,900	72,508	103,000	1.42	2,000
15.	186	1,900	53,911	51,000	1.81	2,500
16.	113	1,100	58,413	63,000	1.81	1,500
17.	825	8,300	54,499	113,000	2.07	12,800
18.	239	2,400	45,963	75,000	1.63	2,900
19.	206	2,100	51,293	106,000	2.07	3,200
20.	70	700	44,085	114,000	2.59	1,300
21.	177	1,800	46,980	122,000	2.38	3,200
22.	131	1,300	18,465	153,000	8.77	8,500
23.	-	-	33,690	63,000	1.87	2,800
24.	328	3,300	36,910	104,000	2.57	6,300
25.	416	4,200	45,203	117,000	2.46	7,700
26.	1,450	14,500	91,144	111,000	1.22	13,200
27.	337	3,400	39,417	48,000	1.22	3,100
28.	429	4,300	78,350	238,000	3.03	9,700
29.	-	-	12,212	20,000	-	-
30.	170	1,700	26,078	39,000	1.50	1,900
31.	17	200	34,879	69,000	1.98	300
32.	59	600	21,504	51,000	2.37	1,000
33.	27	300	22,625	105,000	4.64	1,000
34.	-	-	16,016	38,000	2.37	-
Total	15,714	157,500	1,360,850	2,461,000	1.81	214,400

Sector of Commerce including Commerce, Public service and Utilities and Transport and Communications.

## CHAPTER 5: TRAFFIC DEMAND FORECAST

### LIST OF APPENDICES

Appendix 5-1: Future O-D Table

Appendix 5-2: Present O-D Table by Type of Vehicle

Appendix 5-3: Future Traffic Desire Line ( Car , Taxi )

Appendix 5-4: Future Traffic Desire Line ( Light Goods )

Appendix 5-5: Future Traffic Desire Line ( Medium Goods )

Appendix 5-6: Future Traffic Desire Line ( Heavy Goods )

Appendix 5-7: Traffic Capacity on Alternative Network

Appendix 5-8: Results of Future Traffic Assignment on  
Alternative Network



Appendix 5-1 : Future O-D Table by Type of Vehicle

( Type:Car, taxi )		/ Purpose:Total )													
	( 1 )	( 2 )	( 3 )	( 4 )	( 5 )	( 6 )	( 7 )	( 8 )	( 9 )	( 10 )	( 11 )	( 12 )	( 13 )	( 14 )	( 15 )
( 1 )	0	47	47	1563	0	1120	2466	6	1324	625	82	378	2648	651	147
( 2 )	102	0	0	164	0	594	782	98	440	446	125	214	635	242	13
( 3 )	26	6	0	285	0	77	24	0	240	18	0	67	186	40	21
( 4 )	1903	240	95	0	84	319	727	40	383	147	8	224	294	175	69
( 5 )	11	0	6	8	0	79	385	0	209	59	49	27	59	2	46
( 6 )	992	467	89	301	98	0	577	0	93	67	21	91	311	87	48
( 7 )	1588	718	132	340	405	350	0	0	163	240	27	367	327	164	78
( 8 )	0	111	0	0	0	0	5	0	0	0	0	0	0	0	0
( 9 )	1168	240	126	374	108	165	84	0	85	9	173	305	40	7	0
( 10 )	593	446	21	67	90	45	281	0	107	0	0	0	46	6	0
( 11 )	100	73	7	23	7	6	66	29	83	0	0	0	14	10	0
( 12 )	475	265	7	235	127	110	231	0	204	96	0	0	347	225	23
( 13 )	2151	378	84	209	85	275	162	6	164	73	25	472	0	6	0
( 14 )	685	184	97	81	6	47	22	0	68	4	6	129	18	0	0
( 15 )	65	50	0	35	0	0	18	0	62	41	0	25	0	0	0
( 16 )	41	0	0	15	0	0	0	0	0	54	0	0	13	34	0
( 17 )	417	527	0	115	6	94	438	0	52	0	0	60	102	136	0
( 18 )	46	50	23	69	146	81	124	0	27	107	0	117	64	0	0
( 19 )	3379	498	62	452	41	338	854	0	514	108	24	343	21	0	24
( 20 )	787	90	53	132	14	121	456	0	59	28	8	139	34	0	0
( 21 )	2106	372	63	468	293	258	337	0	304	144	29	192	258	153	0
( 22 )	251	163	0	128	49	148	339	0	88	173	0	70	16	0	0
( 23 )	256	116	0	91	105	138	112	0	88	0	0	0	78	16	0
( 24 )	757	306	72	354	110	104	223	0	172	98	0	166	173	59	0
( 25 )	433	125	23	140	32	37	154	0	265	0	0	28	129	0	0
( 26 )	1130	1032	189	228	89	285	166	0	68	184	25	151	253	44	0
( 27 )	145	107	8	24	49	13	3	0	13	9	0	47	16	12	0
( 28 )	220	257	111	196	214	120	301	0	216	120	23	98	61	36	0
( 29 )	0	0	0	0	0	0	0	0	0	0	0	17	0	0	0
( 30 )	19	0	0	0	0	0	0	0	167	0	0	0	0	0	0
( 31 )	186	9	88	30	0	6	215	0	0	0	0	67	6	0	0
( 32 )	299	0	0	0	0	0	0	0	45	0	0	0	0	0	0
( 33 )	188	188	0	113	22	0	438	0	202	0	0	0	5	0	0
( 34 )	260	0	0	0	0	0	0	0	0	0	0	0	0	0	0
( 35 )	67	0	0	0	0	23	10	0	0	0	0	0	0	0	0
( 36 )	46	3	0	18	0	0	14	0	8	0	0	0	0	0	0
( 37 )	0	0	0	0	0	0	0	0	14	0	0	0	0	0	13
( 38 )	0	4	0	0	0	0	5	0	0	0	0	0	0	0	0
( 39 )	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
( 40 )	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
( 41 )	36	0	0	0	0	26	0	0	0	0	0	0	0	0	0
( 42 )	122	3	0	0	13	65	0	0	10	0	0	0	9	0	0
( 43 )	12	0	0	0	0	0	0	0	12	0	0	0	0	0	0
TOTAL	21062	7075	1403	6258	2193	5044	9940	179	5864	2926	461	3662	6428	2138	489

( Type:Car, taxi )		/ Purpose:Total )													
	( 16 )	( 17 )	( 18 )	( 19 )	( 20 )	( 21 )	( 22 )	( 23 )	( 24 )	( 25 )	( 26 )	( 27 )	( 28 )	( 29 )	( 30 )
( 1 )	0	446	26	3534	640	1843	253	260	278	618	1224	176	190	13	5
( 2 )	11	530	113	442	290	407	130	62	64	88	762	106	313	0	0
( 3 )	0	47	0	220	46	155	104	66	9	22	139	18	143	0	0
( 4 )	9	100	21	648	174	297	62	54	204	144	420	57	97	0	0
( 5 )	0	30	38	51	0	54	86	22	0	131	263	25	287	0	0
( 6 )	0	0	0	439	160	269	131	136	66	0	240	42	22	0	0
( 7 )	36	513	197	537	293	295	572	379	256	71	126	13	195	0	0
( 8 )	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
( 9 )	0	239	98	492	158	274	67	92	315	227	72	17	235	0	57
( 10 )	0	0	0	106	74	223	452	0	0	0	106	17	98	0	0
( 11 )	0	0	0	0	20	45	0	0	0	5	0	0	0	0	0
( 12 )	59	236	0	562	123	249	28	11	56	0	97	0	28	0	0
( 13 )	0	335	0	81	32	88	0	80	189	39	165	33	1	0	20
( 14 )	14	325	0	7	0	20	19	15	30	131	110	2	10	0	118
( 15 )	0	0	0	29	0	0	0	0	0	0	0	0	0	0	0
( 16 )	0	0	0	20	0	0	0	0	0	0	0	0	0	0	0
( 17 )	0	0	0	239	0	51	0	0	387	218	145	6	310	0	0
( 18 )	0	0	0	36	0	0	0	0	198	0	11	0	0	0	0
( 19 )	12	262	0	0	68	91	38	28	514	215	405	33	215	0	0
( 20 )	35	55	0	22	0	18	0	304	93	143	72	11	0	0	252
( 21 )	0	0	0	463	0	0	149	36	592	128	186	40	646	114	0
( 22 )	0	0	0	109	0	0	0	0	1273	130	167	0	195	0	0
( 23 )	0	0	0	207	60	172	0	0	0	0	93	12	642	0	0
( 24 )	0	62	127	416	244	566	923	0	0	265	102	3	0	0	0
( 25 )	0	43	0	409	254	311	64	0	0	0	84	12	417	0	48
( 26 )	13	123	37	485	93	256	19	162	67	102	0	24	404	0	0
( 27 )	0	0	0	29	9	100	0	0	26	14	22	0	67	0	0
( 28 )	0	167	541	258	157	486	0	0	248	383	465	89	0	0	0
( 29 )	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
( 30 )	0	0	0	0	26	0	135	0	0	0	0	66	0	0	0
( 31 )	0	0	0	0	0	0	112	0	0	91	0	0	75	0	0
( 32 )	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
( 33 )	0	0	0	74	0	59	0	0	0	0	0	0	119	0	0
( 34 )	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
( 35 )	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
( 36 )	10	0	0	0	0	0	0	0	3	10	18	0	14	0	0
( 37 )	0	0	0	0	0	0	0	0	0	0	3	0	0	0	0
( 38 )	0	0	0	0	0	35	0	1	0	0	0	0	0	0	0
( 39 )	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
( 40 )	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
( 41 )	0	0	0	41	0	0	0	0	0	0	0	0	13	0	0
( 42 )	0	0	0	25	0	0	0	0	0	107	0	0	0	0	0
( 43 )	0	0	0	0	0	27	0	0	0	0	0	0	6	0	0
TOTAL	199	3513	1198	10007	2895	6526	3209	1708	4868	3170	5609	802	4742	127	500

( Type:Car, taxi / Purpose:Total )														
	( 31)	( 32)	( 33)	( 34)	( 35)	( 36)	( 37)	( 38)	( 39)	( 40)	( 41)	( 42)	( 43)	TOTAL
( 1)	228	28	556	0	48	26	0	0	0	0	0	112	0	21608
( 2)	0	0	181	0	0	0	0	0	0	0	0	255	0	7609
( 3)	17	0	0	0	0	0	0	0	0	0	0	7	0	1983
( 4)	20	0	26	0	7	51	0	0	0	0	0	0	13	7112
( 5)	0	0	230	0	0	0	0	0	0	0	0	0	0	2157
( 6)	23	0	0	0	23	0	0	0	0	0	0	8	0	4801
( 7)	156	0	344	0	9	8	0	0	0	0	0	0	0	8899
( 8)	0	0	0	0	0	0	0	0	0	0	0	0	0	116
( 9)	0	0	0	0	0	0	0	0	0	0	0	21	14	5262
( 10)	0	0	0	0	0	8	0	0	0	0	0	0	0	2706
( 11)	0	0	0	0	0	6	0	0	0	0	0	0	0	488
( 12)	0	0	53	0	0	0	0	0	0	0	0	0	0	3847
( 13)	0	0	0	0	0	39	0	0	0	0	0	0	0	5192
( 14)	37	0	0	0	0	0	0	0	0	0	0	0	0	2185
( 15)	0	0	0	0	0	0	0	0	0	0	0	0	0	325
( 16)	0	0	0	0	0	0	0	0	0	0	0	0	0	177
( 17)	144	0	0	0	0	0	0	0	0	0	0	0	0	3447
( 18)	0	0	0	0	0	0	0	0	0	0	0	0	0	1099
( 19)	36	0	12	0	8	7	5	0	0	0	0	0	0	8619
( 20)	0	0	0	0	13	0	3	0	0	0	0	12	0	2942
( 21)	0	0	0	0	0	0	8	0	0	0	0	0	0	7339
( 22)	0	0	0	0	0	0	0	0	0	0	0	0	0	3299
( 23)	0	0	0	0	0	0	0	0	0	0	0	0	0	2186
( 24)	0	0	0	0	0	0	0	0	0	0	0	0	0	5302
( 25)	122	0	0	0	0	0	0	0	0	0	0	0	0	3130
( 26)	23	0	93	0	0	1	0	0	0	0	0	0	0	5755
( 27)	0	0	0	0	0	0	0	0	0	0	0	0	0	713
( 28)	0	0	0	0	0	6	0	0	0	0	0	0	0	4773
( 29)	0	0	0	0	0	0	0	0	0	0	0	0	0	17
( 30)	0	0	0	0	0	0	0	0	0	0	0	0	0	413
( 31)	0	0	0	0	0	0	0	0	0	0	0	0	0	885
( 32)	0	0	0	0	0	0	0	0	0	0	0	0	0	344
( 33)	0	0	0	0	0	0	0	0	0	0	0	0	0	1408
( 34)	0	0	0	0	0	0	0	0	0	0	0	0	0	260
( 35)	0	0	0	0	0	0	0	0	0	0	0	0	0	100
( 36)	0	0	0	0	0	0	0	0	0	0	0	0	0	144
( 37)	0	0	0	0	0	0	0	0	0	0	0	0	0	30
( 38)	0	0	0	0	0	0	0	0	0	0	0	0	0	46
( 39)	0	0	0	0	0	0	0	0	0	0	0	0	0	0
( 40)	0	0	0	0	0	0	0	0	0	0	0	0	0	0
( 41)	0	0	0	0	0	0	0	0	0	0	0	0	0	116
( 42)	0	0	0	0	0	0	0	0	0	0	0	0	0	354
( 43)	0	0	0	0	0	0	0	0	0	0	0	0	0	57
TOTAL	806	28	1495	0	108	146	16	0	0	0	9	415	27	127245

( Type:Light goods / Purpose:Total )															
	( 1)	( 2)	( 3)	( 4)	( 5)	( 6)	( 7)	( 8)	( 9)	( 10)	( 11)	( 12)	( 13)	( 14)	( 15)
( 1)	0	6	0	409	0	445	1333	0	514	316	77	115	583	196	17
( 2)	26	0	0	68	0	166	539	13	195	161	62	37	162	73	3
( 3)	10	7	0	22	0	57	28	0	85	0	8	15	20	0	0
( 4)	624	80	21	0	10	136	214	0	117	60	11	46	177	16	20
( 5)	0	0	0	11	0	127	271	0	93	32	0	35	31	30	18
( 6)	335	229	22	148	50	0	369	0	168	28	10	35	61	28	0
( 7)	800	356	73	415	429	284	0	0	142	69	11	247	285	12	0
( 8)	0	72	0	0	0	0	0	0	12	0	0	0	0	0	0
( 9)	380	157	40	196	117	150	312	0	0	48	9	29	84	19	6
( 10)	182	159	14	73	17	73	21	0	38	0	0	61	116	36	15
( 11)	88	59	0	12	22	18	111	0	11	0	0	2	5	0	0
( 12)	86	54	6	35	23	76	152	0	6	53	0	0	130	47	31
( 13)	888	195	39	73	20	110	355	0	89	15	0	197	0	12	4
( 14)	231	98	16	97	2	81	119	0	34	0	0	27	0	0	0
( 15)	58	22	0	41	0	0	0	0	9	0	0	0	0	0	0
( 16)	16	11	0	0	0	0	10	0	25	0	0	15	13	0	0
( 17)	228	205	27	34	55	76	272	0	59	0	0	73	76	57	0
( 18)	72	45	0	8	0	44	0	0	155	11	0	0	8	0	0
( 19)	1317	240	71	249	72	194	509	38	235	69	0	147	194	0	0
( 20)	386	32	13	50	24	14	145	0	62	201	0	73	5	4	0
( 21)	1073	306	37	232	188	96	244	17	264	158	22	165	66	7	0
( 22)	251	125	43	76	0	21	452	0	64	210	0	0	0	0	0
( 23)	91	168	0	21	48	165	111	0	44	0	0	0	9	0	0
( 24)	497	389	0	164	146	49	117	0	67	0	19	22	42	74	7
( 25)	218	85	28	135	125	14	45	0	58	0	0	40	55	27	0
( 26)	738	382	44	366	72	133	60	0	57	107	0	24	108	48	0
( 27)	40	26	25	46	8	70	14	0	6	0	0	28	19	8	47
( 28)	145	164	83	74	63	93	225	0	268	89	6	142	3	13	0
( 29)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
( 30)	0	101	0	0	0	0	0	0	59	0	0	0	0	0	0
( 31)	119	20	0	55	0	33	62	0	0	31	0	11	0	0	0
( 32)	0	33	0	0	0	0	0	0	0	0	0	0	0	0	0
( 33)	323	79	0	0	0	32	0	0	42	0	38	16	15	2	0
( 34)	0	13	0	0	0	0	0	0	0	0	0	0	0	0	0
( 35)	12	12	0	0	0	0	0	0	0	0	0	0	0	0	0
( 36)	87	20	0	4	0	1	63	0	0	8	0	9	0	0	0
( 37)	32	0	0	0	0	0	0	0	12	0	0	0	0	0	0
( 38)	6	0	0	0	1	0	0	0	17	0	0	0	0	0	0
( 39)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
( 40)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
( 41)	17	30	0	0	0	8	0	0	0	0	0	0	0	0	0
( 42)	41	9	0	12	0	0	0	0	8	0	0	0	11	0	0
( 43)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TOTAL	9417	3989	602	3126	1492	2766	6153	68	3015	1666	273	1609	2053	718	168



( Type:Light goods / Purpose:Total )

	( 16 )	( 17 )	( 18 )	( 19 )	( 20 )	( 21 )	( 22 )	( 23 )	( 24 )	( 25 )	( 26 )	( 27 )	( 28 )	( 29 )	( 30 )
( 1 )	24	272	102	1096	293	956	255	91	465	78	540	26	111	0	23
( 2 )	9	106	54	237	111	207	30	167	36	98	265	65	173	0	101
( 3 )	0	44	0	80	16	53	0	23	0	16	22	33	144	0	0
( 4 )	2	98	20	167	72	135	22	100	55	25	135	12	60	0	0
( 5 )	0	93	75	41	144	145	44	0	30	0	147	6	4	0	0
( 6 )	0	111	17	261	80	163	57	0	14	6	104	106	95	0	72
( 7 )	0	194	118	340	154	307	54	44	118	168	88	19	334	0	0
( 8 )	0	0	0	12	0	0	0	0	0	0	0	0	0	0	0
( 9 )	0	48	56	241	143	220	20	23	80	64	57	7	324	0	0
( 10 )	0	17	69	110	66	317	78	0	0	0	60	29	23	0	0
( 11 )	0	0	0	0	0	0	0	0	0	0	18	0	10	0	0
( 12 )	10	193	0	95	73	101	0	0	59	14	64	9	37	0	0
( 13 )	3	86	0	14	15	92	0	12	155	7	136	45	46	0	0
( 14 )	9	0	0	0	0	24	0	0	112	42	28	0	0	0	0
( 15 )	0	0	0	22	0	0	0	0	24	0	0	0	0	0	0
( 16 )	0	0	0	15	3	0	0	0	0	0	73	0	0	0	0
( 17 )	22	0	0	101	0	0	0	121	233	0	60	14	74	0	0
( 18 )	0	0	0	33	0	0	0	0	241	0	36	7	0	0	0
( 19 )	37	96	76	0	37	45	32	69	154	36	180	13	242	0	0
( 20 )	0	9	6	17	0	10	0	49	133	0	45	29	240	0	0
( 21 )	0	9	0	113	0	0	0	148	392	196	94	27	159	0	0
( 22 )	0	0	0	34	0	178	0	0	161	100	90	6	0	0	0
( 23 )	0	0	0	147	0	27	75	0	0	0	38	25	221	0	0
( 24 )	18	194	0	130	78	299	604	0	0	0	11	8	136	0	0
( 25 )	0	52	0	70	36	151	393	0	0	0	16	11	0	0	0
( 26 )	0	34	43	311	38	122	13	53	118	78	0	87	312	0	0
( 27 )	0	0	15	26	20	13	2	31	0	0	17	0	25	0	0
( 28 )	0	113	0	163	85	181	58	76	140	347	192	111	0	0	0
( 29 )	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
( 30 )	0	0	0	23	66	0	0	0	0	0	0	0	0	0	0
( 31 )	0	0	0	0	0	0	0	0	43	20	0	0	176	0	0
( 32 )	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
( 33 )	0	372	0	49	0	3	0	41	0	0	14	3	0	0	0
( 34 )	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
( 35 )	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
( 36 )	0	0	0	0	0	0	0	0	12	0	61	0	0	0	0
( 37 )	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
( 38 )	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0
( 39 )	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
( 40 )	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
( 41 )	0	0	0	4	0	0	0	0	0	0	0	0	0	0	0
( 42 )	0	0	0	0	0	14	0	0	0	0	0	0	0	0	0
( 43 )	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TOTAL	134	2141	651	3952	1530	3763	1737	1048	2775	1295	2592	698	2946	0	196

( Type:Light goods / Purpose:Total )

	( 31 )	( 32 )	( 33 )	( 34 )	( 35 )	( 36 )	( 37 )	( 38 )	( 39 )	( 40 )	( 41 )	( 42 )	( 43 )	TOTAL
( 1 )	81	0	28	0	18	6	0	0	0	0	0	23	0	8499
( 2 )	0	0	0	140	0	8	0	0	0	0	0	25	0	3337
( 3 )	0	0	0	0	3	0	0	0	0	0	0	0	0	686
( 4 )	47	101	72	0	0	0	0	0	0	0	0	0	0	2605
( 5 )	0	0	0	0	0	0	0	0	0	0	0	0	0	1377
( 6 )	39	0	4	0	9	65	3	0	0	0	0	0	0	2689
( 7 )	207	0	84	0	0	23	0	0	0	0	0	0	0	5375
( 8 )	0	0	0	0	0	0	0	0	0	0	0	0	0	96
( 9 )	0	0	0	0	0	0	0	0	0	0	0	17	0	2847
( 10 )	0	0	0	0	0	0	0	0	0	0	0	0	0	1574
( 11 )	11	0	11	0	0	0	0	0	0	0	0	0	0	376
( 12 )	35	0	9	0	0	0	0	0	0	0	0	0	0	1398
( 13 )	0	0	10	0	8	0	10	0	0	0	0	0	0	2636
( 14 )	0	0	0	0	31	0	0	0	0	0	0	0	0	959
( 15 )	0	0	23	0	0	0	0	0	0	0	0	0	0	199
( 16 )	0	0	0	0	0	0	0	0	0	0	0	0	0	181
( 17 )	0	0	195	0	0	0	0	0	0	0	0	0	0	1982
( 18 )	0	0	0	0	0	0	0	0	0	0	0	0	0	660
( 19 )	0	0	0	0	0	0	0	0	0	0	0	0	0	4177
( 20 )	0	0	0	0	0	0	1	0	0	0	0	0	0	1548
( 21 )	0	0	121	0	0	0	0	0	0	0	0	0	0	4134
( 22 )	0	0	0	0	0	0	0	0	0	0	0	9	0	1811
( 23 )	154	0	0	0	0	0	0	0	0	0	0	0	0	1353
( 24 )	17	0	0	0	0	8	0	0	0	0	0	0	0	3088
( 25 )	0	0	0	0	0	0	0	0	0	0	0	0	0	1567
( 26 )	19	0	19	21	0	0	4	24	0	0	0	12	0	3447
( 27 )	0	0	0	0	0	0	0	0	0	0	0	0	0	486
( 28 )	9	0	52	0	0	0	11	0	0	0	0	0	0	2912
( 29 )	0	0	0	0	0	0	0	0	0	0	0	0	0	0
( 30 )	0	0	0	0	0	0	0	0	0	0	0	0	0	249
( 31 )	0	0	0	0	0	0	0	0	0	0	0	0	0	570
( 32 )	0	0	0	0	0	0	0	0	0	0	0	0	0	33
( 33 )	0	0	0	0	0	0	0	0	0	0	0	0	0	1029
( 34 )	0	0	0	0	0	0	0	0	0	0	0	0	0	13
( 35 )	0	0	0	0	0	0	0	0	0	0	0	0	0	24
( 36 )	0	0	0	0	0	0	0	0	0	0	0	0	0	265
( 37 )	0	0	0	0	0	0	0	0	0	0	0	0	0	44
( 38 )	0	0	0	0	0	0	0	0	0	0	0	0	0	25
( 39 )	0	0	0	0	0	0	0	0	0	0	0	0	0	0
( 40 )	0	0	0	0	0	0	0	0	0	0	0	0	0	0
( 41 )	0	0	0	0	0	0	0	0	0	0	0	0	0	59
( 42 )	0	0	0	0	0	0	0	0	0	0	0	0	0	95
( 43 )	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TOTAL	619	109	624	171	69	110	29	24	0	0	0	77	0	64405

( Type:Medium goods / Purpose:Total )

	( 1 )	( 2 )	( 3 )	( 4 )	( 5 )	( 6 )	( 7 )	( 8 )	( 9 )	( 10 )	( 11 )	( 12 )	( 13 )	( 14 )	( 15 )
( 1 )	0	10	0	4	0	51	138	0	44	44	36	12	47	28	0
( 2 )	3	0	0	2	0	22	63	0	48	33	0	4	10	3	0
( 3 )	0	0	0	0	0	0	10	0	27	0	0	5	17	17	13
( 4 )	18	2	3	0	0	7	21	0	19	0	0	0	4	2	0
( 5 )	0	0	0	0	0	8	73	0	21	5	18	0	0	17	0
( 6 )	0	16	16	18	30	0	69	0	66	0	18	18	15	36	8
( 7 )	198	115	0	36	26	81	0	0	42	9	42	11	11	15	0
( 8 )	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
( 9 )	103	49	29	51	13	50	63	0	0	55	15	33	12	12	0
( 10 )	10	38	0	5	8	0	6	0	6	0	0	0	0	0	0
( 11 )	15	26	0	0	26	23	0	0	3	0	0	0	0	0	0
( 12 )	0	6	0	5	0	31	32	0	45	0	0	0	0	0	0
( 13 )	41	11	0	10	6	21	72	0	14	0	0	26	3	0	0
( 14 )	77	12	2	12	18	0	53	0	23	0	0	27	0	0	0
( 15 )	14	7	0	0	0	0	8	0	6	0	0	0	0	0	0
( 16 )	0	5	0	0	0	0	6	0	19	0	0	0	0	0	0
( 17 )	25	31	0	20	17	20	17	0	37	0	0	17	3	6	0
( 18 )	0	6	0	6	0	12	15	0	15	0	0	0	0	0	0
( 19 )	95	57	3	17	8	18	60	0	53	4	7	16	0	0	0
( 20 )	11	22	20	15	74	21	29	2	27	5	0	1	0	0	0
( 21 )	139	65	12	40	33	28	98	0	150	28	0	39	16	3	0
( 22 )	31	49	0	0	0	7	12	0	7	26	0	0	4	6	0
( 23 )	20	5	0	9	0	17	8	0	59	0	0	0	0	13	0
( 24 )	79	35	0	4	17	8	24	0	92	0	0	16	4	0	0
( 25 )	39	63	23	0	0	0	35	0	57	11	0	16	20	12	0
( 26 )	98	142	61	20	17	65	48	0	79	13	0	0	18	28	0
( 27 )	36	5	0	0	0	10	0	0	0	8	13	0	0	0	0
( 28 )	106	62	0	83	33	80	199	0	44	69	0	1	51	21	6
( 29 )	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
( 30 )	0	0	14	0	0	0	0	0	22	22	0	0	0	0	0
( 31 )	43	16	0	15	13	37	27	0	55	26	0	0	0	0	0
( 32 )	0	0	0	0	0	0	0	0	34	0	0	0	0	0	0
( 33 )	0	0	0	0	0	0	0	0	0	0	0	0	0	6	0
( 34 )	0	31	0	0	0	0	36	0	0	0	0	0	0	0	0
( 35 )	0	0	0	0	0	4	6	0	0	0	0	0	0	0	0
( 36 )	0	63	0	0	0	0	18	0	11	10	0	0	0	6	0
( 37 )	0	0	0	0	0	0	0	0	10	1	0	16	0	0	0
( 38 )	0	38	0	0	0	0	10	0	6	0	0	0	0	0	0
( 39 )	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
( 40 )	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
( 41 )	44	11	0	0	0	7	0	0	47	0	0	0	4	0	0
( 42 )	72	43	4	23	14	4	25	0	126	15	0	0	14	0	0
( 43 )	0	0	0	0	0	0	15	0	0	77	0	13	0	0	0
TOTAL	1317	1041	187	395	353	615	1306	4	1474	461	89	366	266	249	36

( Type:Medium goods / Purpose:Total )

	( 16 )	( 17 )	( 18 )	( 19 )	( 20 )	( 21 )	( 22 )	( 23 )	( 24 )	( 25 )	( 26 )	( 27 )	( 28 )	( 29 )	( 30 )
( 1 )	0	50	0	40	63	185	0	8	39	44	69	9	71	0	23
( 2 )	0	98	0	38	53	36	15	92	26	2	40	17	98	0	0
( 3 )	0	0	0	3	1	0	0	2	0	0	25	0	23	0	0
( 4 )	0	0	11	12	0	16	0	8	21	0	28	0	24	0	0
( 5 )	0	22	0	19	0	27	2	8	23	0	29	0	28	0	0
( 6 )	0	0	0	0	32	1	29	12	0	0	5	5	50	0	0
( 7 )	0	34	20	45	0	65	86	19	40	40	121	9	98	17	0
( 8 )	0	0	0	0	0	10	0	0	0	0	0	0	0	0	0
( 9 )	6	21	11	132	75	136	30	29	29	23	82	4	68	0	20
( 10 )	0	7	19	23	3	28	44	0	0	0	31	6	68	0	7
( 11 )	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
( 12 )	0	48	12	48	7	24	3	0	15	3	20	2	11	0	0
( 13 )	0	15	0	0	0	26	0	7	19	6	31	5	11	0	0
( 14 )	0	68	48	1	0	21	0	0	12	3	36	4	15	0	0
( 15 )	0	0	0	0	0	0	0	0	13	0	0	0	0	0	13
( 16 )	0	0	0	0	0	0	0	0	36	0	5	0	0	0	0
( 17 )	16	0	0	19	0	11	46	0	0	0	4	0	86	0	0
( 18 )	0	0	0	0	0	0	0	0	21	14	0	8	49	0	0
( 19 )	0	35	0	0	0	21	0	10	31	13	14	11	45	0	0
( 20 )	0	0	0	0	0	0	0	0	12	9	22	8	38	0	0
( 21 )	0	0	0	80	0	0	0	7	46	47	153	8	127	0	0
( 22 )	0	0	0	0	36	5	0	0	152	22	0	0	18	0	0
( 23 )	0	11	0	200	4	16	24	0	0	0	27	0	21	0	0
( 24 )	0	21	0	20	22	19	43	0	0	0	49	3	49	0	0
( 25 )	0	0	0	15	19	5	0	0	0	0	0	0	9	0	0
( 26 )	0	0	0	120	5	39	5	46	7	7	13	0	79	0	19
( 27 )	0	0	0	6	6	11	2	2	10	0	7	0	27	0	0
( 28 )	0	15	55	122	57	120	12	44	42	19	79	20	0	0	0
( 29 )	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
( 30 )	0	0	0	0	0	0	0	0	0	6	0	0	0	0	0
( 31 )	3	0	0	0	0	0	0	0	24	15	11	8	79	0	0
( 32 )	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
( 33 )	0	29	0	0	0	77	0	0	0	0	0	0	0	0	0
( 34 )	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
( 35 )	0	7	0	0	0	0	0	0	0	0	0	0	0	0	0
( 36 )	0	0	0	0	7	0	0	10	27	0	10	0	7	0	0
( 37 )	0	0	0	0	0	0	0	0	0	0	7	0	0	0	0
( 38 )	0	0	0	0	0	0	0	0	0	0	14	0	0	0	0
( 39 )	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
( 40 )	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
( 41 )	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0
( 42 )	0	0	0	6	7	4	0	0	4	0	0	0	0	0	6
( 43 )	0	0	0	0	0	0	0	0	0	0	11	0	0	0	0
TOTAL	25	481	176	958	398	950	349	306	649	275	966	150	1200	17	88

( Type:Medium goods / Purpose:Total )

	( 31 )	( 32 )	( 33 )	( 34 )	( 35 )	( 36 )	( 37 )	( 38 )	( 39 )	( 40 )	( 41 )	( 42 )	( 43 )	TOTAL
( 1 )	52	0	13	0	0	0	0	0	0	0	26	24	0	1130
( 2 )	2	0	15	1	0	7	0	0	0	0	0	0	0	721
( 3 )	0	0	0	0	0	0	0	0	0	0	0	0	0	162
( 4 )	9	0	5	0	0	0	17	0	0	0	0	12	0	249
( 5 )	5	0	0	0	0	0	0	0	0	0	0	10	0	304
( 6 )	19	0	0	0	0	17	0	0	0	0	0	0	0	524
( 7 )	19	1	0	0	2	7	0	3	0	0	14	8	0	1290
( 8 )	0	0	0	0	0	0	0	0	0	0	0	0	0	10
( 9 )	40	0	14	4	7	17	0	0	0	0	36	35	0	1304
( 10 )	0	0	0	0	0	0	0	0	0	0	0	6	0	380
( 11 )	0	0	0	0	0	0	0	0	0	0	0	0	0	93
( 12 )	0	0	0	0	0	0	0	0	0	0	10	0	0	328
( 13 )	3	0	0	0	0	1	0	13	0	0	14	0	0	363
( 14 )	0	0	0	0	0	0	0	0	0	0	0	7	0	439
( 15 )	0	0	0	0	0	0	0	0	0	0	0	0	0	61
( 16 )	0	0	0	0	0	0	0	0	0	0	0	0	0	35
( 17 )	0	0	0	0	0	0	0	0	0	0	0	0	0	411
( 18 )	0	0	0	0	0	0	0	0	0	0	0	0	0	149
( 19 )	0	0	8	0	0	0	0	0	0	0	14	0	0	538
( 20 )	0	0	5	0	0	0	0	0	0	0	0	0	0	404
( 21 )	0	0	36	0	0	0	0	0	0	0	0	0	0	1155
( 22 )	0	0	0	0	0	0	0	0	0	0	0	0	0	419
( 23 )	16	0	0	0	16	4	0	0	0	0	0	0	0	452
( 24 )	58	6	0	4	0	13	0	0	0	0	0	0	0	604
( 25 )	0	0	0	0	0	0	0	0	0	0	0	0	0	346
( 26 )	12	0	2	1	1	0	6	14	0	0	0	0	0	970
( 27 )	0	0	0	4	0	0	0	0	0	0	0	0	0	132
( 28 )	48	0	0	0	0	0	0	0	0	0	6	3	0	1397
( 29 )	0	0	0	0	0	0	0	0	0	0	0	0	0	0
( 30 )	0	0	0	0	0	0	0	0	0	0	0	0	0	64
( 31 )	0	0	22	0	0	0	0	0	0	0	0	0	0	394
( 32 )	0	0	0	0	0	0	0	0	0	0	0	0	0	34
( 33 )	0	0	0	0	0	0	0	0	0	0	0	0	0	121
( 34 )	0	0	0	0	0	0	0	0	0	0	0	0	0	74
( 35 )	0	0	0	0	0	0	0	0	0	0	0	0	0	10
( 36 )	0	0	0	0	0	0	0	125	0	0	0	0	0	294
( 37 )	0	0	0	0	0	0	0	0	0	0	0	0	0	17
( 38 )	0	0	0	0	0	0	0	0	0	0	0	0	0	85
( 39 )	0	0	0	0	0	0	0	0	0	0	0	0	0	0
( 40 )	0	0	0	0	0	0	0	0	0	0	0	0	0	0
( 41 )	0	0	0	0	0	0	0	0	0	0	0	0	0	121
( 42 )	0	0	0	0	0	0	0	0	0	0	0	0	0	367
( 43 )	0	0	0	0	0	0	0	0	0	0	0	0	0	116
TOTAL	283	7	120	14	26	66	24	155	0	0	120	105	0	16067

( Type:Heavy goods / Purpose:Total )

	( 1 )	( 2 )	( 3 )	( 4 )	( 5 )	( 6 )	( 7 )	( 8 )	( 9 )	( 10 )	( 11 )	( 12 )	( 13 )	( 14 )	( 15 )
( 1 )	0	3	0	0	0	1	5	0	18	3	0	7	12	0	0
( 2 )	2	0	0	0	0	2	7	0	9	3	0	0	6	0	0
( 3 )	0	0	0	0	0	0	0	0	5	0	0	0	0	0	0
( 4 )	16	0	0	0	0	2	2	0	0	0	0	8	0	0	0
( 5 )	0	0	0	0	0	0	20	0	12	1	0	3	0	0	0
( 6 )	7	0	0	0	3	0	0	0	15	0	6	0	2	29	0
( 7 )	34	48	0	0	0	0	0	0	9	6	18	4	10	5	2
( 8 )	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
( 9 )	12	16	0	5	4	17	6	0	0	11	1	5	10	4	3
( 10 )	3	0	0	0	9	0	0	0	29	0	0	0	0	2	0
( 11 )	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
( 12 )	0	0	0	0	0	0	9	0	12	2	0	0	0	0	0
( 13 )	0	3	0	0	4	6	6	0	9	2	0	0	0	0	0
( 14 )	0	3	0	0	0	11	0	8	3	0	0	0	0	0	0
( 15 )	0	0	0	0	0	0	3	0	0	0	0	0	0	0	0
( 16 )	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
( 17 )	12	10	0	0	0	1	0	0	0	7	0	0	0	0	0
( 18 )	0	9	0	0	0	0	5	0	1	0	4	0	0	0	0
( 19 )	4	1	3	0	1	1	1	0	5	0	0	0	0	0	0
( 20 )	13	0	0	0	0	14	0	0	14	0	0	0	0	0	0
( 21 )	4	5	0	0	9	5	4	0	39	20	0	1	6	0	0
( 22 )	4	4	0	0	0	0	0	0	1	0	0	0	0	0	0
( 23 )	0	0	0	0	10	0	15	0	8	0	0	0	0	0	0
( 24 )	22	0	0	4	8	7	11	0	42	0	9	0	1	1	0
( 25 )	0	0	0	0	0	0	17	0	2	0	0	0	5	0	0
( 26 )	11	16	0	0	0	12	0	0	28	6	2	1	0	0	0
( 27 )	0	1	0	4	0	1	1	2	0	1	0	0	0	0	0
( 28 )	4	7	4	4	0	5	13	0	12	6	0	1	1	1	0
( 29 )	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
( 30 )	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
( 31 )	5	14	0	0	0	3	7	0	3	4	0	0	0	0	0
( 32 )	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
( 33 )	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0
( 34 )	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
( 35 )	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
( 36 )	0	0	0	0	0	0	0	0	0	4	0	0	0	0	0
( 37 )	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
( 38 )	0	0	0	0	3	0	0	0	0	0	0	0	0	0	0
( 39 )	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
( 40 )	6	0	0	0	0	0	0	0	0	0	0	0	0	0	0
( 41 )	9	2	0	0	0	0	0	0	6	1	0	0	0	0	0
( 42 )	13	6	0	0	0	8	0	0	39	1	0	5	0	0	0
( 43 )	6	0	0	0	63	22	0	0	16	0	0	0	0	0	0
TOTAL	187	148	7	17	114	118	132	10	345	71	25	43	52	42	6

( Type:Heavy goods / Purpose:Total )

	( 16)	( 17)	( 18)	( 19)	( 20)	( 21)	( 22)	( 23)	( 24)	( 25)	( 26)	( 27)	( 28)	( 29)	( 30)
( 1)	0	4	0	9	0	8	0	0	0	0	1	0	17	0	0
( 2)	0	10	0	1	4	9	0	0	3	0	22	0	0	0	0
( 3)	0	0	0	0	0	0	0	0	0	0	27	0	0	0	0
( 4)	0	0	0	4	0	0	0	0	0	0	0	0	0	0	0
( 5)	0	5	0	0	0	1	4	0	0	0	17	0	0	0	0
( 6)	0	0	0	2	3	0	0	0	0	0	0	0	0	0	0
( 7)	0	4	15	2	18	18	3	0	6	4	6	4	4	0	0
( 8)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
( 9)	0	4	2	8	29	25	15	5	13	0	4	0	17	0	0
( 10)	0	0	4	0	0	4	7	0	0	0	0	0	4	0	0
( 11)	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0
( 12)	0	0	0	0	0	2	3	5	1	0	20	0	3	0	0
( 13)	0	8	0	0	0	4	0	0	0	0	0	0	0	0	0
( 14)	0	0	0	1	0	0	0	0	0	4	0	0	0	0	0
( 15)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
( 16)	0	0	0	0	0	0	5	0	0	0	0	0	0	0	0
( 17)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
( 18)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
( 19)	0	0	0	0	0	0	0	0	16	6	0	2	4	0	0
( 20)	0	0	0	0	0	0	0	6	0	4	0	7	10	0	0
( 21)	0	0	0	8	0	0	0	0	10	2	3	0	17	0	0
( 22)	0	0	0	0	0	0	0	0	12	0	0	0	21	0	0
( 23)	0	0	0	2	0	0	5	0	0	0	0	0	4	0	0
( 24)	0	0	0	13	8	4	4	0	0	0	2	0	1	0	0
( 25)	0	0	0	0	8	0	4	0	0	0	0	0	0	0	0
( 26)	0	0	0	38	0	12	2	2	6	2	0	0	11	0	0
( 27)	0	0	0	0	0	0	0	3	0	0	0	0	6	0	0
( 28)	0	3	0	13	4	27	9	0	11	0	15	4	0	0	0
( 29)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
( 30)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
( 31)	0	0	0	0	0	0	0	0	4	0	0	0	12	0	8
( 32)	0	0	0	0	0	0	0	0	0	0	0	0	2	0	0
( 33)	0	0	0	0	0	3	0	0	0	0	3	0	0	0	0
( 34)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
( 35)	0	0	0	0	0	0	0	0	0	0	4	0	0	0	0
( 36)	0	0	0	0	0	0	0	0	4	0	0	0	0	0	0
( 37)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
( 38)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
( 39)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
( 40)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
( 41)	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0
( 42)	0	0	0	0	0	0	0	0	6	0	12	0	2	0	0
( 43)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TOTAL	0	39	21	101	66	122	57	18	103	26	142	14	139	0	8

( Type:Heavy goods / Purpose:Total )

	( 31)	( 32)	( 33)	( 34)	( 35)	( 36)	( 37)	( 38)	( 39)	( 40)	( 41)	( 42)	( 43)	TOTAL
( 1)	1	0	0	0	0	0	0	0	0	0	16	11	0	116
( 2)	0	0	0	0	0	0	0	7	0	0	0	0	3	97
( 3)	0	0	0	0	0	0	0	0	0	0	0	0	0	34
( 4)	0	0	0	4	0	0	0	0	0	0	0	0	0	36
( 5)	0	0	0	0	0	0	0	0	0	0	0	12	0	71
( 6)	14	0	0	0	0	0	0	0	0	0	0	4	0	98
( 7)	3	0	0	0	0	1	0	0	0	0	27	5	0	246
( 8)	0	0	0	0	0	0	0	0	0	0	0	0	0	0
( 9)	10	0	31	0	4	0	0	0	0	0	4	8	7	282
( 10)	0	0	0	0	0	0	0	0	0	0	0	2	0	64
( 11)	0	0	0	0	0	0	0	0	0	0	0	0	0	1
( 12)	0	0	0	0	0	0	0	0	0	0	1	0	0	58
( 13)	0	0	0	0	0	0	0	0	0	0	0	4	0	19
( 14)	0	0	0	0	0	0	0	0	0	0	0	0	0	56
( 15)	0	0	0	0	0	0	0	0	0	0	0	0	0	30
( 16)	0	0	0	0	0	0	0	0	0	0	0	0	0	3
( 17)	0	0	0	0	0	0	0	0	0	0	0	0	0	0
( 18)	0	0	0	0	0	0	0	0	0	0	0	0	0	35
( 19)	0	0	0	0	0	0	0	0	0	0	0	0	1	19
( 20)	0	0	0	0	0	0	0	0	0	0	0	0	0	45
( 21)	0	0	0	0	0	0	0	0	0	0	0	0	0	55
( 22)	0	0	0	0	0	0	0	0	0	0	0	0	0	42
( 23)	4	0	0	0	0	0	0	0	0	0	0	0	0	43
( 24)	0	0	0	0	0	0	0	0	0	0	0	2	0	131
( 25)	0	0	0	0	4	0	0	0	0	0	0	0	0	45
( 26)	5	0	2	0	0	5	0	0	0	0	0	0	0	161
( 27)	10	0	0	0	0	0	0	0	0	0	0	0	0	19
( 28)	16	0	0	0	0	0	0	0	0	0	0	0	0	159
( 29)	0	0	0	0	0	0	0	0	0	0	0	0	0	0
( 30)	0	0	0	0	0	0	0	0	0	0	0	0	0	0
( 31)	0	0	0	0	0	0	0	0	0	0	0	0	0	60
( 32)	0	0	0	0	0	0	0	0	0	0	0	0	0	0
( 33)	0	0	0	0	0	0	0	0	0	0	0	0	0	9
( 34)	0	0	0	0	0	0	0	0	0	0	0	0	0	0
( 35)	0	0	0	0	0	0	0	0	0	0	0	0	0	4
( 36)	0	0	0	0	0	0	0	0	0	0	0	0	0	8
( 37)	0	0	0	0	0	0	0	0	0	0	0	0	0	0
( 38)	0	0	0	0	0	0	0	0	0	0	0	0	0	3
( 39)	0	0	0	0	0	0	0	0	0	0	0	0	0	6
( 40)	0	0	0	0	0	0	0	0	0	0	0	0	0	6
( 41)	0	0	0	0	0	0	0	0	0	0	0	0	0	19
( 42)	0	0	0	0	0	0	0	0	0	0	0	0	0	92
( 43)	0	0	0	0	0	0	0	0	0	0	0	0	0	107
TOTAL	53	0	33	4	4	5	5	7	0	0	48	58	10	2400

		( Type:Total / Purpose:Total )													
	( 1 )	( 2 )	( 3 )	( 4 )	( 5 )	( 6 )	( 7 )	( 8 )	( 9 )	( 10 )	( 11 )	( 12 )	( 13 )	( 14 )	( 15 )
( 1 )	0	66	47	1976	0	1617	3942	6	1900	988	195	512	3290	875	164
( 2 )	133	0	0	234	0	784	1391	113	692	643	187	255	813	318	16
( 3 )	36	13	0	307	0	134	62	0	357	18	8	87	223	57	34
( 4 )	2561	322	119	0	94	464	964	40	519	207	19	278	425	193	98
( 5 )	11	0	6	19	0	214	749	0	335	97	67	65	90	49	64
( 6 )	1334	712	127	467	181	0	1015	0	342	95	31	144	389	180	56
( 7 )	2620	1237	205	791	860	715	0	0	422	324	56	660	633	196	80
( 8 )	0	183	0	0	0	0	5	0	12	0	0	0	0	0	0
( 9 )	1663	462	195	626	242	382	465	9	0	199	34	240	411	75	16
( 10 )	788	643	35	145	124	118	228	0	239	0	0	61	168	44	15
( 11 )	203	158	7	35	55	47	177	29	97	0	0	0	19	10	0
( 12 )	561	325	13	275	150	217	424	0	267	151	0	0	480	278	54
( 13 )	3080	587	123	292	115	412	595	6	276	98	25	695	0	18	4
( 14 )	993	297	115	190	26	139	194	8	128	4	6	183	18	0	0
( 15 )	137	79	0	76	0	0	29	0	77	41	0	25	0	0	0
( 16 )	57	16	0	15	0	0	16	0	44	54	0	15	26	34	0
( 17 )	682	773	27	169	78	191	727	0	155	0	0	150	181	199	0
( 18 )	118	110	23	83	146	137	155	0	198	118	4	117	72	0	0
( 19 )	4795	796	139	718	122	551	1424	38	807	181	31	506	41	0	24
( 20 )	1197	144	86	197	112	176	630	2	162	234	8	293	39	4	0
( 21 )	3322	748	112	740	523	387	683	17	757	350	51	397	346	163	0
( 22 )	537	341	43	204	49	169	803	0	195	409	0	70	20	13	0
( 23 )	367	289	0	121	163	310	245	0	199	0	0	0	87	31	0
( 24 )	1355	730	72	526	281	168	375	0	373	98	19	213	225	145	8
( 25 )	690	273	74	275	157	51	251	0	382	11	0	68	209	40	0
( 26 )	1977	1572	294	614	178	495	274	0	232	302	40	176	379	120	0
( 27 )	221	139	33	74	57	94	18	2	19	18	0	75	35	20	47
( 28 )	475	490	198	357	310	298	738	0	540	284	29	241	116	71	6
( 29 )	0	0	0	0	0	0	0	0	0	0	0	17	0	0	0
( 30 )	19	101	14	0	0	0	0	0	248	22	0	0	0	0	0
( 31 )	353	59	88	100	13	79	311	0	58	61	0	78	6	0	0
( 32 )	299	33	0	0	0	0	0	0	79	0	0	0	0	0	0
( 33 )	511	267	0	113	22	32	438	0	245	0	38	16	20	8	0
( 34 )	260	44	0	0	0	0	36	0	0	0	0	0	0	0	0
( 35 )	79	12	0	0	0	27	16	0	0	0	0	0	0	0	0
( 36 )	133	86	0	22	0	1	95	0	19	22	0	9	0	6	0
( 37 )	32	0	0	0	0	0	0	0	36	0	0	0	0	0	13
( 38 )	6	42	0	0	4	0	16	0	23	1	0	16	0	0	0
( 39 )	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
( 40 )	6	0	0	0	0	0	0	0	0	0	0	0	0	0	0
( 41 )	106	43	0	0	0	41	0	0	53	1	0	0	4	0	0
( 42 )	248	61	4	35	27	77	25	0	183	16	0	5	34	0	0
( 43 )	18	0	0	0	63	22	15	0	28	77	0	13	0	0	0
TOTAL	31983	12253	2199	9796	4152	8543	17531	261	10698	5124	848	5680	8799	3147	699

		( Type:Total / Purpose:Total )													
	( 16 )	( 17 )	( 18 )	( 19 )	( 20 )	( 21 )	( 22 )	( 23 )	( 24 )	( 25 )	( 26 )	( 27 )	( 28 )	( 29 )	( 30 )
( 1 )	24	772	128	4679	996	2992	508	359	782	740	1834	211	389	13	51
( 2 )	20	744	167	718	458	659	175	322	129	188	1089	178	584	0	101
( 3 )	0	91	0	305	63	208	104	91	9	42	213	68	310	0	0
( 4 )	11	198	52	831	246	448	84	163	280	169	583	69	181	0	0
( 5 )	0	150	113	92	144	227	132	30	53	131	463	31	319	0	0
( 6 )	0	111	17	721	275	453	221	148	80	10	379	153	171	0	72
( 7 )	36	745	350	924	466	685	715	442	420	279	359	41	631	17	0
( 8 )	0	0	0	12	0	0	10	0	0	0	0	0	0	0	0
( 9 )	6	312	167	873	405	655	132	149	437	316	215	28	644	0	77
( 10 )	0	24	92	239	143	572	581	0	0	0	197	52	193	0	7
( 11 )	0	1	0	0	20	45	0	0	0	0	23	0	10	0	0
( 12 )	69	477	12	705	203	376	31	16	131	17	201	11	79	0	0
( 13 )	3	444	0	95	47	210	3	99	371	52	334	83	58	0	20
( 14 )	23	393	48	9	0	65	19	15	154	180	174	6	25	0	118
( 15 )	0	0	0	51	0	0	0	0	37	0	0	0	0	0	13
( 16 )	0	0	0	35	3	0	0	0	0	0	78	0	0	0	0
( 17 )	38	0	0	359	0	62	51	121	656	218	209	20	470	0	0
( 18 )	0	0	0	69	0	0	0	0	460	14	47	7	49	0	0
( 19 )	49	393	76	0	105	157	76	107	715	270	599	56	506	0	0
( 20 )	35	64	6	39	0	28	0	353	238	156	128	62	288	0	252
( 21 )	0	9	0	664	0	0	149	197	1040	373	436	82	949	114	0
( 22 )	0	0	0	143	36	183	0	0	1598	252	266	6	234	0	0
( 23 )	0	11	0	556	64	215	99	0	0	0	158	37	888	0	0
( 24 )	18	277	127	579	344	888	1575	0	0	265	164	14	186	0	0
( 25 )	0	95	0	494	317	509	461	0	0	0	0	23	426	0	48
( 26 )	13	157	80	954	136	429	39	263	198	189	0	124	806	0	19
( 27 )	0	0	15	61	35	124	2	33	39	14	46	0	125	0	0
( 28 )	0	298	596	556	303	814	79	120	441	749	751	224	0	0	0
( 29 )	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
( 30 )	0	0	0	49	66	135	0	0	0	6	66	0	0	0	0
( 31 )	3	0	0	0	0	0	112	0	71	126	11	8	342	0	8
( 32 )	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
( 33 )	0	401	0	132	0	142	0	41	0	0	17	3	121	0	0
( 34 )	0	7	0	0	0	0	0	0	0	0	0	0	0	0	0
( 35 )	0	0	0	0	0	0	0	0	0	0	4	0	0	0	0
( 36 )	10	0	0	0	7	0	0	10	46	10	89	0	21	0	0
( 37 )	0	0	0	0	0	0	0	0	0	0	10	0	0	0	0
( 38 )	0	0	0	0	0	35	0	1	0	0	15	0	0	0	0
( 39 )	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
( 40 )	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
( 41 )	0	0	0	45	0	0	0	0	0	7	1	14	0	0	0
( 42 )	0	0	0	31	7	18	0	0	10	0	119	0	2	0	6
( 43 )	0	0	0	0	0	27	0	0	0	0	11	0	6	0	0
TOTAL	358	6174	2046	15018	4889	11361	5352	3080	8395	4766	9309	1664	9027	144	792

( Type:Total / Purpose:Total )

	( 31)	( 32)	( 33)	( 34)	( 35)	( 36)	( 37)	( 38)	( 39)	( 40)	( 41)	( 42)	( 43)	TOTAL
( 1)	362	28	597	0	66	32	0	0	0	0	42	170	0	31353
( 2)	2	0	196	141	0	15	0	7	0	0	0	289	3	11764
( 3)	17	0	0	0	3	0	0	0	0	0	0	7	0	2865
( 4)	76	101	103	4	7	51	17	0	0	0	0	12	13	10002
( 5)	5	0	230	0	0	0	1	0	0	0	0	22	0	3909
( 6)	95	0	0	4	32	82	3	0	0	0	0	12	0	8112
( 7)	385	1	428	0	11	39	0	3	0	0	41	13	0	15810
( 8)	0	0	0	0	0	0	0	0	0	0	0	0	0	222
( 9)	50	0	45	4	7	21	0	0	0	0	40	81	21	9695
( 10)	0	0	0	0	0	8	0	0	0	0	0	8	0	4724
( 11)	11	0	11	0	0	0	0	0	0	0	0	0	0	958
( 12)	35	0	62	0	0	0	0	0	0	0	11	0	0	5631
( 13)	3	0	10	0	8	40	10	13	0	0	14	4	0	8247
( 14)	37	8	0	0	31	0	0	0	0	0	0	7	0	3613
( 15)	0	0	23	0	0	0	0	0	0	0	0	0	0	588
( 16)	0	0	0	0	0	0	0	0	0	0	0	0	0	393
( 17)	144	0	195	0	0	0	0	0	0	0	0	0	0	5875
( 18)	0	0	0	0	0	0	0	0	0	0	0	0	0	1927
( 19)	36	0	20	0	8	7	5	0	0	0	14	13	0	13379
( 20)	0	0	5	0	13	0	4	0	0	0	0	0	0	4949
( 21)	0	0	157	0	0	0	8	0	0	0	0	0	0	12774
( 22)	0	0	0	0	0	0	0	0	0	0	0	0	0	5571
( 23)	174	0	0	0	16	4	0	0	0	0	0	0	0	4034
( 24)	75	6	0	4	0	13	0	0	0	0	0	2	0	9125
( 25)	122	0	0	0	4	8	0	0	0	0	0	0	0	5088
( 26)	59	0	116	22	1	1	15	38	0	0	9	12	0	10333
( 27)	0	0	0	4	0	0	0	0	0	0	0	0	0	1350
( 28)	73	0	52	6	0	6	11	0	0	0	6	3	0	9241
( 29)	0	0	0	0	0	0	0	0	0	0	0	0	0	17
( 30)	0	0	0	0	0	0	0	0	0	0	0	0	0	726
( 31)	0	0	22	0	0	0	0	0	0	0	0	0	0	1909
( 32)	0	0	0	0	0	0	0	0	0	0	0	0	0	411
( 33)	0	0	0	0	0	0	0	0	0	0	0	0	0	2567
( 34)	0	0	0	0	0	0	0	0	0	0	0	0	0	347
( 35)	0	0	0	0	0	0	0	0	0	0	0	0	0	138
( 36)	0	0	0	6	0	0	0	125	0	0	0	0	0	711
( 37)	0	0	0	0	0	0	0	0	0	0	0	0	0	91
( 38)	0	0	0	0	0	0	0	0	0	0	0	0	0	159
( 39)	0	0	0	0	0	0	0	0	0	0	0	0	0	6
( 40)	0	0	0	0	0	0	0	0	0	0	0	0	0	315
( 41)	0	0	0	0	0	0	0	0	0	0	0	0	0	908
( 42)	0	0	0	0	0	0	0	0	0	0	0	0	0	280
( 43)	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TOTAL	1761	144	2272	189	207	327	74	186	0	0	177	655	37	210117

Appendix 5-2: Present O - D Table by Type of Vehicle

		( Type:Car, taxi / Purpose:Total )													
	( 1 )	( 2 )	( 3 )	( 4 )	( 5 )	( 6 )	( 7 )	( 8 )	( 9 )	( 10 )	( 11 )	( 12 )	( 13 )	( 14 )	( 15 )
( 1 )	0	43	42	1403	0	995	2089	4	1152	539	72	335	2374	574	131
( 2 )	91	0	0	148	0	517	557	34	358	350	102	186	565	208	12
( 3 )	24	4	0	257	0	64	18	0	204	14	0	57	167	55	17
( 4 )	1707	214	84	0	71	284	628	24	333	130	7	199	264	155	62
( 5 )	10	0	5	6	0	54	147	0	125	44	36	17	52	2	23
( 6 )	879	402	71	270	69	0	366	0	77	48	17	78	274	69	19
( 7 )	1365	550	80	299	197	270	0	0	98	146	19	279	271	107	58
( 8 )	0	28	0	0	0	0	5	0	0	0	0	0	0	0	0
( 9 )	1015	190	96	323	53	134	51	0	0	54	6	130	267	31	6
( 10 )	514	361	16	59	49	32	102	0	71	0	0	0	41	5	0
( 11 )	89	61	5	20	5	5	30	21	67	0	0	0	13	9	0
( 12 )	415	216	5	207	81	89	166	0	145	73	0	0	307	194	17
( 13 )	1933	337	76	109	72	243	142	4	147	65	22	423	0	5	0
( 14 )	614	164	86	74	5	41	19	0	61	4	5	105	16	0	0
( 15 )	55	33	0	28	0	0	5	0	47	9	0	13	0	0	0
( 16 )	23	0	0	7	0	0	0	0	6	0	0	0	9	12	0
( 17 )	323	222	0	74	5	52	59	0	24	0	0	27	63	52	0
( 18 )	28	13	10	43	16	18	15	0	7	7	0	24	18	0	0
( 19 )	3013	424	52	400	29	202	602	0	428	81	20	286	19	0	21
( 20 )	682	61	40	94	7	88	186	0	38	11	3	87	30	0	0
( 21 )	1820	278	37	396	128	101	155	0	196	81	9	136	205	67	0
( 22 )	185	37	0	59	4	22	27	0	12	19	0	9	9	0	0
( 23 )	198	69	0	75	19	56	14	0	55	0	0	0	62	11	0
( 24 )	550	157	43	281	41	38	54	0	72	19	0	69	121	32	0
( 25 )	331	62	7	91	5	26	43	0	107	0	0	23	107	0	0
( 26 )	1005	892	157	204	65	247	129	0	56	147	21	131	228	38	0
( 27 )	130	95	6	21	34	12	3	0	12	7	0	42	14	11	0
( 28 )	111	68	15	99	11	27	22	0	33	12	4	14	29	13	0
( 29 )	0	0	0	0	0	0	0	0	0	0	0	11	0	0	0
( 30 )	4	0	0	0	0	0	0	0	6	0	0	0	0	0	0
( 31 )	132	2	14	22	0	1	49	0	0	0	0	12	5	0	0
( 32 )	18	0	0	0	0	0	0	0	7	0	0	0	0	0	0
( 33 )	121	55	0	93	5	0	3	0	9	0	0	0	5	0	0
( 34 )	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
( 35 )	43	0	0	0	0	16	7	0	0	0	0	0	0	0	0
( 36 )	30	2	0	12	0	0	10	0	5	0	0	0	0	0	0
( 37 )	0	0	0	0	0	0	0	0	9	0	0	0	0	0	0
( 38 )	0	2	0	0	0	0	3	0	0	0	0	0	0	0	0
( 39 )	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
( 40 )	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
( 41 )	23	0	0	0	0	10	0	0	0	0	0	0	0	0	0
( 42 )	80	2	0	0	9	13	0	0	7	0	0	0	6	0	0
( 43 )	5	0	0	0	0	0	0	0	5	0	0	0	0	0	0
TOTAL	17568	5052	947	5254	980	3863	5714	87	3973	1866	343	2693	5541	1630	355

		( Type:Car, taxi / Purpose:Total )													
	( 16 )	( 17 )	( 18 )	( 19 )	( 20 )	( 21 )	( 22 )	( 23 )	( 24 )	( 25 )	( 26 )	( 27 )	( 28 )	( 29 )	( 30 )
( 1 )	0	305	14	3150	518	1581	150	111	229	473	1089	158	82	8	4
( 2 )	7	216	26	386	189	303	36	33	44	47	664	94	72	0	0
( 3 )	0	33	0	192	27	109	17	38	8	10	120	15	30	0	0
( 4 )	7	61	12	579	145	254	36	42	147	110	376	52	40	0	0
( 5 )	0	12	7	42	0	24	12	4	0	41	193	22	31	0	0
( 6 )	0	0	0	379	92	195	33	51	31	0	207	37	26	0	0
( 7 )	7	82	31	415	120	119	33	31	70	23	93	0	26	0	0
( 8 )	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
( 9 )	0	68	22	414	95	158	10	26	112	86	58	15	41	0	9
( 10 )	0	0	0	87	36	120	56	0	0	0	84	15	16	0	0
( 11 )	0	0	0	0	17	21	0	0	0	0	4	0	0	0	0
( 12 )	23	101	0	477	77	160	5	4	31	0	82	0	8	0	0
( 13 )	0	152	0	72	27	76	0	55	149	34	148	29	1	0	5
( 14 )	12	97	0	6	0	17	5	7	25	107	98	2	4	0	17
( 15 )	0	0	0	20	0	0	0	0	0	0	0	0	0	0	0
( 16 )	0	0	0	6	0	0	0	0	0	0	0	0	0	0	0
( 17 )	0	0	0	123	0	5	0	0	43	20	63	6	5	0	0
( 18 )	0	0	0	10	0	0	0	0	7	0	0	0	0	0	0
( 19 )	5	66	0	0	40	65	7	6	258	141	342	28	32	0	0
( 20 )	7	19	0	17	0	6	0	12	22	35	54	9	41	0	26
( 21 )	0	0	0	324	0	0	6	4	149	57	139	30	5	8	0
( 22 )	0	0	0	15	0	0	0	0	32	10	25	7	5	0	0
( 23 )	0	0	0	95	6	23	0	0	0	0	34	7	17	0	0
( 24 )	0	5	2	204	30	111	19	0	0	21	55	3	0	0	0
( 25 )	0	12	0	274	48	53	5	0	0	0	45	10	16	0	6
( 26 )	5	40	17	424	49	192	5	54	45	67	19	22	116	0	0
( 27 )	0	0	0	24	8	57	0	0	10	12	0	0	42	0	0
( 28 )	0	12	9	57	10	27	0	0	4	18	107	32	0	0	0
( 29 )	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
( 30 )	0	0	0	6	0	6	0	0	0	0	0	5	0	0	0
( 31 )	0	0	0	0	0	0	4	0	0	9	0	0	13	0	0
( 32 )	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
( 33 )	0	0	0	53	0	30	0	0	0	0	0	0	6	0	0
( 34 )	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
( 35 )	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
( 36 )	7	0	0	0	0	0	0	0	2	7	12	0	6	0	0
( 37 )	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
( 38 )	0	0	0	0	0	17	0	1	0	0	0	0	0	0	0
( 39 )	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
( 40 )	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
( 41 )	0	0	0	27	0	0	0	0	0	0	0	0	6	0	0
( 42 )	0	0	0	16	0	0	0	0	0	0	71	0	0	0	0
( 43 )	0	0	0	0	0	12	0	0	0	0	0	0	2	0	0
TOTAL	80	1281	140	7894	1534	3740	439	482	1418	1338	4187	599	664	16	67

( Type:Car, taxi / Purpose:Total )														
	( 31 )	( 32 )	( 33 )	( 34 )	( 35 )	( 36 )	( 37 )	( 38 )	( 39 )	( 40 )	( 41 )	( 42 )	( 43 )	TOTAL
( 1 )	127	12	342	0	31	18	0	0	0	0	0	73	0	18228
( 2 )	0	0	56	0	0	0	0	0	0	0	0	166	0	5467
( 3 )	0	0	0	0	0	0	0	0	0	0	0	4	0	1467
( 4 )	10	0	15	0	4	34	0	0	0	0	0	0	6	6092
( 5 )	0	0	27	0	0	0	0	0	0	0	0	0	0	936
( 6 )	7	0	0	0	15	0	0	0	0	0	0	5	0	3697
( 7 )	9	0	11	0	6	5	0	0	0	0	0	0	0	4827
( 8 )	0	0	0	0	0	0	0	0	0	0	0	0	0	33
( 9 )	0	0	0	0	0	0	0	0	0	0	0	13	7	3490
( 10 )	0	0	0	0	0	5	0	0	0	0	0	0	0	1669
( 11 )	0	0	0	0	0	0	0	0	0	0	0	0	0	375
( 12 )	0	0	10	0	0	0	0	0	0	0	0	0	0	2893
( 13 )	0	0	0	0	0	25	0	0	0	0	0	0	0	4431
( 14 )	21	0	0	0	0	0	0	0	0	0	0	0	0	1612
( 15 )	0	0	0	0	0	0	0	0	0	0	0	0	0	210
( 16 )	0	0	0	0	0	0	0	0	0	0	0	0	0	63
( 17 )	6	0	0	0	0	0	0	0	0	0	0	0	0	1172
( 18 )	0	0	0	0	0	0	0	0	0	0	0	0	0	219
( 19 )	0	0	8	0	5	4	4	0	0	0	0	8	0	6885
( 20 )	0	0	0	0	9	0	2	0	0	0	0	0	0	1555
( 21 )	0	6	0	0	0	0	5	0	0	0	0	0	0	4452
( 22 )	0	0	0	0	0	0	0	0	0	0	0	0	0	470
( 23 )	0	0	0	0	0	0	0	0	0	0	0	0	0	741
( 24 )	0	0	0	0	0	0	0	0	0	0	0	0	0	1927
( 25 )	5	0	0	0	0	0	0	0	0	0	0	0	0	1276
( 26 )	6	0	12	0	0	1	0	0	0	0	6	0	0	4381
( 27 )	0	0	0	0	0	0	0	0	0	0	0	0	0	559
( 28 )	0	0	0	0	0	3	0	0	0	0	0	0	0	737
( 29 )	0	0	0	0	0	0	0	0	0	0	0	0	0	11
( 30 )	0	0	0	0	0	0	0	0	0	0	0	0	0	27
( 31 )	0	0	0	0	0	0	0	0	0	0	0	0	0	263
( 32 )	0	0	0	0	0	0	0	0	0	0	0	0	0	25
( 33 )	0	0	0	0	0	0	0	0	0	0	0	0	0	380
( 34 )	0	0	0	0	0	0	0	0	0	0	0	0	0	2
( 35 )	0	0	0	0	0	0	0	0	0	0	0	0	0	66
( 36 )	0	0	0	0	0	0	0	0	0	0	0	0	0	93
( 37 )	0	0	0	0	0	0	0	0	0	0	0	0	0	20
( 38 )	0	0	0	0	0	0	0	0	0	0	0	0	0	23
( 39 )	0	0	0	0	0	0	0	0	0	0	0	0	0	0
( 40 )	0	0	0	0	0	0	0	0	0	0	0	0	0	0
( 41 )	0	0	0	0	0	0	0	0	0	0	0	0	0	74
( 42 )	0	0	0	0	0	0	0	0	0	0	0	0	0	0
( 43 )	0	0	0	0	0	0	0	0	0	0	0	0	0	234
( 44 )	0	0	0	0	0	0	0	0	0	0	0	0	0	24
TOTAL	204	12	481	0	70	95	11	0	0	0	6	269	13	80906

( Type:Light goods / Purpose:Total )															
	( 1 )	( 2 )	( 3 )	( 4 )	( 5 )	( 6 )	( 7 )	( 8 )	( 9 )	( 10 )	( 11 )	( 12 )	( 13 )	( 14 )	( 15 )
( 1 )	0	5	0	366	0	397	1094	0	451	275	66	100	520	169	15
( 2 )	25	0	0	61	0	143	395	5	161	128	51	30	142	59	3
( 3 )	7	4	0	20	0	48	25	0	56	0	6	13	17	0	0
( 4 )	557	72	19	0	9	122	138	0	105	54	10	42	114	14	11
( 5 )	0	0	0	10	0	97	109	0	78	24	0	24	26	19	16
( 6 )	295	196	19	132	40	0	277	0	138	23	2	28	54	23	0
( 7 )	644	280	27	356	242	216	0	0	84	43	8	165	226	10	0
( 8 )	0	28	0	0	0	0	0	0	11	0	0	0	0	0	0
( 9 )	327	126	34	171	87	119	186	0	0	34	8	34	73	15	5
( 10 )	153	121	12	62	10	58	12	0	25	0	0	39	96	25	5
( 11 )	77	50	0	10	19	16	79	0	8	0	0	0	5	0	0
( 12 )	74	46	3	31	18	62	105	0	5	12	0	0	114	37	18
( 13 )	793	173	34	65	18	94	305	0	76	13	0	173	0	11	3
( 14 )	204	84	15	86	2	60	72	0	29	0	0	20	0	0	0
( 15 )	46	17	0	38	0	0	0	0	8	0	0	0	0	0	0
( 16 )	15	9	0	0	0	0	5	0	10	0	0	10	11	0	0
( 17 )	173	132	19	27	24	45	33	0	32	0	0	37	56	23	0
( 18 )	51	28	0	5	0	23	0	0	39	5	0	0	6	0	0
( 19 )	1164	208	56	221	52	160	368	13	192	55	0	120	16	0	0
( 20 )	311	22	9	43	6	12	57	0	37	124	0	43	5	2	0
( 21 )	920	251	22	203	114	73	145	5	192	120	18	111	56	6	0
( 22 )	142	43	14	28	0	10	39	0	13	35	0	0	0	0	0
( 23 )	76	102	19	19	24	90	40	0	31	0	0	0	7	0	0
( 24 )	365	219	0	125	56	27	40	0	28	0	10	17	34	39	6
( 25 )	173	61	9	114	51	10	15	0	29	0	0	20	29	8	0
( 26 )	651	325	32	328	57	115	45	0	46	88	0	20	95	41	0
( 27 )	37	23	23	42	7	62	12	0	6	0	0	24	18	7	25
( 28 )	77	62	25	33	6	26	44	0	65	22	4	32	2	2	0
( 29 )	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
( 30 )	0	6	0	0	0	0	0	0	21	0	0	0	0	0	0
( 31 )	76	14	0	37	0	25	15	0	0	8	0	2	0	0	0
( 32 )	0	9	0	0	0	0	0	0	0	0	0	0	0	0	0
( 33 )	244	59	0	0	0	26	0	0	21	0	26	13	13	2	0
( 34 )	0	8	0	0	0	0	0	0	0	0	0	0	0	0	0
( 35 )	0	8	0	0	0	0	0	0	0	0	0	0	0	0	0
( 36 )	56	13	0	3	0	1	41	0	0	5	0	6	0	0	0
( 37 )	22	0	0	0	0	0	0	0	0	0	0	0	0	0	0
( 38 )	3	0	0	0	1	0	0	0	8	0	0	0	0	0	0
( 39 )	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
( 40 )	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
( 41 )	11	20	0	8	0	5	0	0	0	0	0	0	0	0	0
( 42 )	27	6	0	8	0	0	0	0	5	0	0	0	7	0	0
( 43 )	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TOTAL	7797	2830	372	2644	843	2112	3802	28	2049	1160	216	1113	1742	518	107



( Type:Light goods / Purpose:Total )

	( 16 )	( 17 )	( 18 )	( 19 )	( 20 )	( 21 )	( 22 )	( 23 )	( 24 )	( 25 )	( 26 )	( 27 )	( 28 )	( 29 )	( 30 )
( 1 )	20	205	35	966	239	812	151	57	351	61	476	23	56	0	7
( 2 )	6	52	23	197	82	154	9	66	17	37	226	57	67	0	7
( 3 )	0	18	0	59	8	40	0	21	0	5	18	27	39	0	0
( 4 )	2	86	7	150	65	110	18	67	14	22	121	11	37	0	0
( 5 )	0	33	16	32	60	91	7	0	20	0	102	5	3	0	0
( 6 )	0	64	8	222	58	125	23	0	10	5	87	93	28	0	8
( 7 )	0	81	30	252	55	159	7	0	29	39	61	14	41	0	0
( 8 )	0	0	0	11	0	0	0	0	0	0	0	0	0	0	0
( 9 )	0	19	16	195	74	151	5	8	33	27	45	6	82	0	0
( 10 )	0	7	11	85	35	190	15	0	0	0	45	24	6	0	0
( 11 )	0	0	0	0	0	0	0	0	0	0	16	0	6	0	0
( 12 )	7	91	0	73	45	70	0	0	25	6	53	8	8	0	0
( 13 )	3	73	0	13	11	77	0	10	100	5	114	41	25	0	0
( 14 )	8	0	0	0	0	17	0	0	35	24	22	0	0	0	0
( 15 )	0	0	0	16	0	0	0	0	0	0	0	0	0	0	0
( 16 )	0	0	0	8	2	0	0	0	0	0	43	0	0	0	0
( 17 )	0	0	0	57	0	0	0	8	25	0	37	12	16	0	0
( 18 )	0	0	0	8	0	0	0	0	14	0	18	6	0	0	0
( 19 )	27	68	18	0	23	33	0	33	75	25	150	11	70	0	0
( 20 )	0	3	2	0	0	6	0	10	31	0	30	20	30	0	0
( 21 )	0	6	0	91	0	0	0	34	102	61	75	23	38	0	0
( 22 )	0	0	0	5	0	16	0	0	5	4	21	5	0	0	0
( 23 )	0	0	0	81	0	9	0	0	0	0	18	22	33	0	0
( 24 )	7	43	0	62	30	115	54	0	0	0	5	6	21	0	0
( 25 )	0	6	0	39	13	55	30	6	0	0	0	10	0	0	0
( 26 )	0	23	21	264	28	96	7	21	57	55	0	77	125	0	0
( 27 )	0	0	5	23	14	12	2	28	0	0	16	0	15	0	0
( 28 )	0	10	0	64	8	26	2	6	10	20	65	61	0	0	0
( 29 )	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
( 30 )	0	0	0	6	8	0	0	0	0	0	0	0	0	0	0
( 31 )	0	0	0	0	0	0	0	0	0	0	0	0	11	0	0
( 32 )	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
( 33 )	0	50	0	26	0	2	0	11	0	0	11	3	0	0	0
( 34 )	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
( 35 )	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
( 36 )	0	0	0	0	0	0	0	0	0	0	39	0	0	0	0
( 37 )	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
( 38 )	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0
( 39 )	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
( 40 )	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
( 41 )	0	0	0	3	0	0	0	0	0	0	0	0	0	0	0
( 42 )	0	0	0	0	0	10	0	0	0	0	0	0	0	0	0
( 43 )	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TOTAL	86	938	192	3017	858	2376	343	389	1007	384	1924	565	757	0	22

( Type:Light goods / Purpose:Total )

	( 31 )	( 32 )	( 33 )	( 34 )	( 35 )	( 36 )	( 37 )	( 38 )	( 39 )	( 40 )	( 41 )	( 42 )	( 43 )	TOTAL
( 1 )	67	0	13	0	13	4	0	0	0	0	0	15	0	7029
( 2 )	0	0	0	11	13	5	6	0	0	0	0	16	0	2232
( 3 )	0	0	0	0	2	0	0	0	0	0	0	0	0	433
( 4 )	42	6	62	0	0	0	0	0	0	0	0	0	0	2169
( 5 )	0	0	0	0	0	0	0	0	0	0	0	0	0	772
( 6 )	29	0	0	3	6	42	2	0	0	0	0	0	0	2047
( 7 )	69	0	0	0	0	15	0	0	0	0	0	0	0	3167
( 8 )	0	0	0	0	0	0	0	0	0	0	0	0	0	50
( 9 )	0	0	0	0	0	0	0	0	0	0	0	11	0	1883
( 10 )	0	0	0	0	0	0	0	0	0	0	0	0	0	1036
( 11 )	0	0	10	0	0	0	0	0	0	0	0	0	0	304
( 12 )	14	0	5	0	0	0	0	0	0	0	0	0	0	960
( 13 )	0	0	8	0	5	0	7	0	0	0	0	0	0	2250
( 14 )	0	2	0	0	20	0	0	0	0	0	0	0	0	706
( 15 )	0	0	5	0	0	0	0	0	0	0	6	0	0	138
( 16 )	0	0	0	0	0	0	0	0	0	0	0	0	0	111
( 17 )	0	0	8	0	0	0	0	0	0	0	0	0	0	820
( 18 )	0	0	0	0	0	0	0	0	0	0	0	0	0	203
( 19 )	0	0	0	0	0	0	0	0	0	0	0	0	0	3172
( 20 )	0	0	0	0	0	0	1	0	0	0	0	0	0	813
( 21 )	0	0	25	0	0	0	0	0	0	0	0	0	0	2691
( 22 )	0	0	0	0	0	0	0	0	0	0	0	0	0	382
( 23 )	56	0	0	0	0	0	0	0	0	0	0	0	0	619
( 24 )	5	0	0	0	0	0	0	0	0	0	0	0	0	1314
( 25 )	0	0	0	0	0	5	0	0	0	0	0	0	0	686
( 26 )	13	0	6	12	0	0	3	11	0	0	0	0	0	2650
( 27 )	0	0	0	0	0	0	0	0	0	0	0	0	0	401
( 28 )	2	0	2	3	0	0	5	6	0	0	0	0	0	679
( 29 )	0	0	0	0	0	0	0	0	0	0	0	0	0	0
( 30 )	0	0	0	0	0	0	0	0	0	0	0	0	0	41
( 31 )	0	0	0	0	0	0	0	0	0	0	0	0	0	202
( 32 )	0	0	0	0	0	0	0	0	0	0	0	0	0	9
( 33 )	0	0	0	0	0	0	0	0	0	0	0	0	0	507
( 34 )	0	0	0	0	0	0	0	0	0	0	0	0	0	8
( 35 )	0	0	0	0	0	0	0	0	0	0	0	0	0	16
( 36 )	0	0	0	0	0	0	0	0	0	0	0	0	0	172
( 37 )	0	0	0	0	0	0	0	0	0	0	0	0	0	30
( 38 )	0	0	0	0	0	0	0	0	0	0	0	0	0	13
( 39 )	0	0	0	0	0	0	0	0	0	0	0	0	0	0
( 40 )	0	0	0	0	0	0	6	8	0	0	0	0	0	0
( 41 )	0	0	0	0	0	0	0	0	0	0	0	0	0	39
( 42 )	0	0	0	0	0	0	0	0	0	0	0	0	0	63
( 43 )	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TOTAL	305	8	149	29	46	71	18	11	0	0	0	50	0	10817

( Type:Medium goods / Purpose:Total )

	( 1 )	( 2 )	( 3 )	( 4 )	( 5 )	( 6 )	( 7 )	( 8 )	( 9 )	( 10 )	( 11 )	( 12 )	( 13 )	( 14 )	( 15 )
( 1 )	0	9	0	4	0	49	114	0	44	36	35	12	46	28	0
( 2 )	3	0	0	2	0	22	58	2	16	30	0	3	10	3	0
( 3 )	0	0	0	0	0	0	3	0	23	0	0	5	17	16	0
( 4 )	18	2	3	0	0	7	19	0	19	0	0	0	4	0	0
( 5 )	0	0	0	0	0	0	38	0	21	4	16	0	0	17	0
( 6 )	0	14	14	17	28	0	57	0	66	0	0	17	15	36	7
( 7 )	181	100	0	33	12	71	102	0	102	9	0	31	11	15	0
( 8 )	0	0	0	0	0	0	0	0	0	0	0	0	12	0	0
( 9 )	101	46	28	50	11	49	54	0	0	51	15	32	12	12	0
( 10 )	9	30	0	4	6	0	4	0	63	0	0	0	5	0	0
( 11 )	15	20	0	0	22	22	0	0	3	0	0	0	0	0	0
( 12 )	0	6	0	5	0	29	32	0	44	0	0	0	3	0	0
( 13 )	39	11	0	10	6	20	45	0	14	8	0	26	0	0	0
( 14 )	77	12	2	12	17	0	53	0	23	0	0	27	0	0	0
( 15 )	14	6	0	0	0	0	6	0	6	0	0	0	0	0	0
( 16 )	0	3	0	0	0	0	3	0	16	0	0	0	0	0	0
( 17 )	19	23	0	17	6	12	11	0	33	0	0	11	0	3	0
( 18 )	0	4	0	6	0	8	8	0	11	0	0	0	0	0	0
( 19 )	83	52	3	16	6	15	45	0	50	3	6	15	1	0	0
( 20 )	11	17	16	14	15	15	20	1	26	4	0	63	0	0	0
( 21 )	128	60	11	37	25	23	68	0	145	23	0	34	15	3	0
( 22 )	24	30	0	0	0	0	4	0	35	10	0	0	4	6	0
( 23 )	16	7	0	8	0	4	4	0	52	0	0	0	0	0	0
( 24 )	46	21	0	4	8	4	8	0	74	0	0	9	9	0	0
( 25 )	32	45	11	0	0	0	4	0	47	6	0	0	16	0	0
( 26 )	96	154	59	20	17	62	43	0	78	2	13	0	17	28	0
( 27 )	34	4	0	0	9	9	0	0	7	7	0	0	0	0	0
( 28 )	65	37	0	53	12	19	95	0	30	39	0	1	33	15	4
( 29 )	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
( 30 )	0	0	7	0	0	0	0	0	8	8	0	0	0	0	0
( 31 )	39	15	0	15	12	35	19	0	53	21	0	0	0	0	0
( 32 )	0	0	0	0	0	0	0	0	8	0	0	0	0	6	0
( 33 )	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
( 34 )	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
( 35 )	0	7	0	0	0	0	0	0	0	0	0	0	0	0	0
( 36 )	0	51	0	0	0	0	15	0	9	8	0	0	0	5	0
( 37 )	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0
( 38 )	0	21	0	0	0	0	6	0	3	0	0	10	0	0	0
( 39 )	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
( 40 )	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
( 41 )	35	9	0	0	0	6	0	0	28	0	0	0	3	0	0
( 42 )	50	35	3	19	12	3	21	0	102	12	0	7	12	0	0
( 43 )	0	0	0	0	0	0	0	0	0	44	0	0	0	0	0
TOTAL	1143	817	152	446	245	545	899	3	1299	329	85	301	236	228	29

( Type:Medium goods / Purpose:Total )

	( 16 )	( 17 )	( 18 )	( 19 )	( 20 )	( 21 )	( 22 )	( 23 )	( 24 )	( 25 )	( 26 )	( 27 )	( 28 )	( 29 )	( 30 )
( 1 )	0	45	0	30	59	173	0	5	33	35	68	9	45	0	11
( 2 )	0	80	0	36	46	52	11	64	17	2	40	7	60	0	0
( 3 )	0	0	0	3	1	0	0	2	0	0	23	16	12	0	0
( 4 )	0	0	6	12	0	15	0	3	15	0	28	0	17	0	0
( 5 )	0	14	0	0	21	21	2	0	9	0	34	0	13	0	0
( 6 )	0	0	0	19	29	17	19	0	21	0	24	5	28	0	0
( 7 )	0	18	6	37	1	18	31	11	0	15	119	9	55	8	0
( 8 )	0	0	0	0	0	0	2	25	24	16	0	4	0	0	0
( 9 )	6	5	7	129	71	127	23	0	0	0	82	6	44	0	7
( 10 )	0	6	8	21	3	23	23	0	0	0	28	6	40	0	1
( 11 )	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
( 12 )	0	25	5	45	7	18	0	4	8	3	6	2	8	0	0
( 13 )	0	15	0	0	0	26	3	0	16	0	30	5	8	0	0
( 14 )	0	39	46	1	0	21	0	0	12	2	36	0	11	0	8
( 15 )	0	0	0	0	0	0	0	0	11	0	4	0	0	0	0
( 16 )	0	0	0	0	0	0	0	0	0	0	3	0	0	0	0
( 17 )	11	0	0	13	0	7	6	0	12	0	0	0	29	0	0
( 18 )	0	0	0	0	0	0	0	3	8	7	14	8	15	0	0
( 19 )	0	27	0	0	0	19	0	0	18	3	10	20	24	0	0
( 20 )	0	0	0	0	0	0	0	4	30	27	140	8	76	0	0
( 21 )	0	0	0	74	0	0	0	0	43	3	8	8	8	0	0
( 22 )	0	0	0	0	10	3	0	0	0	0	20	0	9	0	0
( 23 )	0	4	0	176	3	3	7	0	0	0	33	3	15	0	0
( 24 )	0	6	0	14	12	13	6	0	0	0	0	0	4	0	0
( 25 )	0	0	0	8	13	23	0	0	0	5	0	13	52	0	7
( 26 )	0	0	0	110	4	36	3	34	5	0	7	0	17	0	0
( 27 )	0	0	0	6	11	11	0	2	10	0	51	14	0	0	0
( 28 )	0	9	9	00	23	73	6	11	16	0	0	0	0	0	0
( 29 )	0	0	0	0	0	0	0	0	0	2	0	0	0	0	0
( 30 )	0	0	0	0	0	0	0	0	20	13	10	8	48	0	0
( 31 )	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0
( 32 )	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
( 33 )	0	18	0	7	0	16	0	0	0	0	0	0	0	0	0
( 34 )	0	5	0	0	0	0	0	0	0	0	0	0	0	0	0
( 35 )	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
( 36 )	6	0	0	0	6	0	0	8	22	0	0	0	0	0	0
( 37 )	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
( 38 )	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
( 39 )	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
( 40 )	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
( 41 )	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0
( 42 )	0	0	0	5	6	0	0	0	3	0	0	0	0	0	3
( 43 )	0	0	0	0	0	0	0	0	0	0	7	0	0	0	0
TOTAL	20	316	87	841	300	734	141	192	360	151	871	141	662	8	37

( Type:Medium goods / Purpose:Total )

	( 31)	( 32)	( 33)	( 34)	( 35)	( 36)	( 37)	( 38)	( 39)	( 40)	( 41)	( 42)	( 43)	TOTAL
( 1)	51	0	7	0	0	0	0	0	0	0	22	20	0	999
( 2)	2	0	7	1	0	6	0	0	0	0	0	0	0	590
( 3)	0	0	0	0	0	0	0	0	0	0	0	0	0	132
( 4)	0	0	4	0	0	0	14	0	0	0	0	10	0	220
( 5)	5	0	0	0	0	0	1	0	0	0	0	8	0	213
( 6)	18	0	0	0	0	11	0	0	3	0	0	0	0	456
( 7)	17	1	0	0	2	0	0	2	0	0	12	7	0	991
( 8)	0	0	0	0	0	0	0	0	0	0	0	0	0	2
( 9)	32	0	7	3	6	14	0	0	0	0	29	28	0	1157
( 10)	0	0	0	0	0	0	0	0	0	0	0	5	0	285
( 11)	0	0	0	0	0	0	0	0	0	0	0	0	0	88
( 12)	0	0	0	0	0	0	0	0	0	0	8	0	0	274
( 13)	3	0	0	0	0	1	0	0	0	0	12	0	0	336
( 14)	0	0	0	0	0	0	0	0	0	0	0	6	0	402
( 15)	0	0	0	0	0	0	0	0	0	0	0	0	0	51
( 16)	0	0	0	0	0	0	0	0	0	0	0	0	0	26
( 17)	0	0	0	0	0	0	0	0	0	0	0	0	0	219
( 18)	0	0	0	0	0	0	0	0	0	0	0	0	0	63
( 19)	0	0	6	0	0	0	0	0	0	0	12	0	0	432
( 20)	0	0	1	0	0	0	0	0	0	0	0	0	0	295
( 21)	0	0	13	0	0	0	0	0	0	0	0	0	0	944
( 22)	0	0	0	0	0	0	0	0	0	0	0	0	0	191
( 23)	12	0	0	0	13	3	0	0	0	0	0	0	0	349
( 24)	35	3	0	3	0	11	0	0	0	0	0	0	0	346
( 25)	0	0	0	0	0	0	0	0	0	0	0	0	0	218
( 26)	12	0	2	1	0	0	5	8	0	0	0	0	0	876
( 27)	0	0	0	3	0	0	0	0	0	0	0	0	0	116
( 28)	24	0	0	0	0	0	0	0	0	0	3	2	0	760
( 29)	0	0	0	0	0	0	0	0	0	0	0	0	0	0
( 30)	0	0	0	0	0	0	0	0	0	0	0	0	0	19
( 31)	0	0	11	0	0	0	0	0	0	0	0	0	0	322
( 32)	0	0	0	0	0	0	0	0	0	0	0	0	0	8
( 33)	0	0	0	0	0	0	0	0	0	0	0	0	0	47
( 34)	0	0	0	0	0	0	0	0	0	0	0	0	0	34
( 35)	0	0	0	0	0	0	0	0	0	0	0	0	0	8
( 36)	0	0	0	0	0	0	0	70	0	0	0	0	0	206
( 37)	0	0	0	0	0	0	0	0	0	0	0	0	0	14
( 38)	0	0	0	0	0	0	0	0	0	0	0	0	0	49
( 39)	0	0	0	0	0	0	0	0	0	0	0	0	0	0
( 40)	0	0	0	0	0	0	0	0	0	0	0	0	0	98
( 41)	0	0	0	0	0	0	0	0	0	0	0	0	0	297
( 42)	0	0	0	0	0	0	0	0	0	0	0	0	0	67
TOTAL	227	4	61	11	22	55	20	88	0	0	98	86	0	12200

( Type:Heavy goods / Purpose:Total )

	( 1)	( 2)	( 3)	( 4)	( 5)	( 6)	( 7)	( 8)	( 9)	( 10)	( 11)	( 12)	( 13)	( 14)	( 15)
( 1)	0	2	0	0	0	1	5	0	17	3	0	4	12	0	0
( 2)	2	0	0	0	0	2	5	0	2	3	0	0	5	0	0
( 3)	0	0	0	0	0	0	0	0	4	0	0	0	0	0	0
( 4)	16	0	0	0	0	2	1	0	0	0	0	7	0	0	0
( 5)	0	0	0	0	0	0	15	0	0	1	0	2	0	0	0
( 6)	7	0	0	0	2	0	0	0	15	0	0	0	2	29	0
( 7)	32	15	0	0	0	0	0	0	2	5	18	3	9	5	1
( 8)	0	0	0	0	0	0	0	0	0	0	0	0	0	4	3
( 9)	11	14	0	0	5	17	0	0	11	1	0	4	10	2	0
( 10)	2	0	0	0	6	0	0	0	28	0	0	0	0	0	0
( 11)	0	0	0	0	0	0	8	0	0	0	0	0	0	0	0
( 12)	0	0	0	0	1	6	6	0	2	2	0	0	0	0	0
( 13)	0	0	0	0	0	0	3	0	2	0	0	0	0	0	0
( 14)	0	0	0	0	0	0	0	0	3	0	0	0	0	0	0
( 15)	0	0	0	0	0	0	2	0	0	0	0	3	0	0	0
( 16)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
( 17)	5	0	0	0	0	1	0	0	4	0	0	0	0	0	0
( 18)	0	5	0	0	0	0	1	0	1	0	5	0	0	0	0
( 19)	4	1	0	0	0	0	1	0	0	0	0	0	0	0	0
( 20)	13	6	0	0	0	12	0	0	6	0	0	0	0	0	0
( 21)	4	4	0	0	7	5	3	0	38	15	0	1	6	0	0
( 22)	2	0	0	0	0	0	0	0	1	0	0	0	0	0	0
( 23)	0	0	0	0	2	0	12	0	5	0	0	0	0	0	0
( 24)	16	0	0	2	1	5	3	0	11	0	0	8	4	1	0
( 25)	0	0	0	0	0	0	0	0	2	0	0	0	0	0	0
( 26)	11	16	0	0	0	11	0	0	28	5	2	0	0	0	0
( 27)	0	1	0	4	0	1	0	0	0	1	0	0	0	0	0
( 28)	3	5	0	0	0	4	6	0	0	4	0	0	1	0	0
( 29)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
( 30)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
( 31)	5	0	0	0	0	3	0	0	3	0	0	0	0	0	0
( 32)	0	12	0	0	0	0	0	0	0	0	0	0	0	0	0
( 33)	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0
( 34)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
( 35)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
( 36)	0	0	0	0	0	0	0	0	0	3	0	0	0	0	0
( 37)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
( 38)	0	0	0	0	2	0	0	0	0	0	0	0	0	0	0
( 39)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
( 40)	5	0	0	0	0	0	0	0	0	0	0	0	0	0	0
( 41)	8	2	0	0	0	0	0	0	5	1	0	4	0	0	0
( 42)	11	5	0	0	0	0	0	0	31	1	0	0	0	0	0
( 43)	3	0	0	0	35	1	0	0	0	0	0	0	0	0	0
TOTAL	160	125	2	15	71	97	90	10	307	60	24	34	49	42	5

( Type:heavy goods / Purpose:Total )

	( 16 )	( 17 )	( 18 )	( 19 )	( 20 )	( 21 )	( 22 )	( 23 )	( 24 )	( 25 )	( 26 )	( 27 )	( 28 )	( 29 )	( 30 )
( 1 )	0	2	0	9	0	6	0	0	0	0	1	0	7	0	0
( 2 )	0	4	0	1	1	2	0	0	2	1	21	0	0	0	0
( 3 )	0	0	0	0	0	0	0	0	0	0	26	0	0	0	0
( 4 )	0	0	0	4	0	0	0	0	0	0	0	0	0	0	0
( 5 )	0	3	0	0	0	1	0	0	0	0	17	0	0	0	0
( 6 )	0	0	0	0	2	0	0	0	0	0	6	0	0	0	0
( 7 )	0	0	0	2	14	13	3	0	0	0	3	0	2	0	0
( 8 )	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
( 9 )	0	4	2	8	28	25	10	2	13	2	4	0	11	0	0
( 10 )	0	0	0	0	0	2	3	0	0	0	0	0	3	0	0
( 11 )	0	1	0	0	0	2	0	2	0	0	0	0	0	0	0
( 12 )	0	0	0	0	0	1	0	0	0	0	19	0	2	0	0
( 13 )	0	2	0	0	0	4	0	0	0	0	2	0	0	0	0
( 14 )	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
( 15 )	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
( 16 )	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
( 17 )	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
( 18 )	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
( 19 )	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
( 20 )	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
( 21 )	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
( 22 )	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
( 23 )	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
( 24 )	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
( 25 )	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
( 26 )	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
( 27 )	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
( 28 )	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
( 29 )	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
( 30 )	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
( 31 )	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
( 32 )	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
( 33 )	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
( 34 )	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
( 35 )	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
( 36 )	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
( 37 )	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
( 38 )	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
( 39 )	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
( 40 )	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
( 41 )	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
( 42 )	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
( 43 )	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TOTAL	0	18	11	83	56	91	29	6	63	14	126	13	78	0	5

( Type:heavy goods / Purpose:Total )

	( 31 )	( 32 )	( 33 )	( 34 )	( 35 )	( 36 )	( 37 )	( 38 )	( 39 )	( 40 )	( 41 )	( 42 )	( 43 )	TOTAL
( 1 )	1	0	0	0	0	0	0	0	0	0	13	9	0	92
( 2 )	0	0	0	0	0	0	0	0	0	0	0	7	2	80
( 3 )	0	0	0	0	0	0	0	0	0	0	0	0	0	31
( 4 )	0	0	0	3	0	0	0	0	0	0	0	0	0	33
( 5 )	0	0	0	0	0	0	0	0	0	0	0	10	0	61
( 6 )	13	0	0	0	0	0	0	0	0	0	0	4	0	88
( 7 )	3	0	0	0	0	0	0	0	0	0	22	4	0	207
( 8 )	0	0	0	0	0	0	0	0	0	0	0	0	0	0
( 9 )	0	0	31	0	0	3	0	0	0	0	3	7	4	256
( 10 )	0	0	0	0	0	0	0	0	0	0	0	2	0	51
( 11 )	0	0	0	0	0	0	0	0	0	0	0	0	0	1
( 12 )	0	0	0	0	0	0	0	0	0	0	1	0	0	51
( 13 )	0	0	0	0	0	0	0	0	0	0	3	0	0	49
( 14 )	0	0	0	0	0	0	0	0	0	0	0	0	0	26
( 15 )	0	0	0	0	0	0	0	0	0	0	0	0	0	2
( 16 )	0	0	0	0	0	0	0	0	0	0	0	0	0	0
( 17 )	0	0	0	0	0	0	0	0	0	0	0	0	0	18
( 18 )	0	0	0	0	0	0	0	0	0	0	0	0	0	10
( 19 )	0	0	0	0	0	0	0	0	0	0	0	1	0	30
( 20 )	0	0	0	0	0	0	0	0	0	0	0	0	0	39
( 21 )	0	0	0	0	0	0	6	0	0	0	0	0	0	116
( 22 )	0	0	0	0	0	0	0	0	0	0	0	0	0	9
( 23 )	2	0	0	0	0	0	0	0	0	0	0	0	0	32
( 24 )	0	0	0	0	0	0	0	0	0	0	0	0	0	97
( 25 )	0	0	0	0	3	0	0	0	0	0	0	2	0	27
( 26 )	5	0	0	0	0	0	4	0	0	0	0	0	0	149
( 27 )	0	0	0	0	0	0	0	0	0	0	0	0	0	16
( 28 )	10	0	0	0	0	0	0	0	0	0	0	0	0	83
( 29 )	0	0	0	0	0	0	0	0	0	0	0	0	0	0
( 30 )	0	0	0	0	0	0	0	0	0	0	0	0	0	0
( 31 )	0	0	0	0	0	0	0	0	0	0	0	0	0	48
( 32 )	0	0	0	0	0	0	0	0	0	0	0	0	0	0
( 33 )	0	0	0	0	0	0	0	0	0	0	0	0	0	7
( 34 )	0	0	0	0	0	0	0	0	0	0	0	0	0	0
( 35 )	0	0	0	0	0	0	0	0	0	0	0	0	0	3
( 36 )	0	0	0	0	0	0	0	0	0	0	0	0	0	6
( 37 )	0	0	0	0	0	0	0	0	0	0	0	0	0	0
( 38 )	0	0	0	0	0	0	0	0	0	0	0	0	0	2
( 39 )	0	0	0	0	0	0	0	0	0	0	0	0	0	0
( 40 )	0	0	0	0	0	0	0	0	0	0	0	0	0	5
( 41 )	0	0	0	0	0	0	0	0	0	0	0	0	0	17
( 42 )	0	0	0	0	0	0	0	0	0	0	0	0	0	75
( 43 )	0	0	0	0	0	0	0	0	0	0	0	0	0	59
TOTAL	13	0	32	3	3	1	4	4	0	0	39	49	6	1876

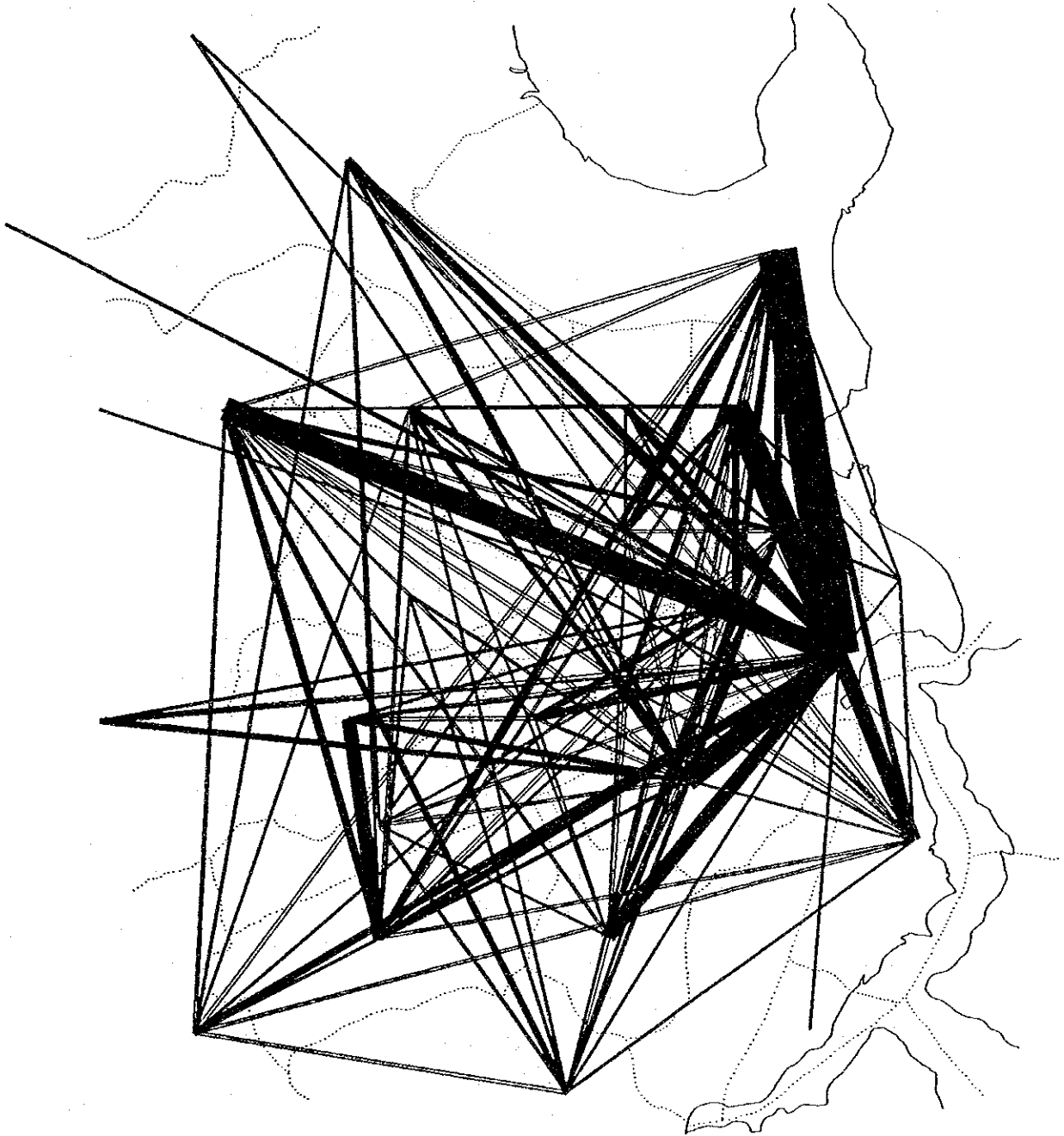
		( Type:Total / Purpose:Total )														
		( 1 )	( 2 )	( 3 )	( 4 )	( 5 )	( 6 )	( 7 )	( 8 )	( 9 )	( 10 )	( 11 )	( 12 )	( 13 )	( 14 )	( 15 )
( 1 )	0	59	12	1773	0	1442	3302	4	1664	853	173	451	2952	771	146	
( 2 )	119	0	0	211	0	684	1015	41	574	511	153	219	722	270	15	
( 3 )	31	8	0	277	0	112	46	0	287	14	6	75	201	51	26	
( 4 )	2300	238	116	0	80	415	836	24	457	184	17	248	382	171	82	
( 5 )	10	0	5	16	0	158	309	0	236	73	52	43	78	58	39	
( 6 )	1181	612	104	419	139	0	700	0	296	71	26	123	345	157	26	
( 7 )	2222	983	107	608	451	545	0	0	295	203	45	478	517	137	39	
( 8 )	0	56	0	0	0	0	5	0	11	0	0	0	0	0	0	
( 9 )	1454	376	158	519	155	319	297	0	0	152	30	190	362	62	14	
( 10 )	678	512	28	125	71	90	118	0	187	0	0	39	142	32	5	
( 11 )	181	137	5	30	16	44	117	21	78	0	0	0	18	9	0	
( 12 )	489	268	8	243	99	100	311	0	206	117	0	0	424	237	35	
( 13 )	2765	524	110	264	100	363	518	4	246	89	22	622	0	16	3	
( 14 )	895	262	103	172	24	109	150	8	116	4	5	152	16	0	0	
( 15 )	115	56	0	66	0	0	0	0	61	9	0	13	0	0	0	
( 16 )	36	12	0	7	0	0	8	0	21	6	0	10	20	12	0	
( 17 )	520	384	19	118	35	110	153	0	93	0	0	75	122	78	0	
( 18 )	79	50	10	54	16	49	24	0	58	12	3	24	24	0	0	
( 19 )	4264	685	112	637	68	459	1016	18	675	139	26	419	36	0	21	
( 20 )	1017	100	65	151	58	127	263	1	107	139	3	193	35	2	0	
( 21 )	2872	593	70	636	274	282	371	5	571	239	27	282	282	76	0	
( 22 )	353	111	14	87	4	32	70	0	61	64	0	9	13	9	0	
( 23 )	290	174	0	102	52	150	70	0	143	0	0	69	23	0	0	
( 24 )	977	397	43	413	106	71	105	0	215	19	10	103	164	80	7	
( 25 )	536	168	27	205	56	36	71	0	185	6	0	43	156	18	0	
( 26 )	1763	1367	248	552	139	435	217	0	200	245	36	152	340	107	0	
( 27 )	201	123	29	67	41	81	16	2	18	15	0	66	32	18	25	
( 28 )	251	172	41	188	29	106	167	0	137	77	8	47	65	31	4	
( 29 )	0	0	0	0	0	0	0	0	0	0	0	11	0	0	0	
( 30 )	1	6	2	0	0	0	0	0	34	8	0	0	0	0	0	
( 31 )	252	43	14	74	12	64	89	0	56	32	0	14	5	0	0	
( 32 )	18	9	0	0	0	0	0	0	15	0	0	0	0	0	0	
( 33 )	305	114	0	93	5	26	3	0	31	0	26	13	18	8	0	
( 34 )	2	29	0	0	0	0	8	0	0	0	0	0	0	0	0	
( 35 )	51	8	0	0	0	19	12	0	0	0	0	0	0	0	0	
( 36 )	86	66	0	15	0	1	66	0	14	16	0	6	0	5	0	
( 37 )	22	0	0	0	0	0	0	0	25	0	0	0	0	0	9	
( 38 )	3	23	0	0	3	0	9	0	11	1	0	10	0	0	0	
( 39 )	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
( 40 )	5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
( 41 )	77	31	0	0	0	29	0	0	43	1	0	0	3	0	0	
( 42 )	176	48	3	27	21	52	21	0	145	13	0	4	25	0	0	
( 43 )	8	0	0	0	35	12	9	0	14	44	0	7	0	0	0	
TOTAL	26668	8854	1473	8259	2139	6627	10505	128	7597	3355	668	4141	7568	2418	496	

		( Type:Total / Purpose:Total )														
		( 16 )	( 17 )	( 18 )	( 19 )	( 20 )	( 21 )	( 22 )	( 23 )	( 24 )	( 25 )	( 26 )	( 27 )	( 28 )	( 29 )	( 30 )
( 1 )	20	557	49	4164	816	2572	301	173	613	569	1634	190	190	8	22	
( 2 )	13	352	49	620	321	198	55	163	80	86	951	158	199	0	7	
( 3 )	0	51	0	254	36	148	17	61	8	18	187	58	81	0	0	
( 4 )	9	147	25	745	210	379	54	116	206	132	525	63	94	0	0	
( 5 )	0	62	23	71	60	137	21	7	29	41	346	27	47	0	0	
( 6 )	0	64	0	622	181	338	75	60	11	7	328	135	64	0	8	
( 7 )	7	182	73	706	194	339	71	54	121	77	276	31	125	8	0	
( 8 )	0	0	0	11	0	0	2	0	0	0	0	0	0	0	0	
( 9 )	6	96	47	746	268	464	48	61	182	131	189	25	178	0	16	
( 10 )	0	13	22	193	71	335	97	0	0	0	157	45	65	0	1	
( 11 )	0	1	0	0	17	21	0	0	0	0	20	0	6	0	0	
( 12 )	30	217	5	595	129	250	7	6	65	9	174	10	26	0	0	
( 13 )	3	242	0	85	38	183	3	69	273	45	294	75	34	0	5	
( 14 )	20	136	46	8	0	55	5	7	72	138	156	6	15	0	17	
( 15 )	0	0	0	34	0	0	0	0	19	0	0	0	0	0	8	
( 16 )	0	0	0	14	2	0	0	0	0	0	47	0	0	0	0	
( 17 )	17	0	0	193	0	12	7	8	80	20	103	18	50	0	0	
( 18 )	0	0	0	18	0	0	0	0	29	3	21	6	15	0	0	
( 19 )	32	161	18	0	63	147	16	42	360	174	506	49	129	0	0	
( 20 )	7	22	2	26	0	12	0	22	60	50	91	49	55	0	26	
( 21 )	0	6	0	495	0	6	0	43	287	146	357	68	164	8	0	
( 22 )	0	0	0	20	10	19	0	0	81	19	54	5	17	0	0	
( 23 )	0	0	0	354	0	11	12	0	0	0	72	29	61	0	0	
( 24 )	7	54	2	289	72	212	81	0	0	21	25	12	37	0	0	
( 25 )	0	18	0	321	77	133	38	0	0	0	54	20	20	0	6	
( 26 )	5	63	38	342	81	334	17	110	112	108	0	112	301	0	7	
( 27 )	0	0	5	53	20	80	2	30	22	12	42	0	78	0	0	
( 28 )	0	32	18	207	42	137	10	17	35	44	230	110	0	0	0	
( 29 )	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
( 30 )	0	0	0	12	8	6	0	0	0	2	0	5	0	0	0	
( 31 )	3	0	0	0	0	0	0	0	30	28	10	8	81	0	5	
( 32 )	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
( 33 )	0	68	0	86	0	50	0	11	0	0	13	3	8	0	0	
( 34 )	0	5	0	0	0	0	0	0	0	0	0	0	0	0	0	
( 35 )	0	0	0	0	0	0	0	0	0	0	3	0	0	0	0	
( 36 )	7	0	0	0	6	0	0	8	35	7	59	0	10	0	0	
( 37 )	0	0	0	0	0	0	0	0	0	0	8	0	0	0	0	
( 38 )	0	0	0	0	17	0	0	1	0	0	9	0	0	0	0	
( 39 )	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
( 40 )	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
( 41 )	0	0	0	30	0	0	0	0	0	0	6	1	7	0	0	
( 42 )	0	0	0	21	6	13	0	0	8	0	81	0	2	0	3	
( 43 )	0	0	0	0	0	12	0	0	0	0	7	0	0	0	0	
TOTAL	186	2553	430	11840	2748	6941	952	1069	2848	1887	7108	1318	2161	24	131	

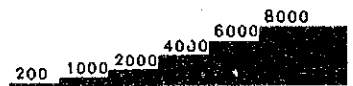
( Type:Total / Purpose:Total )

	( 31)	( 32)	( 33)	( 34)	( 35)	( 36)	( 37)	( 38)	( 39)	( 40)	( 41)	( 42)	( 43)	TOTAL
( 1)	246	12	362	0	44	22	0	0	0	0	35	117	0	26348
( 2)	2	0	63	12	0	11	0	4	0	0	0	189	2	8369
( 3)	4	0	0	0	2	0	0	0	0	0	0	4	0	2063
( 4)	61	6	81	3	4	34	14	0	0	0	0	10	6	8514
( 5)	5	0	27	0	0	0	1	0	0	0	0	18	0	1982
( 6)	67	0	0	3	21	56	2	0	0	0	0	9	0	6288
( 7)	98	1	16	0	8	27	0	2	0	0	34	11	0	9192
( 8)	0	0	0	0	0	0	0	0	0	0	0	0	0	85
( 9)	48	0	38	3	6	17	0	0	0	0	32	59	11	6786
( 10)	0	0	0	0	0	5	0	0	0	0	0	7	0	3941
( 11)	8	0	10	0	0	0	0	0	0	0	0	0	0	768
( 12)	14	0	15	0	0	0	0	0	0	0	9	0	0	4178
( 13)	3	0	0	0	5	26	7	8	0	0	12	3	0	7066
( 14)	21	2	0	0	20	0	0	0	0	0	0	6	0	2746
( 15)	0	0	5	0	0	0	0	0	0	0	0	0	0	401
( 16)	0	0	0	0	0	0	0	0	0	0	0	0	0	200
( 17)	6	0	8	0	0	0	0	0	0	0	0	0	0	2229
( 18)	0	0	0	0	0	0	0	0	0	0	0	0	0	495
( 19)	9	0	14	0	5	4	4	0	0	0	12	9	0	10319
( 20)	0	0	4	0	2	0	3	0	0	0	0	0	0	2702
( 21)	0	0	38	0	0	0	5	0	0	0	0	0	0	8203
( 22)	0	0	0	0	0	0	0	0	0	0	0	0	0	1052
( 23)	70	0	0	0	13	3	0	0	0	0	0	0	0	1741
( 24)	40	3	0	3	0	11	0	0	0	0	0	2	0	3684
( 25)	5	0	0	0	3	5	0	0	0	0	0	0	0	2207
( 26)	36	0	21	13	1	1	12	19	0	0	6	8	0	8056
( 27)	0	0	0	3	0	0	0	0	0	0	0	0	0	1092
( 28)	36	0	2	3	0	3	5	0	0	0	3	2	0	2259
( 29)	0	0	0	0	0	0	0	0	0	0	0	0	0	11
( 30)	0	0	0	0	0	0	0	0	0	0	0	0	0	87
( 31)	0	0	11	0	0	0	0	0	0	0	0	0	0	835
( 32)	0	0	0	0	0	0	0	0	0	0	0	0	0	42
( 33)	0	0	0	0	0	0	0	0	0	0	0	0	0	941
( 34)	0	0	0	0	0	0	0	0	0	0	0	0	0	44
( 35)	0	0	0	0	0	0	0	0	0	0	0	0	0	93
( 36)	0	0	0	0	0	0	0	70	0	0	0	0	0	477
( 37)	0	0	0	0	0	0	0	0	0	0	0	0	0	64
( 38)	0	0	0	0	0	0	0	0	0	0	0	0	0	87
( 39)	0	0	0	0	0	0	0	0	0	0	0	0	0	0
( 40)	0	0	0	0	0	0	0	0	0	0	0	0	0	5
( 41)	0	0	0	0	0	0	0	0	0	0	0	0	0	228
( 42)	0	0	0	0	0	0	0	0	0	0	0	0	0	669
( 43)	0	0	0	0	0	0	0	0	0	0	0	0	0	150
TOTAL	779	21	723	43	141	225	53	103	0	0	143	454	19	135799

Appendix 5-3: Future Traffic Disire Line ( Car , Taxi )



CAR TAXI



unit:tripends /day