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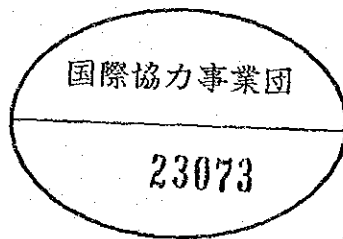
Islamic Republic of Pakistan

COMPREHENSIVE STUDY
ON
TRANSPORTATION SYSTEM IN LAHORE
FINAL REPORT

APPENDIX

October 1991

Japan International Cooperation Agency



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- Busway

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List of Abbreviations

AC:	Alternating Current
BC ratio:	Benefit-Cost Ratio
CAA:	Civil Aviation Authority
CIF:	Cost, Insurance and Freight
DC:	Direct Current
EIRR:	Economic Internal Rate of Return
FIRR:	Financial Internal Rate of Return
GNP:	Gross National Product
GTS:	General Transport Service
HIS:	Household Interview Survey
HRT:	Heavy Rail Transit
JICA:	Japan International Cooperation Agency
LDA:	Lahore Development Authority
LMA:	Lahore Metropolitan Area
LMC:	Lahore Metropolitan Corporation
LRT:	Light Rail Transit
NWFP:	Northwest Frontier Province
O-D:	Origin - Destination
PCU:	Passenger Car Unit
PR:	Pakistan Railways
PRTC:	Punjab Road Transport Corporation
PTA:	Punjab Transportation Authority
ROW:	Right of Way
Rs.:	Pakistan Rupees
RTA:	Regional Transport Authority
SP Traffic:	Superintendent of Police-Traffic
SW:	Scope of Work
TEPA:	Traffic Engineering and Transport Planning Agency
TTC:	Travel Time Cost
UHF:	Ultra High Frequency
VOC:	Vehicle Operating Cost

Some Sceneries of Present Traffic in Lahore



Multan Road Traffic at Chauburji Crossing



Traffic near Chowk Qurtaba



Shahalami Chowk Circular Road Traffic



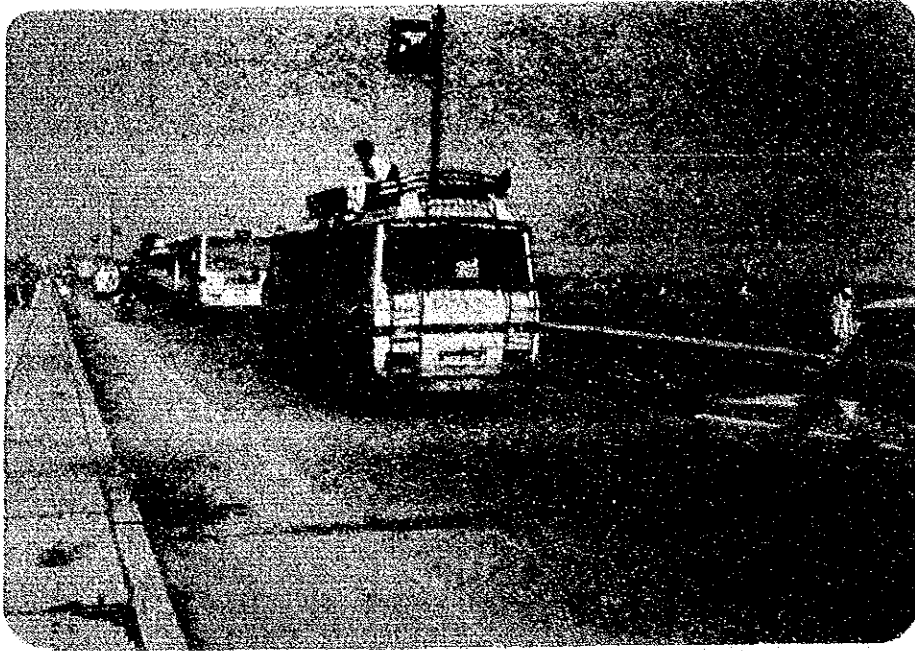
Lakshami Chowk Mcleod Road Traffic



Traffic Crossing Shahrae Quaid-i- Azam
at Charing Cross



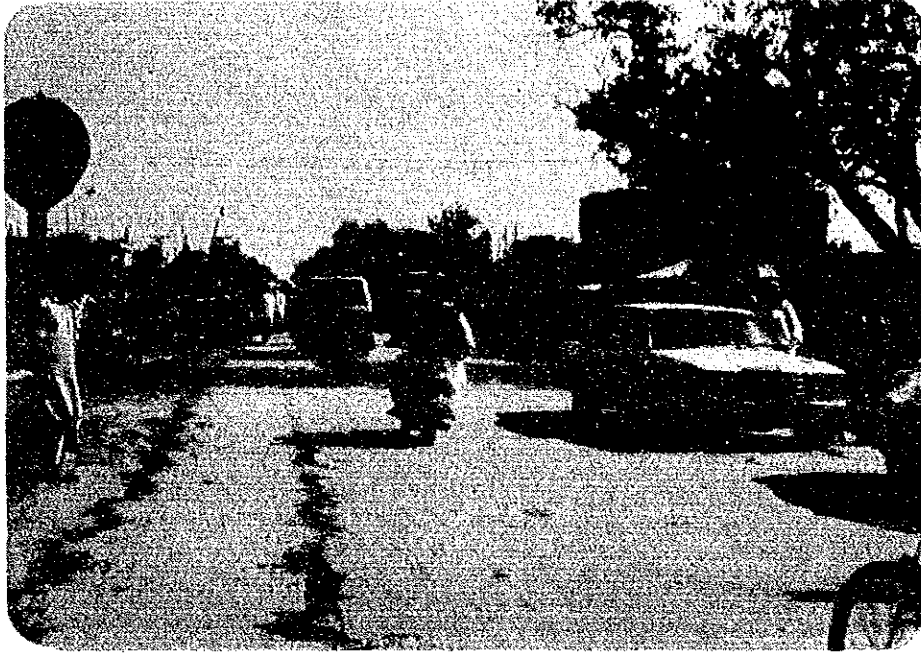
Regal Chowk Traffic on Shahrae Quaid-i- Azam



Bridge on River Ravi



Ravi Road (Approch to Lahore) Traffic
on dual Carriageway & Bus Stop



Traffic on Moghal-pura Road (Near Shalimar Gardens)



Baghbanpura Traffic in front of
Shalimar Gardens



General Bus Stand Badami Bagh



General Bus Stand Badami Bagh (on the road):
Buses Parked on Road



Punjab Road Transport Board
Local Buses Depot, Garden Town, Lahore



Government Transport Service
Intercity Buses Terminal
near Railway Station Lahore



Government Transport Service
Bus Terminal for Inter-city
travel near Rail-way Station Lahore
- Open parking & drainage problem



Traffic in front of Do- Moria Bridge
(Under Rail tracks)- Circular Road



Trucks parked on the Multan Road(Highway)
at Octroi Post



Wahdat Road- Ferozepur
Road Crossing

Appendices for Introduction

the Scope of Work

SCOPE OF WORK
FOR
COMPREHENSIVE STUDY
ON
TRANSPORTATION SYSTEM IN LAHORE


AGREED UPON

BETWEEN

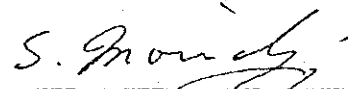
LAHORE DEVELOPMENT AUTHORITY

AND

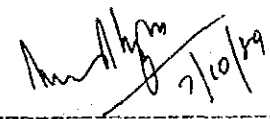
JAPAN INTERNATIONAL COOPERATION AGENCY



Sh. Abdur Rashid,
Chief Metropolitan Planner,
Lahore Development Authority
Government of Punjab



Prof. Dr. Shigeru MORICHI,
Leader,
Japanese Preliminary
Study Team, JICA



Mr. Mohammad Azhar,
Member (Planning),
Planning and Development Department,
Government of Punjab

LAHORE, OCTOBER 7, 1989

I. INTRODUCTION

In response to the request of the Government of the Islamic Republic of Pakistan, the Government of Japan has decided to conduct a Comprehensive Study on Transportation System in Lahore (hereinafter referred to as "the Study") in accordance with the relevant laws and regulations in force in Japan.

Accordingly, Japan International Cooperation Agency (hereinafter referred to as "JICA"), the official agency responsible for the implementation of the technical cooperation programs of the Government of Japan, will undertake the Study in close cooperation with the authorities concerned in Pakistan.

The present document sets forth the Scope of Work with regard to the Study mentioned above.

II. OBJECTIVES OF STUDY

The objectives of study are:

- (1) To formulate a Master Plan to solve urban transportation problems in Lahore City toward the target year of 2010, with intermediate output at the year 2000, and
- (2) To conduct a Feasibility Study on the selected mass transit project and any other selected project.

III. SCOPE OF THE STUDY

1. Study Area

Main study area for the Study is essentially the Lahore Metropolitan Area.

2. Study Framework

In order to achieve the objectives, the Study would be divided into following two (2) phases:

PHASE I

2.1 Master Plan Study

- 1) Review
Review of the existing reports and data related to the Study.
- 2) Data collection and supplementary surveys.
 - Socio-economic activity
 - Land use
 - Town redevelopment
 - Railway
 - Road network

- Road traffic
 - Taxi services
 - Parking
 - Bus services
 - Others
- 3) Site surveys
 - Person and goods movement
 - Origin and destination survey of person movement
 - 4) Demand forecast
 - Land use, population, employment forecast
 - Demand forecast for each mode of transportation
 - 5) Clarification of present and future urban transportation problems
 - 6) Alternative formation and conceptual study on alternatives

Formulate alternatives by the above-mentioned processes, appropriate for solving urban transport problems.

 - Network
 - Role in the overall transportation system
 - Estimated volume of passengers
 - Conceptual design on the proposed transportation system
 - Rough estimate of cost
 - Proposal of urban transportation policy options
 - 7) Evaluation and selection of a suitable system including mass transit project
 - 8) Transportation management plan
 - 9) Selection of priority project

PHASE 11

2.2 Feasibility Study
on the selected mass transit project and any other selected project.

- 1) Preliminary design
- 2) Cost estimation
- 3) Economic and financial analysis
- 4) Evaluation
- 5) Conclusions and recommendations

IV. STUDY SCHEDULE

The Study shall be performed in accordance with the attached tentative schedule. (Appendix I)

V. REPORTS

JICA shall prepare the following reports in English and submit to the Government of the Islamic Republic of Pakistan.

(1) Inception Report (30 copies)

This report is to describe the overall approach and implementation program of the Study and to be submitted at the beginning of the first field survey.

(2) Progress Report (30 copies)

This report is to describe provisional outcomes of the field survey as well as basic concept of the Master Plan and to be submitted at the end of the first field survey.

(3) Interim Report (30 copies)

This report is to describe the revised Master Plan and to be submitted at the middle of the Survey Term.

(4) Draft Final Report (30 copies)

This report is to describe all the results of the study including feasibility study report for Phase II and to be submitted within five (5) months after the submission of the Interim Report.

Lahore Development Authority shall provide JICA with its comments within one (1) month after the receipt of the Draft Final Report.

(5) Final Report (50 copies)

This report is to be finalized taking into consideration the above mentioned comments on the Draft Final Report and to be submitted within two (2) months after receipt of the comments.

VI. UNDERTAKING OF THE GOVERNMENT OF THE ISLAMIC REPUBLIC OF PAKISTAN

(1) To facilitate the smooth conduct of the Study, the Government of the Islamic Republic of Pakistan shall take necessary measures:

(a) To secure the safety of Japanese Study Team (hereinafter referred to as "the Team")

(b) To permit the members of the Team to enter, leave and sojourn in Pakistan for the duration of their assignment therein, and exempt them from alien registration requirements and consular fees.

(c) To exempt the members of the Team from taxes, duties and other charges on equipment, machinery and other materials brought into and out of Pakistan for the conduct of the Study.

(d) To exempt the members of the Team from income taxes and other charges of any kind imposed on or in connection with any emoluments or allowances paid to the members of the Team for their services in connection with the conduct of the Study.

(e) To provide the necessary facilities to the Team for remittances as well as utilization of fund introduced into

Pakistan from Japan in connection with the conduct of the Study.

- (f) To provide medical services as needed and its expenses will be chargeable on the members of the Team.
 - (g) To secure permission for entry into private properties or restricted areas for the implementation of the Study.
 - (h) To secure permission to take all data and documents (including photographs) related to the Study out of Pakistan to Japan by the Team.
- (2) The Government of the Islamic Republic of Pakistan shall bear claims, if any arises against the members of the Team resulting from, occurring in the course of, or otherwise connected with the discharge of their duties in the conduct of the Study, except when such claims arise from gross negligence or willful misconduct on the part of the members of the Team.
 - (3) Lahore Development Authority shall act as counterpart agency to the Team and also as coordinating body in relation with other governmental and non-governmental organizations concerned for the smooth conduct of the Study.
 - (4) Government of Punjab shall provide the Team with the following, in cooperation with other relevant organizations:
 - (a) Available data and information related to the Study
 - (b) Counterpart personnel
 - (c) Credentials or identification cards
 - (d) Vehicles, typewriters and typists necessary to the conduct of the study in Lahore.
 - (e) Suitable office space with necessary equipment in Lahore

VII. UNDERTAKING OF JICA

For the implementation of the Study, JICA shall take the following measures:

- (1) To dispatch, at its own expense, study teams to Pakistan.
- (2) To perform technology transfer to the Pakistani counterpart personnel in the course of the Study.

VIII. OTHERS

JICA and the Lahore Development Authority shall consult with each other in respect of any matter that may arise from or in connection with the Study.

TENTATIVE SCHEDULE OF THE STUDY

	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	
Work in Pakistan		■									■						■		
Work in Japan	□							□					□					□	
Reports		▲ IC/R					▲ P/R				▲ IT/R					▲ DF/R			▲ F/R
Master Plan Study		—																	
Feasibility Study								- - - - -											

IC/R : Inception Report
 P/R : Progress Report
 IT/R : Interim Report
 DF/R : Draft Final Report
 F/R : Final Report

■ Work in Pakistan
 □ Work in Japan

Minutes of Meeting

MINUTES OF MEETING

BETWEEN

LAHORE DEVELOPMENT AUTHORITY
GOVERNMENT OF PUNJAB

AND

THE PRELIMINARY STUDY TEAM OF
JAPAN INTERNATIONAL COOPERATION AGENCY

ON

COMPREHENSIVE STUDY ON TRANSPORTATION SYSTEM IN LAHORE

Sh. Abdur Rashid

Sh. Abdur Rashid,
Chief Metropolitan Planner,
Lahore Development Authority
Government of Punjab

S. Morichi

Prof. Dr. Shigeru MORICHI,
Leader,
Japanese Preliminary
Study Team, JICA

Mr. Mohammad Azhar
7/10/89

Mr. Mohammad Azhar,
Member (Planning),
Planning and Development Department,
Government of Punjab

LAHORE, OCTOBER 7, 1989

MINUTES OF MEETING

OF

COMPREHENSIVE STUDY ON TRANSPORTATION SYSTEM IN LAHORE

The Government of Japan, at the request of the Government of Islamic Republic of Pakistan, dispatched the Preliminary Study Team, headed by Prof. Dr. Shigeru MORICHI, from September 29 to October 11, 1989 through Japan International Cooperation Agency to conduct a Preliminary Study on the Comprehensive Study on Transportation System in Lahore. The Japanese Preliminary Study Team had a series of discussions with the relevant Pakistani authorities.

The attendants list is as per annex.

Main items which were agreed upon by both sides are as follows:

1. Study should be conducted in accordance with the Scope of Work, duly signed on October 7, 1989.
2. Full scale subway system shall be excluded from this study as agreed at the annual consultation meeting of May 1989 between both the governments.
3. Study area was agreed to be the Lahore Metropolitan Area with particular emphasis on Lahore City area proper.
4. It was agreed by both parties that the site survey should be of in depth nature and including house-hold person trip survey with appropriate size.
5. Counterpart personnel shall consist of, as minimum requirement, following officials from Pakistani side:

Team Leader	one
Engineer	two
Urban Planner	two
Traffic Engineer	one
Economist	one
Sociologist	one
6. It was agreed by both sides that a steering committee shall be established composed of representatives from relevant governmental organizations and authorities of Pakistani side.
7. The Government of Punjab promised to provide the followings to the Japanese full scale study team:
 - 1) Office space with four air conditioners
 - 2) Office telephone facility
 - 3) Office furniture
 - 4) One Pajero jeep (five doors) with driver
 - 5) Two typewriters
8. The cost of stationary, reports, etc. shall be borne by the Japanese side.

ANNEX

LIST OF ATTENDANTS
OF
THE MEETINGS BETWEEN
JAPANESE PRELIMINARY STUDY TEAM AND PAKISTANI SIDE
FOR
COMPREHENSIVE STUDY ON TRANSPORTATION SYSTEM IN LAHORE

A. JAPANESE SIDE

1. Japanese Preliminary Study Team

Prof. Dr. MORICHI, Shigeru	Leader
Mr. KISHIKAWA, Shin-ichi	Public Transportation Planning
Mr. MAEJIMA, Tadafumi	Traffic Planning
Mr. IWATA, Toichi	Coordination
Mr. HIROTANI, Akihiko	Traffic Survey
2. Japan International Cooperation Agency - Islamabad Office

Mr. TANIGAWA, Kazuo	Resident Representative
---------------------	-------------------------

B. PAKISTAN SIDE

1. Planning and Development Department, Government of Punjab

Mr. Zulfiqar Ali Shah	Chairman
Mr. Mohammad Azhar	Member (Planning)
Mr. Shahid Hussain Raja	Chairman of the Meeting
Mr. Mohammad Ishaque	Chief (Foreign Aid)
Mr. Hafiz Masoodur Rasool	Chief (Transport)
Mr. Abdul Ghafoor	Assistant Chief (Roads)
	Assistant Chief
	External Capital Assistance
Mr. Mushtaq Tariq	Research Officer (ECA)
2. Housing, Physical and Environmental Planning Department,
Government of Punjab

Mr. Shaukat Ali	Under Secretary
-----------------	-----------------
3. Lahore Development Authority

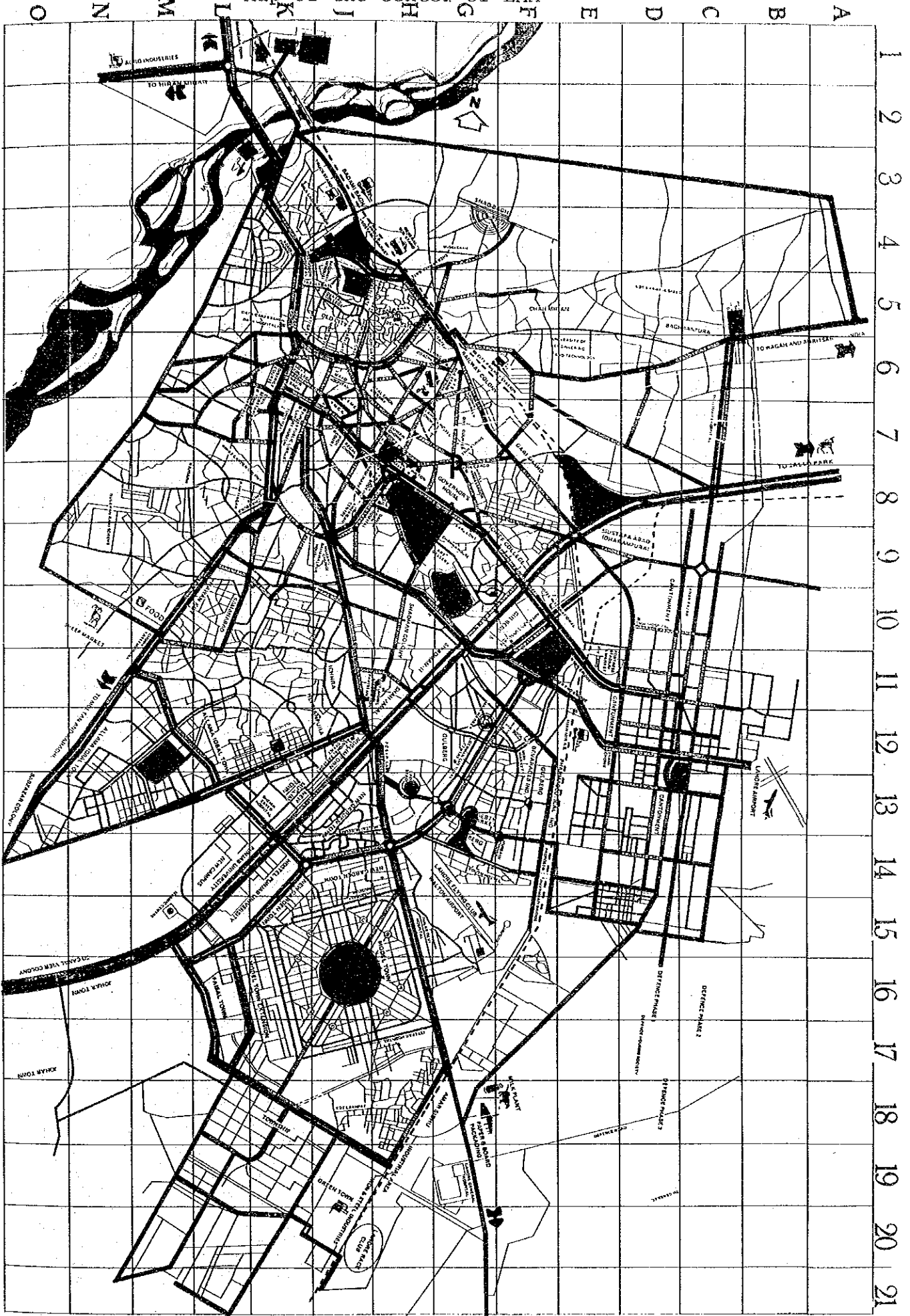
Brig (Retd) Manzoor Malik	Director General
Mr. S. H. Zaidi	Chief Engineer
Mr. Sheikh A. Rashid	Chief Metropolitan Planner
Mr. Shaukat Jamal	Director of Metropolitan Planning
Mr. Khushal Khan	Chief Traffic Engineer
	Traffic Engineering and Planning Agency
Mr. Zaidi	Assistant Director, TEPA
4. Provincial Transport Authority (Punjab)

Mr. Muhammad Siddique	Secretary,
-----------------------	------------
5. Punjab Road Transport Corporation

Mr. M. M. Akram	Managing Director
Mr. Ijaz Ahmed	Deputy Director (Planning)

Appendices for Chapter 1

Map of the Center of LMA



APP1-1

INDEX TO THE MAP

ALLAMA IQBAL ROAD	G6-E9	MAYO HOSPITAL	J6
AMAR SIDHU	G18	MUSTAFA ABAD	D9
ALLAMA IQBAL TOWN	M12	MIAN MIR BRIDGE	E11
AZIZ ROAD	G5	MODEL TOWN EXTENSION	K-16
ABBOT ROAD	G7	MODEL TOWN PARK	J16
AL-MUMTAZ ROAD	M10	MODEL TOWN	H15
ALHAMRA ART CENTRE	H8	MISRI SHAH ROAD	G5
AVIS	H8	MCLEOD ROAD	G6-J7
ASIF KHAN'S MAUSOLEUM	K1	MONTGOMERY ROAD	H7
AUTOMOBILE ASSOCIATION OF PAKISTAN	H11	MOZANG ROAD	J7-H8
BARA DARI	K3	MULTAN ROAD	K8-O14
BADAMI BAGH	J3	MASJID-E-SHUHADA	J8
BADSHAHI MOSQUE	J5	MOEEN ART GALLERY	G9
BHATTI GATE	J6	NOOR JEHAN TOMB	K1
BAGHBANPURA	C6	NAWANKOT	L10
BRITISH COUNCIL	H8	NEW MUSLIM TOWN	K13
BAHAWALPUR HOUSE	J9	NEW GARDEN TOWN	J13-K15
BAGH-E-JINNAH	H8	NEW CAMPUS	K14
BEADON ROAD	H7	NJSBAT ROAD	H7
BRANDRETH ROAD	H6-G6	OLD ANARKALI	K7
BUND ROAD	J2-AS-K3-M10	OPEN AIR THEATRE	H8
BAHAWALPUR ROAD	K8-J9	PUNJAB PUBLIC LIBRARY	K7
CHAH MIRAN	F5	PIA BOOKING	H8
CIVIL SECRETARIAT	K7	PEARL CONTINENTAL HOTEL	G9
CHAMBA HOUSE	G9	POLO GROUND	G10
CHIEF'S COLLEGE	F9	PUNCH ROAD	K9
C M H HOSPITAL	D10	PAKKI THATTI ROAD	K10
CANAL BANK ROAD	A8-Q16	QUAID-E-AZAM LIBRARY	H8
CIRCULAR ROAD	J4-J6	QILA GUJAR SINGH	G7
CHAMBERLAIN ROAD	H6	QILA LACHMAN SING	J4
CHUGHTAI MUSEUM	J14	RAILWAY COLONY	G6
CHAUBURJI	K8	RAILWAY STATION	G6
		RIVAZ GARDEN	K8
		RAJGARH	L8
DATA HOSPITAL	K5	RAM GARH	L8
DELHI GATE	H5	RAILWAY GOLF COURSE	E8
DISTRICT COURTS	K6	REHMANPURA	J12
DYAL SINGH LIBRARY	H7	RACE COURSE	J20
DEFENCE HOUSING SOCIETY	D17	SHAHDRA TOWN	K1
DIN TOURS	H8	SHAD BAGH	G4
FORTRESS STADIUM	E11	SHALAMAR HOSPITAL	C7
FAISAL TOWN	L16	SHALAMAR GARDEN	C6
FATEH SHER ROAD	K9	SHAH ALAM GATE	J6
FLEMMING ROAD	H6	SAMANABAD	L10
GARI SHAHU	F7	SHADMAN COLONY	H10
GULSHAN-E-RAVI SCHEME	L9	SHADMAN II	G11
GANGA RAM HOSPITAL	H8	SHAHJAMAL	H11
GOLF COURSE	F10	SHER PAO BRIDGE	E11
GULSHAN-E-IQBAL	M12	SHEIKH ZAYED HOSPITAL	K13
GADDAFI STADIUM	H13	SHAHDARA ROAD	K1
GERMAN CULTURAL CENTRE	G12	SHEIKHPURA ROAD	L1
GREEN TOWN	J19	SHAHRAH-E-BIN BADIS	G7
GENERAL HOSPITAL	C19	SANDA ROAD	K7
GRAND TRUNK ROAD	G6-A6	SHAHRAH-E-QUAID-E-AZAM	K6-E11
GREEN TOWN ROAD	K20	SHALIMAR ROAD	C6-C8
GOWALMANDI	H6	SAMANABAD ROAD	L9
GOLDEN MOSQUE	H5	SHAHRAH-E-JALAL-UD-DIN ROOMI	J9-G21
GOVERNMENT COLLEGE	K6	SHAHRAH-E-SHAMI	D10-E15
HIGH COURT	J7	SHAHRAH-E-SUHRAWARDI	H14-L15
HILTON HOTEL	H8	SHAHRAH-E-SARWAR	C8-D14
HOTEL AMBASSADOR	G8	SHAHRAH-E-TUFAIL	C8-D14
HOTEL INTERNATIONAL	F10	SHAHRAH-E-FATIMA JINNAH	H8-J9
ICHHRA	J11	SHAHRAH-E-AZIZ BHATTI	E11-C12
JEHANGIR'S TOMB	K1	SHAHRAH-E-ABID MAJID	E12-B13
KOT KHAWAJA SAEED	D5	SHAHRAH-E-MUNIR	E13-C13
K.E.M.C	J7	SHAHRAH-E-ABDUL REHMAN	D10-C10
KHURSHED ROAD	D14	SUNDAR DAS ROAD	G8-E9
KACHEHRI ROAD	K6	SUHA BAZAR	J5
KHAYABAN-E-GOETHE	G11	SHRINE SHAH JAMAL	H11
		STATE BANK OF PAKISTAN	J7
LAHORE FORT	J5	SHAKIR ALI MUSEUM	H14
LAHORI GATE	J6	SERVICES HOSPITAL	H10
LAHORE MUSEUM	K7	TOMB OF ANARKALI	K6
LAHORE AIRPORT	B13	TOWN HALL	K7
LAHORE RACE CLUB	J20	TIBBI	H5
LOWER MALL	K6	TOURIST SERVICES	F14-H7
LYTTON ROAD	J8	URDU BAZAR ROAD	J6
LAKE ROAD	K8	VANGUARD BOOKS	J7
LAWRANCE ROAD	H9	WALTON AIRPORT	G15
LINK MODEL TOWN ROAD	K17	WARIS ROAD	J9
LAKHPAT ROAD	L18	WALTON ROAD	D15-G18
MINAR-E-PAKISTAN	J4	YAKKI GATE	H5
MISRI SHAH	G4	ZAMZAMA (KIM'S GUN)	K7
MASTI GATE	H5	ZEBUN NISA MOSOLEUM	L10
MORI GATE	J6	ZOOLOGICAL GARDENS	H8
MOCHI GATE	H6		

APPENDICIES FOR CHAPTER 2

APP 2- 1. Questionnaire Forms for H.I.S.

Covering Letters

in English

in Urdu



LAHORE DEVELOPMENT AUTHORITY
TEPA

September, 1990

Honourable Ladies and Gentlemen:

Re: Comprehensive Study on Transportation System in Lahore

We are glad to inform you that the Government of the Islamic Republic of Pakistan with the cooperation of the Government of the Japan is making a transportation study for the Lahore Metropolitan Area. The main purpose of this Study is to formulate a Master Plan to solve urban transportation problems in Lahore City toward the target year of 2010, with intermediate output at the Year 2000. The study covers chiefly the Lahore Metropolitan Area with particular emphasis on Lahore City.

In order to achieve the above Study Objective, it is relevant to have a Household Interview Survey (HIS). The purpose of this HIS is to collect information regarding the socio-economic standard and the daily traffic movement of the people living in the Lahore Metropolitan Area. Ladies and gentlemen, you and your family are among the 12,000 families who are being selected to have an interview by the Surveyors in order to obtain the respective information.

Therefore ladies and gentlemen, we hope that you can cooperate with us to be interviewed the questions in the forms by our Surveyors. The Surveyors are supplied with an identification card from the Traffic Engineering & Transport Planning Agency (TEPA), LDA. Your cooperation is very important to us to achieve the Study Objective.

We would also like to assure you that the collected information will be strictly confidential and will only be used for the Study.

Thanking you


27.9.90
KHUSHAL KHAN
Chief, Traffic Engineering &
Transport Planning Agency (TEPA)
LDA

لاہور میں ٹرانسپورٹ سسٹم کا جامع مطالعہ

محترم خواتین و حضرات

احیاء

میں مطالعہ ہوئے اور سرور ہو رہی ہے کہ حکومت پاکستان حکومت جاپان کے تعاون سے لاہور میٹروپولیٹن کی علاقہ میں ایک سوشل سائنس کا مطالعہ کر رہی ہے۔ اس مطالعہ کا مقصد لاہور شہر میں مل رہی ہوگی اس کے ساتھ ساتھ اس کے مسائل کے حل کے لئے ایک ایسی پالیسی تیار کرنا ہے اس میں مل رہی ہوگی اس کے لئے ایک درمیانی مدت کا پلان بنانا بھی شامل ہے۔ یہ مطالعہ میٹروپولیٹن لاہور کے علاقہ کا احاطہ کرے گا۔ جبکہ لاہور شہر کے علاقہ پر خاص توجہ دی جائے گی۔

اس مطالعہ کے نتائج حاصل کرنے کے لئے لاہور میں کئی کئی گھرانوں کا انتخاب ضروری ہے تاکہ یہ معلوم ہو سکے کہ میٹروپولیٹن لاہور میں لوگوں کا سماجی و معاشی معیار کیا ہے اور لوگوں کی روزانہ آمد رفت کی کیا اہمیت ہے۔ لہذا خواتین و حضرات آپ لاہور میں کئی کئی گھرانوں میں سے ایک میں شامل کیا جائے گا تاکہ لاہور میں ٹرانسپورٹ کی صورتحال پر اس کے لئے مناسب معلومات جمع کی جاسکیں۔

میں امید ہے کہ آپ جلد سے سروے کرنے والے لوگوں سے تعاون فرمائیں گے۔ ان کے پاس کچھ ہونے والے ہیں جن سے یہ وہ آپ کی اپنی اپنی معلومات حاصل کریں گے۔ سروے کرنے والے لوگوں میں سے ہر ایک کے پاس شناختی کارڈ بھی پیش کیا جائے گا اور اس کا نمبر ایک ایچ ٹی پی اے (TEPA) ای ڈی اے کے پاس ہونا چاہئے۔ اس سلسلے میں آپ کا تعاون و تعاون کا مطالعہ کے نتائج حاصل کرنے کے لئے بہت ہی اہم ہے۔

ہم آپ کو اس بات کی بھی یقین دہانی کرنا چاہتے ہیں کہ تمام معلومات جو آپ سے حاصل کی جائیں گی ان سے متعلقہ اداروں کی جانچ کی اور انہیں صرف اس مطالعہ کے سلسلے میں ہی استعمال کیا جائے گا۔

خوشی کے ساتھ

خوشحال خان
چیف ٹریفک انجینئر
ٹریفک انجینئرنگ ایڈوائزری
پلاننگ ایجنسی - لاہور میٹروپولیٹن - لاہور

CONFIDENTIAL

FORM 1: HOUSEHOLD INFORMATION



INSRTUCTION : TO BE COMPLETED FOR HEAD OF HOUSEHOLD

(1) NAME : _____ (Name) _____ (S/o/W/o)

(2) ADDRESS OF : _____ (House No.) _____ (Street) _____ (Area/Mohallah/Sector)

(3) HOW MANY MEMBERS RESIDE IN YOUR HOUSEHOLD ?

SEX	No.	TOTAL	LESS THAN 5 YRS. OLD	5 YRS. & ABOVE		* HOUSEHOLD HELPERS
				WORKING	NON WORKING	
1. MALE						
2. FEMALE						
3. TOTAL						

* include servant and driver with same residence

(4) HOW MANY HOUSEHOLD MEMBERS HAVE DRIVER'S LICENSE ?

1. LEARNER 2. LIGHT
 3. HEAVY 4. NONE

(5) WHAT IS THE TOTAL MONTHLY HOUSEHOLD INCOME ?

1. Bilow Rs. 1000	<input type="checkbox"/>
2. Rs. 1001 — Rs. 2000	<input type="checkbox"/>
3. Rs. 2001 — Rs. 3000	<input type="checkbox"/>
4. Rs. 3001 — Rs. 4000	<input type="checkbox"/>
5. Rs. 4001 — Rs. 5000	<input type="checkbox"/>
6. Rs. 5001 — Rs. 6000	<input type="checkbox"/>
7. Rs. 6001 — Rs. 7000	<input type="checkbox"/>
8. Rs. 7001 — Rs. 8000	<input type="checkbox"/>
9. Rs. 8001 — Rs. 9000	<input type="checkbox"/>
10. Rs. 9001 — Rs. 10000	<input type="checkbox"/>
11. Over Rs. 10000	<input type="checkbox"/>

(6) HOW MANY VEHICLES ARE OWNED BY HOUSEHOLD MEMBERS ?

1. Bicycle	<input type="checkbox"/>
2. M.Cycle/Scooter	<input type="checkbox"/>
3. Jeep	<input type="checkbox"/>
4. Car	<input type="checkbox"/>
5. Van/Pick - up	<input type="checkbox"/>
6. Truck	<input type="checkbox"/>
7. Others (Tonga, etc.)	<input type="checkbox"/>
8. None (Pls. check)	<input type="checkbox"/>

(7) DO YOU OWN THE HOUSE YOU RESIDE IN ?

1. YES 2. NO

(8) HOW MANY ROOMS IN YOUR HOUSE ?

(9) HOW LONG HAVE YOU BEEN LIVING AT THE ABOVE ADDRESS ?

LESS THAN 1 YEAR OVER 1 YEAR YRS.
 (PLS. CHECK)

Seq. No.

DATE :

SURVEYOR :

FOR OFFICE USE ONLY

(1) (2) Zone Code

Household Code

(3)

1.

2.

3.

(4)

1.

2.

3.

4.

(5)

(6)

1.

2.

3.

4.

5.

6.

7.

(7)

(8)

(9)

CHECK CODING

CONFIDENTIAL

FORM 3 : TRIP INFORMATION

^a 1ST TRIP

^a 2ND TRIP

TABLE (A) FACILITIES

- 1. Residence
- 2. School/Education/Cultural
- 3. Religious
- 4. Medical/Welfare
- 5. Office
- 6. Shops/Market
- 7. Restaurant
- 8. Amusement/Park/ Recreation
- 9. Factory
- 10. Transportation/Communication
- 11. Agriculture
- 12. Others

TABLE (B) PURPOSE

- 1. To Work
- 2. To School
- 3. To Home
- 4. Shopping
- 5. Social
- 6. Eating
- 7. Mosque/Church
- 8. Recreation / Other Private
- 9. On Business

TABLE (D) PARKING

- 1. Roadside
- 2. Garage/Site of your house
- 3. Parking lot of the visited place
- 4. Other open space
- 5. Not park

ORIGIN
The place you started your travel
(Give the Address/Land Mark, Famous Bldg. near by)

DESTINATION
The place you finished your travel
(Give the Address/Land Mark, Famous Bldg. near by)

TRIP PURPOSE
The purpose of your travel.

NO NEED TO FILL UP. INFORMATION IS SAME AS IN DESTINATION OF 1st TRIP

DID YOU WALK ALL THE WAY FROM ORIGIN TO DESTINATION?
NO YES

DID YOU WALK ALL THE WAY FROM ORIGIN TO DESTINATION?
NO YES

MODE OF TRAVEL AND TRANSFER
All means of Transport you took for your travel. Choose one of those listed below.

TABLE (C) MODE

- 1. Walk
- 2. Bicycle
- 3. M. cycle/Scooter
- 4. Tonga
- 5. Taxi
- 6. Rickshaw
- 7. Car/Jeep
- 8. Van/Pick-up/Micro Truck
- 9. Large Truck
- 10. Institutional Bus
- 11. Suzuki (Bus)
- 12. Minibus/Wagon
- 13. Bus
- 14. Railway
- 15. Others

TRANSFER POINT

1st Mode : Have you Changed mode? NO YES

2nd Mode : Have you Changed mode? NO YES

3rd Mode : Have you changed mode? NO YES

4th Mode : Have you Changed mode? NO YES

5th Mode :

TRANSFER POINT

1st Mode : Have you Changed mode? NO YES

2nd Mode : Have you Changed mode? NO YES

3rd Mode : Have you changed mode? NO YES

4th Mode : Have you Changed mode? NO YES

5th Mode :

You were : y Driver Passenger

No. of Passenger excluding driver? z

Where did you park your car? (Driver only) na

Were seats available? the way ab Yes, all Yes, but No partly ac

Walking time to Bus - stop from ORIGIN : mins. ad

Walking time from the last Bus - Stop to DESTINATION : mins. ad

You were : y Driver Passenger

No. of Passenger excluding driver? z

Where did you park your car? (Driver only) na

Were seats available? the way ab Yes, all Yes, but No partly ac

Walking time to Bus - stop from ORIGIN : mins. ad

Walking time from the last Bus - Stop to DESTINATION : mins. ad

Weather : 1 Fine Cloudy 2
3 Rain Drizzle 4 Rain Heavy

Number of Trips

FOR OFFICE USE ONLY

Zone Code

Household/Member Code

Trip Date

FOR OFFICE USE ONLY

Zone Code

Household/Member Code

Trip Date

ROAD SIDE O-D INTERVIEW SHEET (COMMODITY)



	<p>(4) Vehicle Type</p> <table border="1" style="width: 100%;"> <tr><td>1. Light - van /Pick - up</td><td><input type="checkbox"/></td></tr> <tr><td>2. Micro Truck</td><td><input type="checkbox"/></td></tr> <tr><td>3. Large Truck</td><td><input type="checkbox"/></td></tr> <tr><td>4. Trailer</td><td><input type="checkbox"/></td></tr> <tr><td>5. Tank Lorry</td><td><input type="checkbox"/></td></tr> <tr><td>6. Others</td><td><input type="checkbox"/></td></tr> </table>	1. Light - van /Pick - up	<input type="checkbox"/>	2. Micro Truck	<input type="checkbox"/>	3. Large Truck	<input type="checkbox"/>	4. Trailer	<input type="checkbox"/>	5. Tank Lorry	<input type="checkbox"/>	6. Others	<input type="checkbox"/>	<p>(5) Number Plate</p> <table border="1" style="width: 100%;"> <tr><td>1. Lahore</td><td><input type="checkbox"/></td></tr> <tr><td>2. Others</td><td><input type="checkbox"/></td></tr> </table>	1. Lahore	<input type="checkbox"/>	2. Others	<input type="checkbox"/>	<p>Seq. No.</p> <input style="width: 100%;" type="text"/>
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2. Others	<input type="checkbox"/>																		
			<p>(1) Station No: <input style="width: 100%;" type="text"/></p> <p>(2) Date: <input style="width: 100%;" type="text"/></p> <p>Shift: 1, 2, 3, <input style="width: 100%;" type="text"/></p> <p>Surveyor: <input style="width: 100%;" type="text"/></p>																
			<p>Supervisor: <input style="width: 100%;" type="text"/></p>																
			FOR OFFICE USE ONLY																
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			D. <input style="width: 100%;" type="text"/>																
			(9) O. <input style="width: 100%;" type="text"/> D. <input style="width: 100%;" type="text"/>																
			(10) <input style="width: 100%;" type="text"/>																
			(11) <input style="width: 100%;" type="text"/>																

(3)	(7) Number of Persons (including driver) <input style="width: 20px;" type="text"/> PRSN	<p>(8) Where is the place of origin/destination of your trip ?</p> <table border="1" style="width: 100%;"> <thead> <tr> <th style="width: 50%;">Origin</th> <th style="width: 50%;">Destination</th> </tr> </thead> <tbody> <tr> <td>(No.) _____ (Street) _____</td> <td>(No.) _____ (Street) _____</td> </tr> <tr> <td>(Area/Mohallah/Sector) _____</td> <td>(Area/Mohallah/Sector) _____</td> </tr> <tr> <td>(Division/District/Province) _____</td> <td>(Division/District/Province) _____</td> </tr> <tr> <td>Bldg. Name etc. _____</td> <td>Bldg. Name etc. _____</td> </tr> </tbody> </table>	Origin	Destination	(No.) _____ (Street) _____	(No.) _____ (Street) _____	(Area/Mohallah/Sector) _____	(Area/Mohallah/Sector) _____	(Division/District/Province) _____	(Division/District/Province) _____	Bldg. Name etc. _____	Bldg. Name etc. _____					
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(Division/District/Province) _____	(Division/District/Province) _____																
Bldg. Name etc. _____	Bldg. Name etc. _____																
		<p>(9) What is the facility of origin/destination</p> <table border="1" style="width: 100%;"> <tr> <td>1. Retail store, shopping market and supermarket</td> <td>7. Harbour</td> <td rowspan="13" style="vertical-align: middle;"> <input style="width: 100px; height: 100px;" type="checkbox"/> Origin <input style="width: 100px; height: 100px;" type="checkbox"/> Destination </td> </tr> <tr> <td>2. Factory and repair shop</td> <td>8. Airport</td> </tr> <tr> <td>3. Warehouse and yard for construction materials</td> <td>9. Railway station</td> </tr> <tr> <td>4. Construction site</td> <td>10. Dry port</td> </tr> <tr> <td>5. House</td> <td>11. Natural land (such as quarry site)</td> </tr> <tr> <td>6. Office and public facility</td> <td>12. Agriculture and forestry site</td> </tr> <tr> <td></td> <td>13. Others (specify : _____)</td> </tr> </table>	1. Retail store, shopping market and supermarket	7. Harbour	<input style="width: 100px; height: 100px;" type="checkbox"/> Origin <input style="width: 100px; height: 100px;" type="checkbox"/> Destination	2. Factory and repair shop	8. Airport	3. Warehouse and yard for construction materials	9. Railway station	4. Construction site	10. Dry port	5. House	11. Natural land (such as quarry site)	6. Office and public facility	12. Agriculture and forestry site		13. Others (specify : _____)
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	13. Others (specify : _____)																
			<p>(10) What is the type of commodity ?</p> <table border="1" style="width: 100%;"> <tr> <td>1. Perishable goods (vegetable, fresh meat and fish)</td> <td>6. Mining products except for the construction materials</td> </tr> <tr> <td>2. Agricultural and forestry products, and preserved fish</td> <td>7. Chemical products except for fuels</td> </tr> <tr> <td>3. Processed foods</td> <td>8. Fuels</td> </tr> <tr> <td>4. Livestock</td> <td>9. Metals and machinery</td> </tr> <tr> <td>5. Construction materials (cement, wood, earth, sand etc.)</td> <td>10. Miscellaneous industrial products</td> </tr> <tr> <td></td> <td>11. Others (specify : _____) <input style="width: 20px;" type="checkbox"/></td> </tr> </table>	1. Perishable goods (vegetable, fresh meat and fish)		6. Mining products except for the construction materials	2. Agricultural and forestry products, and preserved fish	7. Chemical products except for fuels	3. Processed foods	8. Fuels	4. Livestock	9. Metals and machinery	5. Construction materials (cement, wood, earth, sand etc.)	10. Miscellaneous industrial products		11. Others (specify : _____) <input style="width: 20px;" type="checkbox"/>	
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	11. Others (specify : _____) <input style="width: 20px;" type="checkbox"/>																
		<p>(11) How is your loading condition ?</p> <p>1. Empty <input type="checkbox"/> 2. 1/4 <input type="checkbox"/> 3. 1/2 <input type="checkbox"/> 4. 3/4 <input type="checkbox"/> 5. Full <input type="checkbox"/></p>															

APP 2- 3. Traffic Count Survey Sheet

TRAFFIC COUNT SURVEY SHEET



DIRECTION

STATION NO.: [] [] [] []

NAME OF ROAD: FROM: [] [] [] [] TO: [] [] [] []

SURVEYOR: [] [] [] []

SURVEY DATE: [] [] [] [] [] []

SUPERVISOR: [] [] [] []

VEHICLE TYPE	SHIFT			1	2	3	4	5	6	7	8	9	10	11	12	13	14	TOTAL	REMARKS
	1	2	3																
1 BICYCLE																			
2 M. CYCLE																			
3 SCOOTER																			
4 CAR																			
5 JEEP																			
6 LIGHT-VAN																			
7 TRUCK																			
8 PICK-UP																			
9 TRAILER																			
10 MICRO TRUCK																			
11 TANKER																			
12 SUZUKI (PASSENGER)																			
13 MINIBUS (PASSENGER)																			
14 WAGON																			
15 RICKSHAW																			
16 TAXI																			
17 INEZITU																			
18 TIONAL																			
19 BGS																			
20 ANIMAL (PASSENGER)																			
21 TONGA																			
22 ANIMAL (PASSENGER)																			
23 CAMEL																			
24 REHRI																			
25 ANIMAL (COMMODITY)																			
26 DRAWN																			
27 OTHERS																			
TOTAL																			
REMARKS																			

Person Trips of Residents of the LMA

Example 1. Commuting from the Lahore Suburbs: the Case of Mr. Sarwar

Mr. Sarwar, 42 years old, with his wife and 5 children, lives in his own house recently purchased in Sheikhu Pura, the suburbs of Lahore some 30 km from the city center. He commutes to his office of the Traffic Engineering & Transport Planning Agency (TEPA), LDA located along Lytton Road in the center of Lahore, leaving his house 7:00 a.m. in the morning and arriving at his office at 8:30 a.m.

To go to his office, he walks about 2 minutes to the nearest bus stop from home. A minibus and /or bus trip to go to Choke Yadgar located in the north of the Walled City usually takes more than 40 minutes for a 25-kilometer distance because of traffic congestion. He transfers from minibus and/or bus to minibus at Choke Yadgar. From there to ADC bus stop which is the nearest bus stop to his office, it takes about 15 to 20 minutes. After getting off minibus, he walks about 2 minutes to his office.

Mr. Sarwar spends approximately one and a half hours commuting every day.

Example 2. Commuting from North Lahore: the Case of Mr. Syed Muhammad Afzal Naqvi

Mr. Naqvi, 39 years old with his wife, mother in law, a cousin and 5 children, lives in his own house. He got this house from his parents, and it is situated in Northern Lahore in Wassan Pura Mohella. He commutes to his office of the Punjab Economic Research Institute in Gulberg III, leaving his house at 7:00 a.m. in the morning and arriving at his office at 8:00 a.m.

To go to his office he walks about 2 minutes to the nearest bus stop from home. A minibus trip to go to G.T.Road near overhead railway crossing of Lahore Railway Station in 8 minutes, walks again on the overhead crossing for 7 minutes to get a minibus (Route No.43 or 15) which takes him to his office in more than 40 minutes. The minibus stop is just in front of his office.

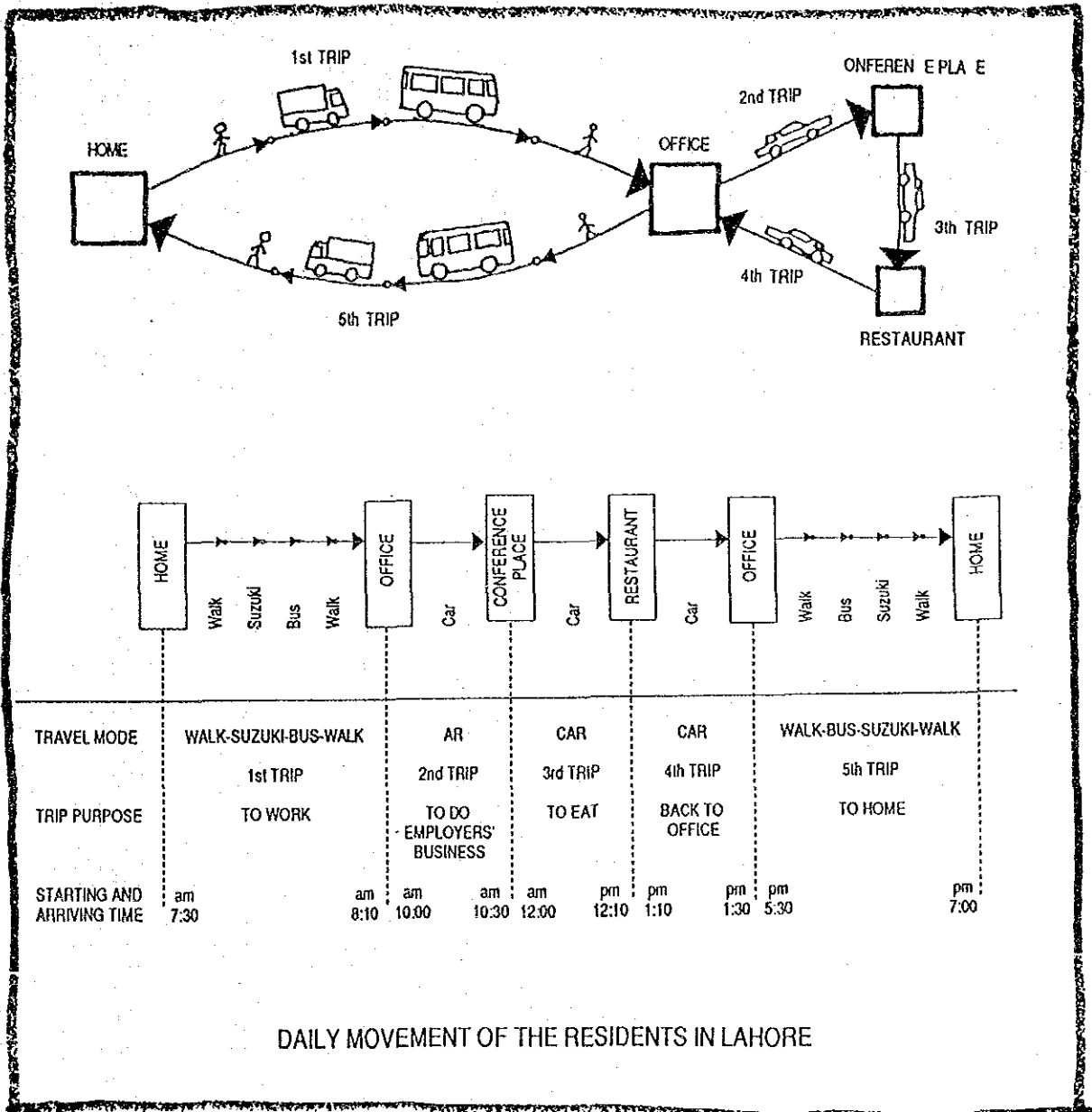
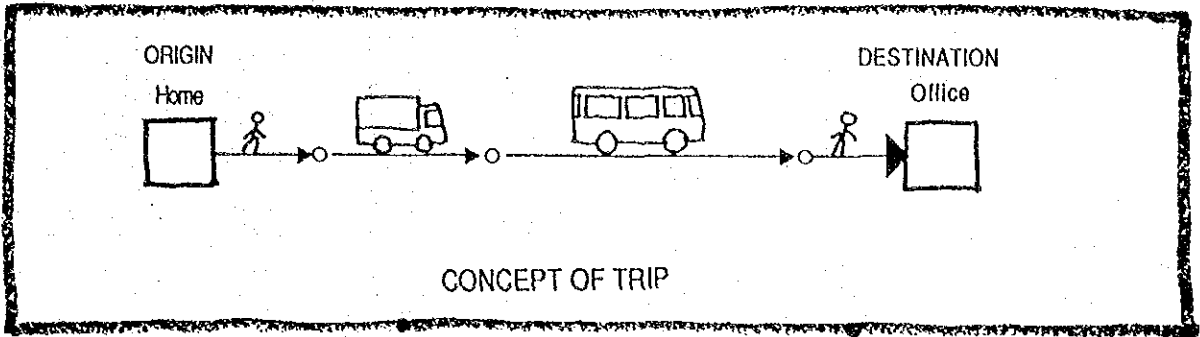
Mr. Naqvi spends approximately one hour commuting every day.

Example 3. Commuting from Gulberg II: the Case of Miss. Salmashahir

Miss. Salmashahir, 23 years old, lives in the women's dormitory which is a social welfare facilities in Canal Park of Gulberg II, the residential area for high income level in Lahore. She commutes to her office of the Traffic Engineering & Transport Planning Agency (TEPA), LDA located along Lytton Road in the center of Lahore, leaving her dormitory 7:30 a.m. in the morning and arriving at her office at 8:10 a.m.

To go her office, she walks about 4 minutes to the nearest bus stop from the dormitory. A minibus (Route No.43/15/27) to go to Mozang Chowk which is one of problematic intersections in Lahore usually takes about 20 minutes. She transfers from minibus to minibus at Mozang Chowk. From there to the nearest bus stop to her office, it takes about 10 minutes. After getting off minibus, she walks about 1 minute to her office.

Miss. Salmashahir spends approximately 40 minutes commuting every day.



APP. 2- 5. 1990 Population Data by Zone

Table - DAYTIME AND NIGHTTIME POPULATION IN 1990

	POPULATION		DAY/NIGHT RATE	THE ITEMS OF DAYTIME POPULATION				
	IN DAYTIME	AT NIGHT		WORKER	STUDENT	HOUSEWIFE	INFANT	OTHERS
LMA	5430336	5430336	1.00	1437907	1413729	1186929	781898	489725
INNER AREA	4302413	4168000	1.03	1153563	1161174	902701	600138	389646
ZONE 1(10101)	177729	189377	0.94	66646	31930	32739	27268	15216
ZONE 2(10102)	40547	23926	1.69	27441	4808	3592	3445	364
ZONE 3(10103)	54874	43905	1.25	15551	25682	4624	6322	1481
ZONE 4(10104)	38951	29056	1.34	15326	12803	4597	4184	1179
ZONE 5(10105)	64008	13657	4.69	36760	19763	2163	1966	1940
ZONE 6(10106)	41382	24415	1.69	15621	16126	3991	3515	1213
ZONE 7(10107)	16543	31179	0.53	3537	1553	4782	4489	1816
ZONE 8(10201)	22327	23470	0.95	11935	3146	2814	3379	559
ZONE 9(10202)	91083	15822	5.76	67661	15763	2702	2278	664
ZONE10(10203)	87874	62721	1.40	54146	11497	8772	9031	2484
ZONE11(10204)	84178	17805	4.73	34417	42758	1425	2564	1152
ZONE12(10205)	55086	28842	1.91	22556	22702	3357	4153	1099
ZONE13(10206)	104413	25130	4.15	39796	52027	6077	3618	585
ZONE14(10207)	54387	32723	1.66	27405	14144	3426	4712	3497
ZONE15(10208)	32721	37446	0.87	6701	7489	8972	5392	3443
ZONE16(10301)	40246	41162	0.98	10935	9497	10039	5927	2958
ZONE17(10302)	136230	132573	1.03	33408	34577	36411	19089	9731
ZONE18(10303)	69220	91561	0.76	8370	18119	22976	13184	5039
ZONE19(10304)	74698	79868	0.94	14640	23487	17323	11500	6095
ZONE20(10305)	101447	57193	1.77	23601	44668	19611	8235	3087
ZONE21(10401)	35286	31440	1.12	6856	13965	7449	4527	1708
ZONE22(10402)	45575	58675	0.78	10790	11276	10218	8448	3835
ZONE23(10403)	110165	123845	0.89	16728	35388	28065	17832	9715
ZONE24(10404)	71334	60853	1.17	25454	16890	14008	8762	4642
ZONE25(10501)	62085	76055	0.82	12897	11308	16555	10951	9000
ZONE26(10502)	85044	105379	0.81	21116	12168	22578	15173	12127
ZONE27(10503)	70331	86975	0.81	13088	11797	20866	12523	10501
ZONE28(10504)	173059	227065	0.76	24014	29670	60014	32694	22838
ZONE29(10601)	98845	114123	0.87	21862	24477	23891	16432	9996
ZONE30(10602)	93276	105635	0.88	20497	21303	22727	15210	11475
ZONE31(10701)	84657	94212	0.90	13896	16485	24101	13565	14737
ZONE32(10702)	145971	116396	1.25	28102	61874	23585	16760	12420
ZONE33(10703)	88485	106887	0.83	17631	14078	27909	15390	11519
ZONE34(10704)	186769	197154	0.95	33650	44521	45220	28388	30858
ZONE35(10705)	100943	128679	0.78	15586	27103	24075	18528	13418
ZONE36(10801)	77006	89250	0.86	18194	16529	18028	12851	9700
ZONE37(10802)	104335	106900	0.98	25190	29982	24164	15392	7299
ZONE38(10901)	25973	35028	0.74	5406	3436	7784	5044	3728
ZONE39(10902)	66895	48751	1.37	24698	18125	11244	7020	4328
ZONE40(10903)	102172	61546	1.66	30444	38869	15132	8862	6604
ZONE41(10904)	50631	74607	0.68	8835	6612	16259	10742	7063
ZONE42(10905)	64072	74657	0.86	17488	12987	15879	10750	5550
ZONE43(10906)	67083	28106	2.39	12988	41120	5580	4047	1864
ZONE44(10907)	79005	74605	1.06	27826	10674	19773	10742	8242
ZONE45(11001)	22110	29134	0.76	1654	4188	8178	4195	3406
ZONE46(11002)	150822	185331	0.81	29059	40909	31803	26685	19029
ZONE47(11101)	47008	55789	0.84	8267	11157	13633	8033	4878
ZONE48(11102)	39416	27996	1.41	12119	14296	6083	4031	2015
ZONE49(11103)	35599	24377	1.46	7351	20004	3190	3510	756
ZONE50(11104)	134530	157547	0.85	18873	33655	35266	22685	21074
ZONE51(11105)	61764	27247	2.27	23505	24463	4589	3923	3917
ZONE52(11201)	18774	37390	0.50	2531	2050	7159	5384	1235
ZONE53(11202)	19357	19630	0.99	2950	8424	3536	2826	1193
ZONE54(11203)	112398	138844	0.81	23683	23995	27781	19992	14460
ZONE55(11204)	43594	56737	0.77	9239	8294	13179	8169	3748
ZONE56(11205)	46858	57530	0.81	9526	8326	14280	8284	5405
ZONE57(11206)	93242	121794	0.77	15117	18237	28527	17537	11761
OUTER AREA	1127923	1262336	0.89	284344	252555	284228	181760	100079
ZONE58(11301)	35524	42108	0.84	8892	6081	11061	6063	2641
ZONE59(11302)	15787	18474	0.85	3302	3033	4935	2660	1508
ZONE60(11303)	45246	57335	0.79	9326	8608	12588	8255	5468
ZONE61(11304)	32173	39111	0.82	8775	3425	11374	5631	2256
ZONE62(11305)	29469	18029	1.63	9453	9957	5093	2596	1718
ZONE63(11306)	28281	36007	0.79	6611	4190	8785	5185	2884
ZONE64(11307)	13997	15202	0.92	3982	2425	4283	2189	808
ZONE65(11401)	12598	15062	0.84	3557	3188	2659	2169	746
ZONE66(11402)	18814	27659	0.68	2081	1937	7451	3983	2946
ZONE67(11403)	27942	33485	0.83	6497	7174	6977	4821	1855
ZONE68(11404)	38805	48742	0.80	8359	10329	9819	7018	2421
ZONE69(11405)	4260	5519	0.77	985	445	1452	795	489
ZONE70(11406)	15409	19661	0.78	4593	2155	3806	2831	1683
ZONE71(11501)	11546	11630	0.99	3815	2147	3127	1675	527
ZONE72(11502)	26992	32131	0.84	5694	6060	7495	4626	2520
ZONE73(11503)	31495	38526	0.82	9154	5514	8163	5547	2420
ZONE74(11504)	25852	31883	0.81	6493	3559	6810	4591	3827
ZONE75(11505)	41334	46825	0.88	9491	10058	9386	6742	4742
ZONE76(11506)	62990	65624	0.96	16266	14481	15154	9449	6246
ZONE77(11507)	75371	82987	0.91	19978	17133	16954	11949	7689
ZONE78(11601)	109368	111242	0.98	28056	29794	21801	16017	11280
ZONE79(11602)	80936	91549	0.88	20555	19071	21325	13182	5012
ZONE80(11701)	45782	49769	0.92	12196	8956	11685	7166	4766
ZONE81(11702)	94355	107230	0.88	25346	19837	22749	15440	8895
ZONE82(11703)	53878	57191	0.94	14030	14142	13041	8235	3238
ZONE83(11704)	132449	138286	0.96	32176	36074	32063	19911	9295
ZONE84(11705)	17270	21069	0.82	4681	2782	4192	3034	2199

App.2- 6 Existing Land Use by Zone (1)

ZONE NO.	RESIDENTIAL	COMMERCIAL	INDUSTRY & WORKSHOPS	EDUCATIONAL	PARK & OPEN SPACE	OFFICES & PUBLIC BUILDINGS	HOSPITAL & WELFARE	TRANSPORT FACILITIES	MILITARY AREA
1(10101)	137.5	79.0			10.6		5.4		
2(10102)	51.2	8.5	35.5		51.3	0.0		9.5	
3(10103)	49.4	42.3	1.6	10.5		5.2			
4(10104)	31.2	17.7		3.1					
5(10105)	11.3	42.3		5.1		4.2	15.1		
6(10106)	24.4	37.8		20.9		7.5	2.9		
7(10107)	45.3	31.0		4.1					
8(10201)	43.4	12.5		5.6	1.3	9.2			
9(10202)	41.4	37.3		7.5	4.9	15.0			
10(10203)	72.4	56.2		22.5		49.4			
11(10204)	36.3	16.6		47.6	13.1	31.9			
12(10205)	132.2	17.5		19.4	3.8	18.8			
13(10206)	273.6	25.6		98.1	158.1	53.1	31.3		10.0
14(10207)	80.9	6.1	43.3	2.5	14.0	9.0		9.4	
15(10208)	96.3	5.0	146.7		45.0				
16(10301)	179.4	13.8	1.9				28.8		
17(10302)	405.5	60.6	6.0	13.4	10.2	2.9			
18(10303)	397.3	27.5	2.5	18.1	9.4		4.2		
19(10304)	537.5	16.9	42.5	17.5	15.6				
20(10305)	428.8	9.1	29.7	93.5	14.4	1.5	18.7		
21(10401)	82.7	8.8	30.4		0.2				
22(10402)	90.1	28.4	3.5						
23(10403)	209.9	50.3		45.8					
24(10404)	134.9	10.6	134.3	43.2	1.9	6.3	2.8		
25(10501)	117.2	53.8	10.0		34.8				
26(10502)	194.0	20.1	14.4		1.7				
27(10503)	162.8	26.3	17.5		1.5				
28(10504)	719.9	69.7	14.4		1.0				
29(10601)	283.8	36.3	28.8			2.5			
30(10602)	296.3	37.7	4.2						
31(10701)	151.1	3.3	58.8		122.7				
32(10702)	268.7	40.6	4.4	3.8	37.0				
33(10703)	270.0	9.2			553.5				
34(10704)	500.8	43.1	53.8						
35(10705)	261.7	13.1	17.5						
36(10801)	235.0	25.0	27.5						
37(10802)	239.2	12.5	16.3		57.1				
38(10901)	111.7	4.4	2.5	11.3	48.1	37.5			
39(10902)	250.6	18.3	31.9	11.3	23.1	3.8			
40(10903)	295.1	11.3		42.6	78.1	16.9			
41(10904)	307.3	4.8	17.5	34.3	25.7		36.3	193.8	
42(10905)	706.9	14.4	5.6	116.9	1.9	1.3			
43(10906)	350.8	5.6		9.4	142.5				
44(10907)	313.5	9.4	10.0		1.9				
45(11001)	475.0								
46(11002)	669.6	3.8	265.0	2.5	15.0				
47(11101)	160.3	16.9	30.6			3.1			45.7
48(11102)	75.8	19.2			37.5		5.0	69.8	178.2
49(11103)	52.5	8.3		20.0	2.5			130.0	432.1
50(11104)	333.8		2.5	6.7					
51(11105)	321.6	12.5			329.2	2.5		309.2	427.5
52(11201)	177.2	8.3		7.5					97.5
53(11202)	130.8	1.7					11.7		15.0
54(11203)	1180.9	25.0	25.0	65.8	12.5	15.0			30.8
55(11204)	306.3	2.5							
56(11205)	122.5	10.0							
57(11206)	293.6	11.9	103.1	7.5	75.0		11.9		
TOTAL	13513.1	1218.5	1136.1	810.5	1881.1	296.6	162.2	721.7	1236.8

ZONE NO.	GRAVE YARD & MOSQUE	RIVER & CANAL	AGRICUL- TURAL & OTHERS	INHABITABLE	TOTAL	REMARKS -Disqualified Area for Urbanization-
1(10101)	42.5			216.5	275.0	
2(10102)				59.7	156.0	
3(10103)				91.7	109.0	
4(10104)				48.9	52.0	
5(10105)				53.6	78.0	
6(10106)	3.5			62.2	97.0	
7(10107)	5.4			76.3	85.8	
8(10201)				55.9	72.0	
9(10202)	6.9			78.7	113.0	
10(10203)	21.5			128.6	222.0	
11(10204)	1.5			52.9	147.0	
12(10205)	1.3			149.7	193.0	
13(10206)	30.2			299.2	680.0	
14(10207)	3.8			87.0	169.0	
15(10208)				101.3	293.0	
16(10301)	7.1			193.2	231.0	
17(10302)	32.4			466.1	531.0	
18(10303)				424.8	459.0	
19(10304)				554.4	630.0	
20(10305)	33.5		614.8	1052.7	1244.0	
21(10401)				91.5	122.1	
22(10402)				118.5	122.0	
23(10403)				260.2	306.0	
24(10404)	7.0			145.5	341.0	
25(10501)		1.0	85.5	256.5	302.3	
26(10502)			163.8	377.9	394.0	
27(10503)			116.9	306.0	325.0	
28(10504)				789.6	805.0	
29(10601)		64.2	2075.4	561.6	2491.0	Along Ravi-1833.9
30(10602)		100.8	1221.8	904.1	1660.8	Along Ravi-651.7
31(10701)		205.4	455.6	278.1	996.9	North of Band Road-331.9
32(10702)	12.5		88.0	397.3	455.0	
33(10703)			911.3	593.0	1744.0	North of Band Road-597.5
34(10704)	6.7		903.1	1219.7	1507.5	North of Band Road-227.3
35(10705)			376.7	651.5	669.0	
36(10801)		508.3	2477.5	885.0	3273.3	Between Sharaqpur&Ravi-1852.5
37(10802)		15.0	1043.9	1295.6	1384.0	
38(10901)	37.5			116.1	253.0	
39(10902)				268.9	339.0	
40(10903)				306.4	444.0	
41(10904)	8.3			312.1	628.0	
42(10905)			0.0	721.3	847.0	
43(10906)				356.4	508.3	
44(10907)			100.2	423.1	435.0	
45(11001)			883.0	1358.0	1358.0	
46(11002)			8.1	681.5	964.0	
47(11101)			4.4	181.6	261.0	
48(11102)			2.5	97.5	388.0	
49(11103)			262.6	60.8	908.0	Reserved Farm-262.6
50(11104)			1101.0	1434.8	1444.0	
51(11105)			195.8	334.1	1598.3	Reserved Farm-195.8
52(11201)			137.5	323.0	428.0	
53(11202)			23.3	155.8	182.5	
54(11203)			512.5	1718.4	1867.5	
55(11204)			2251.2	2560.0	2560.0	
56(11205)			469.5	602.0	602.0	
57(11206)			221.0	526.5	724.0	
TOTAL	261.6	894.7	16016.4	30748.0	38149.3	

APP.2-7 1990 OD Table by Mode

Mode : Walk

o	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	Total
1	281068	10545	1311	4850	10478	123	9884	650	307	83	604	82	-	-	-	-	730	-	-	-	-	-	320715
2	10566	13158	3021	4659	7465	530	1590	319	1072	498	2477	737	-	-	-	-	-	-	-	-	-	-	164582
3	1262	2709	129027	340	4612	7484	68	175	1716	410	149	115	-	-	299	-	-	-	-	-	-	-	148366
4	4103	4706	198	182561	166	304	20882	143	899	899	899	899	-	-	-	-	-	-	-	-	-	-	213962
5	10420	7517	4416	608383	491	1074	946	80	80	318	52	84	-	-	111	-	84	83	-	-	-	-	633452
6	238	481	6599	304	614	226932	-	-	-	-	-	84	-	-	-	-	317	-	-	-	-	-	235948
7	9301	1130	20103	1100	636599	771	77	77	77	3772	114	114	650	-	200	-	3482	-	-	-	-	-	673934
8	721	319	175	143	946	641	641	164520	62	3031	3505	5172	-	833	200	-	-	-	-	-	-	-	171209
9	149	717	1843	311	348	84	145	133	148161	149513	2846	654	-	2892	437	-	83	-	-	-	-	-	164121
10	349	498	222	311	77	77	3549	-	83	83	290486	2232	168	205	205	-	205	-	-	-	-	-	157333
11	1629	986	-	874	117	-	68	-	5188	654	2176	312020	94	188	259	-	413	-	-	-	-	-	303374
12	-	-	-	-	87	-	718	-	833	2933	168	176	261689	166244	112	-	-	-	-	-	-	-	322113
13	-	-	-	-	-	-	-	-	833	2933	168	176	261689	166244	112	-	-	208	-	-	-	-	262863
14	-	-	-	-	-	-	-	-	833	2933	168	176	261689	166244	112	-	-	323	-	-	-	-	170729
15	-	-	-	-	-	-	-	-	833	2933	168	176	261689	166244	112	-	-	323	-	-	-	-	193236
16	-	-	-	-	-	-	-	-	833	2933	168	176	261689	166244	112	-	-	323	-	-	-	-	299917
17	-	-	-	-	-	-	-	-	833	2933	168	176	261689	166244	112	-	-	323	-	-	-	-	488860
18	-	-	-	-	-	-	-	-	833	2933	168	176	261689	166244	112	-	-	323	-	-	-	-	196053
19	-	-	-	-	-	-	-	-	833	2933	168	176	261689	166244	112	-	-	323	-	-	-	-	279
20	-	-	-	-	-	-	-	-	833	2933	168	176	261689	166244	112	-	-	323	-	-	-	-	279
22	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	5121046
Total	318820	162875	147067	214437	634316	236303	675600	171213	164003	157917	304288	322566	263041	170303	193384	299687	489093	195854	-	-	-	-	-

Mode : 2 Wheel

o	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	Total		
1	38674	22822	12432	14132	26037	3980	21358	4332	6771	1946	6757	3175	915	92	538	387	594	-	593	335	24	53	165947		
2	24562	63635	23666	19684	34905	6580	22329	3059	17212	4850	17235	8484	1271	711	444	303	505	398	105	21	-	52	250021		
3	12351	24888	98012	3208	15489	20238	3066	1206	24215	5299	4188	4886	-	211	847	230	56	-	34	420	-	103	218647		
4	14762	20024	4489	43209	1531	462	26727	1048	2682	463	7304	934	993	53	-	-	21	71	-	-	-	-	124752		
5	25445	33391	15338	1641	80921	2749	2784	2017	3487	488	2028	618	178	126	-	-	21	-	154	252	-	-	171338		
6	4030	7733	21626	390	2630	20472	818	389	3215	1602	479	708	178	82	1139	-	42	185	-	-	-	54	65512		
7	20891	23554	3339	26825	2262	1168	112076	4904	4407	68	12156	1361	2220	39	297	-	325	77	105	210	-	-	216805		
8	4081	3108	1253	1336	2262	389	4628	40593	341	-	272	71	63	82	-	-	4841	-	69	105	-	-	63556		
9	6765	17307	24095	2752	3473	3273	4178	250	98341	16399	7848	16087	408	1470	967	-	122	-	-	105	63	107	203889		
10	2097	4989	6187	583	336	1240	65	-	16682	39410	354	2370	-	1296	1388	-	-	161	-	-	-	-	77280		
11	6941	18026	4516	7214	2389	575	11980	343	7659	519	63484	12026	611	136	85	-	-	-	-	21	-	-	106	136631	
12	3526	8122	4693	1003	739	490	1636	71	16705	2368	12584	47153	566	1337	489	-	-	82	-	-	40	269	101873		
13	717	1373	-	993	204	-	2125	63	310	-	515	504	17561	3461	185	-	300	-	-	21	-	-	24871		
14	70	624	83	42	87	-	159	42	1462	1409	289	996	42	294	202	-	-	-	-	-	-	-	9001		
16	538	216	647	42	116	1595	229	-	879	1203	98	527	185	-	6503	-	-	473	-	-	-	-	13	13649	
17	387	533	22	-	53	84	260	4926	22	122	-	-	265	-	-	6142	-	212	24	-	187	104	13649		
18	589	573	-	71	15	185	77	-	161	161	-	169	-	-	386	212	9103	8111	544	392	-	-	84	16871	
19	213	398	-	15	16	-	15	108	59	-	16	-	-	-	-	-	37	-	-	-	-	-	-	263	10246
20	47	47	-	22	22	-	45	49	-	-	-	-	-	-	-	-	45	-	16	-	-	-	-	361	361
21	46	46	-	-	-	-	45	49	49	-	-	-	-	-	-	-	-	-	-	-	-	-	-	202	202
22	29	29	-	-	-	-	78	49	223	76307	135643	100345	276	41	42	98	-	377	-	-	73	13	379	1342	
Total	166371	251486	220553	123862	174160	63522	214634	63432	204721	76307	135643	100345	25252	9349	13532	7421	15991	10147	1644	1806	387	1221	1881826		

Mode : Car

	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	Total
1	11611	12042	10635	2455	7977	2116	5206	1488	12869	1757	1808	4266	878	114	427	541	2861	371	2246	1734	765	342	84539
2	12227	53442	38735	3931	17077	4169	8085	1355	53901	8001	7668	15447	1778	1047	500	107	482	492	475	916	640	183	275558
3	10134	37246	58178	1165	4758	9136	1788	164	45430	5652	4075	9464	98	559	1153	24	713	239	2832	600	733	218	194959
4	2544	3596	1345	2515	611	84	3233	247	2952	160	641	998	737	226	496	-	77	-	246	101	98	100	20551
5	7668	5139	399	399	8601	429	495	422	4760	83	813	710	9	82	411	-	411	-	730	531	108	59	44497
6	1832	3800	9884	84	428	5376	396	464	4764	938	298	376	457	229	656	231	24	-	8	20	-	109	30436
7	5790	9027	2083	3406	428	190	18949	402	2836	222	2046	670	2668	59	212	186	446	-	268	265	303	86	50542
8	1471	1254	855	247	311	592	547	1863	1380	237	258	179	-	18	590	-	590	-	1457	414	43	59	11895
9	13750	54608	43526	3204	4743	4579	3097	1294	193277	19142	13634	25393	1210	292	1587	462	761	185	503	1343	468	353	387411
10	1754	9283	5566	72	83	1034	222	267	19374	13128	853	853	92	3	-	302	-	320	-	124	12	44	53053
11	1907	8036	3931	479	728	228	2193	258	13262	854	26495	18863	209	496	114	123	114	-	421	149	85	134	78965
12	3966	16396	8675	1200	623	160	803	238	25923	817	19565	59447	31	740	277	311	87	201	234	44	35	392	131165
13	641	1233	181	386	-	439	2996	-	1311	96	147	99	4259	34	13	109	213	14	7	22	-	59	12319
14	144	1045	438	169	34	230	75	33	321	6	518	486	52	1592	4	-	7	-	6	27	25	30	5242
15	799	833	895	-	496	432	228	8	1270	78	3	344	-	10	1854	-	-	228	17	29	99	24	7647
16	378	213	314	-	11	231	201	-	462	-	-	-	-	-	-	3179	8	318	23	67	1963	196	7564
17	2977	470	913	12	493	29	292	985	712	122	291	92	213	13	29	10	4709	16	2307	2079	45	67	16876
18	185	583	182	-	-	64	1103	687	488	237	25	92	20	-	7	9	38	1536	55	6	107	404	4025
19	2139	2041	1631	326	1174	207	250	315	2196	210	597	220	33	23	36	48	749	27	2307	119	597	96	14067
20	2251	1149	108	295	714	47	84	87	336	38	590	53	12	17	11	30	354	40	49	20	67	73	7001
21	825	163	463	579	233	47	242	87	111	28	98	111	12	128	11	812	128	239	973	174	564	176	6066
22	369	354	254	67	44	122	123	41	225	112	155	424	35	73	33	142	152	200	150	108	33	73	3189
Tc	85362	229426	193941	20991	44649	30031	50366	11218	388331	51928	80249	129587	12800	5644	7295	6626	12844	4426	13014	8892	6730	3287	1397697

Mode : Private Total

	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	Total
1	50285	34864	23067	16587	34034	6096	26564	5820	19640	3713	8565	7441	1793	206	965	928	3455	371	2839	2069	789	395	250486
2	36789	117077	62401	23615	46982	10749	30414	4424	71113	12851	24903	23931	3049	1758	944	410	987	890	580	937	640	235	475679
3	22485	62134	156190	5073	20247	29374	4854	1970	69645	10951	8263	14350	98	770	2000	254	769	239	2866	1020	733	321	414606
4	17306	23620	5834	45724	2142	546	29960	1295	5674	623	7945	1932	1730	279	-	-	77	71	246	101	98	100	145303
5	32813	45943	20477	2040	89522	3178	3279	2439	8247	571	2841	1328	187	208	496	-	432	108	884	783	108	59	215835
6	5862	11533	31510	474	3120	25848	1214	853	7979	2540	777	1084	457	229	1795	231	66	185	8	20	-	163	98948
7	26681	32581	5422	30231	3378	1358	131025	5306	7243	290	14202	2031	4888	141	509	186	771	77	373	285	303	86	267347
8	5552	4362	2118	1583	2573	1081	5175	42456	1721	237	530	250	63	57	-	-	5431	-	1526	624	43	69	75451
9	20515	71915	67621	59556	8216	7852	7276	1544	291618	35541	21482	41480	1618	1762	2554	462	761	185	503	1448	531	460	591300
10	3851	14272	11753	655	419	2374	287	267	36056	52538	874	3223	92	1239	1388	302	122	481	-	124	12	44	130333
11	8848	26062	8447	7693	3117	603	14173	601	28921	1173	89979	30869	820	632	85	123	114	283	421	170	85	240	215596
12	7492	24518	13368	2203	1362	650	2439	309	42628	3185	32149	97600	577	2077	786	311	87	14	234	44	75	661	233038
13	1358	2666	181	1379	204	439	5121	63	1621	96	662	603	21820	34	198	109	513	14	7	43	-	59	37190
14	1669	521	211	121	121	230	234	75	1783	1415	807	1482	94	5053	226	-	7	6	6	27	25	43	14243
15	1337	1049	1542	42	611	2027	457	8	2149	1281	101	871	185	304	8357	9321	17	701	17	29	99	128	21296
16	785	746	314	12	546	315	201	-	462	244	291	92	478	13	-	-	8	530	47	67	2150	280	15217
18	3566	1043	935	12	-	29	552	5911	734	448	291	261	20	13812	29	10	13812	16	2831	2471	45	67	33747
19	2171	2088	1631	341	1190	37	1118	795	2255	398	29	220	33	23	386	221	58	9647	55	6	107	667	14301
20	2251	1195	108	317	736	207	295	337	336	210	613	220	20	17	36	48	786	27	23	119	597	96	14428
21	825	211	512	579	233	47	84	136	291	38	98	53	12	17	11	30	399	40	49	20	67	73	7203
22	369	383	360	67	44	164	201	41	448	112	191	111	49	114	11	910	128	239	973	174	637	189	6445
Total	251733	480912	414494	144853	218809	93553	265000	74650	593052	128235	215892	229932	38092	14993	20827	14047	28835	14573	14658	10698	7177	4508	3279523

Mode : Public

	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	Total
1	23872	16493	7398	10314	17140	8239	17816	6649	4491	3856	8333	3928	2692	2805	3141	3400	16033	3052	14313	16163	4780	2742	197650
2	16244	21591	12793	12644	26106	10977	21538	3386	9223	7178	12426	10314	8307	4540	3656	4265	7106	4783	8021	10394	3119	2265	220876
3	7396	11482	21291	3103	6206	17258	4017	2173	10081	7583	2854	6335	751	2691	3019	2246	1293	3498	4898	8557	3319	2119	132170
4	9338	12198	3554	13676	639	1679	12766	1263	3885	775	2737	1383	2035	44	3019	2246	1570	507	1442	2312	313	318	71634
5	17333	28292	6208	852	17140	3871	1787	2776	3317	271	1431	1865	150	537	86	909	1853	300	5608	5169	1612	546	101713
6	8154	10916	16463	1260	3046	21568	792	1515	2356	271	416	634	198	297	3470	1212	84	3601	520	1116	450	622	81040
7	17604	20633	3764	13301	1888	709	66278	2930	3179	448	7746	1173	7580	262	65	505	1075	438	3087	3041	1715	631	158052
8	6783	3262	1994	1124	2563	1224	2969	8386	268	165	693	471	557	278	4227	230	9198	228	3737	7478	402	432	52443
9	4939	9087	10519	2777	2903	2548	2916	283	12762	12521	2775	12845	56	4283	4227	2201	1236	1987	2745	4174	1624	1301	99929
10	3922	7336	7333	465	358	2338	666	165	12021	12885	890	1330	77	258	788	604	-	806	120	1232	560	206	54980
11	9028	12506	2694	2807	1388	500	7452	608	2810	503	44551	11554	2921	998	694	479	1037	-	2017	2547	1214	451	108759
12	4201	10446	6472	1420	1479	819	955	187	11584	1930	10485	22355	594	11007	827	130	514	185	1641	863	1212	3747	92053
13	2139	5454	399	1861	288	255	7500	626	124	145	2260	532	10657	162	206	-	206	-	189	988	15	125	33935
14	3023	3555	2223	272	485	44	487	88	3936	364	1587	8124	386	2673	695	-	1177	371	115	148	185	110	30049
15	3525	3913	3474	-	130	3470	198	44	4427	788	919	1292	-	840	8089	1538	631	5337	651	595	529	563	41053
16	2545	4495	2528	981	1200	961	445	230	2431	906	619	88	102	-	1638	10784	-	3158	12	42	11203	523	43930
17	17205	7766	1680	1969	1880	247	1136	9962	1598	55	759	611	211	327	455	128	19914	111	18254	9246	75	276	93865
18	3427	4451	3931	447	299	3069	423	281	1072	806	370	200	-	604	5221	3448	399	12539	36	426	2002	4461	47912
19	15241	7574	6553	1487	3736	365	3087	6328	3099	1058	2820	1537	641	261	338	196	8026	383	740	1775	3756	358	69453
20	17423	9721	3545	1432	3864	414	4526	5268	2706	394	1877	802	388	402	147	53	2961	96	1686	682	573	523	27918
21	4078	1423	3253	521	842	869	1046	453	1047	372	723	712	42	117	800	6014	434	904	1865	742	955	706	27918
22	3256	3774	2321	470	1062	539	941	127	1491	594	1138	3891	44	445	81	2939	42	3367	279	1209	409	899	29318
TOTAL	200876	216378	130590	72202	94643	81983	159741	53728	96902	59553	108209	92376	38429	33832	37437	41381	74789	44751	71976	78899	39022	23924	1848021

Mode : Total

	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	Total
1	355225	61902	31776	31751	61652	14458	54254	13119	24438	7652	17502	11451	4485	3011	4106	4328	20218	3423	17152	18232	5569	3137	768851
2	63599	270306	78215	40928	80553	22256	53542	8129	81408	20327	39806	34882	11356	6298	4600	4675	8093	5673	8601	11331	3759	2500	861137
3	31143	76430	308508	8516	31065	54116	8939	4318	84442	18244	11266	20800	1849	3461	5318	2500	2062	3737	7764	9577	4052	2440	695247
4	30947	40524	9586	241961	2947	2529	63608	2701	8559	1398	11581	3315	3765	323	-	-	1847	578	1688	2413	411	418	450899
5	60566	81752	31101	2965	715045	7540	6140	6161	11644	842	4324	2993	337	526	582	909	2285	300	6492	5952	1720	605	951000
6	14254	22930	54572	2038	6780	274348	2006	2368	10329	5214	1193	1802	655	526	5376	1443	234	3869	528	1136	450	785	412836
7	53586	54344	9186	63635	6366	2067	83902	9007	10499	738	25720	3318	13118	403	574	691	2163	515	3460	3306	2018	717	1099333
8	13036	7943	4287	2850	6082	2305	8785	215362	2051	402	1223	721	620	336	200	230	18111	228	5263	8102	445	501	299103
9	25603	81699	80083	8733	11467	10484	10337	1960	452541	51093	27762	59497	1714	6878	6781	2863	1997	1272	3248	5622	2155	1761	855390
10	7773	22126	19308	1431	777	4689	953	432	50923	214936	1766	5807	169	4249	2613	906	205	1287	120	1356	572	250	342646
11	18225	40197	11141	11374	4622	1303	25174	1209	27412	1959	425016	44675	3909	1630	779	602	1357	205	2438	2717	1299	691	627729
12	11693	35950	19840	3623	2928	1469	3462	486	59380	5769	44810	431975	1285	13272	1852	441	1014	468	1875	907	287	4408	647203
13	3497	8130	580	3240	482	694	13339	689	1745	471	3390	1311	294166	196	310	109	1719	14	196	1031	15	184	33398
14	3237	6074	2744	721	607	721	721	163	6552	4712	2394	9908	173970	921	921	-	1184	579	121	175	210	153	215021
15	4862	4962	5271	4	742	5608	655	252	2876	2463	1020	2422	297	1282	207600	1928	631	6361	668	624	628	691	255585
16	3540	5241	2842	-	1211	1296	646	230	2893	906	619	88	102	8	1928	319502	8	3688	59	109	13353	803	359054
18	21184	8809	2615	1981	2426	360	2070	19229	2332	299	1050	1322	1017	340	484	138	517319	312	21105	11717	120	343	616572
19	3825	5432	4113	518	299	3401	500	281	1560	1204	399	451	20	812	345	244	8812	410	763	1894	4353	454	83887
20	17412	9662	8284	1828	4826	402	4205	7123	5354	1268	3433	1757	674	284	345	244	8812	410	763	1894	4353	454	83887
21	19674	10916	3653	1749	4600	621	4821	5605	3042	432	2267	855	397	419	183	83	3360	136	1735	981	640	596	66765
22	4903	1634	3765	1100	1075	916	1130	589	1338	400	821	823	54	134	811	6924	562	1143	2838	916	1592	895	34363
TOTAL	771429	860270	692151	431492	947768	411839	1100341	299591	853957	342105	628389	644874	339562	219128	251648	355115	592717	235178	66634	89876	46199	28432102	48595

APP. 2- 8 1990 OD Table by Trip Purpose

B-ZONE OD TABLE
LAPRE 1990
BY PURPOSE

COMPRESSED DISTRIBUTION FOR PURPOSE 1

DISTRICT	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	TOTAL
1	53953	15187	2500	2004	2031	1413	1370	1520	3128	352	1586	288	89	259	161	674	1110	0	5110	3053	1725	727	98240
2	9081	37306	3619	1833	1851	639	1469	639	5318	614	1282	877	404	529	90	90	559	0	2659	2592	659	569	74756
3	11462	32396	36533	1847	4235	5152	362	1159	13958	1946	3506	528	406	337	345	0	662	89	2831	1171	643	747	128075
4	11362	13394	1983	22541	3002	121	4120	711	1429	107	1347	216	91	275	0	0	142	276	608	264	91	55	50356
5	2250	30710	8132	821	39322	1082	1836	2847	4264	350	1548	2916	81	275	86	61	621	87	2017	1315	220	152	140062
6	21773	24256	3889	16872	2059	2382	89392	601	4875	935	168	290	3279	55	574	183	179	534	252	532	98	54	61074
7	5320	2970	998	16872	2059	2382	89392	601	4875	935	168	290	3279	55	574	183	179	534	252	532	98	54	61074
8	9224	28551	8478	1748	394	1393	1393	907	45356	5877	280	330	63	0	240	0	639	0	1087	2505	50	0	494622
9	3118	11093	5718	1748	394	1393	1393	907	45356	5877	280	330	63	0	240	0	639	0	1087	2505	50	0	494622
10	5533	18156	2693	4310	106	782	502	0	12353	12839	841	1138	86	222	0	208	551	0	96	84	140	114	87506
11	5038	18156	2693	4310	106	782	502	0	12353	12839	841	1138	86	222	0	208	551	0	96	84	140	114	87506
12	7693	18910	1705	1288	105	372	3728	374	14255	1972	98311	51833	253	3607	773	88	901	82	978	200	0	1038	116586
13	1120	3029	1812	1288	243	308	312	244	3756	1198	1531	4653	51898	24936	385	0	478	0	96	653	0	3	88693
14	1789	3143	2703	42	0	3088	231	240	2408	1492	1531	4653	51898	24936	385	0	478	0	96	653	0	3	88693
15	1032	2868	604	42	0	3088	231	240	2408	1492	1531	4653	51898	24936	385	0	478	0	96	653	0	3	88693
16	1032	2868	604	42	0	3088	231	240	2408	1492	1531	4653	51898	24936	385	0	478	0	96	653	0	3	88693
17	1032	2868	604	42	0	3088	231	240	2408	1492	1531	4653	51898	24936	385	0	478	0	96	653	0	3	88693
18	1497	2518	785	1310	902	61	162	4750	1563	83	318	206	0	217	0	43382	83971	72	6880	5904	284	55476	
19	7997	3804	2882	427	2357	737	1810	3432	1002	209	189	535	536	189	838	63	526	39606	423	83	513	24	43917
20	7192	4775	533	533	2040	426	1553	2182	914	138	126	635	536	189	49	103	1668	140	313	191	133	61	3892
21	1700	574	1154	39	342	239	278	186	430	186	203	192	188	136	247	2578	398	376	510	233	368	100	2842
22	1586	1719	964	44	420	87	340	63	738	112	302	1650	0	89	81	737	0	335	68	423	15	51	9846
TOTAL	200579	283593	107389	59267	80971	41095	110043	50697	125087	28286	73527	74323	57943	32391	33988	48743	105686	38228	26769	21637	11187	4838	1616267

B-ZONE OD TABLE
LAPRE 1990
BY PURPOSE

COMPRESSED DISTRIBUTION FOR PURPOSE 2

DISTRICT	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	TOTAL
1	57234	11537	3221	991	2299	139	1086	205	1327	0	0	0	0	0	0	0	287	0	512	245	222	0	79295
2	4314	29996	6439	1524	1328	61	374	0	3254	83	589	606	0	73	0	0	0	0	472	84	182	0	49379
3	5806	18157	61407	2993	1922	1753	955	131	19506	423	1350	354	0	96	0	0	0	0	67	189	42	0	115171
4	5224	10863	2057	55180	233	375	7663	357	10334	73	113	0	152	0	0	0	0	72	97	84	100	0	83567
5	14254	31939	7616	488	59536	122	440	1735	1411	86	0	0	0	0	0	0	0	0	288	0	0	0	11792
6	1955	4445	2267	499	2045	47146	2045	424	2920	218	177	73	368	0	136	0	260	212	36	0	0	0	17353
7	8084	9746	2283	18640	403	213	163654	2672	1738	0	4415	0	0	0	0	0	682	0	240	266	0	0	245783
8	1846	2434	196	196	323	0	188	42067	72	1632	1614	1319	0	0	0	0	0	91	0	64	221	0	98766
9	3063	16994	11680	2682	272	460	0	66	59523	43403	0	81	0	0	0	0	0	0	0	0	0	0	74238
10	886	4399	4896	114	83	0	372	0	13916	2027	8954	2027	397	491	88	0	0	0	0	0	0	0	3811127
11	4141	7086	2037	1779	149	83	311	0	17684	921	12878	67796	38289	32671	29493	0	128	0	0	0	0	0	43898
12	1657	6320	3672	1108	195	0	2219	0	530	1859	112	398	392	23671	0	0	0	0	0	0	0	0	27976
13	322	1133	102	1029	150	0	13	0	1046	1860	69	0	112	55	0	0	0	456	0	83	49	39	35117
14	44	491	1396	68	0	906	0	0	1869	302	0	0	0	0	0	0	0	0	0	0	0	0	98766
15	111	250	1396	68	0	906	0	0	1869	302	0	0	0	0	0	0	0	0	0	0	0	0	98766
16	302	1370	461	0	909	0	0	0	206	0	0	0	0	0	0	0	0	0	1234	0	682	42	43
17	2770	1840	281	244	192	185	0	3105	584	104	0	86	0	0	0	851	84658	0	0	493	0	0	50
18	185	1202	1734	103	212	104	52	208	425	104	102	52	52	52	877	0	916	15	0	0	182	64	29751
19	185	469	313	103	104	104	147	296	80	0	146	0	0	0	0	0	0	0	132	0	0	53	3550
20	345	214	147	0	53	0	147	0	80	0	0	0	0	0	0	0	0	0	0	0	0	0	1500
21	66	66	137	67	0	35	68	0	44	0	36	139	0	0	0	117	0	180	0	0	50	159	0
22	66	66	137	67	0	35	68	0	44	0	36	139	0	0	0	117	0	180	0	0	50	159	0
TOTAL	112766	160648	133256	87687	70411	51629	181029	51373	136831	49361	112731	73016	39442	24438	30590	52593	86927	34544	3058	1762	1740	490	1496232

B-ZONE CD TABLE
LAFRE 1990
BY PURPOSE

COMPRESSED DISTRIBUTION FOR PURPOSE 3

DISTRICT	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	TOTAL
1	161611	13625	25097	26536	53363	11741	49379	9819	17092	6985	13850	10746	3859	2123	3745	3592	17294	3211	9350	9084	2205	1750	456157
2	26739	75211	56607	31586	72834	19620	44046	6811	57821	18149	29454	29955	8861	4770	4452	4332	7240	5181	3422	5824	1290	1381	525602
3	5762	11594	159644	5501	23207	44188	10433	2683	28449	15413	7106	19045	1047	2739	5066	2476	1470	3237	4555	4210	1703	1312	360320
4	2851	2277	5346	117594	1141	1362	45637	591	4813	961	8681	2800	3209	206	0	0	1470	200	826	875	186	248	201104
5	5537	2418	5940	1546	5889	3449	1306	1306	2086	244	1332	912	159	166	496	909	1518	213	3075	2701	632	220	384126
6	1122	777	7903	660	133731	133731	404410	1004	1532	350	274	1166	622	395	4718	1214	666	3024	171	160	103	447	163858
7	2057	803	2373	15465	2545	2089	7283	105887	1236	402	828	1684	6453	55	373	322	15	15	1844	1440	958	462	457369
8	1764	396	1374	1639	8485	8151	8343	605	203754	39733	12810	49275	1242	224	200	230	9113	228	3380	4140	50	158	146215
9	4644	5412	44576	3260	8485	3177	12161	395	10435	1541	205429	36858	2320	3928	6297	2663	1142	988	1761	2435	730	828	413339
10	1428	2285	6588	2953	3177	873	1768	258	7540	1905	5933	208900	1284	6736	694	906	515	646	24	512	269	151	133980
11	424	2074	1772	287	1841	444	5624	163	227	173	368	157	141776	8157	796	345	0	165	0	1340	1681	321	292534
12	563	43	336	382	198	0	342	116	186	98	498	2905	185	82	112	0	43	0	36	160	15	98	150650
13	161	161	284	345	295	626	726	0	189	70	156	58	102	82	10433	1560	300	231	115	136	31	13	889953
14	187	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
15	1928	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
16	0	164	182	333	87	566	1628	88	182	29	25	928	796	110	483	15254	0	1913	34	145	106	13	110671
17	3614	2303	2658	543	1851	104	1359	1258	2333	568	0	168	796	305	3748	1386	24325	1185	8657	3782	6059	243	162472
18	6828	3568	1683	533	1871	39	1656	1117	892	737	520	557	147	50	212	90	1118	102714	156	517	1012	116	179140
19	0	0	0	0	0	0	0	0	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	0	0	0	0	0	0	0	0
21	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
22	476	794	593	682	318	297	364	74	470	260	380	994	58	282	30	1167	72	1067	242	257	276	682	9335
TOTAL	228624	125558	339299	210703	521863	232621	601105	142322	330757	196831	301753	371580	172696	111805	136770	176052	291149	126096	41862	38688	18469	15013	4751624

B-ZONE CD TABLE
LAFRE 1990
BY PURPOSE

COMPRESSED DISTRIBUTION FOR PURPOSE 4

DISTRICT	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	TOTAL
1	69429	11395	4199	1297	3189	413	1426	1143	1818	155	1404	333	156	587	200	62	654	0	1813	3602	1260	449	104984
2	15034	52297	9180	2458	3400	1288	3172	308	10836	942	4121	2021	234	457	15	24	106	397	880	1310	964	413	110956
3	8807	16396	78343	1002	1826	2460	611	410	18391	1262	2719	895	21	63	0	0	317	177	599	2489	2014	354	140576
4	8872	8816	3055	43436	354	284	5601	355	1143	72	1668	154	157	63	0	0	35	15	212	869	92	130	75393
5	15464	14738	8524	117	243546	231	634	234	3510	87	1256	0	0	217	84	0	146	84	709	1214	719	177	291523
6	4632	4177	13132	358	1792	65549	206	1008	2389	413	574	285	33	76	0	0	155	84	105	444	249	165	95810
7	18265	12516	4410	10165	1054	754	169399	750	2578	139	2931	586	2218	207	65	50	650	67	485	596	342	89	27621
8	3214	877	1005	589	260	61	343	38220	62	0	135	4839	0	419	166	0	0	213	347	983	171	358	47618
9	2446	23472	14070	851	1844	294	255	530	13322	2887	8873	0	83	0	0	0	83	83	0	784	784	465	200893
10	5899	4874	5529	165	161	1656	3216	165	11182	50737	8823	881	372	172	0	0	21	0	0	696	113	59	79955
11	3834	6354	3086	1988	601	169	3588	85	6841	83	98855	2561	0	1461	97	8	41	201	347	949	186	135	122855
12	3834	8431	6796	397	470	61	684	59	17885	1014	11343	97739	59603	0	0	0	0	0	186	450	50	619	152196
13	1339	913	613	236	69	0	1335	47	1361	1496	406	4563	59603	0	0	0	0	14	64	105	0	77	64469
14	2602	856	138	51	113	66	138	6	1260	1496	230	510	96	42467	42467	0	0	0	0	0	0	0	0
15	2602	856	138	51	113	66	138	6	1260	1496	230	510	96	42467	42467	0	0	0	0	0	0	0	0
16	1995	583	953	0	302	983	98	0	1539	584	230	510	0	0	0	0	0	0	0	165	165	65	49927
17	4933	1484	173	73	466	55	74	2355	168	187	286	190	0	13	0	10	9856	983	3358	1592	50	184	77236
18	1838	339	668	769	302	1824	734	0	508	474	299	404	20	126	666	433	214	44106	351	6	56	113377	
19	4025	1734	2531	577	563	156	734	1980	1081	238	1180	404	77	76	48	48	1778	43	355	513	1355	202	19063
20	3463	1096	539	577	563	156	1154	1010	837	183	1180	181	12	167	91	30	716	43	200	516	202	12886	
21	1520	274	1270	312	251	177	278	77	963	334	385	280	52	188	133	1678	389	312	430	239	512	229	10176
22	899	546	806	218	102	205	164	11	376	334	385	1259	26	188	45	493	49	1130	263	373	173	125	8570
TOTAL	184586	174439	161237	65059	260781	77147	190340	48684	217931	61427	123284	115236	62070	47239	48285	69435	103885	50344	12319	17670	12496	5897	2115791

B-ZONE CD THERE
 LAURE 1990
 BY PURPOSE

COMPRESSED DISTRIBUTION FOR PURPOSE 5

DISTRICT	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	TOTAL
1	12998	6035	882	923	770	762	1003	332	1073	150	662	84	381	42	0	0	893	212	435	2248	159	291	30335
2	4603	13475	2603	481	494	312	367	184	2823	473	350	894	978	271	40	0	96	95	639	595	130	176	30715
3	2134	1601	5933	159	521	519	587	184	2141	120	415	137	254	97	0	0	235	234	327	2044	184	104	20046
4	2638	1835	284	3210	217	231	587	239	373	188	142	145	156	87	0	0	0	15	0	321	42	64	10509
5	2494	1334	1412	143	9263	246	151	239	373	188	188	85	97	0	0	0	0	0	411	722	49	64	17313
6	812	1188	2167	786	81	4820	151	296	496	168	1000	81	800	0	0	168	0	83	0	0	119	10364	
7	4057	2298	337	2486	342	152	12807	469	596	108	1000	278	800	0	0	136	122	67	14	314	50	180	26415
8	882	329	135	0	124	0	216	335	225	0	78	74	107	28	0	0	469	0	142	443	134	80	6552
9	2870	6081	2504	214	0	696	0	9423	964	78	78	74	107	150	78	0	158	0	83	1476	232	127	26819
10	1172	2632	653	433	200	0	628	0	1062	0	4866	557	557	117	0	0	0	166	0	64	50	40	8213
11	1714	2155	614	65	155	88	172	186	2016	0	450	5947	18	957	108	0	0	0	11	456	134	82	13597
12	740	453	614	299	0	113	392	186	2016	0	383	3744	44	1038	44	0	0	0	0	0	0	214	14266
13	726	364	177	0	75	0	112	0	0	0	13	85	0	68	44	0	0	208	0	103	0	0	6307
14	759	499	189	0	0	456	0	0	519	0	0	0	0	0	1664	0	0	0	0	0	0	0	4130
15	320	320	534	0	0	0	68	0	0	0	0	0	0	0	0	6329	0	0	0	59	92	13	4031
16	1260	28	101	0	71	0	206	279	0	212	0	0	278	195	0	0	2569	0	980	539	30	40	6409
17	185	1036	185	0	0	83	0	245	522	0	97	52	9	0	0	462	185	3352	0	0	141	726	6962
18	1781	699	472	0	512	0	251	245	622	0	236	9	9	53	0	0	201	95	30	0	148	122	5340
19	1842	394	306	106	273	154	314	435	239	40	196	106	0	0	0	0	0	207	128	116	50	209	4629
20	1789	120	472	78	116	154	41	90	42	81	220	196	0	0	61	661	0	207	128	116	50	197	4168
21	749	400	335	143	266	81	215	363	0	0	220	349	9	0	615	0	0	1232	402	402	0	136	5735
TOTAL	45176	46339	20707	8810	13742	9367	17844	6515	23455	6260	11094	10719	7411	3255	2025	8372	5124	5966	3378	10343	2828	2777	271437

B-ZONE CD THERE
 LAURE 1990
 BY PURPOSE

COMPRESSED DISTRIBUTION ** TOTAL **

DISTRICT	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	TOTAL
1	355225	57779	35899	31751	61652	14658	54264	13119	24438	7652	17502	11451	4485	3011	4106	4328	20218	3423	17220	18222	5831	3217	769011
2	58771	269265	30448	37942	78807	21900	49428	7942	80182	20264	36076	34365	10477	4031	4507	4875	8101	5673	8220	10803	3225	2529	781408
3	34971	89046	343680	11502	31711	54472	13053	4505	82668	19204	15096	21419	10478	3723	5411	2500	2154	3737	8198	10103	4692	2517	765198
4	30947	37385	12725	241961	2947	2579	63608	2701	6559	1398	11589	3315	3765	523	522	0	1647	578	1703	2413	401	433	430792
5	60566	81195	11654	2965	715045	7540	6140	6161	11644	842	4324	2953	337	745	582	909	2285	300	5500	5952	1770	613	951016
6	14254	54928	54928	2038	6780	274348	2006	2386	10329	5214	1193	1802	655	526	574	1443	234	3869	528	1136	450	785	412836
7	53586	50239	13291	63635	6366	2067	833802	9007	10459	738	25720	3318	13118	403	200	691	2163	515	3490	3306	2018	747	1089393
8	13056	7756	4474	2850	6082	2305	8785	215362	2051	402	1223	721	620	336	200	230	18111	228	5278	8102	445	516	259113
9	25603	80474	81308	8733	11467	10484	10337	1960	452541	51093	27762	59437	1714	6878	6781	2663	205	1272	3278	5622	2155	1791	855410
10	18225	36493	14845	11374	4622	1303	25174	432	50923	1764	425016	43675	3909	1630	2613	602	1014	1287	120	1356	572	250	342646
11	11693	35331	20459	3623	2928	1469	3462	689	2145936	5769	44810	431975	1285	13272	1852	441	1357	468	1875	2717	1299	691	627729
12	3497	7494	1216	692	492	694	13339	689	1745	241	3090	1311	294166	1996	310	109	719	14	1875	907	287	408	647204
13	3237	5132	2836	62	607	274	721	163	59380	412	2394	9908	480	173970	921	109	1184	14	1031	175	15	184	333988
14	4862	4869	5364	42	742	5808	655	252	6592	241	1020	2422	297	480	207600	0	631	6361	121	175	210	153	215021
15	3540	5241	2842	0	1211	1296	646	230	2893	619	619	88	102	340	1928	1928	8	3688	676	624	628	699	255601
16	21184	8909	2615	1981	2426	360	2070	19229	2332	299	1050	1322	1017	340	484	138	517319	312	21119	11717	192	429	616744
17	3825	5009	8959	1845	4926	402	500	281	1204	399	399	461	20	812	6129	3659	642	410	964	432	2109	5128	238266
18	17563	5009	8959	1845	4926	402	500	281	1204	399	399	461	20	812	6129	3659	642	410	964	432	2109	5128	238266
19	15674	10039	4530	1749	4600	621	4821	5605	3042	432	2267	855	397	419	811	624	562	1143	1819	981	679	641	66933
20	4903	1210	4189	1100	1075	926	1130	3821	1396	400	821	855	54	134	811	624	562	1143	2838	924	1818	956	34720
21	3776	3925	2935	554	1106	713	1152	168	1991	706	1329	4591	93	559	156	3130	121	3944	585	1457	464	994	34449
TOTAL	771731	790577	761888	431526	947768	411859	1100361	299591	854061	342105	628389	644874	339562	219128	251648	355115	592771	255178	87386	90098	46720	29015	10251351