

HE
147.6
.M5
RH3-9

Statewide Transportation Analysis & Research

MICHIGAN'S STATEWIDE
TRANSPORTATION MODELING SYSTEM
REFERENCE HANDBOOK NO. 3
MINOR ORIGIN & DESTINATION
TRAVEL CHARACTERISTICS
REGION 9
STATEWIDE PROCEDURES SECTION
SEPTEMBER, 1978



MICHIGAN DEPARTMENT OF STATE HIGHWAYS AND TRANSPORTATION

MICHIGAN DEPARTMENT OF STATE HIGHWAYS AND TRANSPORTATION

BUREAU OF TRANSPORTATION PLANNING

**MICHIGAN'S STATEWIDE
TRANSPORTATION MODELING SYSTEM**

REFERENCE HANDBOOK NO. 3

**MINOR ORIGIN & DESTINATION
TRAVEL CHARACTERISTICS
REGION 9**

STATEWIDE PROCEDURES SECTION

SEPTEMBER, 1978

STATE HIGHWAY COMMISSION

PETER B. FLETCHER

Chairman

CARL V. PELLONPAA

Vice Chairman

HANNES MEYERS, JR.

WESTON E. VIVIAN

DIRECTOR

John P. Woodford

TABLE OF CONTENTS

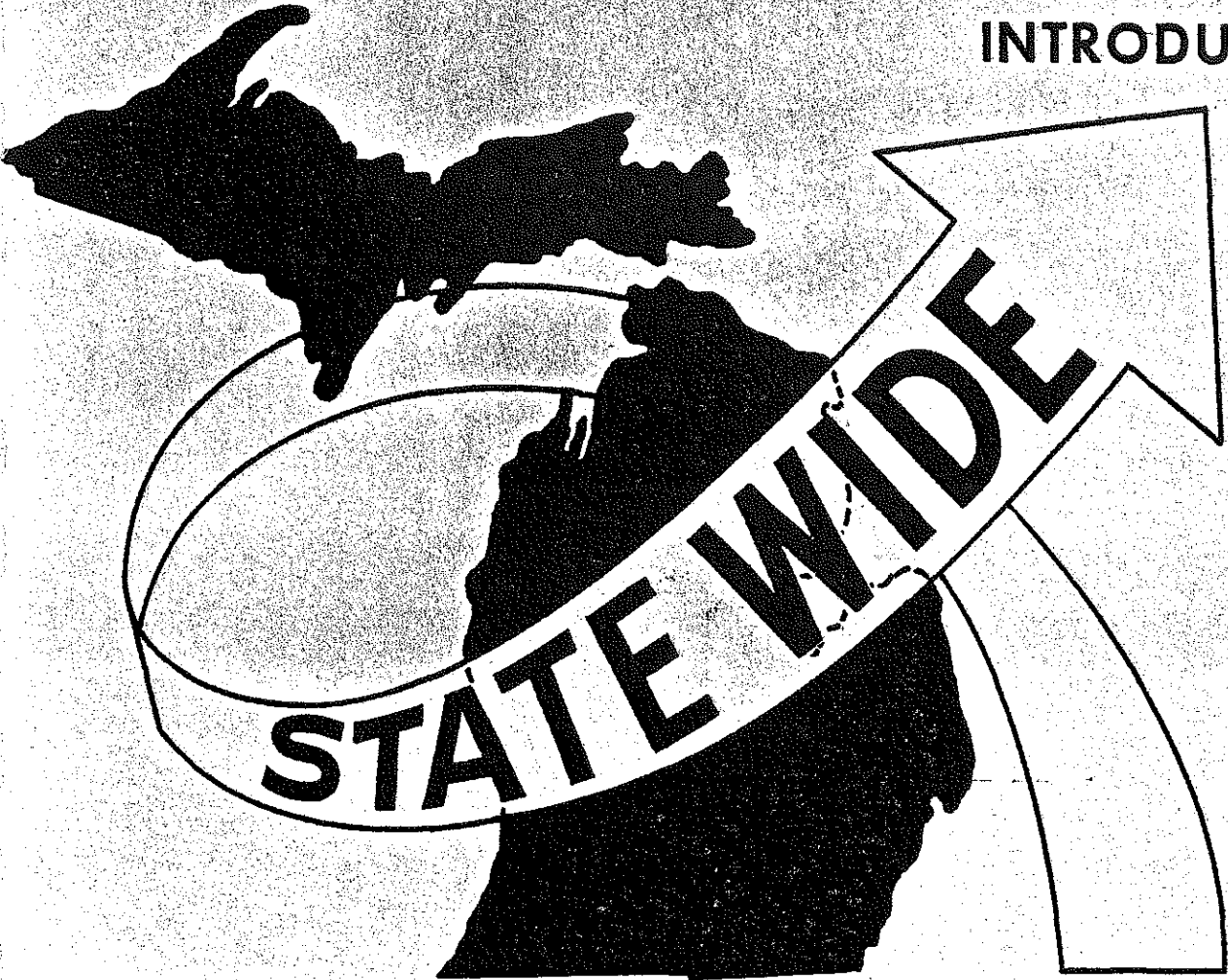
MINOR ORIGIN AND DESTINATION

TRAVEL CHARACTERISTICS

BY: DAVID R SCHADE

INTRODUCTION.	1
SPECIAL INFORMATION	8
STATEWIDE TRIP CHARACTERISTICS.17
REGIONAL TRIP CHARACTERISTICS34
CITY TRIP CHARACTERISTICS44
APPENDIX "A" - EQUIVALENCE LIST88

INTRODUCTION



INTRODUCTION

The Statewide Procedures Section, Bureau of Transportation Planning, Department of State Highways and Transportation, has prepared a travel characteristics handbook in order to fully utilize information collected in minor origin and destination studies. The conversion of minor O&D studies to a single format made this handbook possible and is intended to supply the user with travel characteristics about a specific minor O&D study or a group of studies by region. The geographical locations of the minor O&D studies appear in Figure 1.

This handbook was organized at the regional level, with an individual book for each of the 14 planning regions. This format will allow the user to compare one region to another. There were no minor O&D studies taken in Regions 6 and 14; thus, no handbook is presently available for these regions. Each handbook contains the following sections:

1. Statewide Travel Characteristics Summaries
2. Regional Travel Characteristics Summaries
3. City Travel Characteristics Summaries in Alphabetical Order

The O&D data collection process is based upon the 547-zone system with Michigan consisting of 508 zones (Figure 2) and the remaining zones representing out-of-state locations (Figure 3). Each zone number corresponds to a specific city or area. Appendix A is a list of the zone number and its corresponding area. Basing the O&D data collection process around a single zone system allows the Department to fully utilize many of the analysis routines that were developed in conjunction with the statewide transportation modeling system. A list documenting other utilizations of the statewide modeling system follows on the next pages.

STATEWIDE SYSTEM DEVELOPMENT REPORTS

VOLUME I	- OBJECTIVES AND WORK PROGRAM
VOLUME I-A	- REGION 4 WORKSHOP TOPIC SUMMARIES
VOLUME I-B	- SINGLE AND MULTIPLE CORRIDOR ANALYSIS
VOLUME I-D	- PROXIMITY ANALYSIS
VOLUME I-E	- MODEL APPLICATION: COST-BENEFIT ANALYSIS
VOLUME I-F	- AIR AND NOISE POLLUTION
VOLUME I-G	- PSYCHOLOGICAL IMPACT MODEL
VOLUME I-H	- LEVEL OF SERVICE MODEL
VOLUME I-I	- STATEWIDE SOCIO-ECONOMIC AND TRANSPORTATION RESOURCES
VOLUME I-J	- SERVICE AREA MODEL
VOLUME I-K	- EFFECTIVE SPEED MODEL
VOLUME I-L	- SYSTEM IMPACT ANALYSIS GRAPHIC DISPLAY
VOLUME I-M	- MODELING GASOLINE CONSUMPTION
VOLUME I-O	- ACCIDENT RATES 547 ZONE SYSTEM
VOLUME I-P	- POPULATION PROJECTIONS 547 ZONE SYSTEM
VOLUME II	- DEVELOPMENT OF NETWORK MODELS
VOLUME II-A	- EFFICIENT NETWORK UPDATING WITH INTERACTIVE GRAPHICS
VOLUME II-B	- TREE PLOTTING WITH INTERACTIVE GRAPHICS
VOLUME II-C	- CALIBRATION OF MICHIGAN'S STATEWIDE TRAFFIC FORECASTING MODEL
VOLUME III	- SEGMENTAL MODEL
VOLUME III-A	- SEMI-AUTOMATIC NETWORK GENERATOR USING A "DIGITIZER"
VOLUME III-B	- AUTOMATIC NETWORK GENERATOR USING INTERACTIVE GRAPHICS
VOLUME IV	- AASHTO REPORT
VOLUME IV-A	- MICHIGAN'S STATEWIDE MODELING SYSTEM - SYNOPSIS
VOLUME V	- PART A - REFORMATION - TRIP DATA BANK PREPARATION
VOLUME V	- PART B - DEVELOPMENT OF SOCIO-ECONOMIC DATA BANK FOR TRIP GENERATION - DISTRIBUTION
VOLUME V-A	- SINGLE STATION O&D PROCEDURES MANUAL
VOLUME V-B	- EXTERNAL O&D PROCEDURES MANUAL
VOLUME VI	- CORRIDOR LOCATION DYNAMICS
VOLUME VI-A	- ENVIRONMENTAL SENSITIVITY COMPUTER MAPPING
VOLUME VII	- DESIGN HOUR VOLUME MODEL
VOLUME VII-A	- CAPACITY ADEQUACY FORECASTING MODEL
VOLUME VII-B	- MODELING MAJOR FACILITY OPENING IMPACT ON DHV
VOLUME VIII	- PUBLIC AND PRIVATE FACILITY FILE
VOLUME VIII-A	- CONVERSION OF INDUSTRIAL EXPANSION FILE
VOLUME IX	- SOCIO-ECONOMIC DATA FILE
VOLUME IX-A	- MAPPING SOCIO-ECONOMIC DATA WITH SYMAP
VOLUME IX-B	- CONVERSION OF THE AGRICULTURAL CENSUS FILE
VOLUME IX-C	- TAX RATE AND ASSESSED VALUATION INFORMATION
VOLUME IX-D	- SCHOOL DISTRICT DATA FILE
VOLUME X-A	- TRAVEL IMPACT ANALYSIS PROCEDURES
VOLUME X-A-1	- AUTOMATED DESIRELINE PLOTTING
VOLUME X-A-2	- TRAFFIC FORECASTING FOR A SPECIAL GENERATOR
VOLUME X-B	- SOCIAL IMPACT ANALYSIS PROCEDURES
VOLUME X-C	- ECONOMIC IMPACT ANALYSIS PROCEDURES
VOLUME XI	- COMPUTER RUN TIMES
VOLUME XIII	- MICHIGAN GOES MULTI-MODAL

VOLUME XIII-A - MULTI-MODAL MOBILITY AND ACCESSIBILITY ANALYSIS
 VOLUME XIII-B - 1972 STATEWIDE RAIL NETWORK - SUMMARY TABULATIONS
 VOLUME XIII-C - MICHIGAN'S RAIL CROSSING INVENTORY AND ANALYSIS PROCESS
 VOLUME XIII-D - IMPACT OF POPULATION AND ENERGY ON TRANSPORTATION
 NEEDS - A MULTI-MODAL APPROACH
 VOLUME XIV-A - COMMODITY FLOW MATRIX - ANN ARBOR RAILROAD
 VOLUME XIV-B - COMMODITY FLOW MATRIX - PENN CENTRAL RAILROAD
 VOLUME XIV-C - COMMODITY FLOW MATRIX - MICHIGAN RAILROADS 1% SAMPLE
 VOLUME XV-A - RAILROAD FINANCIAL IMPACT ANALYSIS
 VOLUME XV-B - RAILROAD COMMUNITY IMPACT ANALYSIS
 VOLUME XVI - DIAL-A-RIDE
 VOLUME XVII - INTERMODAL IMPACT ANALYSIS - TRUCK AND RAILROAD
 VOLUME XVIII - OUTLINE ANALYSIS PROGRAM

STATEWIDE SYSTEM APPLICATION REPORTS

- REPORT 1 - COMMUNITY COLLEGE SERVICE - AREA ANALYSIS
- REPORT 2 - PROXIMITY OF PEOPLE TO GENERAL PURPOSE HOSPITALS
- REPORT 3 - INDUSTRIAL PARK PROXIMITY ANALYSIS
- REPORT 4 - PROXIMITY OF AUTOMOBILE INJURY ACCIDENTS TO HOSPITALS
- REPORT 5 - PROXIMITY OF AIRPORTS WITH SCHEDULED SERVICE TO POPULATION
- REPORT 6 - REGIONAL PARK PROXIMITY ANALYSIS
- REPORT 7 - RIFLE RANGE PROXIMITY ANALYSIS
- REPORT 8 - AMBULANCE SERVICE - AREA ANALYSIS
- REPORT 9 - COMPREHENSIVE STATEWIDE PLANNING
- REPORT 10 - GRAPHIC DISPLAY OF FIXED-OBJECT ACCIDENT DATA
- REPORT 11 - PRELIMINARY INVESTIGATION: A TECHNIQUE FOR THE PROJECTION OF ACCIDENT RATES
- REPORT 12 - IMPACT OF 50, 55, OR 60 M.P.H. STATEWIDE SPEED LIMIT
- REPORT 13 - A METHOD FOR FUNCTIONALLY CLASSIFYING RURAL ARTERIAL HIGHWAYS
- REPORT 14 - ECONOMIC AND TRAVEL IMPACTS OF SPEED LIMIT REDUCTION USING A STATEWIDE TRANSPORTATION MODELING SYSTEM
- REPORT 15 - I-69 IMPACT ON THE ACCESSIBILITY OF HEALTH, FIRE, AND AMBULANCE SERVICES TO RESIDENTIAL AREAS
- REPORT 16 - CRISIS OR OPPORTUNITY: APPLICATION OF AN OPERATIONAL STATEWIDE TRANSPORTATION MODELING SYSTEM
- REPORT 17 - US-23 CORRIDOR LOCATION STUDY - PRELIMINARY TRAVEL IMPACT ANALYSIS
- REPORT 19 - GRAPHIC DISPLAY OF ACCIDENT DATA
- REPORT 20 - DEMOGRAPHIC INFORMATION FOR THE NORTHWEST REGION
- REPORT 21 - AMTRAK MARKET AREA ANALYSIS - SYSTEM APPLICATION

STATEWIDE SYSTEM REFERENCE HANDBOOKS

- REFERENCE HANDBOOK #1 - STATEWIDE BUS TICKET SURVEY TRAVEL CHARACTERISTICS
- REFERENCE HANDBOOK #2 - MICHIGAN'S PERMANENT TRAFFIC RECORDER TRENDS - POTENTIAL APPLICATION IN TRANSPORTATION PLANNING - ENERGY ANALYSIS
- REFERENCE HANDBOOK #3 - MINOR ORIGIN & DESTINATION TRAVEL CHARACTERISTICS - PART A

FIGURE 1

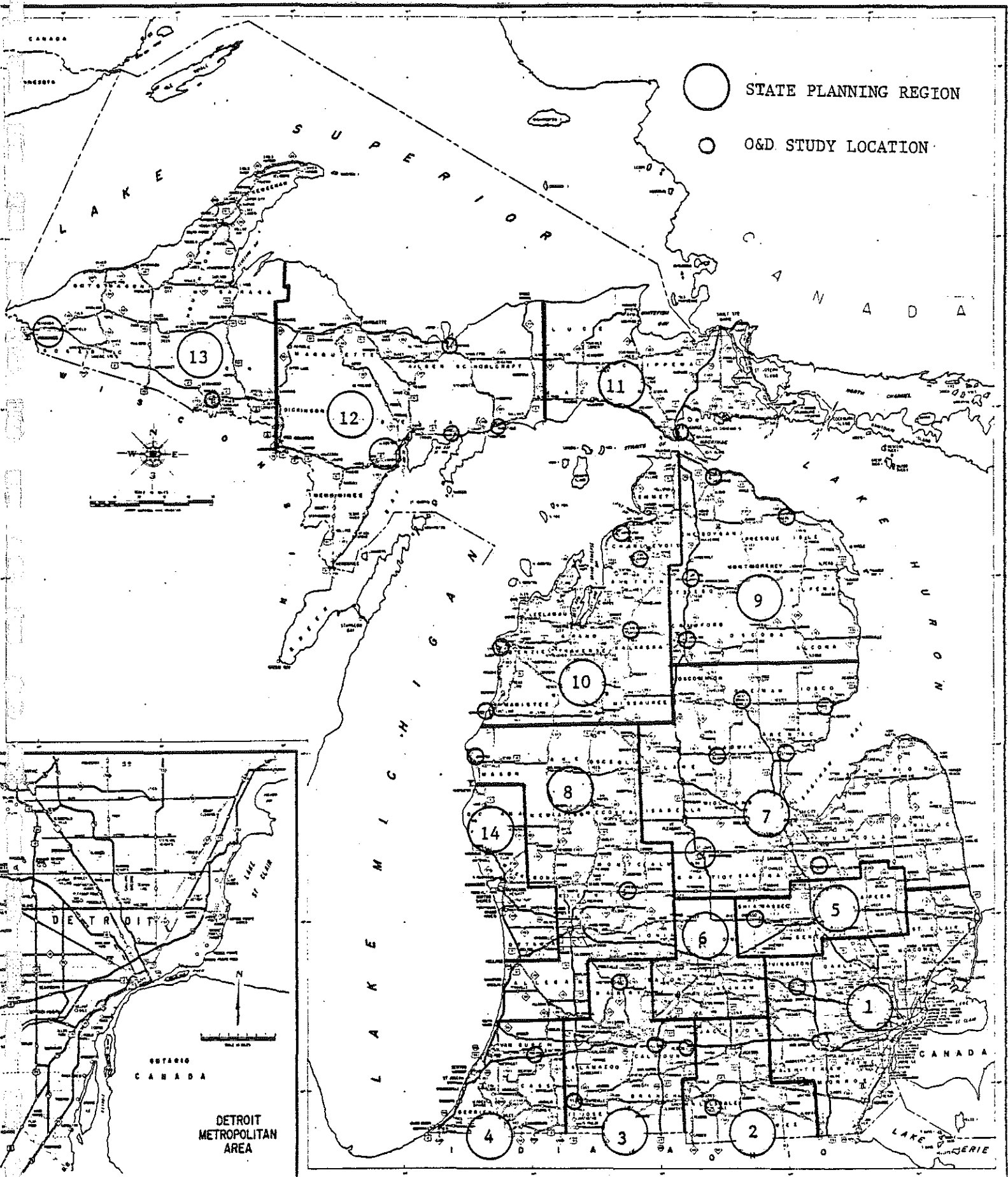
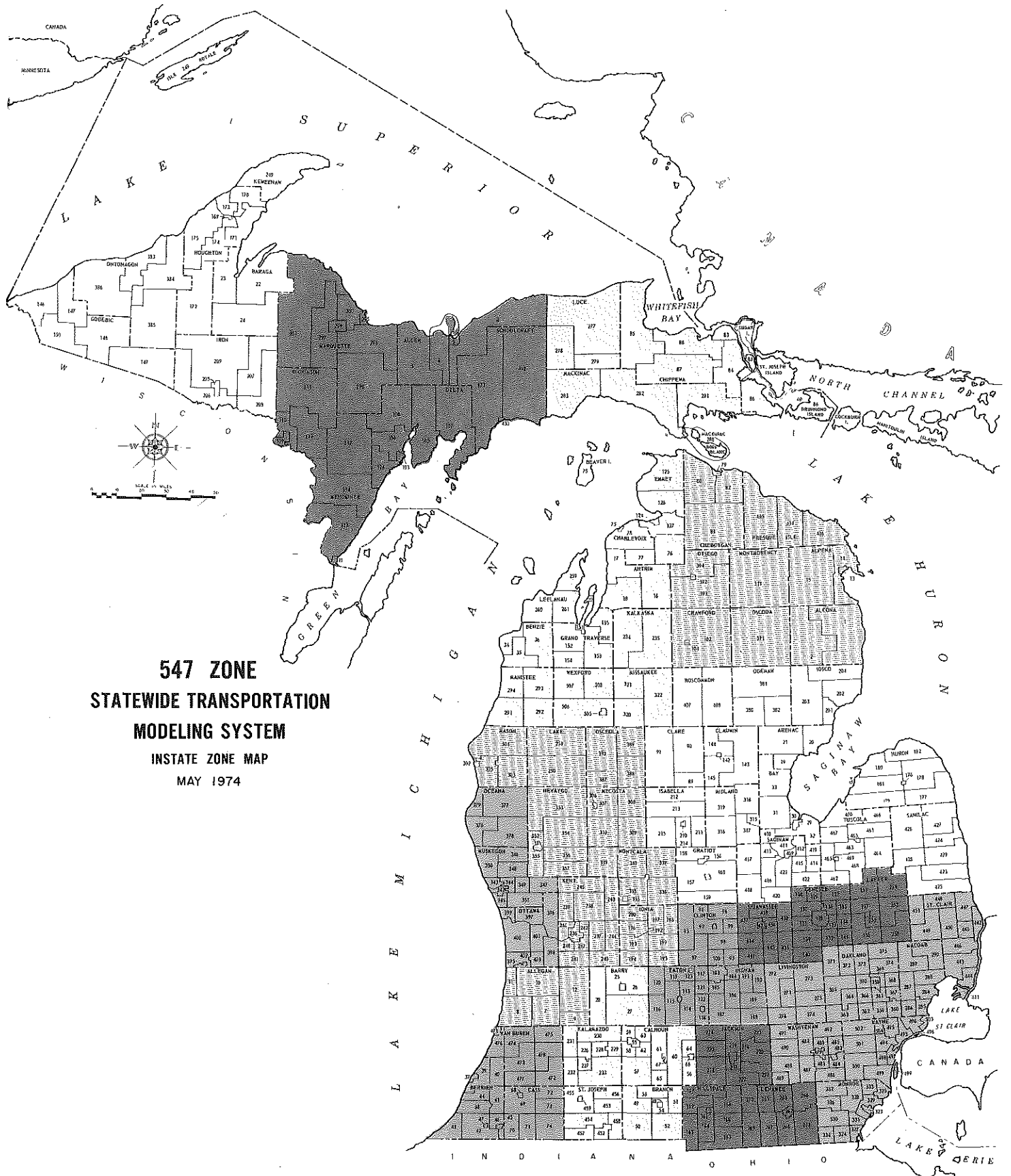


FIGURE 2



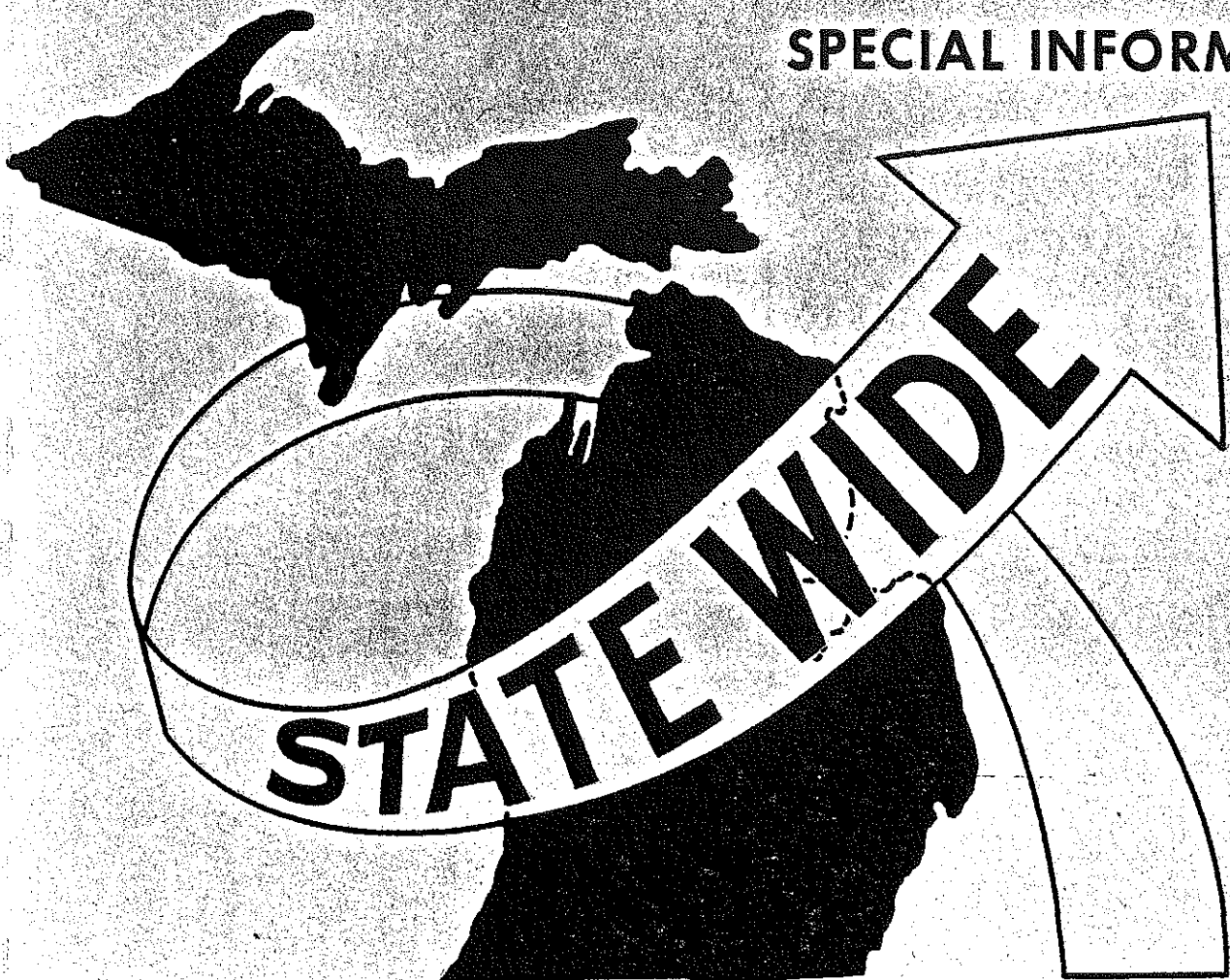
**547 ZONE
STATEWIDE TRANSPORTATION
MODELING SYSTEM
INSTATE ZONE MAP
MAY 1974**

MICHIGAN'S TRANSPORTATION MODELING SYSTEM

547 ZONE
OUTSTATE ANALYSIS ZONES



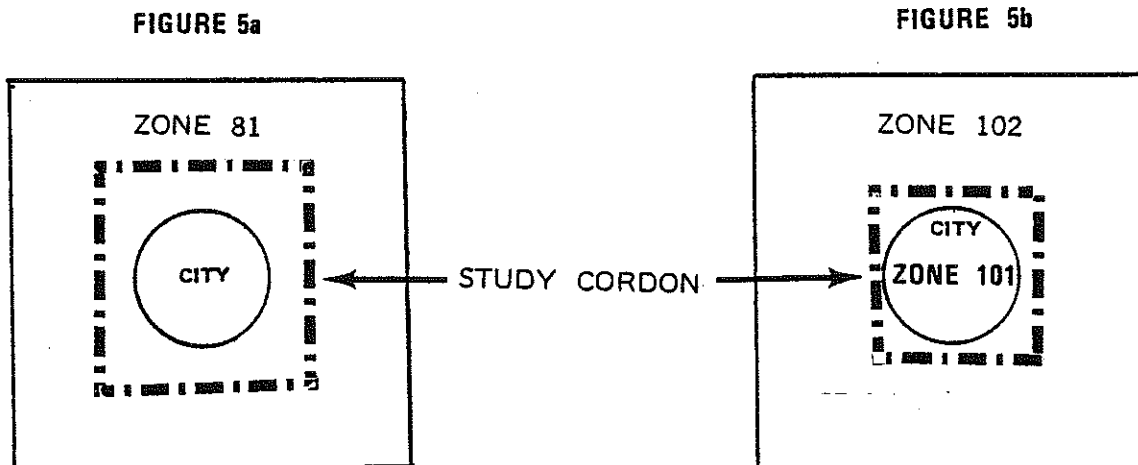
SPECIAL INFORMATION



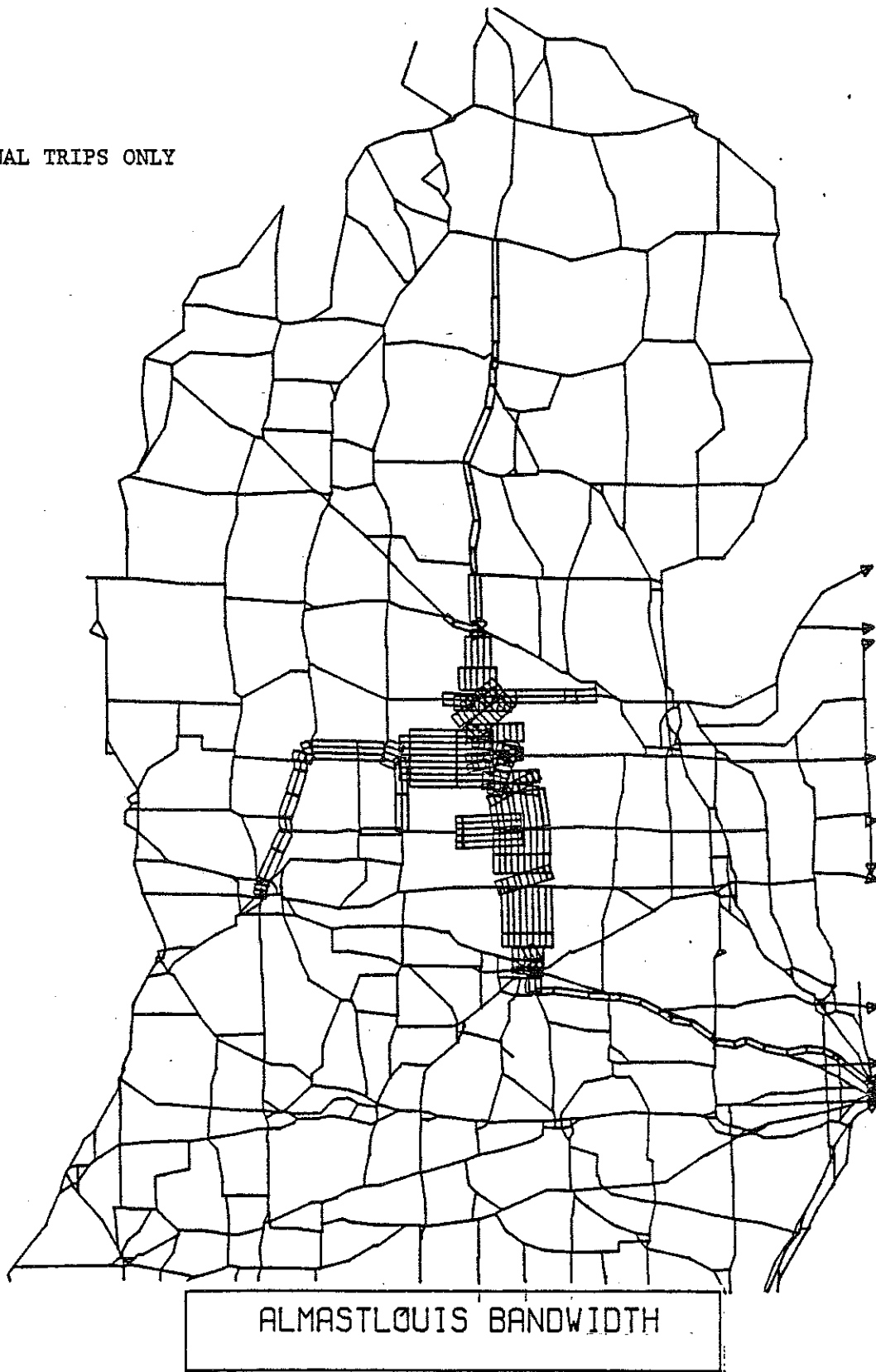
SPECIAL INFORMATION

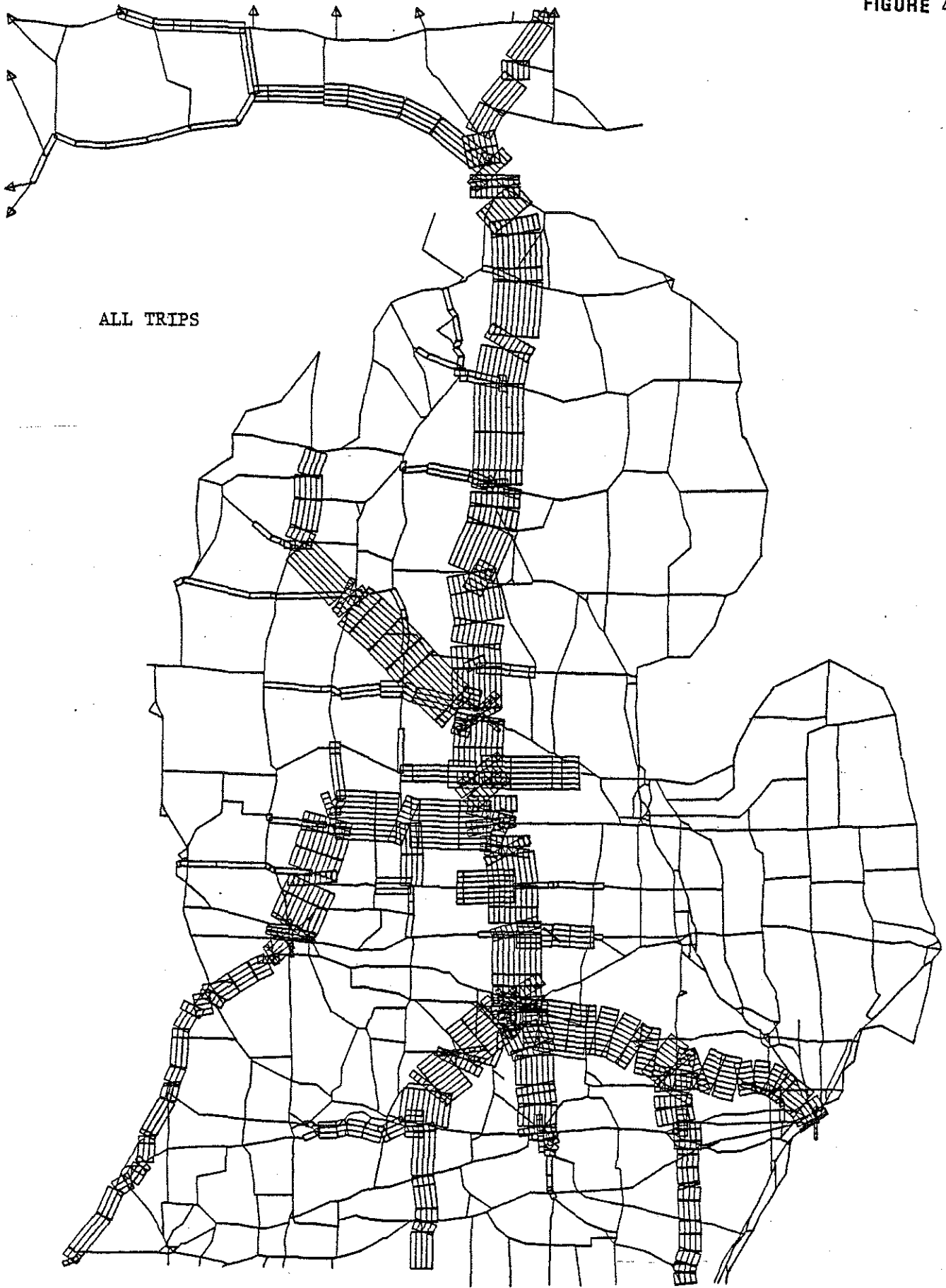
To properly evaluate the following handbook information, it is important to understand how the data is used. Each handbook has been set up to analyze the travel characteristics of minor O&D studies. It was necessary to use only terminal trips to analyze the travel impacts generated as a result of a specific city. These are trips that have an origin and/or destination in that city or study area. Any trips that were not terminal in relation to the study area were not used. Nonterminal trips are classified as "thru trips", those which pass through a given city or study area. Figures 4a and 4b show the effect thru trips would have on a city's true travel characteristics. It is obvious that including thru trips could greatly distort the travel pattern and the actual impacts a specific city has on its region.

There are some instances where the O&D city is not a statewide model zone in itself, such as in Figure 5a. Generally, this does not present a problem, but the reader should be made aware of it. The trips that go into the study city will be shown as going to the zone that surrounds the city. The ideal situation arises when the study cordon is set up as close to the city boundary as possible and the city represents its own zone, such as in Figure 5b.



TERMINAL TRIPS ONLY





ALL TRIPS

ALMASTLOUIS BANDWIDTH

The travel analysis in this handbook is based on three main computer routines. These routines deal with three types of transportation analysis:

1. General Purpose Summary Program Tables
2. Trip Length Distribution Graphs
3. Selected Link Plots

The following is a brief explanation of the three areas:

General Purpose Summary Program (GPSP)

Terminal trips were summarized by vehicle type, trip purpose, number of occupants, and by where the vehicle is garaged (Figure 6). For example, in Figure 6, 34.8% of all trips to and from Cheboygan are work trips (4095 trips).

In addition to the straight percentage breakdowns and actual trips, cross tabulations of trip purpose versus vehicle occupancy and trip purpose versus vehicle type were supplied. Figure 7 shows that 75.1% of all work trips to and from Cheboygan have one person in the vehicle (3075 trips). These summaries like the previous data appear at the statewide, regional, and city levels.

Trip Length Distribution (TLD)

A trip length frequency distribution (TLD) is a graph that summarizes the distribution of the length of trips in minutes for each study. In each handbook, TLD's are available at three levels:

1. Statewide
2. Regional
3. City

CHEBOYGAN

EXTERNAL ORIGIN-DESTINATION INTERVIEW

TERMINAL-TRIP SUMMARY TABLE

VEHICLE TYPE

CAR W/O TPLR	CAR W/ TRLR	PICK-UP W/O/TRLR	PICK-UP W/ TRLR	SINGLE-UNIT TRUCKS	COMBINATION TRUCKS
80.9%	1.0%	13.9%	0.4%	2.6%	1.3%
9533	113	1632	52	303	150

TRIP PURPOSE

WORK PERCENT OF TRIPS	PERS BIZ	SHOP	VACATION	SOC-REC	OTHER
34.8%	7.2%	30.5%	3.8%	17.2%	6.6%
4095	848	3595	446	2021	779

NUMBER OF TRIPS

NUMBER IN VEHICLE

1	2	3	4	5	6+
46.5%	27.7%	11.4%	7.5%	3.7%	3.2%
5479	3260	1342	883	440	379

VEHICLE GARAGED AT

ORIGIN	DESTIN	OTHER
40.4%	27.5%	32.1%
4762	3244	3777

TOTAL TRIPS = 11783

MINOR

EXTERNAL ORIGIN-DESTINATION INTERVIEW
 TERMINAL-TRIP SUMMARY TABLE FOR CHEBOYGAN

TRIP PURPOSE

# IN VEH.	WORK	PERS BIZ	SHOP	VACATION	SOC-REC	OTHER
	PERCENT OF TOTAL WORK TRIPS					
1	75.1% ←	43.3%	30.4%	8.6%	29.9%	39.0%
	3075 ←	367	1091	38	604	304
	NUMBER OF TRIPS					
2	16.8%	35.0%	33.1%	40.4%	31.9%	32.2%
	688	306	1191	180	644	251
3	4.7%	11.4%	15.9%	14.5%	14.7%	15.7%
	192	96	570	65	296	123
4	2.4%	4.9%	11.2%	15.3%	10.5%	7.7%
	99	41	402	68	212	60
5	0.5%	2.7%	5.7%	12.0%	5.6%	3.4%
	19	23	205	54	113	27
6+	0.5%	1.7%	3.8%	9.1%	7.5%	1.9%
	22	15	135	41	151	15
TOTAL	100% 4095	100% 848	100% 3595	100% 446	100% 2021	100% 779

TOTAL TERMINAL-TRIPS FOR CHEBOYGAN = 11783

The left hand column of the chart (Figure 8) is the trip length in 10-minute increments. If a trip is less than 10 minutes, it was recorded as a 10-minute trip. All trips over the maximum time allowed by the program were recorded in the last time span.

The top row of the chart is the percent of total travel for that TLD. Figure 8 indicates that 40.460% of all work trips to and from Cheboygan are between 30-40 minutes. Each graph is for a specific trip purpose with the last chart showing all purposes combined.

At the bottom left of the TLD, the "volume table number" designates the trip purpose:

- 201 = work trips
- 202 = business trips
- 203 = shopping trips
- 204 = vacation trips
- 205 = other social or recreational trips
- 206 = all other trips
- 207 = total trips

Selected Link Plots

Selected link plots are available at the city level only. These plots are a diagram of the distribution of travel that has an origin or destination in the city and the probable routes on the state trunkline system this traffic used.

The magnitude of the travel on each highway link is shown by the bandwidths with each band's value representing 100 trips. The value assigned to the bands

6FE873 TRIP LENGTH FREQUENCY DISTRIBUTION-CHEBOYGAN PAGE

MINUTES	FREQUENCY	P.C.	CUM.
0			
3			
6			
9			
12			
15			
18			
21			
24			
27			
30			
33			
36			
39			
42			
45			
48			
51			
54			
57			
60			
10.		0.024	0.0
20.		33.121	33.1
30.		7.000	33.1
40.		40.440	73.5
50.		8.148	81.7
60.		9.418	91.1
70.		2.128	93.2
80.		0.954	94.2
90.		1.272	95.5
100.		0.294	95.8
110.		1.125	96.9
120.		0.049	96.9
130.		0.000	96.9
140.		0.195	97.1
150.		0.259	97.3
160.		0.147	97.5
170.		0.098	97.6
180.		0.122	97.7
190.		0.465	98.2
200.		0.122	98.3
210.		0.098	98.4
220.		0.171	98.6
230.		0.024	98.7
240.		0.122	98.8
250.		0.313	99.1
260.		0.095	99.2
270.		0.000	99.2
280.		0.171	99.4
290.		0.098	99.5
300.		0.049	99.5
310.		0.122	99.6
320.		0.000	99.6
330.		0.000	99.6
340.		0.024	99.7
350.		0.000	99.7
360.		0.000	99.7
370.		0.000	99.7
380.		0.024	99.7
390.		0.000	99.7
400.		0.000	99.7
410.		0.000	99.7
420.		0.000	99.7
430.		0.000	99.7
440.		0.000	99.7
450.		0.000	99.7
460.		0.000	99.7
470.		0.171	99.9
480.		0.000	99.9
490.		0.000	99.9
500.		0.000	99.9
510.		0.000	99.9
520.		0.000	99.9
530.		0.000	99.9
540.		0.000	99.9
550.		0.000	99.9
560.		0.000	99.9
570.		0.000	99.9
580.		0.073	99.9
590.		0.000	99.9
600.		0.024	100.0

REMAINING VALUES ARE ALL ZERO
 NUMBER OF OBSERVATIONS= 4088 SUM= 159647 MEAN= 39.053 VAR= 1534.962 SD=42.8

TOTAL TRIPS OVER MAXP = 0
 TOTAL TRIPS OVER 255 = 0
 VOLUME TABLE NUMBER = 201 ← WORK TRIPS
 SKIM TREE NUMBER = 101

is the same for all cities. Using the same value accomplishes two purposes:

1. simplifies the reading of the plots
2. shows the importance of one city relative to another

These plots, using the constant bandwidth values, can be used to identify the service area of a city and the function one city plays relative to another.

STATEWIDE TRIP CHARACTERISTICS



MINOR

EXTERNAL ORIGIN-DESTINATION INTERVIEW

TERMINAL-TRIP SUMMARY TABLE

VEHICLE TYPE

REGION	CAR W/O TRLR	CAR W/ TRLR	PICK-UP W/O/TRLR	PICK-UP W/ TRLR	SINGLE-UNIT TRUCKS	COMBINATION TRUCKS
1	81.1% 26968	0.4% 119	14.6% 4859	0.2% 64	2.8% 924	1.0% 324
2	78.3% 16424	0.2% 50	16.3% 3425	0.2% 49	3.3% 686	1.6% 343
3	79.6% 57205	0.3% 203	14.5% 10427	0.2% 145	3.7% 2669	1.8% 1261
4	80.6% 13958	0.3% 50	15.2% 2627	0.2% 41	2.8% 479	1.0% 172
5	77.6% 22200	0.4% 100	15.3% 4390	0.2% 54	4.2% 1192	2.4% 675
6	0.0% 0	0.0% 0	0.0% 0	0.0% 0	0.0% 0	0.0% 0
7	78.1% 59871	0.8% 646	14.9% 11455	0.4% 282	3.8% 2936	2.0% 1508
8	79.8% 50406	0.7% 463	14.2% 8987	0.4% 222	3.4% 2139	1.5% 959
9	78.4% 43329	2.0% 1096	12.9% 7134	0.4% 232	4.8% 2625	1.5% 845
10	79.8% 40959	0.8% 416	14.0% 7210	0.3% 142	3.6% 1841	1.5% 762
11	78.8% 9864	3.3% 416	12.7% 1592	0.5% 69	4.1% 508	0.6% 73
12	76.8% 21307	1.5% 409	15.5% 4303	0.5% 133	3.5% 961	2.2% 614
13	76.1% 19369	1.1% 278	17.3% 4399	0.4% 114	3.8% 960	1.4% 348
14	0.0% 0	0.0% 0	0.0% 0	0.0% 0	0.0% 0	0.0% 0
TATE	78.9% 381860	0.9% 4247	14.6% 70806	0.3% 1546	3.7% 17922	1.6% 7884

TABLE SHOWS PCT OF EXPANDED ORIGIN-DESTINATION INTERVIEWS FOR EACH CATEGORY IN THE REGION. ACTUAL TRIPS BELOW EACH PCT DOES NOT REPRESENT ALL TRAVEL IN THE REGION--ONLY THAT INTERVIEWED.

MINOR

EXTERNAL ORIGIN-DESTINATION INTERVIEW

TERMINAL-TRIP SUMMARY TABLE

TRIP PURPOSE

REGION	WORK	PERS BIZ	SHOP	VACATION	SOC-REC	OTHER
1	40.7% 13537	10.7% 3573	19.1% 6350	0.7% 229	16.6% 5512	12.2% 4056
2	48.1% 10082	7.1% 1486	19.8% 4147	0.1% 22	12.1% 2540	12.9% 2702
3	46.7% 33564	7.2% 5146	18.2% 13123	0.8% 607	15.4% 11098	11.6% 8372
4	34.8% 6026	9.5% 1653	23.5% 4077	2.4% 416	16.7% 2886	13.1% 2268
5	51.9% 14847	9.3% 2662	14.5% 4160	0.2% 71	12.9% 3693	11.1% 3179
6	0.0% 0	0.0% 0	0.0% 0	0.0% 0	0.0% 0	0.0% 0
7	38.8% 29779	9.9% 7609	20.7% 15856	3.5% 2723	16.2% 12429	10.8% 8302
8	39.4% 24916	8.0% 5070	22.4% 14124	2.7% 1690	17.1% 10810	10.4% 6565
9	33.4% 18432	7.0% 3852	27.9% 15443	7.4% 4108	15.9% 8782	8.4% 4645
10	35.5% 18224	8.1% 4140	19.9% 10189	6.6% 3371	19.8% 10168	10.2% 5237
11	19.0% 2380	4.3% 536	12.3% 1536	36.1% 4516	18.8% 2354	9.6% 1200
12	32.7% 9072	8.0% 2208	22.5% 6240	7.0% 1934	21.4% 5942	8.4% 2331
13	29.5% 7520	6.9% 1762	23.7% 6047	6.9% 1754	21.4% 5452	11.5% 2933
14	0.0% 0	0.0% 0	0.0% 0	0.0% 0	0.0% 0	0.0% 0
TATE	38.9% 188380	8.2% 39698	20.9% 101291	4.4% 21441	16.9% 81666	10.7% 51789

TABLE SHOWS PCT OF EXPANDED ORIGIN-DESTINATION INTERVIEWS FOR EACH CATEGORY IN THE REGION. ACTUAL TRIPS BELOW EACH PCT DOES NOT REPRESENT ALL TRAVEL IN THE REGION--ONLY THAT INTERVIEWED.

MINOR

EXTERNAL ORIGIN-DESTINATION INTERVIEW

TERMINAL-TRIP SUMMARY TABLE

NUMBER IN VEHICLE

REGION	1	2	3	4	5	6+
1	60.5% 20136	23.2% 7713	8.9% 2968	4.3% 1424	1.7% 575	1.3% 440
2	64.1% 13437	24.0% 5044	7.6% 1596	2.8% 589	0.9% 183	0.6% 129
3	62.6% 45020	23.7% 17048	7.6% 5476	3.6% 2562	1.5% 1100	1.0% 703
4	56.8% 9848	25.4% 4399	9.5% 1638	5.3% 911	1.9% 337	1.1% 194
5	65.9% 18855	22.4% 6399	6.9% 1982	3.1% 882	1.0% 290	0.7% 204
6	0.0% 0	0.0% 0	0.0% 0	0.0% 0	0.0% 0	0.0% 0
7	53.8% 41250	26.0% 19974	9.8% 7530	5.8% 4455	2.5% 1906	2.1% 1582
8	53.9% 34083	26.3% 16585	9.7% 6113	5.6% 3554	2.5% 1552	2.0% 1289
9	44.4% 24536	28.7% 15864	11.3% 6246	8.2% 4551	3.8% 2094	3.6% 1971
10	50.6% 25964	27.7% 14196	10.3% 5275	6.5% 3340	2.7% 1410	2.2% 1144
11	27.5% 3445	30.5% 3815	14.1% 1767	14.3% 1785	7.0% 878	6.7% 833
12	44.9% 12450	28.8% 7980	11.7% 3244	7.6% 2115	4.0% 1118	3.0% 820
13	47.8% 12184	30.5% 7779	10.8% 2738	6.0% 1520	2.9% 728	2.0% 520
14	0.0% 0	0.0% 0	0.0% 0	0.0% 0	0.0% 0	0.0% 0
TATE	53.9% 261207	26.2% 126796	9.6% 46574	5.7% 27688	2.5% 12170	2.0% 9829

TABLE SHOWS PCT OF EXPANDED ORIGIN-DESTINATION INTERVIEWS FOR EACH CATEGORY IN THE REGION. ACTUAL TRIPS BELOW EACH PCT DOES NOT REPRESENT ALL TRAVEL IN THE REGION--ONLY THAT INTERVIEWED.

MINOR
EXTERNAL ORIGIN-DESTINATION INTERVIEW
TERMINAL-TRIP SUMMARY TABLE
VEHICLE GARAGED AT

REGION	ORIGIN	DESTIN	OTHER
1	44.6% 14820	35.1% 11660	20.4% 6777
2	46.9% 9845	37.2% 7801	15.9% 3332
3	46.1% 33165	37.0% 26580	16.9% 12164
4	44.4% 7686	34.4% 5966	21.2% 3675
5	50.0% 14319	39.4% 11277	10.5% 3015
6	0.0% 0	0.0% 0	0.0% 0
7	44.1% 33808	35.2% 27011	20.7% 15879
8	43.6% 27521	35.0% 22118	21.4% 13536
9	37.0% 20468	27.9% 15401	35.1% 19392
10	38.1% 19557	30.5% 15640	31.4% 16132
11	20.7% 2589	19.5% 2445	59.8% 7488
12	42.6% 11810	32.6% 9034	24.8% 6883
13	38.9% 9902	33.4% 8504	27.7% 7063
14	0.0% 0	0.0% 0	0.0% 0
TATE	42.4% 205492	33.7% 163438	23.8% 115335

TABLE SHOWS PCT OF EXPANDED ORIGIN-DESTINATION INTERVIEWS FOR EACH CATEGORY IN THE REGION. ACTUAL TRIPS BELOW EACH PCT DOES NOT REPRESENT ALL TRAVEL IN THE REGION--ONLY THAT INTERVIEWED.

MINOR

EXTERNAL ORIGIN-DESTINATION INTERVIEW

TERMINAL-TRIP SUMMARY TABLE FOR STATE

TRIP PURPOSE

# IN VEH.	WORK	PERS BIZ	SHOP	VACATION	SOC-REC	OTHER
1	79.7% 150202	49.5% 19644	38.5% 39042	6.8% 1468	35.5% 29020	42.2% 21831
2	15.1% 28469	31.1% 12354	33.7% 34147	37.9% 8123	33.0% 26925	32.4% 16777
3	3.4% 6354	10.6% 4202	14.0% 14150	17.2% 3690	13.9% 11381	13.1% 6796
4	1.2% 2215	5.3% 2107	7.7% 7821	20.3% 4353	9.3% 7575	7.0% 3617
5	0.4% 697	2.1% 844	3.5% 3544	9.5% 2036	4.3% 3495	3.0% 1554
6+	0.2% 442	1.4% 546	2.6% 2586	8.3% 1770	4.0% 3270	2.3% 1214
TOTAL	100% 188380	100% 39698	100% 101291	100% 21441	100% 81666	100% 51789

TOTAL TERMINAL-TRIPS FOR ALL STUDIES IN REGION = 484264

TABLE SHOWS PCT OF EXPANDED ORIGIN-DESTINATION INTERVIEWS FOR EACH CATEGORY IN THE REGION. ACTUAL TRIPS BELOW EACH PCT DOES NOT REPRESENT ALL TRAVEL IN THE REGION--ONLY THAT INTERVIEWED.

MINOR

EXTERNAL ORIGIN-DESTINATION INTERVIEW

TERMINAL-TRIP SUMMARY TABLE FOR STATE

TRIP PURPOSE

VEH TYPE	WORK	PERS BIZ	SHOP	VACATION	SOC-RFC	OTHER
CAR W/O TRLR	66.1% 124466	85.0% 33758	86.4% 87559	82.9% 17775	89.4% 73046	87.4% 45256
CAR W/ TRLR	0.2% 422	0.6% 226	0.8% 805	7.0% 1501	1.1% 922	0.7% 371
PICK-UP W/O/TRLR	21.1% 39816	13.5% 5367	11.8% 11931	5.5% 1171	8.5% 6937	10.8% 5583
PICK-UP W/ TRLR	0.4% 670	0.2% 71	0.2% 171	1.3% 280	0.3% 250	0.2% 104
SINGLE-UNIT TRUCKS	8.2% 15420	0.6% 250	0.7% 754	3.0% 634	0.5% 443	0.8% 421
COMBINATION TRUCKS	4.0% 7585	0.1% 27	0.1% 71	0.4% 80	0.1% 68	0.1% 54
TOTAL	100% 188380	100% 39698	100% 101291	100% 21441	100% 81666	100% 51789

TOTAL TERMINAL-TRIPS FOR ALL STUDIES IN REGION = 484264

TABLE SHOWS PCT OF EXPANDED ORIGIN-DESTINATION INTERVIEWS FOR EACH CATEGORY IN THE REGION. ACTUAL TRIPS BELOW EACH PCT DOES NOT REPRESENT ALL TRAVEL IN THE REGION--ONLY THAT INTERVIEWED.

1MAR78 TRIP LENGTH FREQUENCY DISTRIBUTION-FOT

TRIP LENGTH	FREQUENCY	P.C.	CUM.	ACTUAL
10	17	17.038	17.038	31407
20	31	31.697	48.735	59361
30	16	16.806	65.541	31076
40	13	13.658	79.199	25578
50	7	7.157	86.356	13483
60	3	3.848	90.204	7406
70	1	1.948	92.153	3649
80	1	1.561	93.714	2926
90	1	1.170	94.885	2192
100	0	0.637	95.521	1192
110	0	0.908	96.429	1701
120	0	0.591	97.020	1107
130	0	0.399	97.420	748
140	0	0.232	97.652	434
150	0	0.214	97.866	400
160	0	0.372	98.237	696
170	0	0.140	98.377	262
180	0	0.106	98.523	274
190	0	0.173	98.696	324
200	0	0.135	98.831	253
210	0	0.075	98.906	141
220	0	0.088	98.994	164
230	0	0.133	99.127	250
240	0	0.075	99.203	141
250	0	0.138	99.341	259
260	0	0.061	99.402	114
270	0	0.056	99.457	104
280	0	0.029	99.486	56
290	0	0.059	99.545	110
300	0	0.030	99.575	57
310	0	0.022	99.597	41
320	0	0.038	99.635	71
330	0	0.026	99.661	49
340	0	0.024	99.685	45
350	0	0.034	99.720	64
360	0	0.014	99.734	27
370	0	0.034	99.768	64
380	0	0.011	99.779	21
390	0	0.010	99.789	18
400	0	0.014	99.803	27
410	0	0.004	99.807	7
420	0	0.011	99.818	20
430	0	0.008	99.826	15
440	0	0.036	99.862	68
450	0	0.012	99.874	22
460	0	0.015	99.889	28
470	0	0.017	99.905	31
480	0	0.006	99.912	12
490	0	0.011	99.923	20
500	0	0.003	99.925	5
510	0	0.004	99.930	8
520	0	0.008	99.938	15
530	0	0.002	99.940	4
540	0	0.006	99.946	11
550	0	0.003	99.948	5
560	0	0.005	99.953	9
570	0	0.002	99.955	3
580	0	0.008	99.963	15
590	0	0.006	99.966	11
600	0	0.003	99.971	5
610	0	0.005	99.977	10
620	0	0.001	99.978	2
630	0	0.000	99.978	0
640	0	0.000	99.978	0
650	0	0.001	99.978	1
660	0	0.003	99.981	5
670	0	0.002	99.982	3
680	0	0.001	99.983	1
690	0	0.005	99.988	9
700	0	0.001	99.989	2
710	0	0.000	99.989	0
720	0	0.000	99.989	0
730	0	0.000	99.989	0
740	0	0.002	99.991	4
750	0	0.000	100.000	17

MINING VALUES ARE ALL ZERO
 NUMBER OF OBSERVATIONS= 197274
 SUM= 6066433, MEAN= 32.393, VAR= 1745.297, SD= 41.764

ALL TRIPS OVER MAXP = 17
 ALL TRIPS OVER 255 = 0
 TIME TABLE NUMBER = 201
 TREE NUMBER = 101

WORK TRIPS

1MART8 TRIP LENGTH FREQUENCY DISTRIBUTION-TOT

TRIP LENGTH	FREQUENCY	P.C.	CUM.	ACTUAL
0	10	19.028	19.028	749
2	20	35.341	54.369	1392
4	30	57.227	71.596	878
6	40	72.596	84.192	496
8	50	89.000	89.092	193
10	60	92.007	92.098	118
12	70	93.639	93.639	60
14	80	94.745	94.745	43
16	90	95.557	95.557	32
18	100	96.044	96.044	19
20	110	96.831	96.831	31
22	120	97.201	97.201	14
24	130	97.440	97.440	11
26	140	97.666	97.666	7
28	150	97.888	97.888	8
30	160	98.100	98.100	20
32	170	98.304	98.304	5
34	180	98.500	98.500	4
36	190	98.688	98.688	6
38	200	98.867	98.867	5
40	210	99.037	99.037	4
	220	99.199	99.199	3
	230	99.353	99.353	2
	240	99.500	99.500	2
	250	99.640	99.640	2
	260	99.773	99.773	2
	270	99.900	99.900	3
	280	99.999	99.999	1
	290	100.000	100.000	1
	300	100.000	100.000	2
	310	100.000	100.000	1
	320	100.000	100.000	1
	330	100.000	100.000	1
	340	100.000	100.000	1
	350	100.000	100.000	1
	360	100.000	100.000	1
	370	100.000	100.000	1
	380	100.000	100.000	1
	390	100.000	100.000	1
	400	100.000	100.000	1
	410	100.000	100.000	1
	420	100.000	100.000	1
	430	100.000	100.000	1
	440	100.000	100.000	1
	450	100.000	100.000	1
	460	100.000	100.000	1
	470	100.000	100.000	1
	480	100.000	100.000	1
	490	100.000	100.000	1
	500	100.000	100.000	1
	510	100.000	100.000	1
	520	100.000	100.000	1
	530	100.000	100.000	1
	540	100.000	100.000	1
	550	100.000	100.000	1
	560	100.000	100.000	1
	570	100.000	100.000	1
	580	100.000	100.000	1
	590	100.000	100.000	1
	600	100.000	100.000	1
	610	100.000	100.000	1
	620	100.000	100.000	1
	630	100.000	100.000	1
	640	100.000	100.000	1
	650	100.000	100.000	1
	660	100.000	100.000	1
	670	100.000	100.000	1
	680	100.000	100.000	1
	690	100.000	100.000	1
	700	100.000	100.000	1
	710	100.000	100.000	1
	720	100.000	100.000	1
	730	100.000	100.000	1
	740	100.000	100.000	1
	750	100.000	100.000	1
	760	100.000	100.000	1
	770	100.000	100.000	1
	780	100.000	100.000	1
	790	100.000	100.000	1
	800	100.000	100.000	1
	810	100.000	100.000	1
	820	100.000	100.000	1
	830	100.000	100.000	1
	840	100.000	100.000	1
	850	100.000	100.000	1
	860	100.000	100.000	1
	870	100.000	100.000	1
	880	100.000	100.000	1
	890	100.000	100.000	1
	900	100.000	100.000	1
	910	100.000	100.000	1
	920	100.000	100.000	1
	930	100.000	100.000	1
	940	100.000	100.000	1
	950	100.000	100.000	1
	960	100.000	100.000	1
	970	100.000	100.000	1
	980	100.000	100.000	1
	990	100.000	100.000	1
	1000	100.000	100.000	1

MINIMUM VALUES ARE ALL ZERO
 NUMBER OF OBSERVATIONS= 30410 SUM= 1165781 MEAN= 29.581 VAR= 1678.346 SD= 40.968

L TRIPS OVER MAXP = 2
 L TRIPS OVER 245 = 0
 ME TABLE NUMBER = 202
 TREE NUMBER = 101

PERS. BUSINESS TRIPS

1MAR78 TRIP LENGTH FREQUENCY DISTRIBUTION-TOT

	P.C.	CUM.	ACTUAL
0			
2			
4			
6			
8			
10			
12			
14			
16			
18			
20			
22			
24			
26			
28			
30			
32			
34			
36			
38			
40			
10	20.889	20.889	2102
20	17.583	38.472	3782
30	15.472	53.944	1557
40	12.236	66.181	1231
50	4.805	70.986	483
60	2.457	73.443	247
70	0.927	74.371	93
80	1.060	75.431	108
90	0.554	75.985	58
100	0.263	76.248	26
110	0.862	77.110	88
120	0.288	77.398	29
130	0.281	77.679	28
140	0.215	77.894	21
150	0.064	77.958	6
160	0.199	78.157	20
170	0.063	78.220	6
180	0.125	78.345	12
190	0.180	78.525	18
200	0.106	78.631	10
210	0.095	78.726	9
220	0.067	78.793	6
230	0.178	78.971	17
240	0.098	79.069	9
250	0.093	79.162	9
260	0.201	79.363	20
270	0.075	79.438	7
280	0.049	79.487	4
290	0.023	79.510	2
300	0.079	79.589	7
310	0.063	79.652	6
320	0.022	79.674	2
330	0.044	79.718	4
340	0.010	79.728	1
350	0.013	79.741	1
360	0.010	79.751	1
370	0.042	79.793	4
380	0.005	79.798	0
390	0.022	79.820	2
400	0.011	79.831	1
410	0.000	79.831	0
420	0.012	79.843	1
430	0.008	79.851	0
440	0.023	79.874	2
450	0.018	79.892	1
460	0.017	79.909	1
470	0.001	79.910	0
480	0.003	79.913	0
490	0.008	79.921	0
500	0.013	79.934	1
510	0.001	79.935	0
520	0.011	79.946	1
530	0.008	79.954	0
540	0.002	79.956	0
550	0.008	79.964	0
560	0.003	79.967	0
570	0.003	79.970	0
580	0.002	79.972	0
590	0.000	79.972	0
600	0.001	79.973	0
610	0.001	79.974	0
620	0.003	79.977	0
630	0.000	79.977	0
640	0.000	79.977	0
650	0.002	79.979	0
660	0.000	79.979	0
670	0.000	79.979	0
680	0.004	79.983	0
690	0.002	79.985	0
700	0.001	79.986	0
710	0.000	79.986	0
720	0.000	79.986	0
730	0.000	79.986	0
740	0.000	79.986	0
750	0.000	79.986	0
760	0.000	79.986	0
770	0.000	79.986	0
780	0.000	79.986	0
790	0.000	79.986	0
800	0.000	79.986	0
810	0.000	79.986	0
820	0.000	79.986	0
830	0.000	79.986	0
840	0.000	79.986	0
850	0.000	79.986	0
860	0.000	79.986	0
870	0.000	79.986	0
880	0.000	79.986	0
890	0.000	79.986	0
900	0.000	79.986	0
910	0.000	79.986	0
920	0.000	79.986	0
930	0.000	79.986	0
940	0.000	79.986	0
950	0.000	79.986	0
960	0.000	79.986	0
970	0.000	79.986	0
980	0.000	79.986	0
990	0.000	79.986	0
1000	0.000	79.986	0

MINIMUM VALUES ARE ALL ZERO
 NUMBER OF OBSERVATIONS 100035 SUM 2816970 MEAN 27.992 VAR 1603.356 SD 40.042

NO. OF TRIPS OVER MAXP 0
 NO. OF TRIPS OVER 25% 0
 THE TABLE NUMBER 203
 TREE NUMBER 101

SHOPPING TRIPS

IMARTS TRIP LENGTH FREQUENCY DISTRIBUTION-TOT

TRIP LENGTH	FREQUENCY	P.C.	CUM.	ACTUAL
10	5.005	5.005	5.005	119
20	6.715	11.720	11.720	182
30	5.592	17.312	17.312	117
40	12.167	29.479	29.479	255
50	3.342	32.821	32.821	70
60	7.038	39.859	39.859	100
70	2.565	42.424	42.424	53
80	5.507	47.931	47.931	115
90	4.105	52.036	52.036	86
100	1.836	53.872	53.872	38
110	3.280	57.152	57.152	68
120	1.778	58.930	58.930	37
130	2.207	61.137	61.137	46
140	1.754	62.891	62.891	36
150	0.482	63.373	63.373	18
160	2.532	65.905	65.905	53
170	1.440	67.345	67.345	30
180	1.011	68.356	68.356	29
190	1.674	70.030	70.030	39
200	1.383	71.413	71.413	29
210	1.545	72.958	72.958	32
220	0.656	73.614	73.614	13
230	1.520	75.134	75.134	32
240	1.235	76.369	76.369	25
250	1.210	77.579	77.579	25
260	1.769	79.348	79.348	37
270	1.492	80.840	80.840	31
280	0.987	81.827	81.827	20
290	0.853	82.680	82.680	17
300	1.125	83.805	83.805	23
310	0.966	84.771	84.771	20
320	0.806	85.577	85.577	16
330	1.007	86.584	86.584	22
340	0.234	86.818	86.818	4
350	0.462	87.280	87.280	9
360	0.319	87.600	87.600	6
370	0.420	88.020	88.020	8
380	0.277	88.297	88.297	5
390	0.319	88.616	88.616	6
400	0.296	88.912	88.912	6
410	0.267	89.179	89.179	5
420	0.466	89.645	89.645	10
430	0.305	89.950	89.950	6
440	1.025	90.975	90.975	21
450	0.267	91.242	91.242	5
460	0.191	91.433	91.433	4
470	0.343	91.776	91.776	7
480	0.324	92.100	92.100	6
490	0.200	92.300	92.300	4
500	0.170	92.470	92.470	3
510	0.234	92.704	92.704	4
520	0.391	93.095	93.095	5
530	0.036	93.131	93.131	0
540	0.391	93.522	93.522	6
550	0.180	93.702	93.702	3
560	0.136	93.838	93.838	2
570	0.143	93.981	93.981	3
580	0.033	94.014	94.014	0
590	0.110	94.124	94.124	2
600	0.024	94.148	94.148	0
610	0.243	94.391	94.391	5
620	0.095	94.486	94.486	2
630	0.091	94.577	94.577	1
640	0.029	94.606	94.606	0
650	0.024	94.630	94.630	0
660	0.010	94.640	94.640	0
670	0.200	94.840	94.840	4
680	0.010	94.850	94.850	0
690	0.119	94.969	94.969	2
700	0.057	95.026	95.026	1
710	0.010	95.036	95.036	0
720	0.029	95.065	95.065	1
730	0.057	95.122	95.122	1
740	0.057	95.179	95.179	1
750	0.41510	95.594	95.594	6

MINIMUM VALUES ARE ALL ZERO
 NUMBER OF OBSERVATIONS = 21975 SUM = 2821726 MEAN = 130.528 VAR = 20258.672 SD = 142.333

L TRIPS OVER MAXP = 67
 L TRIPS OVER 255 = 0
 ME TABLE NUMBER = 204
 TREE NUMBER = 101

VACATION TRIPS

1MAR78 TRIP LENGTH FREQUENCY DISTRIBUTION-TOT

PAGE 6

	P.C.	SUM	ACTUAL
0			
2			
4			
6			
8			
10			
12			
14			
16			
18			
20			
22			
24			
26			
28			
30			
32			
34			
36			
38			
40			
10	17.917	17,917	14446
20	34.365	52,301	27920
30	15.558	27,880	12588
40	10.738	16,598	8688
50	7.784	11,742	5818
60	5.420	8,142	2767
70	3.867	5,829	1349
80	2.808	4,234	1299
90	2.175	3,210	951
100	1.646	2,445	595
110	1.249	1,854	434
120	0.927	1,381	317
130	0.686	1,047	237
140	0.511	775	186
150	0.377	565	105
160	0.282	424	104
170	0.214	324	214
180	0.160	240	194
190	0.119	174	303
200	0.089	134	216
210	0.067	101	159
220	0.050	75	105
230	0.037	56	203
240	0.028	42	129
250	0.021	32	151
260	0.016	24	150
270	0.012	18	111
280	0.009	14	43
290	0.007	10	101
300	0.005	8	70
310	0.004	6	70
320	0.003	4	45
330	0.002	3	56
340	0.002	3	36
350	0.001	2	14
360	0.001	1	42
370	0.001	1	26
380	0.001	1	20
390	0.001	1	16
400	0.001	1	16
410	0.001	1	16
420	0.001	1	16
430	0.001	1	16
440	0.001	1	16
450	0.001	1	16
460	0.001	1	16
470	0.001	1	16
480	0.001	1	16
490	0.001	1	16
500	0.001	1	16
510	0.001	1	16
520	0.001	1	16
530	0.001	1	16
540	0.001	1	16
550	0.001	1	16
560	0.001	1	16
570	0.001	1	16
580	0.001	1	16
590	0.001	1	16
600	0.001	1	16
610	0.001	1	16
620	0.001	1	16
630	0.001	1	16
640	0.001	1	16
650	0.001	1	16
660	0.001	1	16
670	0.001	1	16
680	0.001	1	16
690	0.001	1	16
700	0.001	1	16
710	0.001	1	16
720	0.001	1	16
730	0.001	1	16
740	0.001	1	16
750	0.001	1	16
760	0.001	1	16
770	0.001	1	16
780	0.001	1	16
790	0.001	1	16
800	0.001	1	16
810	0.001	1	16
820	0.001	1	16
830	0.001	1	16
840	0.001	1	16
850	0.001	1	16
860	0.001	1	16
870	0.001	1	16
880	0.001	1	16
890	0.001	1	16
900	0.001	1	16
910	0.001	1	16
920	0.001	1	16
930	0.001	1	16
940	0.001	1	16
950	0.001	1	16
960	0.001	1	16
970	0.001	1	16
980	0.001	1	16
990	0.001	1	16
1000	0.001	1	16

MISSING VALUES ARE ALL ZERO
 NUMBER OF OBSERVATIONS= 61968 SUM= 3028356 MEAN= 37.430 VAR= 3367.270 SD= 58.028

L TRIPS OVER 44XP * 19
 L TRIPS OVER 265 * 8
 ME TABLE NUMBER * 205
 TREE NUMBER * 101

OTHER SOC. OR REC. TRIPS

14AR78 TRIP LENGTH FREQUENCY DISTRIBUTION-TOT

TRIP LENGTH	F.C.	CUM.	ACTUAL
10	20.400	20.400	1050
20	15.123	55.523	1803
30	15.978	71.501	820
40	11.242	82.743	577
50	5.050	87.793	259
60	2.807	90.599	144
70	1.313	91.912	67
80	1.190	93.102	41
90	0.883	94.005	43
100	0.510	94.516	26
110	0.795	95.310	40
120	0.871	96.181	44
130	0.547	96.728	28
140	0.251	96.979	12
150	0.259	97.238	13
160	0.545	97.784	28
170	0.146	97.932	7
180	0.179	98.111	9
190	0.208	98.319	10
200	0.105	98.424	5
210	0.105	98.530	5
220	0.082	98.611	4
230	0.156	98.767	8
240	0.107	98.874	5
250	0.175	99.050	9
260	0.109	99.159	5
270	0.105	99.264	5
280	0.047	99.311	2
290	0.082	99.392	4
300	0.045	99.437	2
310	0.027	99.464	1
320	0.029	99.494	1
330	0.058	99.552	3
340	0.019	99.572	1
350	0.025	99.597	1
360	0.014	99.610	1
370	0.031	99.642	1
380	0.019	99.661	1
390	0.010	99.671	1
400	0.014	99.684	1
410	0.016	99.700	1
420	0.019	99.720	1
430	0.021	99.741	1
440	0.019	99.760	2
450	0.012	99.772	1
460	0.008	99.780	1
470	0.021	99.801	1
480	0.019	99.820	1
490	0.012	99.832	1
500	0.018	99.850	1
510	0.018	99.867	1
520	0.006	99.873	1
530	0.006	99.879	1
540	0.006	99.885	1
550	0.006	99.891	1
560	0.000	99.891	1
570	0.004	99.895	1
580	0.008	99.902	1
590	0.000	99.902	1
600	0.002	99.904	1
610	0.006	99.910	1
620	0.010	99.920	1
630	0.000	99.920	1
640	0.002	99.922	1
650	0.014	99.937	1
660	0.000	99.937	1
670	0.012	99.949	1
680	0.006	99.955	1
690	0.002	99.957	1
700	0.010	99.967	1
710	0.000	99.967	1
720	0.004	99.971	1
730	0.008	99.979	1
740	0.002	99.981	1
750	0.004	99.985	1
760	0.008	99.992	1
770	0.002	99.994	1
780	0.006	100.000	1

MINING VALUES ARE ALL ZERO
 NO OF OBSERVATIONS= 51345 SUM= 1622116 MEAN= 31.592 VAR= 2262.102 SD= 47.562

L TRIPS OVER 4400 = 3
 L TRIPS OVER 255 = 0
 ME TABLE NUMBER = 206
 TREE NUMBER = 101

ALL OTHER TRIPS

1MAR78 TRIP LENGTH FREQUENCY DISTRIBUTION-TOT

TRIP LENGTH	FREQ	P.C.	CUM.	ACTUAL
0	10	18.026	18.026	66621
2	20	33.044	51.070	158793
4	30	45.773	66.843	25796
6	40	62.458	79.301	59668
8	50	75.061	84.963	27302
10	60	84.770	88.453	16674
12	70	90.013	90.065	7750
14	80	91.563	91.628	7512
16	90	92.100	92.735	3313
18	100	92.602	93.330	2891
20	110	93.105	94.441	5308
22	120	93.624	95.065	3000
24	130	94.150	95.569	2424
26	140	94.682	95.498	1567
28	150	95.224	96.140	1173
30	160	95.781	96.620	2310
32	170	96.352	96.623	972
34	180	96.937	97.037	1029
36	190	97.522	97.322	1373
38	200	98.107	97.529	994
40	210	98.699	97.699	815
42	220	99.291	97.813	549
44	230	99.882	98.033	1057
46	240	100.473	98.179	702
48	250	101.064	98.301	576
50	260	101.655	98.453	921
52	270	102.246	98.607	692
54	280	102.837	98.778	391
56	290	103.428	98.975	464
58	300	104.019	99.177	490
60	310	104.610	99.380	399
62	320	105.201	99.583	337
64	330	105.792	99.787	417
66	340	106.383	99.990	138
68	350	106.974	100.194	233
70	360	107.565	100.397	125
72	370	108.156	100.601	260
74	380	108.747	100.804	118
76	390	109.338	101.008	137
78	400	109.929	101.211	124
80	410	110.520	101.415	80
82	420	111.111	101.618	169
84	430	111.702	101.822	123
86	440	112.293	102.025	393
88	450	112.884	102.229	123
90	460	113.475	102.432	105
92	470	114.066	102.636	157
94	480	114.657	102.839	114
96	490	115.248	103.043	91
98	500	115.839	103.246	89
100	510	116.430	103.449	102
102	520	117.021	103.653	129
104	530	117.612	103.856	26
106	540	118.203	104.059	122
108	550	118.794	104.263	72
110	560	119.385	104.466	48
112	570	119.976	104.669	35
114	580	120.567	104.873	39
116	590	121.158	105.076	23
118	600	121.749	105.279	74
120	610	122.340	105.483	35
122	620	122.931	105.686	31
124	630	123.522	105.889	12
126	640	124.113	106.093	38
128	650	124.704	106.296	7
130	660	125.295	106.499	63
132	670	125.886	106.703	9
134	680	126.477	106.906	40
136	690	127.068	107.109	22
138	700	127.659	107.313	3
140	710	128.250	107.516	10
142	720	128.841	107.719	16
144	730	129.432	107.923	21
146	740	130.023	108.126	134

INING VALUES ARE ALL ZERO
 EP OF OBSERVATIONS= 480547 SUM= 17521362 MEAN= 36.461 VAR= 3294.507 SD= 57.196

L TRIPS OVER MAXP * 134
 L TRIPS OVER 255 * 0
 ME TABLE NUMBER * 207
 TREE NUMFR * 101

TOTAL TRIPS

MINOR ORIGIN AND DESTINATION STUDIES

MEAN TRIP LENGTHS BY PURPOSE

REGION 1

<u>TRIP PURPOSE</u>	<u>MINUTES</u>	<u>PERCENT OF TOTAL TRIPS</u>
1	26	41
2	21	11
3	18	19
4	119	1
5	22	17
6	20	12
ALL	23	

REGION 2

<u>TRIP PURPOSE</u>	<u>MINUTES</u>	<u>PERCENT OF TOTAL TRIPS</u>
1	27	48
2	25	7
3	20	20
4	197	0
5	22	12
6	25	13
ALL	25	

REGION 3

<u>TRIP PURPOSE</u>	<u>MINUTES</u>	<u>PERCENT OF TOTAL TRIPS</u>
1	25	47
2	20	7
3	18	18
4	149	1
5	24	15
6	25	12
ALL	24	

<u>TRIP PURPOSE</u>
1 WORK
2 PERS. BUSINESS
3 SHOPPING
4 VACATION
5 OTHER SOC. OR REC.
6 ALL OTHER

REGION 4

<u>TRIP PURPOSE</u>	<u>MINUTES</u>	<u>PERCENT OF TOTAL TRIPS</u>
1	33	35
2	35	10
3	20	24
4	124	2
5	41	17
6	36	13
ALL	34	

REGION 5

<u>TRIP PURPOSE</u>	<u>MINUTES</u>	<u>PERCENT OF TOTAL TRIPS</u>
1	35	52
2	30	9
3	26	15
4	193	0
5	32	13
6	30	11
ALL	33	

REGION 7

<u>TRIP PURPOSE</u>	<u>MINUTES</u>	<u>PERCENT OF TOTAL TRIPS</u>
1	33	39
2	31	10
3	26	21
4	115	3
5	38	16
6	33	11
ALL	35	

REGION 8

<u>TRIP PURPOSE</u>	<u>MINUTES</u>	<u>PERCENT OF TOTAL TRIPS</u>
1	32	39
2	26	8
3	24	22
4	145	3
5	33	17
6	27	10
ALL	32	

REGION 9

<u>TRIP PURPOSE</u>	<u>MINUTES</u>	<u>PERCENT OF TOTAL TRIPS</u>
1	34	33
2	35	7
3	47	28
4	136	7
5	52	16
6	47	8
ALL	49	

REGION 10

<u>TRIP PURPOSE</u>	<u>MINUTES</u>	<u>PERCENT OF TOTAL TRIPS</u>
1	31	36
2	29	8
3	23	20
4	92	7
5	31	20
6	26	10
ALL	33	

REGION 11

<u>TRIP PURPOSE</u>	<u>MINUTES</u>	<u>PERCENT OF TOTAL TRIPS</u>
1	51	19
2	50	4
3	48	12
4	125	36
5	76	19
6	52	10
ALL	82	

REGION 12

<u>TRIP PURPOSE</u>	<u>MINUTES</u>	<u>PERCENT OF TOTAL TRIPS</u>
1	58	33
2	51	8
3	45	23
4	201	7
5	64	21
6	53	8
ALL	65	

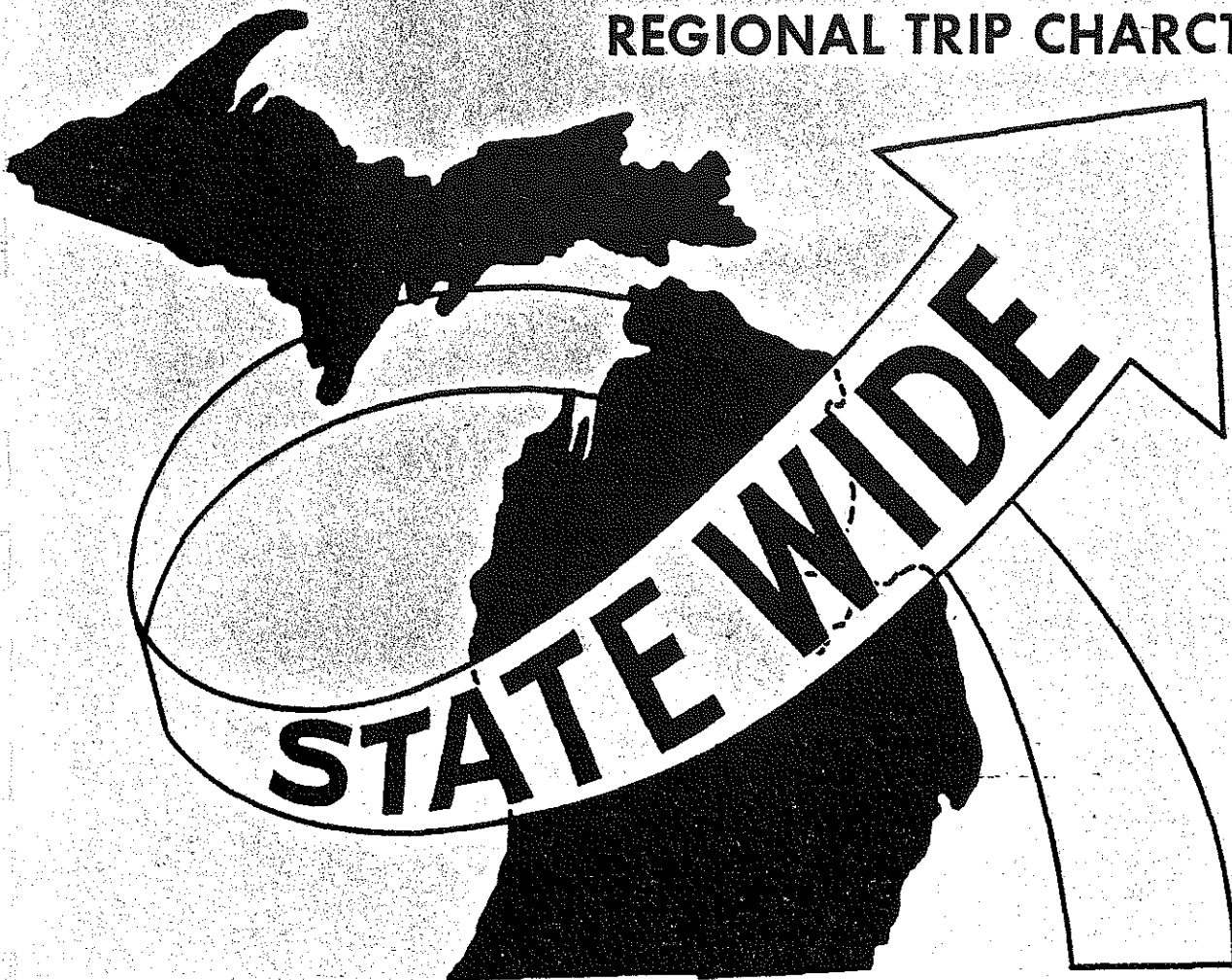
REGION 13

<u>TRIP PURPOSE</u>	<u>MINUTES</u>	<u>PERCENT OF TOTAL TRIPS</u>
1	42	30
2	35	7
3	24	24
4	179	7
5	40	21
6	37	12
ALL	46	

STATEWIDE AVERAGE

<u>TRIP PURPOSE</u>	<u>MINUTES</u>	<u>PERCENT OF TOTAL TRIPS</u>
1	32	39
2	30	8
3	28	21
4	135	4
5	37	17
6	32	11
ALL	36	

REGIONAL TRIP CHARACTERISTICS



REGION 9

EXTERNAL ORIGIN-DESTINATION INTERVIEW

TERMINAL-TRIP SUMMARY TABLE

VEHICLE TYPE

CAR W/O TRLR	CAR W/ TRLR	PICK-UP W/O/TRLR	PICK-UP W/ TRLR	SINGLE-UNIT TRUCKS	COMBINATION TRUCKS
78.5%	2.0%	12.8%	0.4%	4.8%	1.5%
42882	1079	7000	225	2609	818

TRIP PURPOSE

WORK	PERS BIZ	SHOP	VACATION	SOC-REC	OTHER
33.5%	7.0%	28.0%	7.4%	15.8%	8.3%
18280	3818	15315	4020	8649	4531

NUMBER IN VEHICLE

1	2	3	4	5	6+
44.5%	28.7%	11.3%	8.2%	3.8%	3.5%
24324	15663	6175	4461	2054	1936

VEHICLE GARAGED AT

ORIGIN	DESTIN	OTHER
37.1%	27.9%	35.0%
20269	15224	19121

TOTAL TRIPS = 54613

MINOR

EXTERNAL ORIGIN=DESTINATION INTERVIEW
 TERMINAL=TRIP SUMMARY TABLE FOR REGION 9

TRIP PURPOSE

# IN VEH.	WORK	PERS BIZ	SHOP	VACATION	SOC=REC	OTHER
1	73.7% 13579	47.9% 1845	30.7% 4743	6.7% 275	28.8% 2530	33.7% 1564
2	18.7% 3447	31.2% 1204	34.0% 5252	37.5% 1539	32.6% 2866	33.5% 1557
3	4.8% 887	10.7% 412	14.7% 2275	16.6% 681	14.7% 1292	15.0% 699
4	1.7% 313	6.0% 231	11.1% 1710	19.7% 808	11.6% 1017	10.2% 472
5	0.6% 113	2.5% 95	5.0% 775	9.5% 390	5.8% 509	4.6% 212
6+	0.5% 93	1.7% 65	4.5% 688	10.1% 414	6.5% 569	3.1% 142
TOTAL	100% 18432	100% 3852	100% 15443	100% 4108	100% 8782	100% 4645

TOTAL TERMINAL=TRIPS FOR ALL STUDIES IN REGION = 55261

TABLE SHOWS PCT OF EXPANDED ORIGIN=DESTINATION INTERVIEWS FOR EACH CATEGORY IN THE REGION. ACTUAL TRIPS BELOW EACH PCT DOES NOT REPRESENT ALL TRAVEL IN THE REGION--ONLY THAT INTERVIEWED.

MINOR

EXTERNAL ORIGIN=DESTINATION INTERVIEW
 TERMINAL=TRIP SUMMARY TABLE FOR REGION 9

TRIP PURPOSE

VEH TYPE	WORK	PERS BIZ	SHOP	VACATION	SOC=REC	OTHER
CAR W/O TRLR	61.9% 11412	86.1% 3319	86.2% 13313	80.5% 3308	89.7% 7880	88.2% 4097
CAR W/ TRLR	0.3% 58	1.2% 46	2.6% 400	8.8% 363	1.8% 158	1.5% 71
PICK-UP W/O/TRLR	22.6% 4170	11.2% 432	8.7% 1351	4.3% 175	6.9% 606	8.6% 400
PICK-UP W/ TRLR	0.5% 90	0.3% 10	0.4% 62	0.9% 39	0.2% 21	0.2% 10
SINGLE-UNIT TRUCKS	10.4% 1923	1.1% 41	1.9% 287	4.9% 202	1.3% 111	1.3% 62
COMBINATION TRUCKS	4.2% 779	0.1% 4	0.2% 29	0.5% 20	0.1% 7	0.1% 6
TOTAL	100% 18432	100% 3852	100% 15443	100% 4108	100% 8782	100% 4645

TOTAL TERMINAL=TRIPS FOR ALL STUDIES IN REGION = 55261

TABLE SHOWS PCT OF EXPANDED ORIGIN=DESTINATION INTERVIEWS FOR EACH CATEGORY IN THE REGION. ACTUAL TRIPS BELOW EACH PCT DOES NOT REPRESENT ALL TRAVEL IN THE REGION--ONLY THAT INTERVIEWED.

23FEB78 TRIP LENGTH FREQUENCY DISTRIBUTION-REG9

	0	2	4	6	8	10	12	14	16	18	20	22	24	26	28	30	32	34	36	38	40	P.C.	CUM.	ACTUAL	
10																						37.527	37.527	68
20																					20.999	58.527	38
30																				1.560	60.086	2
40																			15.594	75.680	28
50																		6.759	82.439	12
60																	6.135	88.574	11
70																2.271	90.845	4
80															1.078	91.923	1
90														2.003	93.931	1
100													0.761	94.691	1
110												0.624	95.315	1
120											0.383	95.698	
130										0.372	96.070	
140									0.432	96.503	
150								0.120	96.623	
160							0.487	97.110	
170						0.104	97.214	
180					0.186	97.400	
190				0.317	97.718	
200			0.181	97.899	
210		0.082	97.981	
220		0.093	98.074	
230		0.536	98.610	
240		0.159	98.769	
250		0.153	98.922	
260		0.268	99.190	
270		0.093	99.283	
280		0.055	99.338	
290		0.038	99.376	
300		0.093	99.469	
310		0.055	99.524	
320		0.622	99.546	
330		0.099	99.644	
340		0.033	99.677	
350		0.011	99.688	
360		0.000	99.688	
370		0.049	99.737	
380		0.011	99.748	
390		0.000	99.748	
400		0.011	99.759	
410		0.000	99.759	
420		0.000	99.759	
430		0.022	99.781	
440		0.066	99.847	
450		0.016	99.863	
460		0.038	99.901	
470		0.000	99.901	
480		0.011	99.912	
490		0.011	99.923	
500		0.005	99.929	
510		0.000	99.929	
520		0.022	99.951	
530		0.600	99.951	
540		0.000	99.951	
550		0.027	99.978	
560		0.000	99.978	
570		0.000	99.978	
580		0.000	99.978	
590		0.016	99.995	
600		0.000	99.995	
610		0.000	100.000	

MAINING VALUES ARE ALL ZERO
 NUMBER OF OBSERVATIONS= 18272 SUM= 621379. MEAN= 34.007 VAR= 2298.230 SD= 47.940
 TOTAL TRIPS OVER MAXP = 0
 TOTAL TRIPS OVER 255 = 0
 PLUME TABLE NUMBER = 201
 BIN TREE NUMBER = 101

23FEB78

TRIP LENGTH FREQUENCY DISTRIBUTION-REG9

PAGE 3

	0	3	6	9	12	15	18	21	24	27	30	33	36	39	42	45	48	51	54	57	60	P.C.	CUM.	ACTUAL	
10																						41.189	41.189	157	
20																							20.215	61.404	77
30																							1.754	63.158	6
40																							16.208	79.366	6
50																							4.844	84.211	18
60																							4.949	89.159	18
70																							2.488	91.647	4
80																							1.176	92.825	4
90																							0.943	93.768	4
100																							0.681	94.449	2
110																							0.340	94.789	1
120																							0.340	95.130	1
130																							0.131	95.261	
140																							0.314	95.575	
150																							0.131	95.706	
160																							0.393	96.098	
170																							0.079	96.177	
180																							0.157	96.334	
190																							0.393	96.727	
200																							0.314	97.041	
210																							0.131	97.172	
220																							0.105	97.277	
230																							0.419	97.696	
240																							0.340	98.036	
250																							0.079	98.115	
260																							0.105	98.219	
270																							0.314	98.534	
280																							0.209	98.743	
290																							0.026	98.769	
300																							0.236	99.005	
310																							0.105	99.110	
320																							0.157	99.267	
330																							0.209	99.476	
340																							0.000	99.476	
350																							0.052	99.529	
360																							0.000	99.529	
370																							0.026	99.555	
380																							0.000	99.555	
390																							0.000	99.555	
400																							0.000	99.555	
410																							0.000	99.555	
420																							0.026	99.581	
430																							0.000	99.581	
440																							0.000	99.581	
450																							0.026	99.607	
460																							0.052	99.660	
470																							0.000	99.660	
480																							0.000	99.660	
490																							0.000	99.660	
500																							0.000	99.660	
510																							0.000	99.660	
520																							0.105	99.764	
530																							0.026	99.791	
540																							0.000	99.791	
550																							0.000	99.791	
560																							0.000	99.791	
570																							0.000	99.791	
580																							0.000	99.791	
590																							0.000	99.791	
600																							0.000	99.791	
610																							0.000	99.791	
620																							0.000	99.791	
630																							0.052	99.843	
640																							0.000	99.843	
650																							0.000	99.843	
660																							0.000	99.843	
670																							0.157	100.000	

NOTHING VALUES ARE ALL ZERO
 NUMBER OF OBSERVATIONS= 3819 SUM= 133347 MEAN= 34.917 VAR= 3516.684 SD= 59.302
 TOTAL TRIPS OVER MAXP = 0
 TOTAL TRIPS OVER 255 = 0
 PLUME TABLE NUMBER = 202
 LIM TREE NUMBER = 131

23FEB78

TRIP LENGTH FREQUENCY DISTRIBUTION-RES9

PAGE 6

TRIP LENGTH	FREQ	P.C.	CUM.	ACTUAL
10	35	35.137	35.137	337
20	20	20.486	55.623	313
30	1	1.274	56.897	19
40	16	16.337	73.234	250
50	5	5.071	78.305	77
60	4	4.280	82.585	63
70	1	1.392	83.977	21
80	2	2.529	86.506	38
90	0	0.921	87.427	14
100	0	0.503	87.930	7
110	0	0.608	88.538	9
120	0	0.497	89.035	7
130	1	1.008	90.043	15
140	1	1.019	91.062	15
150	0	0.170	91.234	2
160	0	0.817	92.051	12
170	0	0.170	92.221	2
180	0	0.536	92.757	8
190	0	0.882	93.639	13
200	0	0.261	93.899	4
210	0	0.366	94.266	5
220	0	0.216	94.482	3
230	1	1.052	95.534	16
240	0	0.490	96.024	7
250	0	0.412	96.436	6
260	1	1.196	97.632	18
270	0	0.327	97.959	5
280	0	0.131	98.090	2
290	0	0.072	98.162	1
300	0	0.431	98.593	6
310	0	0.333	98.926	3
320	0	0.078	98.994	1
330	0	0.176	99.170	2
340	0	0.020	99.190	0
350	0	0.046	99.236	0
360	0	0.020	99.256	0
370	0	0.111	99.367	1
380	0	0.000	99.367	0
390	0	0.098	99.465	1
400	0	0.013	99.478	0
410	0	0.000	99.478	0
420	0	0.013	99.491	0
430	0	0.013	99.504	0
440	0	0.052	99.556	0
450	0	0.065	99.621	1
460	0	0.065	99.686	1
470	0	0.000	99.686	0
480	0	0.000	99.686	0
490	0	0.052	99.738	0
500	0	0.065	99.803	1
510	0	0.000	99.803	0
520	0	0.072	99.875	1
530	0	0.020	99.895	0
540	0	0.000	99.895	0
550	0	0.052	99.947	0
560	0	0.007	99.954	0
570	0	0.000	99.954	0
580	0	0.013	99.967	0
590	0	0.000	99.967	0
600	0	0.007	99.974	0
610	0	0.000	99.974	0
620	0	0.020	99.993	0
630	0	0.000	99.993	0
640	0	0.000	99.993	0
650	0	0.000	99.993	0
660	0	0.000	99.993	0
670	0	0.000	99.993	0
680	0	0.000	99.993	0
690	0	0.000	99.993	0
700	0	0.000	99.993	0
710	0	0.000	99.993	0
720	0	0.000	99.993	0
730	0	0.000	99.993	0
740	0	0.000	99.993	0
750	0	0.000	99.993	0

MAINING VALUES ARE ALL ZERO
 NBER OF OBSERVATIONS= 15303 SUM= 712471. MEAN= 46.558 VAR= 5099.142 SD= 71.408
 TAL TRIPS OVER MAXP = 1
 TAL TRIPS OVER 255 = 0
 LUME TABLE NUMBER = 203
 IM TREE NUMBER = 101

23FEB78

TRIP LENGTH FREQUENCY DISTRIBUTION-REG9

PAGE 5

	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	P.C.	CUM.	ACTUAL	
10.....																						12.772	12.772	51	
20.....																							6.123	18.895	24
30.....																							0.725	19.620	2
40.....																							6.023	27.643	32
50.....																							4.324	31.967	17
60.....																							3.124	35.091	12
70.....																							2.874	37.966	13
80.....																							10.572	48.538	42
90.....																							2.424	50.962	2
100.....																							2.199	53.162	0
110.....																							3.699	56.861	14
120.....																							1.125	57.986	4
130.....																							2.674	60.660	10
140.....																							1.675	62.334	8
150.....																							0.975	63.309	3
160.....																							4.874	68.183	19
170.....																							0.975	69.158	3
180.....																							1.975	71.132	7
190.....																							2.299	73.432	9
200.....																							0.750	74.181	3
210.....																							1.200	75.381	4
220.....																							0.675	76.056	2
230.....																							2.574	78.630	13
240.....																							1.675	80.305	6
250.....																							1.025	81.330	4
260.....																							3.899	85.229	12
270.....																							1.100	86.329	4
280.....																							0.925	87.253	3
290.....																							0.350	87.603	1
300.....																							2.074	89.678	4
310.....																							1.824	91.502	6
320.....																							0.275	91.777	1
330.....																							1.650	93.427	6
340.....																							0.225	93.652	1
350.....																							0.425	94.076	1
360.....																							0.075	94.151	1
370.....																							0.275	94.426	1
380.....																							0.100	94.526	1
390.....																							0.775	95.301	1
400.....																							0.125	95.426	1
410.....																							0.000	95.426	1
420.....																							0.175	95.601	1
430.....																							0.100	95.701	1
440.....																							0.250	95.951	1
450.....																							0.350	96.301	1
460.....																							0.275	96.576	1
470.....																							0.050	96.626	1
480.....																							0.100	96.726	1
490.....																							0.475	97.201	1
500.....																							0.475	97.676	1
510.....																							0.025	97.701	1
520.....																							0.475	98.175	1
530.....																							0.050	98.225	1
540.....																							0.000	98.225	1
550.....																							0.175	98.400	1
560.....																							0.100	98.500	1
570.....																							0.125	98.625	1
580.....																							0.000	98.625	1
590.....																							0.100	98.725	1
600.....																							0.050	98.775	1
610.....																							0.000	98.775	1
620.....																							0.025	98.800	1
630.....																							0.350	98.850	1
640.....																							0.050	98.900	1
650.....																							0.000	98.900	1
660.....																							0.000	98.900	1
670.....																							0.925	99.825	1
680.....																							0.000	99.825	1
690.....																							0.050	99.875	1
700.....																							0.100	99.975	1
710.....																							0.000	99.975	1
720.....																							0.000	99.975	1
730.....																							0.000	99.975	1
740.....																							0.000	99.975	1
750.....																							0.025	100.000	1

MISSING VALUES ARE ALL ZERO

NUMBER OF OBSERVATIONS= 4001 SUM= 542471. MEAN= 135.584 VAR= 17394.372 SD= 131.888

ITAL TRIPS OVER MAXP = 1
 ITAL TRIPS OVER 255 = 0
 BLUNE TABLE NUMBER = 204
 LIM TREE NUMBER = 101

23FEB78

TRIP LENGTH FREQUENCY DISTRIBUTION-REQ9

PAGE 6

0	2	4	6	8	10	12	14	16	18	20	22	24	26	28	30	32	34	36	38	40	P.C.	CUM.	ACTUAL
10																					28.765	28.765	28
20																					22.526	51.291	19
30																					1.065	52.356	
40																					14.585	66.941	12
50																					6.945	73.886	6
60																					4.318	78.203	3
70																					1.956	80.160	1
80																					3.102	83.262	2
90																					1.887	85.149	1
100																					0.938	86.086	
110																					0.695	86.781	
120																					0.475	87.255	
130																					1.852	89.108	1
140																					1.111	90.219	
150																					0.266	90.485	
160																					1.239	91.724	1
170																					0.266	91.990	
180																					0.521	92.511	
190																					0.741	93.252	
200																					0.475	93.726	
210																					0.451	94.178	
220																					0.394	94.571	
230																					0.926	95.497	
240																					0.579	96.076	
250																					0.241	96.319	
260																					0.926	97.245	
270																					0.359	97.604	
280																					0.174	97.778	
290																					0.023	97.801	
300																					0.521	98.322	
310																					0.428	98.750	
320																					0.150	98.900	
330																					0.266	99.166	
340																					0.035	99.201	
350																					0.000	99.201	
360																					0.000	99.201	
370																					0.058	99.259	
380																					0.335	99.594	
390																					0.093	99.687	
400																					0.058	99.745	
410																					0.000	99.745	
420																					0.035	99.780	
430																					0.023	99.803	
440																					0.066	99.869	
450																					0.058	99.927	
460																					0.000	99.927	
470																					0.000	99.927	
480																					0.023	99.950	
490																					0.061	99.999	
500																					0.104	99.999	
510																					0.000	99.999	
520																					0.012	99.999	
530																					0.000	99.999	
540																					0.000	99.999	
550																					0.000	99.999	
560																					0.000	99.999	
570																					0.000	99.999	
580																					0.000	99.999	
590																					0.000	99.999	
600																					0.000	99.999	
610																					0.000	99.999	
620																					0.000	99.999	
630																					0.000	99.999	
640																					0.000	99.999	
650																					0.000	99.999	
660																					0.000	99.999	
670																					0.000	99.999	
680																					0.000	99.999	
690																					0.000	99.999	
700																					0.000	99.999	
710																					0.000	99.999	
720																					0.000	99.999	
730																					0.000	99.999	
740																					0.000	99.999	
750																					0.000	99.999	

MAINING VALUES ARE ALL ZERO
 NUMBER OF OBSERVATIONS= 8639 SUM= 445001 MEAN= 51.511 VAR= 5329.725 SD= 73.005
 TOTAL TRIPS OVER MAXP = 2
 TOTAL TRIPS OVER 255 = 0
 PLUME TABLE NUMBER = 205
 ILM TREE NUMBER = 101

23FEB78

TRIP LENGTH FREQUENCY DISTRIBUTION-REG9

PAGE 7

	0	2	4	6	8	10	12	14	16	18	20	22	24	26	28	30	32	34	36	38	40	P.C.	CUM.	ACTUAL	
10.....																							39.358	39.358	177
20.....																							18.717	58.075	84
30.....																							1.659	59.735	7
40.....																							12.699	72.434	57
50.....																							5.575	78.009	25
60.....																							3.783	81.792	17
70.....																							2.058	83.850	5
80.....																							2.301	86.150	10
90.....																							1.460	87.611	6
100..																							0.553	88.164	3
110..																							0.553	88.717	2
120..																							0.465	89.181	2
130...																							1.173	90.354	2
140...																							0.951	91.305	2
150..																							0.288	91.593	2
160...																							0.619	92.212	2
170..																							0.288	92.500	2
180..																							0.509	93.009	2
190...																							0.841	93.850	2
200..																							0.199	94.049	2
210..																							0.420	94.469	2
220..																							0.310	94.779	2
230...																							0.996	95.774	2
240...																							0.642	96.416	2
250..																							0.398	96.814	2
260...																							0.863	97.677	2
270..																							0.288	97.965	2
280..																							0.888	98.853	2
290..																							0.022	98.875	2
300..																							0.199	98.274	2
310..																							0.133	98.407	2
320..																							0.066	98.473	2
330..																							0.465	98.938	2
340..																							0.000	98.938	2
350..																							0.000	98.938	2
360..																							0.000	98.938	2
370..																							0.000	98.938	2
380..																							0.000	98.938	2
390..																							0.044	98.982	2
400..																							0.044	99.027	2
410..																							0.044	99.071	2
420..																							0.155	99.226	2
430..																							0.044	99.270	2
440..																							0.000	99.270	2
450..																							0.088	99.358	2
460..																							0.000	99.358	2
470..																							0.044	99.403	2
480..																							0.088	99.491	2
490..																							0.044	99.535	2
500..																							0.155	99.690	2
510..																							0.022	99.712	2
520..																							0.044	99.757	2
530..																							0.022	99.779	2
540..																							0.000	99.779	2
550..																							0.000	99.779	2
560..																							0.000	99.779	2
570..																							0.022	99.801	2
580..																							0.000	99.801	2
590..																							0.000	99.801	2
600..																							0.000	99.801	2
610..																							0.000	99.801	2
620..																							0.044	99.845	2
630..																							0.000	99.845	2
640..																							0.000	99.845	2
650..																							0.000	99.845	2
660..																							0.000	99.845	2
670..																							0.000	99.845	2
680..																							0.133	99.978	2
690..																							0.000	99.978	2
700..																							0.000	99.978	2
																							0.022	100.000	2

REMAINING VALUES ARE ALL ZERO
 NUMBER OF OBSERVATIONS= 4520 SUM= 210941 MEAN= 46.668 VAR= 5770.074 SD= 75.961
 TOTAL TRIPS OVER MAXP = 0
 TOTAL TRIPS OVER 255 = 0
 PLUME TABLE NUMBER = 206
 PLUME TREE NUMBER = 101

23FE878

TRIP LENGTH FREQUENCY DISTRIBUTION-REG9

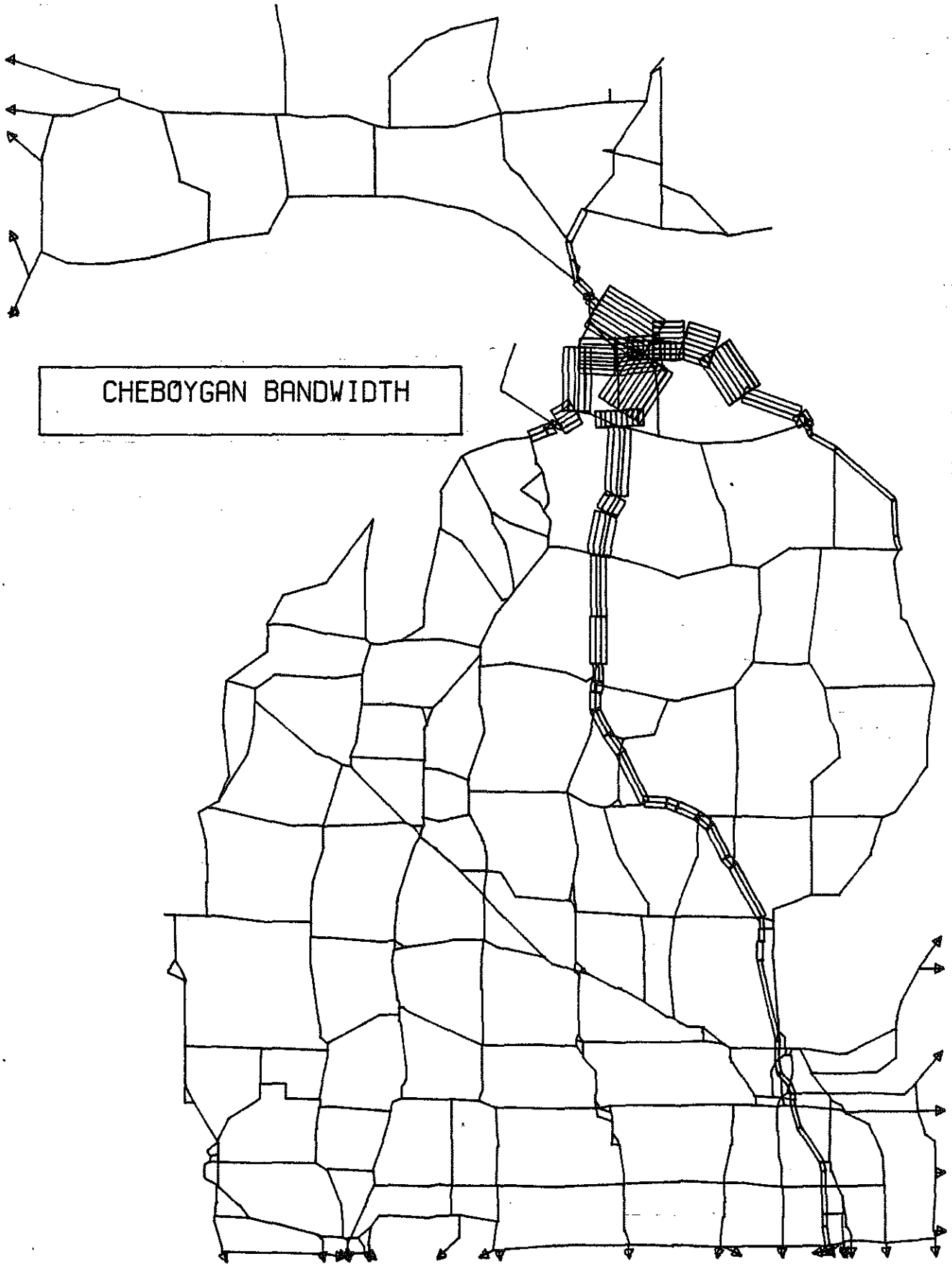
	0	2	4	6	8	10	12	14	16	18	20	22	24	26	28	30	32	34	36	38	40	P.C.	CUM.	ACTUAL	
10.....																							34.082	34.082	
20.....																							19.762	53.824	
30.....																							1.362	55.186	
40.....																							14.892	70.077	
50.....																							5.904	75.982	
60.....																							4.628	80.610	
70.....																							2.016	82.626	
80.....																							2.610	85.236	
90.....																							1.591	86.827	
100...																							0.799	87.629	
110...																							0.830	88.459	
120..																							0.468	89.147	
130....																							1.001	90.147	
140...																							0.830	90.978	
150..																							0.235	91.212	
160....																							1.025	92.237	
170..																							0.225	92.461	
180..																							0.493	92.956	
190...																							0.737	93.692	
200..																							0.302	93.995	
210..																							0.334	94.329	
220..																							0.236	94.565	
230...																							0.922	95.487	
240..																							0.482	95.969	
250...																							0.319	96.288	
260...																							0.937	97.225	
270..																							0.396	97.531	
280..																							0.172	97.703	
290..																							0.086	97.769	
300..																							0.420	98.189	
310..																							0.343	98.532	
320..																							0.090	98.622	
330..																							0.299	98.920	
340..																							0.034	98.959	
350..																							0.051	99.010	
360..																							0.011	99.021	
370..																							0.379	99.100	
380..																							0.016	99.116	
390..																							0.103	99.219	
400..																							0.029	99.248	
410..																							0.004	99.252	
420..																							0.037	99.289	
430..																							0.026	99.314	
440..																							0.062	99.377	
450..																							0.068	99.445	
460..																							0.055	99.500	
470..																							0.007	99.507	
480..																							0.022	99.529	
490..																							0.070	99.599	
500..																							0.084	99.683	
510..																							0.004	99.687	
520..																							0.075	99.762	
530..																							0.013	99.775	
540..																							0.000	99.775	
550..																							0.040	99.815	
560..																							0.009	99.824	
570..																							0.015	99.839	
580..																							0.009	99.848	
590..																							0.007	99.855	
600..																							0.007	99.861	
610..																							0.000	99.863	
620..																							0.011	99.874	
630..																							0.007	99.881	
640..																							0.004	99.885	
650..																							0.000	99.885	
660..																							0.000	99.885	
670..																							0.000	99.885	
680..																							0.000	99.885	
690..																							0.000	99.885	
700..																							0.000	99.885	
710..																							0.000	99.885	
720..																							0.000	99.885	
730..																							0.000	99.885	
740..																							0.000	99.885	
750..																							0.000	99.885	

MAINING VALUES ARE ALL ZERO
 NUMBER OF OBSERVATIONS= 54554 SUM= 2665610. MEAN= 48.862 VAR= 5686.170 SD= 75.467

TOTAL TRIPS OVER MAXP = 4
 TOTAL TRIPS OVER 255 = 0
 PLUME TABLE NUMBER = 207
 IN TREE NUMBER = 101

**CITY TRIP CHARACTERISTICS
BY ALPHA NAME**





CHEBOYGAN BANDWIDTH

CHEBOYGAN

EXTERNAL ORIGIN=DESTINATION INTERVIEW

TERMINAL=TRIP SUMMARY TABLE

VEHICLE TYPE

CAR W/O TRLR	CAR W/ TRLR	PICK-UP W/O/TRLR	PICK-UP W/ TRLR	SINGLE-UNIT TRUCKS	COMBINATION TRUCKS
80.9% 9533	1.0% 113	13.9% 1632	0.4% 52	2.6% 303	1.3% 150

TRIP PURPOSE

WORK	PERS BIZ	SHOP	VACATION	SOC=REC	OTHER
34.8% 4095	7.2% 848	30.5% 3595	3.8% 446	17.2% 2021	6.6% 779

NUMBER IN VEHICLE

1	2	3	4	5	6+
46.5% 5479	27.7% 3260	11.4% 1342	7.5% 883	3.7% 440	3.2% 379

VEHICLE GARAGED AT

ORIGIN	DESTIN	OTHER
40.4% 4762	27.5% 3244	32.1% 3777

TOTAL TRIPS = 11783

MINOR

EXTERNAL ORIGIN-DESTINATION INTERVIEW
 TERMINAL-TRIP SUMMARY TABLE FOR CHEBOYGAN

TRIP PURPOSE

# IN VEH.	WORK	PERS BIZ	SHOP	VACATION	SOC-REC	OTHER
1	75.1% 3075	43.3% 367	30.4% 1091	8.6% 38	29.9% 604	39.0% 304
2	16.8% 688	36.0% 306	33.1% 1191	40.4% 180	31.9% 644	32.2% 251
3	4.7% 192	11.4% 96	15.9% 570	14.5% 65	14.7% 296	15.7% 123
4	2.4% 99	4.9% 41	11.2% 402	15.3% 68	10.5% 212	7.7% 60
5	0.5% 19	2.7% 23	5.7% 205	12.0% 54	5.6% 113	3.4% 27
6+	0.5% 22	1.7% 15	3.8% 135	9.1% 41	7.5% 151	1.9% 15
TOTAL	100% 4095	100% 848	100% 3595	100% 446	100% 2021	100% 779

TOTAL TERMINAL-TRIPS FOR CHEBOYGAN = 11783

MINOR

EXTERNAL ORIGIN-DESTINATION INTERVIEW
 TERMINAL-TRIP SUMMARY TABLE FOR CHEBOYGAN

TRIP PURPOSE

VEH TYPE	WORK	PERS BIZ	SHOP	VACATION	SOC-REC	OTHER
CAR W/O TRLR	65.6% 2684	87.0% 737	89.1% 3202	89.7% 400	90.0% 1818	88.8% 691
CAR W/ TRLR	0.3% 12	1.0% 8	1.1% 38	4.7% 21	1.3% 27	0.9% 7
PICK-UP W/O/TRLR	23.5% 963	11.0% 93	9.0% 322	2.7% 12	8.4% 170	9.3% 73
PICK-UP W/ TRLR	0.7% 28	0.7% 6	0.4% 14	0.8% 4	0.0% 0	0.0% 0
SINGLE-UNIT TRUCKS	6.4% 260	0.4% 3	0.5% 18	1.9% 9	0.3% 6	0.8% 7
COMBINATION TRUCKS	3.6% 147	0.0% 0	0.0% 0	0.2% 1	0.0% 0	0.1% 1
TOTAL	100% 4095	100% 848	100% 3595	100% 446	100% 2021	100% 779

TOTAL TERMINAL-TRIPS FOR CHEBOYGAN = 11783

6F8378

TRIP LENGTH FREQUENCY DISTRIBUTION-CHEBOYGAN

PAGE

TRIP LENGTH	FREQUENCY	P.C.	CUM.
0			
3			
6			
9			
12			
15			
18			
21			
24			
27			
30			
33			
36			
39			
42			
45			
48			
51			
54			
57			
60			
10.		0.024	0.02
20.		33.121	33.14
30.		0.000	33.14
40.		40.460	73.60
50.		8.146	81.75
60.		9.418	91.17
70.		2.128	93.29
80.		0.954	94.25
90.		1.272	95.52
100.		0.294	95.81
110.		1.125	96.94
120.		0.049	96.99
130.		0.000	96.99
140.		0.196	97.18
150.		0.269	97.45
160.		0.147	97.60
170.		0.098	97.70
180.		0.122	97.82
190.		0.465	98.29
200.		0.122	98.41
210.		0.098	98.50
220.		0.171	98.67
230.		0.024	98.70
240.		0.122	98.82
250.		0.313	99.14
260.		0.098	99.24
270.		0.000	99.24
280.		0.171	99.41
290.		0.098	99.51
300.		0.049	99.56
310.		0.122	99.68
320.		0.000	99.68
330.		0.000	99.68
340.		0.024	99.71
350.		0.000	99.71
360.		0.300	99.70
370.		0.024	99.72
380.		0.000	99.72
390.		0.000	99.72
400.		0.000	99.72
410.		0.000	99.72
420.		0.000	99.72
430.		0.000	99.72
440.		0.000	99.72
450.		0.000	99.72
460.		0.000	99.72
470.		0.171	99.89
480.		0.000	99.89
490.		0.000	99.89
500.		0.000	99.89
510.		0.000	99.89
520.		0.000	99.89
530.		0.000	99.89
540.		0.000	99.89
550.		0.000	99.89
560.		0.000	99.89
570.		0.000	99.89
580.		0.073	99.97
590.		0.000	99.97
600.		0.024	100.00

REMAINING VALUES ARE ALL ZERO
 NUMBER OF OBSERVATIONS# 4028 SUM# 159647 MEAN# 39.053 VAR# 1834.962 SD#

TOTAL TRIPS OVER MAXP = 0
 TOTAL TRIPS OVER 255 = 0
 VOLUME TABLE NUMBER = 201
 SKIM TREE NUMBER = 101

SD=42.8

6FEB75 TRIP LENGTH FREQUENCY DISTRIBUTION-CHEBOYSAN

0	3	6	9	12	15	18	21	24	27	30	33	36	39	42	45	48	51	54	57	60	P.C.	CUM.	ACTI	
10.																						0.236	0.236	
20.																						31.995	32.231	
30.																						0.000	32.231	
40.																						45.100	77.332	
50.																						5.077	82.409	
60.																						11.098	93.506	
70.																						1.535	95.041	
80.																						0.826	95.868	
90.																						0.945	96.812	
100.																						0.354	97.166	
110.																						0.354	97.521	
120.																						0.000	97.521	
130.																						0.000	97.521	
140.																						0.236	97.757	
150.																						0.236	97.993	
160.																						0.118	98.111	
170.																						0.000	98.111	
180.																						0.118	98.229	
190.																						0.000	98.229	
200.																						0.354	98.583	
210.																						0.000	98.583	
220.																						0.000	98.583	
230.																						0.000	98.583	
240.																						0.236	98.819	
250.																						0.000	98.819	
260.																						0.000	98.819	
270.																						0.000	98.819	
280.																						0.472	99.292	
290.																						0.000	99.292	
300.																						0.000	99.292	
310.																						0.236	99.528	
320.																						0.000	99.528	
330.																						0.236	99.764	
340.																						0.000	99.764	
350.																						0.000	99.764	
360.																						0.000	99.764	
370.																						0.000	99.764	
380.																						0.000	99.764	
390.																						0.000	99.764	
400.																						0.000	99.764	
410.																						0.000	99.764	
420.																						0.000	99.764	
430.																						0.000	99.764	
440.																						0.000	99.764	
450.																						0.000	99.764	
460.																						0.000	99.764	
470.																						0.000	99.764	
480.																						0.000	99.764	
490.																						0.000	99.764	
500.																						0.000	99.764	
510.																						0.000	99.764	
520.																						0.000	99.764	
530.																						0.000	99.764	
540.																						0.000	99.764	
550.																						0.000	99.764	
560.																						0.000	99.764	
570.																						0.000	99.764	
580.																						0.000	99.764	
590.																						0.000	99.764	
600.																						0.000	99.764	
610.																						0.000	99.764	
620.																						0.000	99.764	
630.																						0.236	100.000	

REMAINING VALUES ARE ALL ZERO
 NUMBER OF OBSERVATIONS# 647 SUM# 32304 MEAN# 36.139 VAR# 2038.909 SD# 45.
 TOTAL TRIPS OVER MAXP # 0
 TOTAL TRIPS OVER 255 # 0
 VOLUME TABLE NUMBER # 202
 SKIM TREE NUMBER # 101

TRIP LENGTH	FREQ	P.C.	CUM.	ACTI
0		0,000	0,000	
3		37,552	37,552	
6		0,000	37,552	
9		48,729	86,281	
12		6,036	92,317	
15		7,010	99,327	
18		1,057	100,384	
21		0,389	100,773	
24		0,584	101,357	
27		0,445	101,803	
30		0,306	102,108	
33		0,278	102,387	
36		0,083	102,470	
39		0,000	102,470	
42		0,306	102,776	
45		0,000	102,776	
48		0,000	102,776	
51		0,000	102,776	
54		0,000	102,776	
57		0,000	102,776	
60		0,000	102,776	
63		0,000	102,776	
66		0,000	102,776	
69		0,000	102,776	
72		0,000	102,776	
75		0,000	102,776	
78		0,000	102,776	
81		0,000	102,776	
84		0,000	102,776	
87		0,000	102,776	
90		0,000	102,776	
93		0,000	102,776	
96		0,000	102,776	
99		0,000	102,776	
102		0,000	102,776	
105		0,000	102,776	
108		0,000	102,776	
111		0,000	102,776	
114		0,000	102,776	
117		0,000	102,776	
120		0,000	102,776	
123		0,000	102,776	
126		0,000	102,776	
129		0,000	102,776	
132		0,000	102,776	
135		0,000	102,776	
138		0,000	102,776	
141		0,000	102,776	
144		0,000	102,776	
147		0,000	102,776	
150		0,000	102,776	
153		0,000	102,776	
156		0,000	102,776	
159		0,000	102,776	
162		0,000	102,776	
165		0,000	102,776	
168		0,000	102,776	
171		0,000	102,776	
174		0,000	102,776	
177		0,000	102,776	
180		0,000	102,776	
183		0,000	102,776	
186		0,000	102,776	
189		0,000	102,776	
192		0,000	102,776	
195		0,000	102,776	
198		0,000	102,776	
201		0,000	102,776	
204		0,000	102,776	
207		0,000	102,776	
210		0,000	102,776	
213		0,000	102,776	
216		0,000	102,776	
219		0,000	102,776	
222		0,000	102,776	
225		0,000	102,776	
228		0,000	102,776	
231		0,000	102,776	
234		0,000	102,776	
237		0,000	102,776	
240		0,000	102,776	
243		0,000	102,776	
246		0,000	102,776	
249		0,000	102,776	
252		0,000	102,776	
255		0,000	102,776	
258		0,000	102,776	
261		0,000	102,776	
264		0,000	102,776	
267		0,000	102,776	
270		0,000	102,776	
273		0,000	102,776	
276		0,000	102,776	
279		0,000	102,776	
282		0,000	102,776	
285		0,000	102,776	
288		0,000	102,776	
291		0,000	102,776	
294		0,000	102,776	
297		0,000	102,776	
300		0,000	102,776	
303		0,000	102,776	
306		0,000	102,776	
309		0,000	102,776	
312		0,000	102,776	
315		0,000	102,776	
318		0,000	102,776	
321		0,000	102,776	
324		0,000	102,776	
327		0,000	102,776	
330		0,000	102,776	
333		0,000	102,776	
336		0,000	102,776	
339		0,000	102,776	
342		0,000	102,776	
345		0,000	102,776	
348		0,000	102,776	
351		0,000	102,776	
354		0,000	102,776	
357		0,000	102,776	
360		0,000	102,776	
363		0,000	102,776	
366		0,000	102,776	
369		0,000	102,776	
372		0,000	102,776	
375		0,000	102,776	
378		0,000	102,776	
381		0,000	102,776	
384		0,000	102,776	
387		0,000	102,776	
390		0,000	102,776	
393		0,000	102,776	
396		0,000	102,776	
399		0,000	102,776	
402		0,000	102,776	
405		0,000	102,776	
408		0,000	102,776	
411		0,000	102,776	
414		0,000	102,776	
417		0,000	102,776	
420		0,000	102,776	
423		0,000	102,776	
426		0,000	102,776	
429		0,000	102,776	
432		0,000	102,776	
435		0,000	102,776	
438		0,000	102,776	
441		0,000	102,776	
444		0,000	102,776	
447		0,000	102,776	
450		0,000	102,776	
453		0,000	102,776	
456		0,000	102,776	
459		0,000	102,776	
462		0,000	102,776	
465		0,000	102,776	
468		0,000	102,776	
471		0,000	102,776	
474		0,000	102,776	
477		0,000	102,776	
480		0,000	102,776	
483		0,000	102,776	
486		0,000	102,776	
489		0,000	102,776	
492		0,000	102,776	
495		0,000	102,776	
498		0,000	102,776	
501		0,000	102,776	
504		0,000	102,776	
507		0,000	102,776	
510		0,000	102,776	
513		0,000	102,776	
516		0,000	102,776	
519		0,000	102,776	
522		0,000	102,776	
525		0,000	102,776	
528		0,000	102,776	
531		0,000	102,776	
534		0,000	102,776	
537		0,000	102,776	
540		0,000	102,776	
543		0,000	102,776	
546		0,000	102,776	
549		0,000	102,776	
552		0,000	102,776	
555		0,000	102,776	
558		0,000	102,776	
561		0,000	102,776	
564		0,000	102,776	
567		0,000	102,776	
570		0,000	102,776	
573		0,000	102,776	
576		0,000	102,776	
579		0,000	102,776	
582		0,000	102,776	
585		0,000	102,776	
588		0,000	102,776	
591		0,000	102,776	
594		0,000	102,776	
597		0,000	102,776	
600		0,026	100,000	

REMAINING VALUES ARE ALL ZERO
 NUMBER OF OBSERVATIONS = 3595 SUM = 121118 MEAN = 33,691 VAR = 1248,016 SD = 35,2

TOTAL TRIPS OVER MAXP = 0
 TOTAL TRIPS OVER 255 = 0
 VOLUME TABLE NUMBER = 203
 SKIM TREE NUMBER = 101

6FEB78

TRIP LENGTH FREQUENCY DISTRIBUTION-CHEBOYGAN

	0	2	4	6	8	10	12	14	16	18	20	22	24	26	28	30	32	34	36	38	40	P.C.	CUM.	AC	
10																							0.000	0.000	
20																							19.005	19.005	
30																							0.000	19.005	
40																							29.812	48.817	
50																							3.204	52.021	
60																							4.299	56.320	
70																							2.036	58.356	
80																							0.905	59.261	
90																							5.208	64.469	
100																							0.479	64.948	
110																							3.167	68.115	
120																							2.489	70.604	
130																							1.131	71.735	
140																							1.584	73.319	
150																							2.489	75.808	
160																							0.452	76.260	
170																							0.905	77.165	
180																							0.226	77.391	
190																							1.131	80.522	
200																							0.226	80.748	
210																							0.000	80.748	
220																							0.905	81.653	
230																							0.000	81.653	
240																							1.131	82.784	
250																							2.262	85.046	
260																							1.131	86.177	
270																							0.000	86.177	
280																							0.905	87.082	
290																							1.131	88.213	
300																							0.479	88.692	
310																							4.299	92.991	
320																							0.226	93.217	
330																							0.479	93.696	
340																							0.226	93.922	
350																							1.131	95.053	
360																							0.000	95.053	
370																							0.226	95.279	
380																							0.226	95.505	
390																							0.905	96.410	
400																							0.000	96.410	
410																							0.000	96.410	
420																							0.000	96.410	
430																							0.000	96.410	
440																							0.000	96.410	
450																							0.000	96.410	
460																							0.479	96.889	
470																							0.452	97.341	
480																							0.452	97.793	
490																							0.000	97.793	
500																							0.000	97.793	
510																							0.000	97.793	
520																							0.000	97.793	
530																							0.000	97.793	
540																							0.000	97.793	
550																							0.000	97.793	
560																							0.000	97.793	
570																							0.000	97.793	
580																							0.000	97.793	
590																							0.000	97.793	
600																							0.452	98.245	
610																							0.000	98.245	
620																							0.000	98.245	
630																							0.452	100.000	

REMAINING VALUES ARE ALL ZERO
NUMBER OF OBSERVATIONS= 442 SUM= 46719 MEAN= 105.699 VAR= 14630.247 SD= 120

TOTAL TRIPS OVER MAXP = 0
TOTAL TRIPS OVER 255 = 0
VOLUME TABLE NUMBER = 204
SKIN TREE NUMBER = 101

6FEB78

TRIP LENGTH FREQUENCY DISTRIBUTION-CHEBOYGAN

PAGE 6

	0	2	4	6	8	10	12	14	16	18	20	22	24	26	28	30	32	34	36	38	40	P.C.	CUM.	ACT	
10.																							0.050	0.050	
20.																							37.098	37.748	
30.																							0.000	37.748	
40.																							37.098	75.846	
50.																							8.978	84.824	
60.																							4.101	90.925	
70.																							1.190	92.116	
80.																							0.885	93.001	
90.																							1.637	94.638	
100.																							0.298	94.936	
110.																							0.794	95.730	
120.																							0.000	95.730	
130.																							0.149	95.879	
140.																							0.298	96.177	
150.																							0.496	96.673	
160.																							0.298	96.971	
170.																							0.198	97.169	
180.																							0.198	97.367	
190.																							0.149	97.516	
200.																							0.099	97.615	
210.																							0.000	97.615	
220.																							0.298	97.913	
230.																							0.000	97.913	
240.																							0.347	98.260	
250.																							0.298	98.558	
260.																							0.099	98.657	
270.																							0.099	98.756	
280.																							0.149	98.905	
290.																							0.050	99.054	
300.																							0.298	99.352	
310.																							0.744	99.650	
320.																							0.347	99.997	
330.																							0.298	99.997	
340.																							0.000	99.997	
350.																							0.000	99.997	
360.																							0.000	99.997	
370.																							0.000	99.997	
380.																							0.050	99.752	
390.																							0.248	100.000	

REMAINING VALUES ARE ALL ZERO
 NUMBER OF OBSERVATIONS 2016 SUM 53199 MEAN 41.269 VAR 2764.259 SD 52.5

TOTAL TRIPS OVER MAXP 0
 TOTAL TRIPS OVER 255 0
 VOLUME TABLE NUMBER 205
 SKIM TREE NUMBER 101

6FEB78

TRIP LENGTH FREQUENCY DISTRIBUTION-CHEBOYGAN

PAGE 7

	3	6	9	12	15	18	21	24	27	30	33	36	39	42	45	48	51	54	57	60	P.C.	CUM.	ACT		
10																						0.000	0.000		
20																							37.500	37.500	
30																							0.000	37.500	
40																							40.593	78.093	
50																							9.407	87.500	
60																							7.345	94.845	
70																							1.160	96.005	
80																							0.258	96.263	
90																							0.515	96.778	
100																							0.129	96.907	
110																							0.644	97.552	
120																							0.000	97.552	
130																							0.258	97.809	
140																							0.129	97.938	
150																							0.000	97.938	
160																							0.000	97.938	
170																							0.644	98.582	
180																							0.000	98.582	
190																							0.129	98.711	
200																							0.000	98.711	
210																							0.000	98.711	
220																							0.000	98.711	
230																							0.000	98.711	
240																							0.258	98.969	
250																							0.000	98.969	
260																							0.000	98.969	
270																							0.129	99.098	
280																							0.129	99.227	
290																							0.129	99.356	
300																							0.000	99.356	
310																							0.129	99.485	
320																							0.000	99.485	
330																							0.000	99.485	
340																							0.000	99.485	
350																							0.000	99.485	
360																							0.000	99.485	
370																							0.000	99.485	
380																							0.000	99.485	
390																							0.000	99.485	
400																							0.258	99.742	
410																							0.258	100.000	

REMAINING VALUES ARE ALL ZERO
NUMBER OF OBSERVATIONS= 776

SUM=

27483.

MEAN= 35.416

VAR=

1569.932

SD= 39.

TOTAL TRIPS OVER MAXP = 0
TOTAL TRIPS OVER 255 = 0
VOLUME TABLE NUMBER = 206
SKIM TREE NUMBER = 101

0FEB76

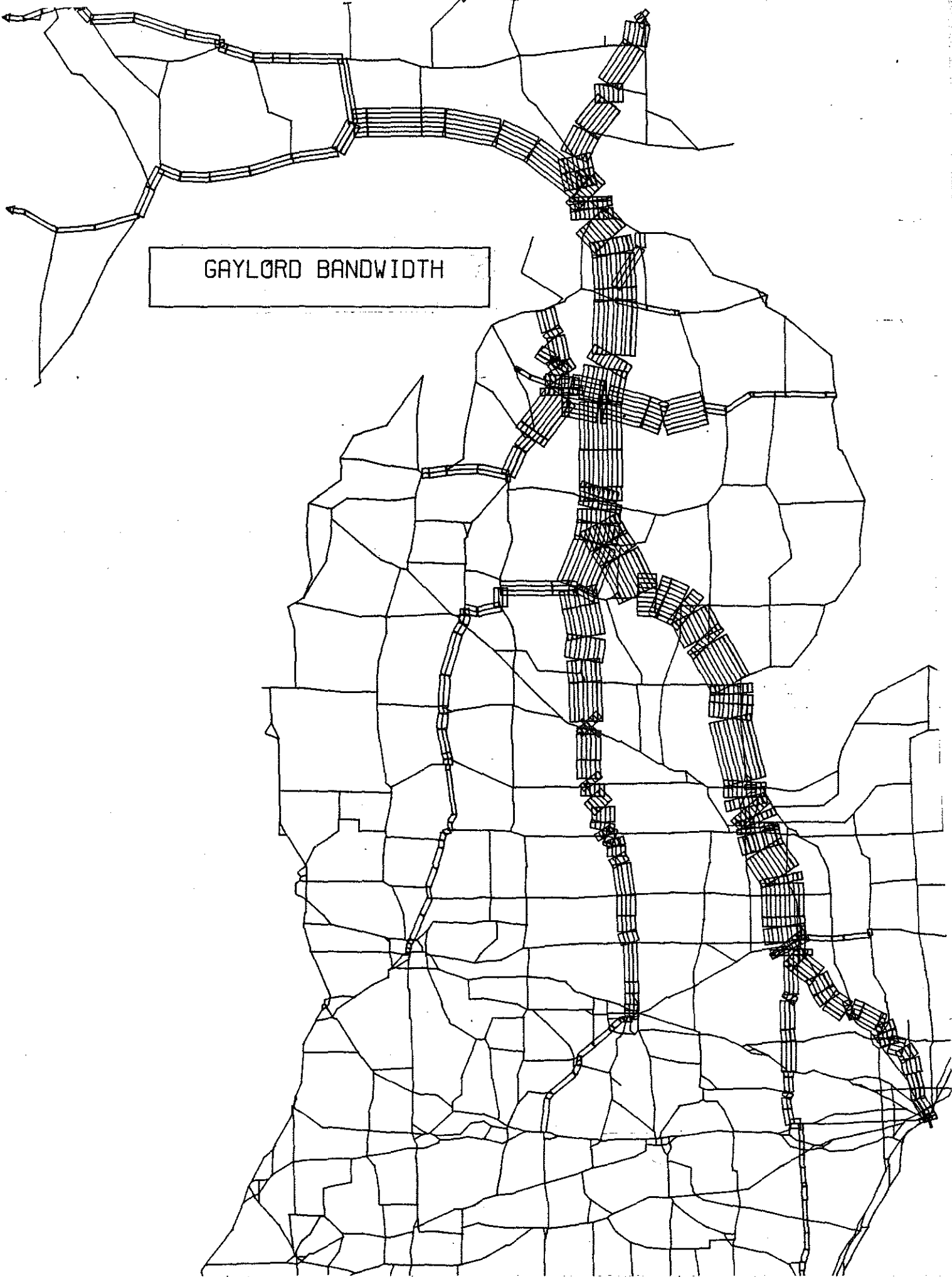
TRIP LENGTH FREQUENCY DISTRIBUTION-CHEBOYGAN

0	3	6	9	12	15	18	21	24	27	30	33	36	39	42	45	48	51	54	57	60	P.C.	CUM.	ACTU	
10																						0.034	0.034	
20																						34.937	34.971	
30																						0.000	34.971	
40																						41.219	76.190	
50																						7.395	83.586	
60																						7.905	91.491	
70																						12.530	93.021	
80																						0.672	93.693	
90																						1.199	94.891	
100																						0.349	95.240	
110																						0.606	96.047	
120																						0.194	96.243	
130																						0.085	96.328	
140																						0.179	96.506	
150																						0.383	96.889	
160																						0.128	97.016	
170																						0.145	97.161	
180																						0.094	97.254	
190																						0.238	97.492	
200																						0.094	97.586	
210																						0.051	97.637	
220																						0.145	97.781	
230																						0.009	97.790	
240																						0.194	97.985	
250																						0.332	98.317	
260																						0.102	98.419	
270																						0.026	98.444	
280																						0.179	98.623	
290																						0.119	98.742	
300																						0.111	98.852	
310																						0.059	99.111	
320																						0.068	99.179	
330																						0.102	99.481	
340																						0.017	99.498	
350																						0.077	99.575	
360																						0.000	99.575	
370																						0.017	99.592	
380																						0.017	99.609	
390																						0.111	99.719	
400																						0.051	99.770	
410																						0.017	99.787	
420																						0.000	99.787	
430																						0.000	99.787	
440																						0.000	99.787	
450																						0.000	99.787	
460																						0.085	99.872	
470																						0.017	99.889	
480																						0.017	99.906	
490																						0.000	99.906	
500																						0.000	99.906	
510																						0.000	99.906	
520																						0.000	99.906	
530																						0.000	99.906	
540																						0.000	99.906	
550																						0.000	99.906	
560																						0.000	99.906	
570																						0.000	99.906	
580																						0.026	99.932	
590																						0.000	99.932	
600																						0.034	99.966	
610																						0.000	99.966	
620																						0.000	99.966	
630																						0.034	100.000	

REMAINING VALUES ARE ALL ZERO
 NUMBER OF OBSERVATIONS= 11760 SUM= 476470 MEAN= 39.992 VAR= 2470.689 SD= 49.7

TOTAL TRIPS OVER MAXP = 0
 TOTAL TRIPS OVER 255 = 0
 VOLUME TABLE NUMBER = 207
 SKIM TREE NUMBER = 101

GAYLORD BANDWIDTH



GAYLORD

EXTERNAL ORIGIN=DESTINATION INTERVIEW

TERMINAL=TRIP SUMMARY TABLE

VEHICLE TYPE

CAR W/O TRLR	CAR W/ TRLR	PICK-UP W/O/TRLR	PICK-UP W/ TRLR	SINGLE-UNIT TRUCKS	COMBINATION TRUCKS
77.4% 17332	3.0% 669	12.4% 2779	0.4% 100	4.7% 1058	2.0% 449

TRIP PURPOSE

WORK	PERS BIZ	SHOP	VACATION	SOC=REC	OTHER
31.2% 6986	5.7% 1273	31.0% 6936	9.5% 2138	13.9% 3113	8.7% 1940

NUMBER IN VEHICLE

1	2	3	4	5	6+
41.5% 9300	29.4% 6578	11.6% 2601	8.9% 2000	4.5% 1004	4.0% 903

VEHICLE GARAGED AT

ORIGIN	DESTIN	OTHER
32.1% 7185	26.7% 5978	41.2% 9223

TOTAL TRIPS = 22387

MINOR

EXTERNAL ORIGIN-DESTINATION INTERVIEW
 TERMINAL-TRIP SUMMARY TABLE FOR GAYLORD

TRIP PURPOSE

# IN VEH.	WORK	PERS BIZ	SHOP	VACATION	SOC-REC	OTHER
1	74.9% 5231	48.8% 622	28.0% 1939	5.3% 114	25.3% 788	31.3% 607
2	18.6% 1301	30.9% 394	35.2% 2439	37.3% 797	32.6% 1014	32.6% 633
3	4.3% 303	11.4% 145	14.5% 1004	17.2% 368	15.5% 483	15.4% 298
4	1.1% 75	4.3% 55	11.8% 821	20.5% 438	12.3% 383	11.8% 229
5	0.6% 45	2.2% 27	5.6% 387	10.1% 216	7.1% 220	5.6% 108
6+	0.4% 31	2.4% 31	5.0% 346	9.6% 205	7.2% 225	3.3% 64
TOTAL	100% 6986	100% 1273	100% 6936	100% 2138	100% 3113	100% 1940

TOTAL TERMINAL-TRIPS FOR GAYLORD = 22387

MINOR

EXTERNAL ORIGIN-DESTINATION INTERVIEW
 TERMINAL-TRIP SUMMARY TABLE FOR GAYLORD

TRIP PURPOSE

VEH TYPE	WORK	PERS BIZ	SHOP	VACATION	SOC-REC	OTHER
CAR W/O TRLR	60.4% 4220	87.6% 1115	83.8% 5809	81.1% 1734	88.6% 2759	87.3% 1695
CAR W/ TRLR	0.2% 15	1.4% 18	4.3% 300	8.5% 182	3.1% 98	2.8% 55
PICK-UP W/O/TRLR	23.1% 1614	10.6% 135	9.0% 621	3.5% 74	5.7% 179	8.0% 155
PICK-UP W/ TRLR	0.5% 36	0.1% 2	0.5% 36	0.4% 9	0.4% 12	0.3% 6
SINGLE-UNIT TRUCKS	10.0% 696	0.2% 3	2.1% 146	6.0% 129	1.9% 59	1.3% 26
COMBINATION TRUCKS	5.8% 405	0.1% 1	0.3% 23	0.4% 9	0.2% 7	0.2% 4
TOTAL	100% 6986	100% 1273	100% 6936	100% 2138	100% 3113	100% 1940

TOTAL TERMINAL-TRIPS FOR GAYLORD = 22387

6FEB78

TRIP LENGTH FREQUENCY DISTRIBUTION-GAYLORD

PAGE 2

0	3	6	9	12	15	18	21	24	27	30	33	36	39	42	45	48	51	54	57	60	P.C.	CUM.	ACTUA	
10																						46.168	46.168	
20																						70.770	66.936	
30																						0.000	66.936	
40																						5.511	74.449	
50																						7.283	81.692	
60																						7.129	86.820	
70																						1.188	90.009	
80																						0.544	90.553	
90																						2.777	93.330	
100																						1.469	94.818	
110																						0.258	95.076	
120																						0.283	95.319	
130																						0.558	95.877	
140																						0.659	96.736	
150																						0.000	96.736	
160																						0.215	96.951	
170																						0.072	97.023	
180																						0.215	97.237	
190																						0.458	97.695	
200																						0.014	97.710	
210																						0.043	97.753	
220																						0.043	97.796	
230																						0.172	97.967	
240																						0.215	98.182	
250																						0.186	98.366	
260																						0.630	98.996	
270																						0.215	99.211	
280																						0.000	99.211	
290																						0.000	99.211	
300																						0.186	99.399	
310																						0.014	99.413	
320																						0.000	99.413	
330																						0.215	99.628	
340																						0.043	99.671	
350																						0.000	99.671	
360																						0.000	99.671	
370																						0.000	99.671	
380																						0.000	99.671	
390																						0.000	99.671	
400																						0.029	99.699	
410																						0.000	99.699	
420																						0.000	99.699	
430																						0.029	99.728	
440																						0.115	99.843	
450																						0.043	99.885	
460																						0.000	99.885	
470																						0.000	99.885	
480																						0.000	99.885	
490																						0.029	99.914	
500																						0.014	99.928	
510																						0.000	99.928	
520																						0.000	99.928	
530																						0.000	99.928	
540																						0.000	99.928	
550																						0.072	100.000	

REMAINING VALUES ARE ALL ZERO
 NUMBER OF OBSERVATIONS# 696 SUM# 225662 MEAN# 32.302 VAR# 2603.849 STD 51.01

TOTAL TRIPS OVER MAXP # 0
 TOTAL TRIPS OVER 255 # 0
 VOLUME TABLE NUMBER # 201
 BIN TREE NUMBER # 101

4FEB78 TRIP LENGTH FREQUENCY DISTRIBUTION-GAYLORD

TRIP LENGTH	FREQUENCY	P.C.	CUM.	ACTUAL
0	10	53.052	53.052	
3	20	21.987	75.039	
6	30	0.000	75.039	
9	40	4.440	79.479	
12	50	4.382	83.861	
15	60	4.069	87.930	
18	70	1.721	89.671	
21	80	1.174	90.845	
24	90	1.174	92.019	
27	100	1.174	93.192	
30	110	0.235	93.427	
33	120	0.078	93.505	
36	130	0.235	93.740	
39	140	0.235	93.975	
42	150	0.000	93.975	
45	160	0.000	93.975	
48	170	0.235	94.210	
51	180	0.156	94.366	
54	190	0.782	95.149	
57	200	0.235	95.383	
60	210	0.313	95.696	
63	220	0.000	95.696	
66	230	0.313	96.009	
69	240	0.548	96.557	
72	250	0.235	96.792	
75	260	0.313	97.105	
78	270	0.939	98.044	
81	280	0.136	98.200	
84	290	0.000	98.200	
87	300	0.704	98.905	
90	310	0.000	98.905	
93	320	0.156	99.061	
96	330	0.449	99.511	
99	340	0.000	99.511	
102	350	0.000	99.511	
105	360	0.000	99.511	
108	370	0.000	99.511	
111	380	0.000	99.511	
114	390	0.000	99.511	
117	400	0.000	99.511	
120	410	0.000	99.511	
123	420	0.000	99.511	
126	430	0.000	99.511	
129	440	0.000	99.511	
132	450	0.000	99.511	
135	460	0.000	99.511	
138	470	0.000	99.511	
141	480	0.000	99.511	
144	490	0.000	99.511	
147	500	0.000	99.511	
150	510	0.000	99.511	
153	520	0.000	99.511	
156	530	0.000	99.511	
159	540	0.000	99.511	
162	550	0.000	99.511	
165	560	0.000	99.511	
168	570	0.000	99.511	
171	580	0.000	99.511	
174	590	0.000	99.511	
177	600	0.000	99.511	
180	610	0.000	99.511	
183	620	0.000	99.511	
186	630	0.000	99.511	
189	640	0.000	99.511	
192	650	0.000	99.511	
195	660	0.000	99.511	
198	670	0.000	99.511	
201	680	0.469	100.000	

REMAINING VALUES ARE ALL ZERO

NUMBER OF OBSERVATIONS	1278	SUM	45419.	MEAN	35.539	VAR	9115.121	SD	71.52
------------------------	------	-----	--------	------	--------	-----	----------	----	-------

TOTAL TRIPS OVER MAXP * 0
 TOTAL TRIPS OVER 255 * 0
 VOLUME TABLE NUMBER * 202
 SKIM TREE NUMBER * 101

6FEB78

TRIP LENGTH FREQUENCY DISTRIBUTION-GAYLORD

PAGE 4

	0	3	6	9	12	15	18	21	24	27	30	33	36	39	42	45	48	51	54	57	60	P.C.	CUM.	ACTUA
10.....																						41.290	45.290	
20.....																						10.704	57.994	
30.....																						0.000	57.994	
40.....																						9.253	63.247	
50.....																						5.281	68.528	
60.....																						4.917	73.045	
70.....																						1.241	74.286	
80.....																						4.646	78.932	
90.....																						1.010	79.942	
100.....																						0.736	80.678	
110.....																						0.375	81.053	
120.....																						0.750	81.804	
130.....																						2.121	83.925	
140.....																						2.040	85.974	
150.....																						0.130	86.104	
160.....																						0.895	86.999	
170.....																						0.289	87.287	
180.....																						1.010	88.297	
190.....																						1.818	90.115	
200.....																						0.216	90.332	
210.....																						0.361	90.693	
220.....																						0.346	91.039	
230.....																						0.967	92.006	
240.....																						0.992	92.998	
250.....																						0.736	93.694	
260.....																						2.569	96.263	
270.....																						0.693	96.955	
280.....																						0.173	97.128	
290.....																						0.072	97.201	
300.....																						0.866	98.066	
310.....																						0.361	98.427	
320.....																						0.043	98.470	
330.....																						0.317	98.788	
340.....																						0.043	98.831	
350.....																						0.000	98.831	
360.....																						0.043	98.874	
370.....																						0.000	98.874	
380.....																						0.000	98.874	
390.....																						0.159	99.033	
400.....																						0.000	99.033	
410.....																						0.000	99.033	
420.....																						0.000	99.033	
430.....																						0.029	99.062	
440.....																						0.115	99.177	
450.....																						0.130	99.307	
460.....																						0.072	99.380	
470.....																						0.000	99.380	
480.....																						0.000	99.380	
490.....																						0.115	99.495	
500.....																						0.144	99.639	
510.....																						0.000	99.639	
520.....																						0.144	99.784	
530.....																						0.000	99.784	
540.....																						0.000	99.784	
550.....																						0.115	99.899	
560.....																						0.014	99.913	
570.....																						0.800	99.913	
580.....																						0.029	99.942	
590.....																						0.000	99.942	
600.....																						0.000	99.942	
610.....																						0.000	99.942	
620.....																						0.063	99.986	
630.....																						0.000	99.986	
640.....																						0.000	99.986	
650.....																						0.000	99.986	
660.....																						0.000	99.986	
670.....																						0.000	99.986	
680.....																						0.000	99.986	
690.....																						0.000	99.986	
700.....																						0.000	99.986	
710.....																						0.000	99.986	
720.....																						0.000	99.986	
730.....																						0.000	99.986	
740.....																						0.000	99.986	
750.....																						0.014	100.000	

REMAINING VALUES ARE ALL ZERO
 NUMBER OF OBSERVATIONS: 6930 SUM: 419376 MEAN: 59.939 VAR: 7741.045 SD: 87.9

TOTAL TRIPS OVER MAXP = 1
 TOTAL TRIPS OVER 255 = 0
 VOLUME TABLE NUMBER = 203
 BIN TREE NUMBER = 101

6FEB78

TRIP LENGTH FREQUENCY DISTRIBUTION-GAYLORD

PAGE 5

TRIP LENGTH	FREQUENCY	P.C.	CUM.	ACTUAL
0	11,903	11.903		
10	3,421	15.323		
20	0,000	15.323		
30	2,905	18.229		
40	5,061	23.290		
50	2,577	25.867		
60	1,087	27.554		
70	18,088	45.642		
80	1,968	47.610		
90	2,109	49.719		
100	0,562	50.281		
110	0,515	50.797		
120	4,499	55.295		
130	2,109	57.404		
140	0,141	57.545		
150	5,295	62.840		
160	0,843	63.683		
170	3,233	66.917		
180	2,718	69.634		
190	0,609	70.244		
200	0,750	70.993		
210	0,750	71.743		
220	2,249	73.993		
230	1,821	75.814		
240	1,031	76.845		
250	6,484	83.329		
260	1,172	84.501		
270	0,843	85.344		
280	0,000	85.344		
290	3,046	88.390		
300	0,703	89.093		
310	0,047	89.140		
320	2,858	92.000		
330	0,281	92.281		
340	0,000	92.281		
350	0,141	92.422		
360	0,094	92.516		
370	0,094	92.610		
380	1,078	93.688		
390	0,047	93.735		
400	0,000	93.735		
410	0,094	93.829		
420	0,141	93.970		
430	0,469	94.439		
440	0,562	95.001		
450	0,187	95.188		
460	0,000	95.188		
470	0,000	95.188		
480	0,890	96.078		
490	0,890	96.968		
500	0,000	96.968		
510	0,000	96.968		
520	0,375	97.343		
530	0,000	97.343		
540	0,000	97.343		
550	0,187	97.530		
560	0,234	97.764		
570	0,000	97.764		
580	0,000	97.764		
590	0,000	97.764		
600	0,000	97.764		
610	0,000	97.764		
620	0,047	97.811		
630	0,000	97.811		
640	0,000	97.811		
650	0,000	97.811		
660	0,000	97.811		
670	1,734	100.000		

REMAINING VALUES ARE ALL ZERO
NUMBER OF OBSERVATIONS= 2136 SUM= 326475 MEAN= 152,987 VAR= 19144,348 SD= 138,36

TOTAL TRIPS OVER MAXP = 0
TOTAL TRIPS OVER 255 = 0
VOLUME TABLE NUMBER = 204
KIM TREE NUMBER = 101

6PEB78 TRIP LENGTH FREQUENCY DISTRIBUTION-GAYLORD

TRIP LENGTH	FREQ	P.C.	CUM.	ACTUAL
0	10	10.504	10.504	10
2	20	13.883	24.387	20
4	30	0.000	24.387	30
6	40	5.098	29.485	40
8	50	6.829	36.314	50
10	60	3.783	40.097	60
12	70	2.084	42.181	70
14	80	6.348	48.529	80
16	90	2.308	50.837	90
18	100	1.539	52.376	100
20	110	0.545	52.921	110
22	120	0.417	53.338	120
24	130	4.681	58.019	130
26	140	2.789	60.808	140
28	150	0.064	60.872	150
30	160	1.483	62.355	160
32	170	0.545	62.900	170
34	180	0.545	63.445	180
36	190	1.050	64.495	190
38	200	1.411	65.906	200
40	210	0.545	66.451	210
42	220	0.321	66.772	220
44	230	0.513	67.285	230
46	240	0.898	68.183	240
48	250	1.090	69.273	250
50	260	0.417	69.690	260
52	270	2.501	72.191	270
54	280	0.868	73.059	280
56	290	0.192	73.251	290
58	300	0.000	73.251	300
60	310	1.028	74.279	310
62	320	0.258	74.537	320
64	330	0.160	74.697	330
66	340	0.545	75.242	340
68	350	0.000	75.242	350
70	360	0.000	75.242	360
72	370	0.000	75.242	370
74	380	0.000	75.242	380
76	390	0.000	75.242	390
78	400	0.094	75.336	400
80	410	0.160	75.496	410
82	420	0.000	75.496	420
84	430	0.094	75.590	430
86	440	0.064	75.654	440
88	450	0.064	75.718	450
90	460	0.000	75.718	460
92	470	0.000	75.718	470
94	480	0.000	75.718	480
96	490	0.128	75.846	490
98	500	0.289	76.135	500
100	510	0.000	76.135	510
102	520	0.000	76.135	520
104	530	0.000	76.135	530
106	540	0.000	76.135	540
108	550	0.064	76.199	550
110	560	0.000	76.199	560
112	570	0.000	76.199	570
114	580	0.000	76.199	580
116	590	0.000	76.199	590
118	600	0.000	76.199	600
120	610	0.000	76.199	610
122	620	0.000	76.199	620
124	630	0.000	76.199	630
126	640	0.000	76.199	640
128	650	0.000	76.199	650
130	660	0.000	76.199	660
132	670	0.094	76.293	670
134	680	0.000	76.293	680
136	690	0.000	76.293	690
138	700	0.000	76.293	700
140	710	0.000	76.293	710
142	720	0.000	76.293	720
144	730	0.000	76.293	730
146	740	0.000	76.293	740
148	750	0.064	76.357	750

REMAINING VALUES ARE ALL ZERO
 NUMBER OF OBSERVATIONS = 3119 SUM = 217480 MEAN = 69.727 VAR = 8168.919 SD = 90.3

TOTAL TRIPS OVER MAXP = 2
 TOTAL TRIPS OVER 255 = 0
 VOLUME TABLE NUMBER = 205
 KIM TREE NUMBER = 101

6FEB76

TRIP LENGTH FREQUENCY DISTRIBUTION-GAYLORD

	0	3	6	9	12	15	18	21	24	27	30	33	36	39	42	45	48	51	54	57	60	P.C.	CUM.	ACTU	
10.....																							43.373	43.373	
20.....																							16.039	59.412	
30.....																							0.000	59.412	
40.....																							4.590	64.002	
50.....																							4.846	68.850	
60.....																							1.485	72.335	
70.....																							2.218	74.553	
80.....																							3.507	78.060	
90.....																							1.289	79.349	
100.....																							0.980	80.299	
110.....																							0.155	80.454	
120.....																							0.774	81.227	
130.....																							2.579	83.806	
140.....																							2.114	85.921	
150.....																							0.000	85.921	
160.....																							0.877	86.797	
170.....																							0.361	87.158	
180.....																							1.186	88.345	
190.....																							1.289	89.634	
200.....																							0.103	89.737	
210.....																							0.464	90.201	
220.....																							0.619	90.820	
230.....																							1.341	92.161	
240.....																							1.341	93.502	
250.....																							0.722	94.224	
260.....																							2.011	96.235	
270.....																							0.361	96.596	
280.....																							0.000	96.596	
290.....																							0.000	96.596	
300.....																							0.361	96.957	
310.....																							0.103	97.060	
320.....																							0.103	97.163	
330.....																							1.083	98.247	
340.....																							0.000	98.247	
350.....																							0.000	98.247	
360.....																							0.000	98.247	
370.....																							0.000	98.247	
380.....																							0.103	98.350	
390.....																							0.000	98.350	
400.....																							0.000	98.350	
410.....																							0.309	98.659	
420.....																							0.103	98.762	
430.....																							0.000	98.762	
440.....																							0.000	98.762	
450.....																							0.206	98.968	
460.....																							0.000	98.968	
470.....																							0.000	98.968	
480.....																							0.103	99.072	
490.....																							0.000	99.072	
500.....																							0.361	99.433	
510.....																							0.000	99.433	
520.....																							0.103	99.536	
530.....																							0.000	99.536	
540.....																							0.000	99.536	
550.....																							0.000	99.536	
560.....																							0.000	99.536	
570.....																							0.052	99.587	
580.....																							0.000	99.587	
590.....																							0.000	99.587	
600.....																							0.000	99.587	
610.....																							0.000	99.587	
620.....																							0.103	99.691	
630.....																							0.000	99.691	
640.....																							0.000	99.691	
650.....																							0.000	99.691	
660.....																							0.000	99.691	
670.....																							0.309	100.000	

REMAINING VALUES ARE ALL ZERO
NUMBER OF OBSERVATIONS 1939

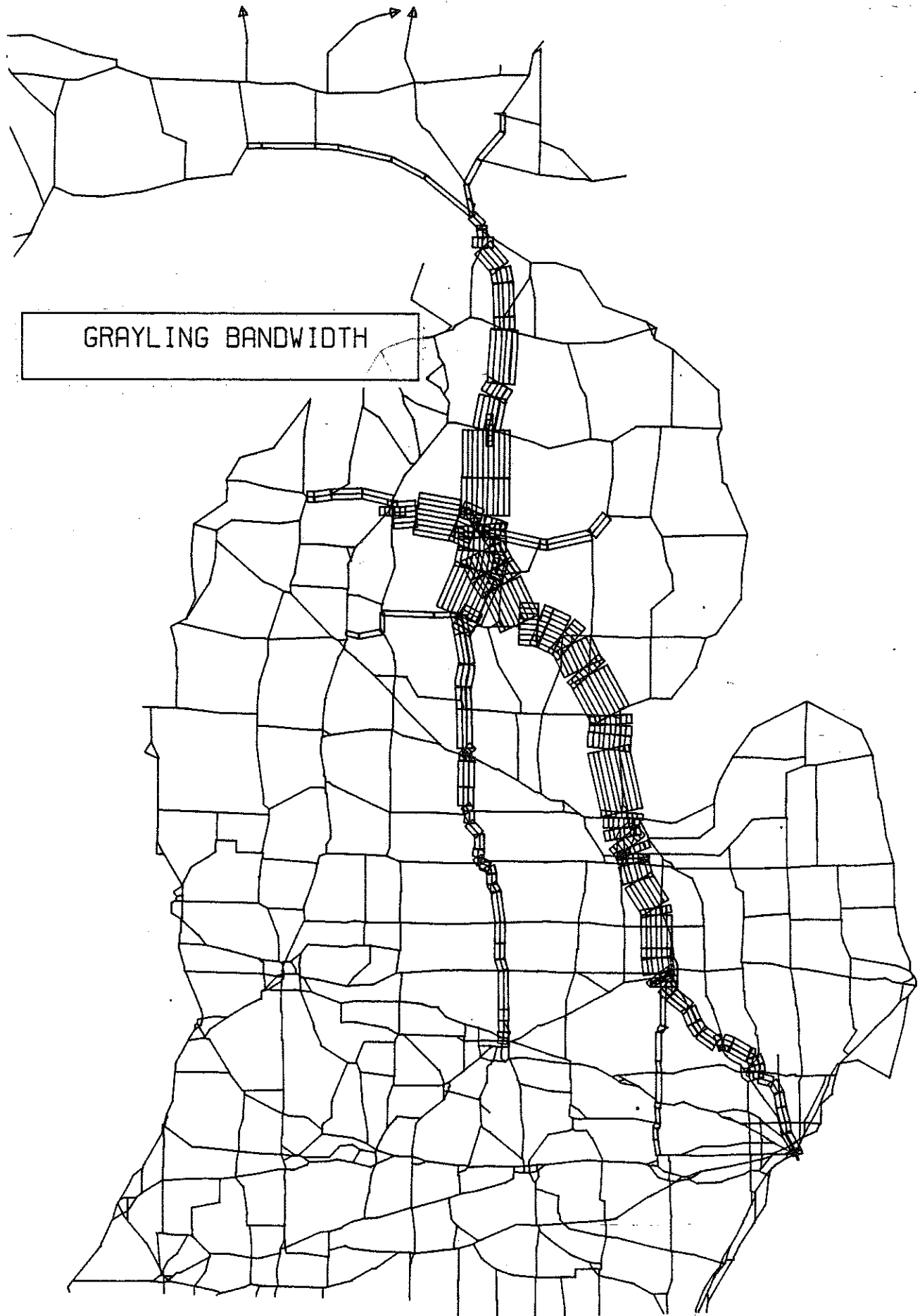
SUM= 120279, MEAN= 62.031, VAR= 9222.290, SD= 96.0

TOTAL TRIPS OVER MAXP = 0
TOTAL TRIPS OVER 255 = 0
OLUME TABLE NUMBER = 206
KIM TREE NUMBER = 101

6FEB78 TRIP LENGTH FREQUENCY DISTRIBUTION-GAYLORD

0	3	6	9	12	15	18	21	24	27	30	33	36	39	42	45	48	51	54	57	60	P.C.	CUM.	ACTUAL	
10																						41.173	41.173	
20																						15.939	57.112	
30																						0.000	57.112	
40																						4.985	62.097	
50																						5.999	68.096	
60																						4.927	73.023	
70																						1.498	74.520	
80																						4.588	79.107	
90																						1.867	80.975	
100																						1.240	82.234	
110																						0.353	82.587	
120																						0.487	83.074	
130																						2.149	85.223	
140																						1.689	86.911	
150																						0.063	86.974	
160																						1.126	88.100	
170																						0.313	88.412	
180																						0.947	89.359	
190																						1.318	90.677	
200																						0.228	90.905	
210																						0.299	91.204	
220																						0.317	91.521	
230																						0.826	92.348	
240																						0.844	93.192	
250																						0.518	93.710	
260																						2.167	95.877	
270																						0.599	96.475	
280																						0.170	96.645	
290																						0.022	96.668	
300																						0.031	97.498	
310																						0.228	97.726	
320																						0.058	97.784	
330																						0.034	98.419	
340																						0.054	98.472	
350																						0.000	98.472	
360																						0.027	98.499	
370																						0.009	98.508	
380																						0.174	98.681	
390																						0.038	98.727	
400																						0.000	98.727	
410																						0.049	98.776	
420																						0.049	98.825	
430																						0.125	98.950	
440																						0.134	99.084	
450																						0.040	99.124	
460																						0.009	99.124	
470																						0.009	99.133	
480																						0.147	99.281	
490																						0.205	99.486	
500																						0.000	99.486	
510																						0.989	99.576	
520																						0.000	99.576	
530																						0.000	99.576	
540																						0.085	99.661	
550																						0.022	99.683	
560																						0.036	99.719	
570																						0.009	99.728	
580																						0.000	99.728	
590																						0.000	99.728	
600																						0.000	99.728	
610																						0.000	99.728	
620																						0.027	99.754	
630																						0.000	99.754	
640																						0.000	99.754	
650																						0.000	99.754	
660																						0.000	99.754	
670																						0.232	99.987	
680																						0.000	99.987	
690																						0.000	99.987	
700																						0.000	99.987	
710																						0.000	99.987	
720																						0.000	99.987	
730																						0.000	99.987	
740																						0.000	99.987	
750																						0.013	100.000	

REMAINING VALUES ARE ALL ZERO
 NUMBER OF OBSERVATIONS = 22366 SUM = 1350491 MEAN = 60.336 VAR = 8374.194 SD = 91.5
 TOTAL TRIPS OVER MAXP * 3
 TOTAL TRIPS OVER 255 * 0
 COLUMN TABLE NUMBER * 207
 KIM TREE NUMBER * 101



GRAYLING BANDWIDTH

GRAYLING

EXTERNAL ORIGIN-DESTINATION INTERVIEW

TERMINAL-TRIP SUMMARY TABLE

VEHICLE TYPE

CAR W/O TRLR	CAR W/ TRLR	PICK-UP W/O/TRLR	PICK-UP W/ TRLR	SINGLE-UNIT TRUCKS	COMBINATION TRUCKS
77.0% 11010	1.6% 234	12.3% 1765	0.4% 59	7.6% 1083	1.1% 152

TRIP PURPOSE

WORK	PERS BIZ	SHOP	VACATION	SOC=REC	OTHER
35.5% 5083	8.6% 1237	24.4% 3494	7.3% 1038	14.8% 2117	9.3% 1333

NUMBER IN VEHICLE

1	2	3	4	5	6+
46.3% 6617	29.2% 4172	10.9% 1553	7.6% 1080	2.9% 419	3.2% 461

VEHICLE GARAGED AT

ORIGIN	DESTIN	OTHER
38.4% 5497	29.0% 4152	32.5% 4654

TOTAL TRIPS = 14303

MINOR

EXTERNAL ORIGIN-DESTINATION INTERVIEW
 TERMINAL-TRIP SUMMARY TABLE FOR GRAYLING

TRIP PURPOSE

# IN VEH.	WORK	PERS BIZ	SHCP	VACATION	SOC-REC	OTHER
1	70.3% 3574	50.7% 627	34.8% 1215	8.6% 90	31.4% 665	33.5% 446
2	21.3% 1082	28.6% 354	33.3% 1165	37.9% 393	33.5% 709	35.3% 471
3	5.6% 284	9.3% 115	14.4% 503	15.1% 157	14.2% 300	14.5% 194
4	1.7% 84	7.6% 95	9.9% 346	19.2% 200	11.0% 232	9.3% 124
5	0.7% 35	2.6% 32	3.6% 125	7.9% 82	4.7% 99	3.4% 45
6+	0.5% 25	1.2% 14	4.0% 141	11.2% 117	5.3% 112	4.0% 53
TOTAL	100% 5083	100% 1237	100% 3494	100% 1038	100% 2117	100% 1333

TOTAL TERMINAL-TRIPS FOR GRAYLING = 14303

MINOR

EXTERNAL ORIGIN-DESTINATION INTERVIEW
 TERMINAL-TRIP SUMMARY TABLE FOR GRAYLING

TRIP PURPOSE

VEH TYPE	WORK	PERS BIZ	SHOP	VACATION	SOC-REC	OTHER
CAR W/O TRLR	60.8% 3089	84.9% 1051	86.8% 3032	73.7% 765	88.9% 1883	89.3% 1190
CAR W/ TRLR	0.3% 14	1.1% 14	1.6% 56	11.6% 121	1.1% 24	0.4% 6
PICK-UP W/O/TRLR	20.2% 1027	10.9% 135	7.7% 270	6.6% 68	7.4% 157	8.1% 108
PICK-UP W/ TRLR	0.4% 18	0.2% 3	0.3% 12	1.6% 17	0.3% 7	0.2% 2
SINGLE-UNIT TRUCKS	15.8% 801	2.6% 32	3.4% 118	5.7% 59	2.2% 46	2.0% 27
COMBINATION TRUCKS	2.6% 134	0.3% 3	0.2% 6	0.8% 9	0.0% 0	0.0% 0
TOTAL	100% 5083	100% 1237	100% 3494	100% 1038	100% 2117	100% 1333

TOTAL TERMINAL-TRIPS FOR GRAYLING = 14303

6PE678 TRIP LENGTH FREQUENCY DISTRIBUTION-GRAYLING

	P.C.	CUM.	ACTUAL
0			
4			
8			
12			
16			
20			
24			
28			
32			
36			
40			
44			
48			
52			
56			
60			
64			
68			
72			
76			
80			
10	0.003	08,893	
20	0.000	08,893	
30	0.008	78,301	
40	11.234	85,537	
50	0.275	85,813	
60	0.551	86,364	
70	3.286	89,650	
80	1.673	91,322	
90	1.545	92,877	
100	0.275	93,152	
110	0.984	94,136	
120	0.767	94,904	
130	0.453	95,356	
140	0.177	95,533	
150	0.177	95,710	
160	1.338	97,048	
170	0.157	97,206	
180	0.098	97,304	
190	0.138	97,442	
200	0.216	97,658	
210	0.118	97,776	
220	0.079	97,855	
230	1.853	99,508	
240	0.039	99,547	
250	0.000	99,547	
260	0.039	99,587	
270	0.000	99,587	
280	0.039	99,626	
290	0.059	99,685	
300	0.018	99,725	
310	0.039	99,764	
320	0.079	99,843	
330	0.000	99,843	
340	0.000	99,843	
350	0.000	99,843	
360	0.000	99,843	
370	0.000	99,843	
380	0.000	99,843	
390	0.000	99,843	
400	0.000	99,843	
410	0.000	99,843	
420	0.000	99,843	
430	0.039	99,882	
440	0.000	99,882	
450	0.000	99,882	
460	0.000	99,882	
470	0.000	99,882	
480	0.039	99,921	
490	0.000	99,921	
500	0.000	99,921	
510	0.000	99,921	
520	0.079	100,000	

REMAINING VALUES ARE ALL ZERO

NUMBER OF OBSERVATIONS*	5082	SUM*	150412,	MEAN*	29,597	VAR*	2210,710	SD*	47,0
-------------------------	------	------	---------	-------	--------	------	----------	-----	------

TOTAL TRIPS OVER MAXP * 0
TOTAL TRIPS OVER 255 * 0
VOLUME TABLE NUMBER * 201
SKIM TREE NUMBER * 101

6PE078 TRIP LENGTH FREQUENCY DISTRIBUTION=GRAYLING

	0	4	8	12	16	20	24	28	32	36	40	44	48	52	56	60	64	68	72	76	80	P.C.	CUM.	ACTUAL	
10.....																							72.249	72.249	
20.....																							0.000	72.249	
30.....																							5.421	77.670	
40.....																							8.981	86.650	
50.....																							0.447	87.097	
60.....																							0.405	87.502	
70.....																							4.045	91.547	
80.....																							1.052	92.599	
90.....																							0.728	93.327	
100.....																							0.081	93.408	
110.....																							0.366	93.774	
120.....																							0.690	94.464	
130.....																							0.081	94.545	
140.....																							0.324	94.869	
150.....																							0.162	95.031	
160.....																							1.133	96.164	
170.....																							0.000	96.164	
180.....																							0.243	96.407	
190.....																							0.405	96.812	
200.....																							0.243	97.055	
210.....																							0.081	97.136	
220.....																							0.162	97.298	
230.....																							0.971	98.269	
240.....																							0.000	98.269	
250.....																							0.000	98.269	
260.....																							0.000	98.269	
270.....																							0.000	98.269	
280.....																							4.162	99.029	
290.....																							0.081	99.110	
300.....																							0.000	99.110	
310.....																							0.000	99.110	
320.....																							0.324	99.434	
330.....																							0.000	99.434	
340.....																							0.000	99.434	
350.....																							0.000	99.434	
360.....																							0.000	99.434	
370.....																							0.000	99.434	
380.....																							0.000	99.434	
390.....																							0.000	99.434	
400.....																							0.000	99.434	
410.....																							0.000	99.434	
420.....																							0.000	99.434	
430.....																							0.000	99.434	
440.....																							0.000	99.434	
450.....																							0.000	99.434	
460.....																							0.162	99.596	
470.....																							0.000	99.596	
480.....																							0.000	99.596	
490.....																							0.000	99.596	
500.....																							0.000	99.596	
510.....																							0.000	99.596	
520.....																							0.324	99.920	
530.....																							0.081100	100.000	
REMAINING VALUES ARE ALL ZERO																									
NUMBER OF OBSERVATIONS	1236																								
SUM		36384																							
MEAN			29.437																						
VAR				3077.967																					
					80	55.47																			
TOTAL TRIPS OVER MAXP	=	0																							
TOTAL TRIPS OVER 255	=	0																							
VOLUME TABLE NUMBER	=	202																							
SKIN TREE NUMBER	=	101																							

6PEB76

TRIP LENGTH FREQUENCY DISTRIBUTION-GRAYLING

PAGE 4

0	4	8	12	16	20	24	28	32	36	40	44	48	52	56	60	64	68	72	76	80	P.C.	CUM.	ACTUA	
10																						88.070	88.070	
20																						0.000	88.070	
30																						5.584	93.654	
40																						9.851	93.505	
50																						0.372	83.677	
60																						0.172	84.049	
70																						2.176	86.226	
80																						0.687	86.913	
90																						1.344	88.259	
100																						0.057	88.316	
110																						1.404	89.720	
120																						0.372	90.292	
130																						0.086	90.378	
140																						0.372	90.750	
150																						0.172	90.922	
160																						1.804	92.726	
170																						0.172	92.898	
180																						0.344	93.242	
190																						0.258	93.499	
200																						0.401	94.101	
210																						0.830	94.931	
220																						0.258	95.189	
230																						2.492	97.681	
240																						0.200	98.081	
250																						0.097	98.139	
260																						0.086	98.225	
270																						0.057	98.282	
280																						0.143	98.425	
290																						0.057	98.482	
300																						0.115	98.597	
310																						0.315	98.912	
320																						0.258	99.170	
330																						0.057	99.227	
340																						0.000	99.227	
350																						0.097	99.284	
360																						0.000	99.284	
370																						0.288	99.742	
380																						0.000	99.742	
390																						0.000	99.742	
400																						0.000	99.742	
410																						0.000	99.742	
420																						0.000	99.742	
430																						0.000	99.742	
440																						0.000	99.742	
450																						0.000	99.742	
460																						0.143	99.885	
470																						0.000	99.885	
480																						0.000	99.885	
490																						0.000	99.885	
500																						0.000	99.885	
510																						0.000	99.885	
520																						0.029	99.914	
530																						0.086	100.000	

REMAINING VALUES ARE ALL ZERO
 NUMBER OF OBSERVATIONS= 3492

SUM= 134794, MEAN= 38.601, VAR= 4445.338, SD= 66.6

TOTAL TRIPS OVER MAXP = 0
 TOTAL TRIPS OVER 255 = 0
 VOLUME TABLE NUMBER = 203
 KIM TREE NUMBER = 101

0FEB76 TRIP LENGTH FREQUENCY DISTRIBUTION-GRAYLING

TRIP LENGTH	FREQUENCY	P.C.	CUM.	ACTU
10	24	2.4	24	24
20	0	0.0	24	24
30	27	2.7	51	51
40	6	0.6	57	57
50	0	0.0	57	57
60	37	3.7	94	94
70	42	4.2	136	136
80	45	4.5	181	181
90	2	0.2	183	183
100	47	4.7	230	230
110	59	5.9	289	289
120	1	0.1	290	290
130	0	0.0	290	290
140	62	6.2	352	352
150	0	0.0	352	352
160	63	6.3	415	415
170	7	0.7	422	422
180	72	7.2	494	494
190	73	7.3	567	567
200	75	7.5	642	642
210	76	7.6	718	718
220	79	7.9	797	797
230	0	0.0	797	797
240	85	8.5	882	882
250	1	0.1	883	883
260	0	0.0	883	883
270	86	8.6	969	969
280	0	0.0	969	969
290	89	8.9	1058	1058
300	91	9.1	1149	1149
310	92	9.2	1241	1241
320	92	9.2	1333	1333
330	95	9.5	1428	1428
340	0	0.0	1428	1428
350	95	9.5	1523	1523
360	0	0.0	1523	1523
370	96	9.6	1619	1619
380	0	0.0	1619	1619
390	96	9.6	1715	1715
400	0	0.0	1715	1715
410	96	9.6	1811	1811
420	0	0.0	1811	1811
430	97	9.7	1908	1908
440	0	0.0	1908	1908
450	97	9.7	2005	2005
460	0	0.0	2005	2005
470	97	9.7	2102	2102
480	0	0.0	2102	2102
490	97	9.7	2200	2200
500	0	0.0	2200	2200
510	97	9.7	2300	2300
520	0	0.0	2300	2300
530	98	9.8	2400	2400
540	0	0.0	2400	2400
550	98	9.8	2500	2500
560	0	0.0	2500	2500
570	99	9.9	2600	2600
580	0	0.0	2600	2600
590	99	9.9	2700	2700
600	0	0.0	2700	2700
610	99	9.9	2800	2800
620	0	0.0	2800	2800
630	99	9.9	2900	2900
640	0	0.0	2900	2900
650	99	9.9	3000	3000
660	0	0.0	3000	3000
670	99	9.9	3100	3100
680	0	0.0	3100	3100
690	99	9.9	3200	3200
700	0	0.0	3200	3200

REMAINING VALUES ARE ALL ZERO
 NUMBER OF OBSERVATIONS* 1040 SUM* 126696 MEAN* 121.823 VAR* 14066.494 SD* 118.
 TOTAL TRIPS OVER MAXP = 0
 TOTAL TRIPS OVER 255 = 0
 VOLUME TABLE NUMBER = 204
 JKIM TREE NUMBER = 101

4FEB78 TRIP LENGTH FREQUENCY DISTRIBUTION-GRAYLING

	0	4	8	12	16	20	24	28	32	36	40	44	48	52	56	60	64	68	72	76	80	P.C.	CUM.	ACTU
10.....																						66.368	66.368	
20.....																						0.000	66.368	
30.....																						4.386	70.754	
40.....																						9.582	80.336	
50.....																						0.283	80.619	
60.....																						0.283	80.902	
70.....																						3.185	84.087	
80.....																						1.086	85.173	
90.....																						2.220	87.393	
100.....																						0.189	87.582	
110.....																						1.275	88.857	
120.....																						0.992	89.850	
130.....																						0.472	90.322	
140.....																						0.000	90.322	
150.....																						0.236	90.558	
160.....																						2.443	93.001	
170.....																						0.098	93.099	
180.....																						0.331	93.430	
190.....																						0.756	94.186	
200.....																						0.425	94.611	
210.....																						1.370	95.981	
220.....																						0.425	96.406	
230.....																						2.456	98.862	
240.....																						0.189	99.051	
250.....																						0.098	99.149	
260.....																						3.000	99.149	
270.....																						0.000	99.149	
280.....																						0.142	99.291	
290.....																						0.000	99.291	
300.....																						0.000	99.291	
310.....																						0.099	99.390	
320.....																						0.047	99.437	
330.....																						0.000	99.437	
340.....																						0.047	99.484	
350.....																						0.000	99.484	
360.....																						0.000	99.484	
370.....																						0.189	99.673	
380.....																						0.000	99.673	
390.....																						0.000	99.673	
400.....																						0.000	99.673	
410.....																						0.000	99.673	
420.....																						0.000	99.673	
430.....																						0.000	99.673	
440.....																						0.000	99.673	
450.....																						0.000	99.673	
460.....																						0.000	99.673	
470.....																						0.000	99.673	
480.....																						0.099	99.772	
490.....																						0.142	100.000	

REMAINING VALUES ARE ALL ZERO
 NUMBER OF OBSERVATIONS= 2117 SUM= 83803 MEAN= 39.586 VAR= 3992.067 SD= 62.7

TOTAL TRIPS OVER MAXP = 0
 TOTAL TRIPS OVER 255 = 0
 VOLUME TABLE NUMBER = 205
 KIM TREE NUMBER = 101

6FEB78 TRIP LENGTH FREQUENCY DISTRIBUTION-GRAYLING

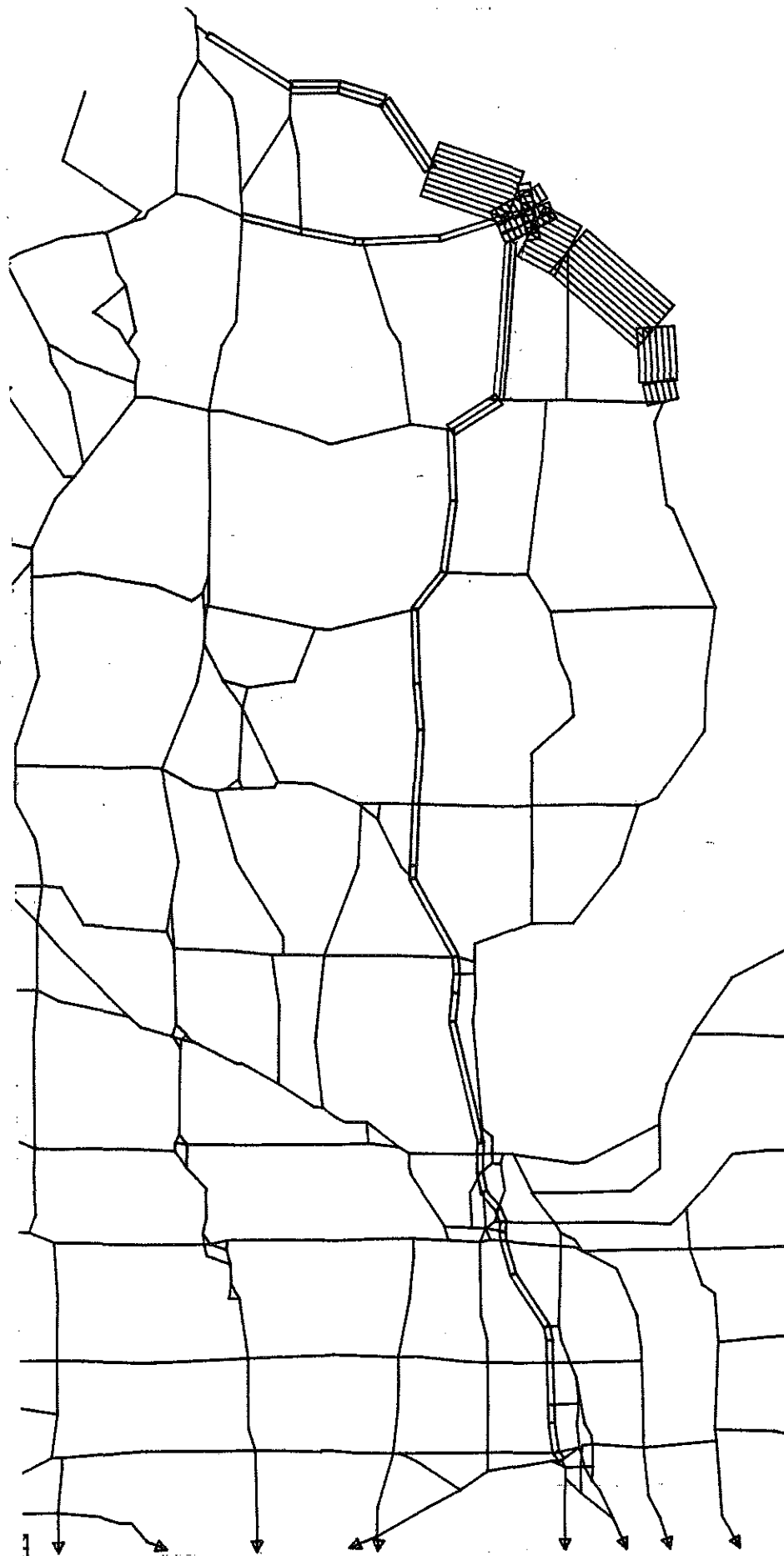
TRIP LENGTH	FREQUENCY	P.C.	CUM.	ACTUAL
0				
4				
8				
12				
16				
20				
24				
28				
32				
36				
40				
44				
48				
52				
56				
60				
64				
68				
72				
76				
80				
10		70.579	70.579	
20		0.000	70.579	
30		5.843	76.423	
40		7.976	84.399	
50		0.677	85.076	
60		0.226	85.302	
70		2.784	88.086	
80		0.978	89.064	
90		2.032	91.095	
100		0.000	91.095	
110		1.279	92.375	
120		0.451	92.826	
130		0.075	92.901	
140		0.000	92.901	
150		0.903	93.804	
160		0.828	94.632	
170		0.075	94.707	
180		0.000	94.707	
190		0.903	95.610	
200		0.451	96.062	
210		0.752	96.814	
220		0.150	96.964	
230		1.430	98.394	
240		0.000	98.394	
250		0.150	98.544	
260		0.000	98.544	
270		0.375	98.919	
280		0.226	99.145	
290		0.000	99.145	
300		0.150	99.295	
310		0.150	99.445	
320		0.075	99.520	
330		0.000	99.520	
340		0.000	99.520	
350		0.000	99.520	
360		0.000	99.520	
370		0.000	99.520	
380		0.000	99.520	
390		0.000	99.520	
400		0.000	99.520	
410		0.000	99.520	
420		0.000	99.520	
430		0.000	99.520	
440		0.000	99.520	
450		0.000	99.520	
460		0.000	99.520	
470		0.150	99.670	
480		0.150	99.820	
490		0.150	99.970	
500		0.000	99.970	
510		0.075	100.045	
520		0.000	100.045	
530		0.075	100.120	
540		0.000	100.120	
550		0.000	100.120	
560		0.000	100.120	
570		0.000	100.120	
580		0.000	100.120	
590		0.000	100.120	
600		0.000	100.120	
610		0.000	100.120	
620		0.000	100.120	
630		0.000	100.120	
640		0.000	100.120	
650		0.000	100.120	
660		0.000	100.120	
670		0.000	100.120	
680		0.000	100.120	
690		0.000	100.120	
700		0.075	100.195	

REMAINING VALUES ARE ALL ZERO
 NUMBER OF OBSERVATIONS 1329 SUM= 46182 MEAN= 34.749 VAR= 4165.160 SD= 64.6

TOTAL TRIPS OVER MAXP 0
 TOTAL TRIPS OVER 255 0
 OLUME TABLE NUMBER 206
 KIM TREE NUMBER 101

0PES78 TRIP LENGTH FREQUENCY DISTRIBUTION=GRAYLING

TRIP LENGTH	FREQ	P.C.	CUM.	ACTUAL
0				
4				
8				
12				
16				
20				
24				
28				
32				
36				
40				
44				
48				
52				
56				
60				
64				
68				
72				
76				
80				
10		0.480	65.480	
20		0.000	65.480	
30		5.197	70.677	
40		9.975	80.652	
50		0.413	81.065	
60		0.350	81.414	
70		3.183	84.597	
80		1.266	85.863	
90		1.009	87.472	
100		0.203	87.675	
110		1.752	89.426	
120		0.734	90.161	
130		0.280	90.441	
140		0.287	90.728	
150		0.308	91.035	
160		2.036	93.071	
170		0.217	93.288	
180		0.217	93.505	
190		0.539	94.043	
200		0.434	94.477	
210		0.741	95.218	
220		0.224	95.442	
230		2.203	97.646	
240		0.175	97.820	
250		0.105	97.925	
260		0.070	97.995	
270		0.189	98.184	
280		0.181	98.365	
290		0.091	98.456	
300		0.112	98.568	
310		0.259	98.827	
320		0.189	99.016	
330		0.014	99.030	
340		0.021	99.051	
350		0.084	99.135	
360		0.000	99.135	
370		0.189	99.324	
380		0.000	99.324	
390		0.000	99.324	
400		0.000	99.324	
410		0.000	99.324	
420		0.000	99.324	
430		0.035	99.359	
440		0.014	99.373	
450		0.000	99.373	
460		0.000	99.373	
470		0.077	99.450	
480		0.014	99.464	
490		0.036	99.500	
500		0.035	99.535	
510		0.000	99.535	
520		0.007	99.542	
530		0.126	99.668	
540		0.049	99.717	
550		0.000	99.717	
560		0.021	99.738	
570		0.000	99.738	
580		0.000	99.738	
590		0.028	99.766	
600		0.000	99.766	
610		0.000	99.766	
620		0.000	99.766	
630		0.000	99.766	
640		0.000	99.766	
650		0.000	99.766	
660		0.000	99.766	
670		0.000	99.766	
680		0.000	99.766	
690		0.000	99.766	
700		0.035	100.000	
REMAINING VALUES ARE ALL ZERO				
TOTAL TRIPS OVER MAXP	=	0		
TOTAL TRIPS OVER 255	=	0		
VOLUME TABLE NUMBER	=	207		
KIM TREE NUMBER	=	101		
SUM		576271.		
MEANS		40.450		
VAR		4666.052		
SD		68.30		



ROGERS CITY BANDWIDTH

ROGERS CITY

EXTERNAL ORIGIN=DESTINATION INTERVIEW

TERMINAL=TRIP SUMMARY TABLE

VEHICLE TYPE

CAR W/O TRLR	CAR W/ TRLR	PICK-UP W/O/TRLR	PICK-UP W/ TRLR	SINGLE-UNIT TRUCKS	COMBINATION TRUCKS
81.5% 5007	1.0% 63	13.4% 825	0.2% 15	2.7% 165	1.1% 67

TRIP PURPOSE

WORK	PERS BIZ	SHOP	VACATION	SOC=REC	OTHER
34.5% 2116	7.5% 460	21.0% 1290	6.5% 398	22.8% 1397	7.8% 480

NUMBER IN VEHICLE

1	2	3	4	5	6+
47.7% 2927	26.9% 1653	11.1% 679	8.1% 498	3.1% 190	3.1% 193

VEHICLE GARAGED AT

ORIGIN	DESTIN	OTHER
46.0% 2825	30.1% 1850	23.9% 1467

TOTAL TRIPS = 6141

MINOR

EXTERNAL ORIGIN-DESTINATION INTERVIEW
 TERMINAL-TRIP SUMMARY TABLE FOR ROGERS CITY

TRIP PURPOSE

# IN VEH.	WORK	PERS BIZ	SHOP	VACATION	SOC-REC	OTHER
1	75.7% 1601	47.2% 217	35.5% 458	7.2% 29	31.5% 440	38.1% 182
2	16.3% 345	29.9% 137	31.8% 410	33.8% 134	33.3% 466	33.4% 160
3	4.9% 104	11.1% 51	14.9% 192	19.2% 76	13.7% 192	13.3% 64
4	2.0% 42	8.1% 37	9.6% 123	21.0% 84	11.9% 167	9.3% 45
5	0.5% 11	2.4% 11	3.8% 48	7.6% 30	4.7% 66	4.9% 23
6+	0.6% 13	1.2% 5	4.5% 58	11.2% 45	4.8% 66	1.1% 5
TOTAL	100% 2116	100% 460	100% 1290	100% 398	100% 1397	100% 480

TOTAL TERMINAL-TRIPS FOR ROGERS CITY = 6141

MINOR

EXTERNAL ORIGIN-DESTINATION INTERVIEW
 TERMINAL-TRIP SUMMARY TABLE FOR ROGERS CITY

TRIP PURPOSE

VEH TYPE	WORK	PERS BIZ	SHOP	VACATION	SOC-REC	OTHER
CAR W/O TRLR	64.3% 1360	85.4% 393	91.0% 1174	87.7% 349	93.7% 1309	88.0% 422
CAR W/ TRLR	0.7% 15	1.3% 6	0.5% 6	6.8% 27	0.4% 5	0.8% 4
PICK-UP W/O/TRLR	24.4% 517	12.5% 57	8.2% 106	3.5% 14	5.8% 80	10.4% 50
PICK-UP W/ TRLR	0.3% 6	0.0% 0	0.0% 0	1.0% 4	0.2% 2	0.4% 2
SINGLE-UNIT TRUCKS	7.2% 152	0.8% 4	0.3% 4	0.8% 3	0.0% 0	0.5% 2
COMBINATION TRUCKS	3.1% 66	0.0% 0	0.0% 0	0.3% 1	0.0% 0	0.0% 0
TOTAL	100% 2116	100% 460	100% 1290	100% 398	100% 1397	100% 480

TOTAL TERMINAL-TRIPS FOR ROGERS CITY = 6141

6FE878 TRIP LENGTH FREQUENCY DISTRIBUTION-ROGENSCITY

	0	3	6	9	12	15	18	21	24	27	30	33	36	39	42	45	48	51	54	57	60	P.C.	CUM.	ACT																					
10.																							0.000	0.000																					
20.																							48.771	48.771																					
30.																							0.000	48.771																					
40.																							11.342	60.113																					
50.																							18.053	78.166																					
60.																							0.972	89.138																					
70.																							3.486	91.624																					
80.																							1.407	93.031																					
90.																							1.438	95.369																					
100.																							0.425	95.794																					
110.																							0.000	95.794																					
120.																							0.547	96.341																					
130.																							0.284	96.645																					
140.																							0.095	96.739																					
150.																							0.095	96.834																					
160.																							0.000	96.834																					
170.																							0.095	96.928																					
180.																							0.425	97.353																					
190.																							0.000	97.353																					
200.																							0.756	98.110																					
210.																							0.095	98.204																					
220.																							0.142	98.346																					
230.																							0.047	98.393																					
240.																							0.331	98.724																					
250.																							0.095	98.819																					
260.																							0.047	98.866																					
270.																							0.000	98.866																					
280.																							0.047	98.913																					
290.																							0.000	98.913																					
300.																							0.095	99.008																					
310.																							0.000	99.008																					
320.																							0.142	99.149																					
330.																							0.095	99.244																					
340.																							0.095	99.338																					
350.																							0.000	99.338																					
360.																							0.000	99.338																					
370.																							0.378	99.716																					
380.																							0.095	99.811																					
390.																							0.000	99.811																					
400.																							0.000	99.811																					
410.																							0.000	99.811																					
420.																							0.000	99.811																					
430.																							0.000	99.811																					
440.																							0.189	100.000																					
REMAINING VALUES ARE ALL ZERO																																													
NUMBER OF OBSERVATIONS=																							2116	SUM=	85645.	MEAN=	40.475	VAR=	2246.693	SD=	47.														
TOTAL TRIPS OVER MAXP	=	0																																											
TOTAL TRIPS OVER 255	=	0																																											
VOLUME TABLE NUMBER	=	201																																											
SKIN TREE NUMBER	=	101																																											

6FEB78 TRIP LENGTH FREQUENCY DISTRIBUTION-ROGERS CITY

0	3	6	9	12	15	18	21	24	27	30	33	36	39	42	45	48	51	54	57	60	P.C.	CUM.	ACTI																				
10.																					0.000	0.000																					
20.																					48.035	48.035																					
30.																					0.000	48.035																					
40.																					17.066	65.100																					
50.																					17.031	80.131																					
60.																					2.297	82.428																					
70.																					2.183	90.611																					
80.																					2.183	92.795																					
90.																					0.871	93.666																					
100.																					1.528	95.197																					
110.																					0.000	95.197																					
120.																					0.218	95.415																					
130.																					0.218	95.633																					
140.																					0.655	96.288																					
150.																					0.218	96.507																					
160.																					0.000	96.507																					
170.																					0.000	96.507																					
180.																					0.000	96.507																					
190.																					0.000	96.507																					
200.																					0.655	97.162																					
210.																					0.000	97.162																					
220.																					0.437	97.596																					
230.																					0.000	97.596																					
240.																					0.873	98.472																					
250.																					0.000	98.472																					
260.																					0.000	98.472																					
270.																					0.000	98.472																					
280.																					0.000	98.472																					
290.																					0.000	98.472																					
300.																					0.000	98.472																					
310.																					0.437	98.906																					
320.																					0.000	98.906																					
330.																					0.000	98.906																					
340.																					0.000	98.906																					
350.																					0.437	99.345																					
360.																					0.000	99.345																					
370.																					0.218	99.563																					
380.																					0.000	99.563																					
390.																					0.000	99.563																					
400.																					0.000	99.563																					
410.																					0.000	99.563																					
420.																					0.218	99.782																					
430.																					0.000	99.782																					
440.																					0.000	99.782																					
450.																					0.218	100.000																					
REMAINING VALUES ARE ALL ZERO																																											
NUMBER OF OBSERVATIONS#																						458	SUM#	19240.	MEAN#	42.009	VAR#	2821.677	SD#	53.													
TOTAL TRIPS OVER MAXP	#	0																																									
TOTAL TRIPS OVER 255	#	0																																									
VOLUME TABLE NUMBER	#	202																																									
SKIM TREE NUMBER	#	101																																									

4FEB78

TRIP LENGTH FREQUENCY DISTRIBUTION-ROGERS CITY

PAGE 8

TRIP LENGTH	FREQUENCY	P.C.	CUM. AC
0	0	0.000	0.000
3	0	0.000	0.000
6	0	0.000	0.000
9	0	0.000	0.000
12	0	0.000	0.000
15	0	0.000	0.000
18	0	0.000	0.000
21	0	0.000	0.000
24	0	0.000	0.000
27	0	0.000	0.000
30	0	0.000	0.000
33	0	0.000	0.000
36	0	0.000	0.000
39	0	0.000	0.000
42	0	0.000	0.000
45	0	0.000	0.000
48	0	0.000	0.000
51	0	0.000	0.000
54	0	0.000	0.000
57	0	0.000	0.000
60	0	0.000	0.000
10	1	0.083	0.083
20	1	0.083	0.167
30	1	0.083	0.250
40	1	0.083	0.333
50	1	0.083	0.417
60	1	0.083	0.500
70	1	0.083	0.583
80	1	0.083	0.667
90	1	0.083	0.750
100	1	0.083	0.833
110	1	0.083	0.917
120	1	0.083	1.000
130	1	0.083	1.083
140	1	0.083	1.167
150	1	0.083	1.250
160	1	0.083	1.333
170	1	0.083	1.417
180	1	0.083	1.500
190	1	0.083	1.583
200	1	0.083	1.667
210	1	0.083	1.750
220	1	0.083	1.833
230	1	0.083	1.917
240	1	0.083	2.000
250	1	0.083	2.083
260	1	0.083	2.167
270	1	0.083	2.250
280	1	0.083	2.333
290	1	0.083	2.417
300	1	0.083	2.500
310	1	0.083	2.583
320	1	0.083	2.667
330	1	0.083	2.750
340	1	0.083	2.833
350	1	0.083	2.917
360	1	0.083	3.000
370	1	0.083	3.083
380	1	0.083	3.167
390	1	0.083	3.250
400	1	0.083	3.333
410	1	0.083	3.417
420	1	0.083	3.500
430	1	0.083	3.583
440	1	0.083	3.667
450	1	0.083	3.750

REMAINING VALUES ARE ALL ZERO
 NUMBER OF OBSERVATIONS= 1285 SUM= 41106 MEAN= 31.969 VAR= 1592.366 SD= 39.922

TOTAL TRIPS OVER MAXP = 0
 TOTAL TRIPS OVER 255 = 0
 VOLUME TABLE NUMBER = 203
 SKIM TREE NUMBER = 101

6FEB78

TRIP LENGTH FREQUENCY DISTRIBUTION-ROGERS CITY

PAGE 5

TRIP LENGTH	FREQUENCY	P.C.	CUM.	ACT
0	0	0.000	0.000	
2	0	0.000	0.000	
4	0	0.000	0.000	
6	0	0.000	0.000	
8	0	0.000	0.000	
10	0	0.000	0.000	
12	0	0.000	0.000	
14	0	0.000	0.000	
16	0	0.000	0.000	
18	0	0.000	0.000	
20	0	0.000	0.000	
22	0	0.000	0.000	
24	0	0.000	0.000	
26	0	0.000	0.000	
28	0	0.000	0.000	
30	0	0.000	0.000	
32	0	0.000	0.000	
34	0	0.000	0.000	
36	0	0.000	0.000	
38	0	0.000	0.000	
40	0	0.000	0.000	
10	22,857	22.857	22.857	
20	9,418	32.275	32.275	
30	8,571	41.019	41.019	
40	12,727	53.746	53.746	
50	3,117	56.863	56.863	
60	2,597	59.481	59.481	
70	2,857	62.338	62.338	
80	8,312	70.649	70.649	
90	0,000	70.649	70.649	
100	2,078	72.727	72.727	
110	1,039	73.766	73.766	
120	0,000	73.766	73.766	
130	3,598	77.362	77.362	
140	0,260	77.622	77.622	
150	0,778	78.401	78.401	
160	1,299	80.000	80.000	
170	0,260	80.260	80.260	
180	1,039	81.299	81.299	
190	0,260	81.558	81.558	
200	0,260	81.818	81.818	
210	0,260	82.078	82.078	
220	2,338	84.416	84.416	
230	0,000	84.416	84.416	
240	0,519	84.935	84.935	
250	0,260	85.195	85.195	
260	1,818	87.013	87.013	
270	0,519	87.532	87.532	
280	1,818	89.351	89.351	
290	4,935	94.286	94.286	
300	0,260	94.545	94.545	
310	0,519	95.065	95.065	
320	0,000	95.065	95.065	
330	0,519	95.584	95.584	
340	0,000	95.584	95.584	
350	0,260	95.844	95.844	
360	0,260	96.104	96.104	
370	1,039	97.143	97.143	
380	0,000	97.143	97.143	
390	0,000	97.143	97.143	
400	0,260	97.403	97.403	
410	0,000	97.403	97.403	
420	0,519	97.922	97.922	
430	0,000	97.922	97.922	
440	0,000	97.922	97.922	
450	0,000	97.922	97.922	
460	0,000	97.922	97.922	
470	0,000	97.922	97.922	
480	0,000	97.922	97.922	
490	0,000	97.922	97.922	
500	0,000	97.922	97.922	
510	0,260	98.182	98.182	
520	0,519	98.701	98.701	
530	0,000	98.701	98.701	
540	0,000	98.701	98.701	
550	0,000	98.701	98.701	
560	0,000	98.701	98.701	
570	0,000	98.701	98.701	
580	0,000	98.701	98.701	
590	0,000	98.701	98.701	
600	0,000	98.701	98.701	
610	0,000	98.701	98.701	
620	0,000	98.701	98.701	
630	0,000	98.701	98.701	
640	0,519	99.221	99.221	
650	0,000	99.221	99.221	
660	0,000	99.221	99.221	
670	0,000	99.221	99.221	
680	0,000	99.221	99.221	
690	0,519	99.740	99.740	
700	0,000	99.740	99.740	
710	0,000	99.740	99.740	
720	0,000	99.740	99.740	
730	0,000	99.740	99.740	
740	0,000	99.740	99.740	
750	0,260	100.000	100.000	

REMAINING VALUES ARE ALL ZERO
 NUMBER OF OBSERVATIONS= 385 SUM= 42581 MEAN= 110.600 VAR= 16017.597 SD= 126

TOTAL TRIPS OVER MAXP = 1
 TOTAL TRIPS OVER 255 = 0
 VOLUME TABLE NUMBER = 204
 SKIN TREE NUMBER = 101

6FEB78 TRIP LENGTH FREQUENCY DISTRIBUTION-ROGERS CITY

TRIP LENGTH	FREQ	P.C.	CUM.	ACT
0				
1				
6				
9				
12				
15				
18				
21				
24				
27				
30				
33				
36				
39				
42				
45				
48				
51				
54				
57				
60				
10		0.000	0.000	
20		54.329	54.329	
30		0.000	54.329	
40		10.029	64.358	
50		14.430	78.788	
60		9.091	87.879	
70		0.938	88.817	
80		2.361	91.178	
90		0.794	91.971	
100		1.659	93.631	
110		0.000	93.631	
120		0.505	94.136	
130		0.289	94.425	
140		0.433	94.858	
150		0.433	95.291	
160		0.000	95.291	
170		0.072	95.363	
180		0.072	95.435	
190		0.438	95.873	
200		0.000	95.873	
210		0.000	95.873	
220		0.216	96.089	
230		0.000	96.089	
240		0.361	96.450	
250		0.000	96.450	
260		0.000	96.450	
270		0.144	96.594	
280		0.216	96.810	
290		0.072	96.882	
300		0.565	97.447	
310		1.299	98.746	
320		0.000	98.746	
330		0.000	98.746	
340		0.144	98.890	
350		0.000	98.890	
360		0.000	98.890	
370		0.072	98.962	
380		0.144	99.106	
390		0.000	99.106	
400		0.000	99.106	
410		0.000	99.106	
420		0.000	99.106	
430		0.000	99.106	
440		0.000	99.106	
450		0.144	99.250	
460		0.216	99.466	
470		0.000	99.466	
480		0.000	99.466	
490		0.000	99.466	
500		0.000	99.466	
510		0.000	99.466	
520		0.072	99.538	

REMAINING VALUES ARE ALL ZERO
 NUMBER OF OBSERVATIONS= 1386 SUM= 60446 MEAN= 43.613 VAR= 3677.379 SD= 60.
 TOTAL TRIPS OVER MAXP = 0
 TOTAL TRIPS OVER 255 = 0
 VOLUME TABLE NUMBER = 205
 SKIM TREE NUMBER = 101

TRIP LENGTH	FREQUENCY	P. C.	CUM.	ACTU
0	10	0.000	0.000	
3	20	0.019	0.019	
6	30	0.000	0.019	
9	40	0.000	0.019	
12	50	0.000	0.019	
15	60	0.000	0.019	
18	70	0.000	0.019	
21	80	0.000	0.019	
24	90	0.000	0.019	
27	100	0.000	0.019	
30	110	0.000	0.019	
33	120	0.000	0.019	
36	130	0.000	0.019	
39	140	0.000	0.019	
42	150	0.000	0.019	
45	160	0.000	0.019	
48	170	0.000	0.019	
51	180	0.000	0.019	
54	190	0.000	0.019	
57	200	0.000	0.019	
60	210	0.000	0.019	
	220	0.000	0.019	
	230	0.000	0.019	
	240	0.000	0.019	
	250	0.000	0.019	
	260	0.000	0.019	
	270	0.000	0.019	
	280	0.000	0.019	
	290	0.000	0.019	
	300	0.000	0.019	
	310	0.000	0.019	
	320	0.000	0.019	
	330	0.000	0.019	
	340	0.000	0.019	
	350	0.000	0.019	
	360	0.000	0.019	
	370	0.000	0.019	
	380	0.000	0.019	
	390	0.000	0.019	
	400	0.000	0.019	
	410	0.000	0.019	
	420	0.000	0.019	
	430	0.000	0.019	
	440	0.000	0.019	
	450	0.000	0.019	
	460	0.000	0.019	
	470	0.000	0.019	
	480	0.000	0.019	
	490	0.000	0.019	
	500	0.000	0.019	
	510	0.000	0.019	
	520	0.000	0.019	
	530	0.000	0.019	
	540	0.000	0.019	
	550	0.000	0.019	
	560	0.000	0.019	
	570	0.000	0.019	
	580	0.000	0.019	
	590	0.000	0.019	
	600	0.000	0.019	
	610	0.000	0.019	
	620	0.000	0.019	
	630	0.000	0.019	
	640	0.000	0.019	
	650	0.000	0.019	
	660	0.000	0.019	
	670	0.000	0.019	
	680	0.000	0.019	
	690	0.000	0.019	
	700	0.000	0.019	
	710	0.000	0.019	
	720	0.000	0.019	
	730	0.000	0.019	
	740	0.000	0.019	
	750	0.000	0.019	
REMAINING VALUES ARE ALL ZERO				
NUMBER OF OBSERVATIONS	6106			
SUM	266017			
MEAN	43.566			
VAR	3588.290			
SD	59.8			
TOTAL TRIPS OVER HAMP	=	1		
TOTAL TRIPS OVER 255	=	0		
VOLUME TABLE NUMBER	=	207		
SKIN TREE NUMBER	=	101		

APPENDIX "A"-EQUIVALENCE LIST



ZONE	COUNTY	TOWNSHIP OR CITY
----	-----	-----
001	ALCONA	ALCONA, CALEDONIA, GREENBUSH, GUSTIN, HARRISVILLE, HAWES, HAYNES, MIKADO.
002	ALCONA	CURTIS, MILLEN, MITCHELL.
003	ALGER	MUNISING(CITY).
004	ALGER	BURT, MUNISING.
005	ALGER	LIMESTONE, MATHIAS, ONOTA, ROCK RIVER.
006	ALGER	AU TRAIN, GRAND ISLAND.
007	ALLEGAN	ALLEGAN, CHESHIRE, TROWBRIDGE, VALLEY.
008	ALLEGAN	CASCO, CLYDE, GANGES, LEE.
009	ALLEGAN	GUNPLAIN, OTSEGO.
010	ALLEGAN	FILLMORE, HEATH, MANLIUS, MONTEREY, OVERISEL, SALEM.
011	ALLEGAN	LAKETOWN, SAUGATUCK.
012	ALLEGAN	DORR, HOPKINS, LEIGHTON, MARTIN, WATSON, WAYLAND.
013	ALPENA	ALPENA(CITY).
014	ALPENA	ALPENA, SANBORN.
015	ALPENA	GREEN, LONG RAPIDS, MAPLE RIDGE, OSSINEKE, WELLINGTON, WILSON.
016	ANTRIM	CHESTONIA, JORDAN, MANCELONA, STAR, WARNER.
017	ANTRIM	BANKS, CENTRAL LAKE, ECHO, TORCH LAKE.
018	ANTRIM	CUSTER, ELK RAPIDS, FOREST HOME, HELENA, KEARNEY, MILTON.
019	ARENAC	LINCOLN, STANDISH.
020	ARENAC	AU GRES, SIMS, TURNER, WHITNEY.
021	ARENAC	ADAMS, ARENAC, CLAYTON, DEEP RIVER, MASON, MOFFATT.
022	BARAGA	ARVON, LANSE.
023	BARAGA	BARAGA.
024	BARAGA	COVINGTON, SPURF.
025	BARRY	HASTINGS(CITY).
026	BARRY	CARLTON, CASTLETON, HASTINGS, IRVING, RUTLAND, WOODLAND.
027	BARRY	ASSYRIA, BALTIMORE, BARRY, HOPE, JOHNSTOWN, MAPLE GROVE.
028	BARRY	ORANGEVILLE, PRAIRIEVILLE, THORNAPPLE, YANKEE SPRINGS.
029	BAY	BAY CITY.
030	BAY	BANGOR.
031	BAY	BEAVER, KAWKAWLIN, MONITOR, WILLIAMS.
032	BAY	FRANKENLUST, HAMPTON, MERRITT, PORTSMOUTH.
033	BAY	FRASER, GARFIELD, GIBSON, MT. FOREST, PINCONNING.
034	BENZIE	CRYSTAL LAKE, LAKE.
035	BENZIE	BENZONIA, BLAINE, GILMORE, JOYFIELD, WELDON.
036	BENZIE	ALMIRA, COLFAX, HOMESTAD, INLAND, PLATTE.
037	BERRIEN	BENTON HARBOR(CITY), ST. JOE(CITY).
038	BERRIEN	BARODA, LAKE, ORONOKO.
039	BERRIEN	BENTON, HAGAR, ST. JOSEPH.
040	BERRIEN	BAINBRIDGE, COLOMA, WATERVLIET.
041	BERRIEN	BERRIEN, PIPESTONE.
042	BERRIEN	BERTRAND, BUCHANAN, GALIEN, WEESAW.
043	BERRIEN	CHIKAMING, NEW RUFFALO, THREE OAKS.
044	BERRIEN	LINCOLN, ROYALTON, SODUS.
045	BERRIEN	NILES(CITY).
046	BERRIEN	NILES.
047	BERRIEN	BUCHANAN(CITY).

048 BRANCH	COLDWATER(CITY).
049 BRANCH	BATAVIA, MATTESON, SHERWOOD.
050 BRANCH	BETHEL, BRONSON, GILEAD, NOBLE.
051 BRANCH	BUTLER, QUINCY.
052 BRANCH	ALGANSEE, CALIFORNIA, KINDERHOOK, OVID.
053 BRANCH	GIRARD, UNION.
054 BRANCH	COLDWATER.
055 CALHOUN	BATTLE CREEK(CITY).
056 CALHOUN	ALBION, HOMER.
057 CALHOUN	ATHENS, BURLINGTON, LEROY, NEWTON.
058 CALHOUN	BATTLE CREEK.
059 CALHOUN	BEDFORD.
060 CALHOUN	CLARENCE, CLARENDON, ECKFORD, LEE, MARENGO,
061 CALHOUN	CONVIS, FREDONIA, MARSHALL.
062 CALHOUN	EMMETT.
063 CALHOUN	PENNFIELD.
064 CALHOUN	SHERIDAN.
065 CALHOUN	TEKONSHA.
066 CALHOUN	ALBION(CITY).
067 CALHOUN	MARSHALL(CITY).
068 CASS	DOWAGIAC(CITY).
069 CASS	LA GRANGE, POKAGON, SILVER CREEK, WAYNE.
070 CASS	HOWARD, MILTON.
071 CASS	JEFFERSON, ONTWA.
072 CASS	MARCELLUS, VOLINIA.
073 CASS	NEWBERG, PENN.
074 CASS	CALVIN, MASON, PORTER.
075 CHARLEVOIX	CHARLEVOIX(CITY), PEAINE, ST. JAMES.
076 CHARLEVOIX	BOYNE VALLEY, CHANDLER, HUDSON, MELROSE.
077 CHARLEVOIX	SOUTH ARM, WILSON.
078 CHARLEVOIX	BAY, CHARLEVOIX, EVANGELINE, EVELINE, HAYES, MARION, NORWOOD.
079 CHEBOYGAN	CHEBOYGAN.
080 CHEBOYGAN	BEAUGRAND, BURT, HEBRON, INVERNESS, MACKINAW, MULLETT, MUNRO.
081 CHEBOYGAN	ELLIS, FOREST, KOEHLER, MENTOR, NUNDA, TUSCARORA, WALKER, WAVERLY, WILMOT.
082 CHEBOYGAN	ALOHA, BENTON, GRANT.
083 CHIPPEWA	SAULT STE. MARIE, SUGAR ISLAND.
084 CHIPPEWA	BRUCE, PICKFORD.
085 CHIPPEWA	CHIPPEWA, HULBERT, WHITEFISH.
086 CHIPPEWA	DETOUR, DRUMMOND, RABER.
087 CHIPPEWA	KINROSS, RUDYARD, TROUT LAKE.
088 CHIPPEWA	BAY MILLS, DAFTER, SUPERIOR.
089 CLARE	GRANT, SHERIDAN.
090 CLARE	ARTHUR, FRANKLIN, FROST, HAMILTON, HATTON, HAYES.
091 CLARE	FREEMAN, GARFIELD, GREENWOOD, LINCOLN, REDDING, SUMMERFIELD, SURREY, WINTERFIELD.
092 CLINTON	ST. JOHNS(CITY).
093 CLINTON	BATH.
094 CLINTON	BENGAL, BINGHAM, ESSEX.
095 CLINTON	DALLAS, LEBANON, WESTPHALIA.
096 CLINTON	DUPLAIN, GREENRUSH.
097 CLINTON	EAGLE, RILEY, WATERTOWN.
098 CLINTON	OLIVE, VICTOR.
099 CLINTON	OVID.
100 CLINTON	DEWITT.

101 CRAWFORD	GRAYLING(CITY).
102 CRAWFORD	BEAVER CREEK, FREDERIC, GRAYLING, LOVELLS, MAPLE FOREST, SOUTH BRANCH.
103 DELTA	ESCANABA(CITY).
104 DELTA	BARK RIVER, FORD RIVER.
105 DELTA	BAY DE NOC, ENSIGN, MASONVILLE.
106 DELTA	ESCANABA, WELLS.
107 DELTA	FAIRBANKS, GARDEN, NAHMA.
108 DELTA	BALDWIN, BRAMPTON, CORNELL, MAPLE RIDGE.
109 DICKINSON	IRON MOUNTAIN(CITY).
110 DICKINSON	BREITUNG.
111 DICKINSON	BREEN, FELCH, SAGOLA, WEST BRANCH.
112 DICKINSON	NORWAY, WAUCEDAH.
113 EATON	CHARLOTTE(CITY).
114 EATON	BENTON, BROOKFIELD, EATON.
115 EATON	CARMEL, CHESTER, WALTON.
116 EATON	BELLEVUE, KALAMO.
117 EATON	DELTA.
118 EATON	EATON RAPIDS, HAMLIN.
119 EATON	ONEIDA, ROXAND.
120 EATON	SUNFIELD, VERMONTVILLE.
121 EATON	WINDSOR.
122 EATON	EATON RAPIDS(CITY).
123 EATON	GRAND LEDGE(CITY).
124 EMMET	PETOSKEY(CITY).
125 EMMET	BLISS, CARP LAKE, CROSS VILLAGE, CENTER, MCKINLEY, READMOND, WAWATAM.
126 EMMET	FRIENDSHIP, LITTLEFIELD, LITTLE TRAVERSE, MAPLE RIVER, PLEASANT VIEW, WEST TRAVERSE.
127 EMMET	BEAR CREEK, RESORT, SPRINGVALE.
128 GENESEE	FLINT(CITY).
129 GENESEE	VIENNA.
130 GENESEE	FLUSHING, MT MORRIS.
131 GENESEE	CLAYTON, FLINT.
132 GENESEE	GRAND BLANC.
133 GENESEE	BURTON(CITY).
134 GENESEE	DAVISON.
135 GENESEE	RICHFIELD.
136 GENESEE	GENESEE.
137 GENESEE	FOREST, THETFORD.
138 GENESEE	MONTROSE.
139 GENESEE	GAINES, MUNDY.
140 GENESEE	ARGENTINE, FENTON.
141 GENESEE	ATLAS.
142 GLADWIN	GLADWIN(CITY).
143 GLADWIN	BENTLEY, BILLINGS, BOURRET, BUTMAN, CLEMENT, GRIM, HAY, SECORD, SHERIDAN, TOBACCO.
144 GLADWIN	GLADWIN, SAGE, SHERMAN.
145 GLADWIN	BEAVERTON, BUCKEYE, GROUT.
146 GOGEBIC	IRONWOOD.
147 GOGEBIC	WAKEFIELD.
148 GOGEBIC	MARENISCO.
149 GOGEBIC	WATERSMEET.
150 GOGEBIC	BESSEMER, ERWIN.
151 GRAND TRAVERSE	TRAVERSE CITY(CITY)ANDPENINSULA.
152 GRAND TRAVERSE	BLAIR, GARFIELD, GREEN LAKE, LONG LAKE.

153	GRAND TRAVERSE	EAST BAY, FIFE LAKE, PARADISE, UNION.
154	GRAND TRAVERSE	GRANT, MAYFIELD.
155	GRAND TRAVERSE	ACME, WHITEWATER.
156	GRATIOT	ALMA(CITY).
157	GRATIOT	ARCADA, EMERSON, HAMILTON, LAFAYETTE, NORTH STAR, NEW HAVEN, NEWARK, SUMNER.
158	GRATIOT	BETHANY, PINE RIVER, SFVILLE, WHEELER.
159	GRATIOT	ELBA, FULTON, NORTH SHADE, WASHINGTON.
160	GRATIOT	ITHACA(CITY).
161	HILLSDALE	HILLSDALE(CITY).
162	HILLSDALE	ALLEN, FAYETTE.
163	HILLSDALE	AMBOY, RANSOM, WRIGHT.
164	HILLSDALE	CAMBRIA, HILLSDALE, WOODBRIDGE.
165	HILLSDALE	CAMDEN, READING.
166	HILLSDALE	JEFFERSON, PITTSFORD.
167	HILLSDALE	LITCHFIELD, MOSCOW, SCIPO.
168	HILLSDALE	ADAMS, SOMERSET, WHEATLAND.
169	HOUGHTON	HOUGHTON(CITY).
170	HOUGHTON	CALUMET, OSCEOLA, SCHOOLCRAFT.
171	HOUGHTON	CHASSELL, TORCH LAKE
172	HOUGHTON	DUNCAN, LAIRD.
173	HOUGHTON	FRANKLIN, HANCOCK, QUINCY.
174	HOUGHTON	PORTAGE.
175	HOUGHTON	ADAMS, ELM RIVER, STANTON.
176	HURON	BAD AXE(CITY).
177	HURON	BINGHAM, PARIS, SAND BEACH, SHERMAN.
178	HURON	BLOOMFIELD, LINCOLN, RIBICON, SIGEL, VERONA.
179	HURON	BROOKFIELD, GRANT, SEBWAING, SHERIDAN.
180	HURON	CASEVILLE, CHANDLER, LAKE, MCKINLEY, MEADE.
181	HURON	COLFAX, FAIRHAVEN, OLIVER, WINSOR.
182	HURON	DWIGHT, GORE, HUME, HURON, PORT AUSTIN, POINT AUX BARQUES.
183	INGHAM	LANSING(CITY), E. LANSING(CITY).
184	INGHAM	MERIDIAN.
185	INGHAM	DELHI.
186	INGHAM	ALAIEDON, VEVAY.
187	INGHAM	AURELIUS, LESLIE, ONONDAGA.
188	INGHAM	BUNKER HILL, STOCKBRIDGE.
189	INGHAM	INGHAM, WHITE OAK.
190	INGHAM	LEROY, LOCKE.
191	INGHAM	WHEATFIELD, WILLIAMSTON.
192	IONIA	IONIA(CITY).
193	IONIA	BERLIN, BOSTON.
194	IONIA	CAMPBELL, ODESSA.
195	IONIA	DANBY, SEBEWA.
196	IONIA	EASTON, KEENE.
197	IONIA	IONIA, RONALD.
198	IONIA	LYONS, NORTH PLAINS.
199	IONIA	ORANGE, PORTLAND.
200	IONIA	ORLEANS, OTISCO.
201	IOSCO	ALABASTER, TAWAS.
202	IOSCO	AU SABLE, BALDWIN, WILBER.
203	IOSCO	BURLEIGH, GRANT, PLAINFIELD, RENO, SHERMAN.
204	IOSCO	OSCODA.
205	IRON	IRON RIVER(CITY).
206	IRON	STAMBAUGH.
207	IRON	CRYSTAL FALLS.
208	IRON	MANSFIELD, MASTCOON.

209	IRON	DATES, HEMATITE, IRON RIVER.
210	ISABELLA	MT PLEASANT.
211	ISABELLA	CHIPPEWA, COF.
212	ISABELLA	COLDWATER, GILMORE, VERNON, WISE.
213	ISABELLA	DENVER, ISABELLA, NOTTAWA, SHERMAN.
214	ISABELLA	LINCOLN, UNION.
215	ISABELLA	BROOMFIELD, DEERFIELD, FREMONT, ROLLAND.
216	JACKSON	JACKSON(CITY).
217	JACKSON	SUMMIT.
218	JACKSON	CONCORD, HANOVER, PULASKI, SPRING ARBOR.
219	JACKSON	BLACKMAN, RIVES.
220	JACKSON	GRASS LAKE, LEONI.
221	JACKSON	NAPOLEON, NORVELL.
222	JACKSON	COLUMBIA, LIBERTY.
223	JACKSON	PARMA, SANDSTONE.
224	JACKSON	SPRINGPORT, TOMKINS.
225	JACKSON	HENRIETTA, WATERLOO.
226	KALAMAZOO	KALAMAZOO.
227	KALAMAZOO	PORTAGE.
228	KALAMAZOO	COMSTOCK.
229	KALAMAZOO	CHARLESTON.
230	KALAMAZOO	COOPER, RICHLAND, ROSS.
231	KALAMAZOO	ALAMO, OSHTENO.
232	KALAMAZOO	PRAIRIE RONDE, TEXAS.
233	KALAMAZOO	BRADY, CLIMAX, PAVILION, SCHOOLCRAFT, WAKESHMA.
234	KALKASKA	BOARDMAN, CLEARWATER, KALKASKA, ORANGE, RAPID RIVER, SPRINGFIELD.
235	KALKASKA	BEAR LAKE, BLUE LAKE, COLD SPRINGS, EXCELSIOR, GARFIELD, OLIVER.
236	KENT	GRAND RAPIDS(CITY).
237	KENT	ADA, CASCADE.
238	KENT	ALGOMA, CANNON, COURTLAND, PLAINFIELD.
239	KENT	ALPINE, SPARTA.
240	KENT	BOWNE, CALEDONIA.
241	KENT	BYRON, GAINES.
242	KENT	GRAND RAPIDS.
243	KENT	GRATTAN, OAKFIELD, SPENCER.
244	KENT	LOWELL, VERGENNES.
245	KENT	NELSON, SOLON, TYRONE.
246	KENT	WALKER.
247	KENT	KENTWOOD.
248	KENT	WYOMING(CITY).
249	KWEENAW	ALLOUEZ, EAGLE HARBOR, GRANT, HOUGHTON, SHERMAN.
250	LAKE	CHASE, CHERRY VALLEY, LAKE, PINORA, PLEASANT PLAIN, SWEETWATER, WEBBER, YATES.
251	LAKE	DOVER, EDEN, ELK, ELLSWORTH, NEWKIRK, PEACOCK, SAUBLE.
252	LAPEER	LAPEER(CITY).
253	LAPEER	ARCADIA, ATTICA, GOODLAND.
254	LAPEER	BURLINGTON, BURNSIDE, NORTH BRANCH.
255	LAPEER	DEERFIELD, MARATHON, RICH.
256	LAPEER	ELBA, HADLEY, METAMORA.
257	LAPEER	LAPEER, MAYFIELD, OREGON.
258	LAPEER	ALMONT, DRYDEN, IMLAY.
259	LEELANAU	LEELANAU, LELAND, SUTTONS BAY
260	LEELANAU	CLEVELAND, EMPIRE, GLEN ARBOR, KASSON.
261	LEELANAU	BINGHAM, CENTERVILLE, FLMWOOD, SOLON.

262	LENAWEE	ADRIAN(CITY).
263	LENAWEE	ADRIAN, FRANKLIN.
264	LENAWEE	BLISSFIELD, DEERFIELD, OGDEN, PALMYRA, RIGA.
265	LENAWEE	CAMBRIDGE, ROME.
266	LENAWEE	CLINTON, MACON, RAISIN, RIDGEWAY, TECUMSEH.
267	LENAWEE	DOVER, SENECA.
268	LENAWEE	FAIRFIELD, MADISON.
269	LENAWEE	HUDSON, MEDINA.
270	LENAWEE	ROLLIN, WOODSTOCK.
271	LIVINGSTON	HOWELL, MARION.
272	LIVINGSTON	COHOCTAH, CONWAY, HANDY, IOSCO.
273	LIVINGSTON	DEERFIELD, HARTLAND, OCEOLA, TYRONE.
274	LIVINGSTON	GREEN OAK, HAMBURG.
275	LIVINGSTON	BRIGHTON, GENOA.
276	LIVINGSTON	PUTNAM, UNADILLA.
277	LUCE	MCMILLAN.
278	LUCE	COLUMBUS, LAKEFIELD.
279	LUCE	PENTLAND.
280	MACKINAC	BOIS BLANC ISLAND, ST.IGNACE(CITY).
281	MACKINAC	CLARK, MARQUETTE, ST IGNACE.
282	MACKINAC	BREVORT, HENDRICKS, HUDSON, MORAN.
283	MACKINAC	GARFIELD, NEWTON, PORTAGE.
284	MACOMB	CLINTON, HARRISON.
285	MACOMB	ST CLAIR SHORES(CITY)E.DET(CITY),ROSEVILLE(CITY).
286	MACOMB	WARREN(CITY).
287	MACOMB	SHELBY.
288	MACOMB	CHESTERFIELD, MACOMB.
289	MACOMB	BRUCE, RAY, WASHINGTON.
290	MACOMB	ARMADA, LENOX, RICHMOND.
291	MANISTEE	BROWN, FILER, MANISTEE, STRONACH.
292	MANISTEE	DICKSON, NORMAN.
293	MANISTEE	CLEON, MAPLE GROVE, MARILLA, SPRINGDALE.
294	MANISTEE	ARCADIA, BEAR LAKE, ONEKAMA, PLEASANTON.
295	MARQUETTE	MARQUETTE(CITY).
296	MARQUETTE	CHOCOLAY, RICHMOND, SANDS, SKANDIA, WEST BRANCH.
297	MARQUETTE	ELY, ISHPEMING, TILDEN.
298	MARQUETTE	EWING, FORSYTH, TURIN, WELLS.
299	MARQUETTE	ISHPEMING(CITY).
300	MARQUETTE	MARQUETTE, NEGAUNEE.
301	MARQUETTE	CHAMPION, HUMBOLDT, MICHIGAMME, POWELL, REPUBLIC.
302	MASON	LUDINGTON(CITY).
303	MASON	BRANCH, CUSTER, EDEN, LOGAN.
304	MASON	FREESOIL, GRANT, HAMLIN, MEADE, SHERIDAN, SHERMAN, VICTORY.
305	MASON	AMBER, PERE MARQUETTE, RIVERTON, SUMMIT.
306	MECOSTA	BIG RAPIDS(CITY).
307	MECOSTA	BIG RAPIDS, COLFAX, GRANT, GREEN.
308	MECOSTA	CHIPPEWA, FORK, MARTINY, SHERIDAN.
309	MECOSTA	HINTON, MILLBROOK, MORTON, WHEATLAND.
310	MECOSTA	AETNA, AUSTIN, DEERFIELD, MECOSTA.
311	MENOMINEE	MENOMINEE(CITY).
312	MENOMINEE	HARRIS, MEYER, SPALDING.
313	MENOMINEE	INGALLSTON, LAKE, MELLEN, MENOMINEE, STEPHENSON.
314	MENOMINEE	CEDARVILLE, DAGGETT, FAITHORN, GOURLEY, HOLMES, NADEAU.
315	MIDLAND	MIDLAND(CITY).

316	MIDLAND	GREENDALE, JASPER, LEE, PORTER.
317	MIDLAND	HOMER, INGERSOLL, MIDLAND, MT. HALEY.
318	MIDLAND	HOPE, LARKIN, LINCOLN, MILLS.
319	MIDLAND	EDENVILLE, GENEVA, JEROME, WARREN.
320	MISSAUKEE	LAKE, REEDER, RICHLAND, RIVERSIDE.
321	MISSAUKEE	BLOOMFIELD, CALDWELL, FOREST, PIONEER.
322	MISSAUKEE	AETNA, BUTTERFIELD, CLAM UNION, ENTERPRISE, HOLLAND, NORWICH, WEST BRANCH.
323	MONROE	MONROE(CITY).
324	MONROE	BEDFORD.
325	MONROE	BERLIN.
326	MONROE	DUNDEE.
327	MONROE	ERIE.
328	MONROE	EXETER, RAISINVILLE.
329	MONROE	FRENCHTOWN, MONROE.
330	MONROE	IDA, SUMMERFIELD.
331	MONROE	LASALLE.
332	MONROE	LONDON, MILAN.
333	MONROE	ASH.
334	MONROE	WHITEFORD.
335	MONTCALM	GREENVILLE.
336	MONTCALM	BLOOMER, BUSHNELL, CRYSTAL, EVERGREEN.
337	MONTCALM	DAY, FERRIS, HOME, RICHLAND.
338	MONTCALM	EUREKA, FAIRPLAIN, MONTCALM, SIDNEY.
339	MONTCALM	MAPLE VALLEY, PIERSON, REYNOLDS, WINFIELD.
340	MONTCALM	BELVIDERE, CATO, DOUGLASS, PINE.
341	MONTMORENCY	ALBERT, AVERY, BRILEY, HILLMAN, LOUD, MONTMORENCY, RUST, VIENNA.
342	MUSKEGON	MUSKEGON(CITY).
343	MUSKEGON	LAKETON.
344	MUSKEGON	MUSKEGON.
345	MUSKEGON	NORTON SHORES.
346	MUSKEGON	BLUE LAKE, HOLTON.
347	MUSKEGON	CASNOVIA, MOORLAND.
348	MUSKEGON	CEDAR CREEK, DALTON.
349	MUSKEGON	EGELSTON.
350	MUSKEGON	FRUITLAND, MONTAGUE, WHITE RIVER, WHITEHALL.
351	MUSKEGON	FRUITPORT, RAVENNA, SULLIVAN.
352	NEWAGO	FREMONT(CITY).
353	NEWAGO	BARTON, BEAVER, DENVER, HOME, LILLEY, MERRILL, MONROE, NORWICH, TROY.
354	NEWAGO	BIG PRAIRIE, EVERETT, GOODWELL, LINCOLN, SHERMAN, WILCOX.
355	NEWAGO	BRIDGETON, DAYTON, SHERIDAN.
356	NEWAGO	BROOKS, CROTON, GARFIELD.
357	NEWAGO	ASHLAND, ENSLEY, GRANT.
358	OAKLAND	PONTIAC(CITY).
359	OAKLAND	SOUTHFIELD.
360	OAKLAND	ROYAL OAK TWP, AND THE FOLLOWING CITIES) BERKLEY, CLAWSON, FERNDAL, HAZEL PARK, HUNTINGTON WOODS, MADISON HEIGHTS, OAK PARK, PLEASANT RIDGE.
361	OAKLAND	BLOOMFIELD.
362	OAKLAND	FARMINGTON.
363	OAKLAND	LYON.
364	OAKLAND	COMMERCE.
365	OAKLAND	HIGHLAND, MILFORD, WHITE LAKE.
366	OAKLAND	WEST BLOOMFIELD.
367	OAKLAND	TROY(CITY).
368	OAKLAND	AVON.
369	OAKLAND	PONTIAC.

371 OAKLAND	HOLLY, ROSE.
372 OAKLAND	GROVELAND, SPRINGFIELD.
373 OAKLAND	BRANDON, INDEPENDENCE.
374 OAKLAND	OAKLAND, ORION.
375 OAKLAND	ADDISON, OXFORD.
376 OCEANA	BENONA, CLAYBANKS, SHELBY.
377 OCEANA	COLFAX, CRYSTAL, ELBRIDGE, HART, LEAVITT, WEARE.
378 OCEANA	FERRY, GRANT, GREENWOOD, NEWFIELD, OTTO.
379 OCEANA	GOLDEN, PENTWATER.
380 OGEMAW	EDWARDS, HORTON, OGEMAW, WEST BRANCH.
381 OGEMAW	CUMMING, FOSTER, GOODAR, HILL, KLACKING, ROSE.
382 OGEMAW	CHURCHILL, LOGAN, MILLS, RICHLAND.
383 ONTONAGON	ONTONAGON.
384 ONTONAGON	BOHEMIA, GREENLAND, ROCKLAND.
385 ONTONAGON	HAIGHT, INTERIOR, MCMILLAN, STANNARD.
386 ONTONAGON	BERGLAND, CARR LAKE, MATCHWOOD.
387 OSCEOLA	HERSEY, RICHMOND.
388 OSCEOLA	EVART, ORIENT, OSCEOLA, SYLVAN.
389 OSCEOLA	HARTWICK, HIGHLAND, MARION, MIDDLE BRANCH.
390 OSCEOLA	BURDELL, CEDAR, LEROY, LINCOLN, ROSE LAKE, SHERMAN.
391 OSCODA	BIG CREEK, CLINTON, COMINS, ELMER, GREENWOOD, MENTOR.
392 OTSEGO	GAYLORD(CITY).
393 OTSEGO	BAGLEY, CHARLTON, CHESTER, HAYES, OTSEGO LAKE.
394 OTSEGO	CORWITH, DOVER, ELMIRA, LIVINGSTON.
395 OTTAWA	HOLLAND(CITY).
396 OTTAWA	CHESTER, TALLMADGE, WRIGHT.
397 OTTAWA	CROCKERY, POLKTON.
398 OTTAWA	GEORGETOWN, JAMESTOWN.
399 OTTAWA	SPRING LAKE.
400 OTTAWA	GRAND HAVEN, OLIVE, PORT SHELDON, ROBINSON.
401 OTTAWA	ALLENDALE, BLENDON
402 OTTAWA	HOLLAND, PARK.
403 OTTAWA	ZEELAND.
404 PRESQUE ISLE	BELKNAP, BISMARCK, METZ, MOLTKE, ROGERS.
405 PRESQUE ISLE	ALLIS, BEARINGER, CASE, NORTH ALLIS, OCQUEOC.
406 PRESQUE ISLE	KRAKOW, POSEN, PRESQUE ISLE, PULAWSKI.
407 ROSCOMMON	DENTON, GERRISH, LAKE, LYON, MARKEY, ROSCOMMON.
408 ROSCOMMON	AU SABLE, BACKUS, HIGGINS, NESTER, RICHLAND.
409 SAGINAW	SAGINAW(CITY).
410 SAGINAW	TITTABAWASSEE.
411 SAGINAW	CARROLLTON, KOCHVILLE, SAGINAW.
412 SAGINAW	BUENA VISTA, ZILWAUKEE.
413 SAGINAW	THOMAS.
414 SAGINAW	FRANKENMUTH.
415 SAGINAW	BRIDGEPORT.
416 SAGINAW	JAMES, ST. CHARLES, SWAN CREEK.
417 SAGINAW	FREMONT, JONESFIELD, LAKEFIELD, RICHLAND.
418 SAGINAW	BRADY, BRANT, CHAPIN, MARION.
419 SAGINAW	BLUMFIELD
420 SAGINAW	CHESANING, MAPLE GROVE.
421 SAGINAW	ALBEE, SPAULDING.
422 SAGINAW	BIRCH RUN, TAYMOUTH.
423 SANILAC	BUEL, ELK, LEXINGTON.

424	SANILAC	BRIDGEHAMPTON, CUSTER, FORESTER.
425	SANILAC	FLYNN, FREMONT, MAPLE VALLEY, SPEAKER, WORTH.
426	SANILAC	ARGYLE, AUSTIN, EVERGREEN, GREENLEAF, LAMOTTE, MOORE.
427	SANILAC	DELAWARE, MARION, MINDEN, WHEATLAND.
428	SANILAC	ELMER, MARLETTE.
429	SANILAC	SANILAC, WASHINGTON, WATERTOWN.
430	SCHOOLCRAFT	MANISTIQUE(CITY).
431	SCHOOLCRAFT	HIAWATHA, INWOOD, THOMPSON.
432	SCHOOLCRAFT	DOYLE, GERMFASK, MANISTIQUE, MUELLER, SENEY.
433	SHIAWASSEE	OWOSSO(CITY).
434	SHIAWASSEE	BENNINGTON, SCIOTA.
435	SHIAWASSEE	BURNS, VERNON.
436	SHIAWASSEE	CALEDONIA.
437	SHIAWASSEE	FAIRFIELD, MIDDLEBURY, OWOSSO.
438	SHIAWASSEE	HAZELTON, VENICE.
439	SHIAWASSEE	NEW HAVEN, RUSH.
440	SHIAWASSEE	ANTRIM, SHIAWASSEE.
441	SHIAWASSEE	PERRY, WOODHULL.
442	ST CLAIR	FORT GRATIOT, PORT HURON.
443	ST CLAIR	CASCO, CHINA, EAST CHINA, IRA.
444	ST CLAIR	CLAY, COTTRELLVILLE.
445	ST CLAIR	KIMBALL.
446	ST CLAIR	COLUMBUS, ST CLAIR.
447	ST CLAIR	BURTCHVILLE, CLYDE, GRANT.
448	ST CLAIR	BROCKWAY, GREENWOOD.
449	ST CLAIR	BERLIN, EMMETT, RILEY.
450	ST CLAIR	KENOCKEE, WALES.
451	ST CLAIR	LYNN, MUSSEY.
452	ST JOSEPH	STURGIS.
453	ST JOSEPH	COLON, NOTTAWA.
454	ST JOSEPH	CONSTANTINE, FLORENCE, SHEPMAN.
455	ST JOSEPH	FABIUS, FLOWERFIELD, LOCKPORT, PARK.
456	ST JOSEPH	LEONIDAS, MENDON.
457	ST JOSEPH	MOTTVILLE, WHITE PIGEON.
458	ST JOSEPH	BURR OAK, FAWN RIVER.
459	ST JOSEPH	THREE RIVERS(CITY).
460	TUSCOLA	CARO.
461	TUSCOLA	ALMER, ELLINGTON, NOVESTA.
462	TUSCOLA	ARBELA, MILLINGTON.
463	TUSCOLA	INDIANFIELDS, JUNIATA.
464	TUSCOLA	DAYTON, KINGSTON, KOYLTON, WELLS.
465	TUSCOLA	DENMARK, TUSCOLA.
466	TUSCOLA	ELKLAND, ELMWOOD.
467	TUSCOLA	FAIRGROVE, GILFORD.
468	TUSCOLA	FREMONT, VASSAR, WATERTOWN.
469	TUSCOLA	VASSAR(CITY).
470	TUSCOLA	AKRON, COLUMBIA, WISNER.
471	VAN BUREN	SOUTH HAVEN(CITY).
472	VAN BUREN	ANTWERP, DECATUR, PORTER.
473	VAN BUREN	ARLINGTON, HARTFORD, LAWRENCE.
474	VAN BUREN	BANGOR, COLUMBIA, GENEVA.
475	VAN BUREN	BLOOMINGDALE, PINE GROVE.
476	VAN BUREN	COVERT, SOUTH HAVEN.
477	VAN BUREN	HAMILTON, KEELER.
478	VAN BUREN	ALMENA, PAW PAW, WAVERLY.
479	WASHTENAW	ANN ARBOR(CITY).
480	WASHTENAW	ANN ARBOR.
481	WASHTENAW	PITTSFIELD.

482	WASHTENAW	SCIO, WEBSTER.
483	WASHTENAW	YPSILANTI(CITY).
484	WASHTENAW	YPSILANTI.
485	WASHTENAW	SUPERIOR.
486	WASHTENAW	AUGUSTA, YORK.
487	WASHTENAW	LODI, SALINE.
488	WASHTENAW	BRIDGEWATER, FREEDOM, SHARON.
489	WASHTENAW	MANCHESTER.
490	WASHTENAW	LIMA, SYLVAN.
491	WASHTENAW	DEXTER, LYNDON.
492	WASHTENAW	NORTHFIELD, SALEM.
493	WAYNE	DETROIT(PART 1 OF 3), EAST OF LIVERNOIS, WEST OF JOHN R, SOUTH AND WEST OF EAST GRAND BLVD.
494	WAYNE	DEARBORN(CITY).
495	WAYNE	DETROIT(PART 2 OF 3), WEST OF LIVERNOIS, NORTH OF TIREMAN.
496	WAYNE	DETROIT (PART 3 OF 3), EAST OF JOHN R, EAST OF OAKLAND, NORTH AND EAST OF EAST GRAND BLVD.
497	WAYNE	ALLEN PARK(CITY), ECORSE(CITY), LINCOLN PARK(CITY), MELVINDALE(CITY), RIVER ROUGE(CITY), SOUTHGATE(CITY), WYANDOTTE(CITY).
498	WAYNE	TAYLOR(CITY).
499	WAYNE	BROWNSTOWN, GROSSE ISLE, HURON.
500	WAYNE	ROMULUS, SUMPTER, VAN BUREN.
501	WAYNE	CANTON.
502	WAYNE	NORTHVILLE, PLYMOUTH.
503	WAYNE	GROSSE PTE(CITY), GROSSE PTE FARMS(CITY), GROSSE PTE PARK(CITY), GROSSE PTE SHORES(CITY) GROSSE PTE WOODS(CITY), HARPER WOODS(CITY).
504	WAYNE	REDFORD.
505	WEXFORD	CADILLAC(CITY).
506	WEXFORD	BOON, CHERRY GROVE, CLAM LAKE, HARING, HENDERSON, SOUTH BRANCH, SELMA, SLAGLE.
507	WEXFORD	ANTIOCH, HANOVER, SPRINGVILLE, WEXFORD.
508	WEXFORD	CEDAR CREEK, COLFAX, GREENWOOD, LIBERTY.

ZONE	PROVINCE	MAJOR CITIES WITHIN ZONE
----	-----	-----
509	ONTARIO	LEAMINGTON, TILBURY, WINDSOR.
510	ONTARIO	SARNIA.
511	ONTARIO	FORT FRANÇES, KENORA, SAULT STE. MARIE, SUDBURY, TIMMINS.
512	ONTARIO	CHATHAM, GODFRICH, HAMILTON, KITCHNER, LONDON, NIAGARA FALLS, WALLACEBURG.
513	ONTARIO	KINGSTON, OTTAWA, PEMBROKE, STURGEON FALLS, TORONTO.

ZONE	STATE	COUNTY
----	-----	-----
514	WISCONSIN	IRON.
515	WISCONSIN	ASHLAND, BAYFIELD.
516	WISCONSIN	ONEIDA, VILAS.
517	WISCONSIN	FOREST.
518	WISCONSIN	FLORENCE.
519	WISCONSIN	MARINETTE.
520	WISCONSIN	BURNETT, DOUGLAS, SAWYER, WASHBURN.
521	WISCONSIN	BARRON, BUFFALO, CHIPPEWA, CLARK, DUNN, EAU CLAIRE, JACKSON, LANGLADE, LINCOLN, MARATHON, PEPIN, PIERCE, POLK, PORTAGE, PRICE, RUSK, ST CROIX, TAYLOR, TREMPLEAU, WOOD.
522	WISCONSIN	BROWN, CALUMET, DOOR, FOND DU LAC, KEWAUNEE, MANITOWOC,

MENOMINEE, MONTO, OUTAGAMIE, SHAWANO, SHEBOYGAN, WAUPACA,
 WINNEBAGO.
 523 WISCONSIN DANE, DODGE, JEFFERSON, KENOSHA, MILWAUKEE, OZAUKEE, RACINE,
 ROCK, WALWORTH, WASHINGTON, WAUKESHA.
 524 WISCONSIN ADAMS, COLUMBIA, CRAWFORD, GRANT, GREEN, GREEN LAKE, IOWA,
 JUNEAU, LA CROSSE, LAFAYETTE, MARQUETTE, MONROE, RICHLAND,
 SAUK, VERNON, WAUSHARA.
 525 ILLINOIS BOONE, COOK, DE KALB, DU PAGE, GRUNDY, KANE, KENDALL, LAKE,
 MCHENRY, WILL, WINNEBAGO.
 526 ILLINOIS BUREAU, CARROLL, CHAMPAIGN, CHRISTIAN, COLES, DE WITT,
 DOUGLAS, EDGAR, FORD, FULTON, HENDERSON, HENRY, IROQUOIS,
 JO DAVIESS, KANKAKEE, KNOX, LA SALLE, LEE, LIVINGSTON,
 LOGAN, MACON, MARSHALL, MASON, MCLFAN, MENARD, MERCER,
 MOULTRIE, OGLE, PEORIA, PIATT, PUTNAM, ROCK ISLAND,
 SANGAMON, STARK, STEPHENSON, TAZEWELL, VERMILION, WARREN,
 WHITESIDE, WOODFORD.
 527 ILLINOIS ADAMS, ALEXANDER, BOND, BROWN, CALHOUN, CASS, CLARK, CLAY,
 FAYETTE, FRANKLIN, GALLATIN, GREENE, HAMILTON, HANCOCK,
 CLINTON, CRAWFORD, CUMBERLAND, EDWARDS, EFFINGHAM,
 HARDIN, JACKSON, JASPER, JEFFERSON, JERSEY, JOHNSON,
 LAWRENCE, MACOUPIN, MADISON, MARION, MASSAC, MCDONOUGH,
 MONROE, MONTGOMERY, MORGAN, PERRY, PIKE, POPE, PULASKI,
 RANDOLPH, RICHLAND, SALINE, SCHUYLER, SCOTT, SHELBY,
 ST CLAIR, UNION, WABASH, WASHINGTON, WAYNE, WHITE,
 WILLIAMSON.
 528 INDIANA LAKE, PORTER.
 529 INDIANA LAPORTE, STARKE.
 530 INDIANA MARSHALL, ST JOSEPH.
 531 INDIANA ELKHART, KOSCIUSKO.
 532 INDIANA ALLEN, DE KALB, LAGRANGE, NOBLE, STEUBEN, WHITLEY.
 533 INDIANA ADAMS, BENTON, BLACKFORD, BOONE, CARROLL, CASS, CLINTON,
 DELAWARE, FOUNTAIN, FULTON, GRANT, HENRY, HOWARD,
 HUNTINGTON, JASPER, JAY, MADISON, MIAMI, MONTGOMERY, NEWTON,
 PULASKI, RANDOLPH, TIPPECANOE, TIPTON, WABASH, WARREN,
 WAYNE, WELLS, WHITE.
 534 INDIANA BARTHOLOMEW, BROWN, CLARK, CLAY, CRAWFORD, DAVIESS,
 DEARBORN, DECATUR, DUBOIS, FAYETTE, FLOYD, FRANKLIN, GIBSON,
 GREENE, HAMILTON, HANCOCK, HARRISON, HENDRICKS, JACKSON,
 JEFFERSON, JENNINGS, JOHNSON, KNOX, LAWRENCE, MARION,
 MARTIN, MONROE, MORGAN, OHIO, ORANGE, OWEN, PARKE, PERRY,
 PIKE, POSEY, PUTNAM, RIPLEY, RUSH, SCOTT, SHELBY, SPENCER,
 SULLIVAN, SWITZERLAND, UNION, VANDERBURGH, VERMILLION, VIGO,
 WARRICK, WASHINGTON.
 535 OHIO DEFIANCE, WILLIAMS.
 536 OHIO FULTON, HENRY.
 537 OHIO LUCAS, WOOD.
 538 OHIO ALLEN, AUGLAIZE, CRAWFORD, DARKE, ERIE, HANCOCK, HARDIN,
 HURON, LOGAN, MARION, MERCER, OTTAWA, PAULDING, PUTNAM,
 SANDUSKY, SENECA, SHELBY, VAN WERT, WYANDOT.
 539 OHIO ASHTABULA, BELMONT, CARROLL, COLUMBIANA, COSHOCTON,
 CUYAHOGA, DELAWARE, FAIRFIELD, FRANKLIN, GEauga, HAMILTON,
 HARRISON, JACKSON, JEFFERSON, LAKE, LORAIN, MAHONING,
 MEDINA, PORTAGE, STARK, SUMMIT, TRUMBULL, WARREN,
 WASHINGTON.
 540 OHIO ADAMS, ASHLAND, ATHENS, BROWN, BUTLER, CHAMPAIGN, CLARK,
 CLERMONT, CLINTON, FAYETTE, GALLIA, GREENE, GUERNSEY,
 HIGHLAND, HOCKING, HOLMES, KNOX, LAWRENCE, LICKING, MADISON,
 MEIGS, MIAMI, MONROE, MONTGOMERY, MORGAN, MORROW, MUSKINGUM,
 NOBLE, PERRY, PICKAWAY, PIKE, PREBLE, RICHLAND, ROSS,
 SCIOTO, TUSCARAWAS, UNION, VINTON, WAYNE.

ZONE

STATE

541 NORTH CAROLINA, VIRGINIA, WEST VIRGINIA.
542 ALABAMA, FLORIDA, GEORGIA, KENTUCKY, SOUTH CAROLINA,
TENNESSEE.
543 ARIZONA, ARKINSAW, KANSAS, LOUISIANA, MISSISSIPPI, MISSOURI,
NEW MEXICO, OKLAHOMA, TEXAS.
544 CALIFORNIA, COLORADO, HAWAII, IDAHO, IOWA, NEBRASKA, NEVADA,
OREGON, UTAH, WYOMING.
545 ALASKA, MINNESOTA, MONTANA, NORTH DAKOTA, SOUTH DAKOTA,
WASHINGTON.
546 DISTRICT OF COLUMBIA, DELAWARE, MARYLAND, NEW JERSEY,
PENNSYLVANIA.
547 CONNECTICUT, MAINE, MASSACHUSETTS, NEW HAMPSHIRE, NEW YORK,
RHODE ISLAND, VERMONT.