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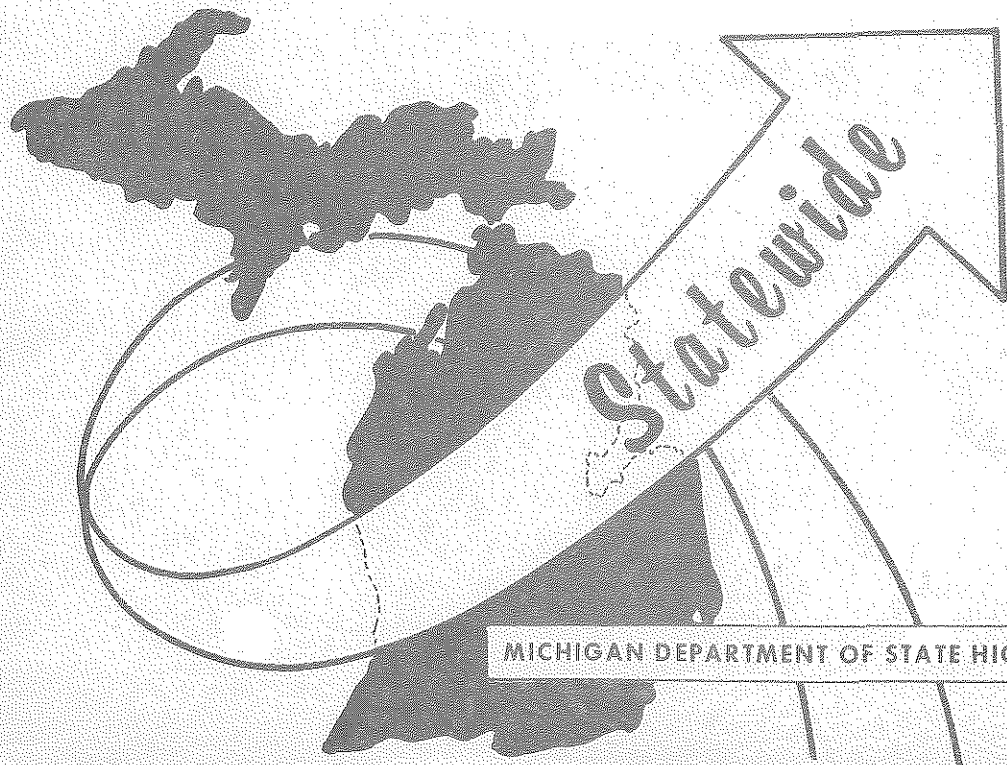
Statewide Transportation Analysis & Research

MICHIGAN'S STATEWIDE
TRANSPORTATION MODELING SYSTEM
REFERENCE HANDBOOK NO. 3

MINOR ORIGIN & DESTINATION
TRAVEL CHARACTERISTICS
REGION 10

STATEWIDE PROCEDURES SECTION

SEPTEMBER, 1978



MICHIGAN DEPARTMENT OF STATE HIGHWAYS AND TRANSPORTATION

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BUREAU OF TRANSPORTATION PLANNING

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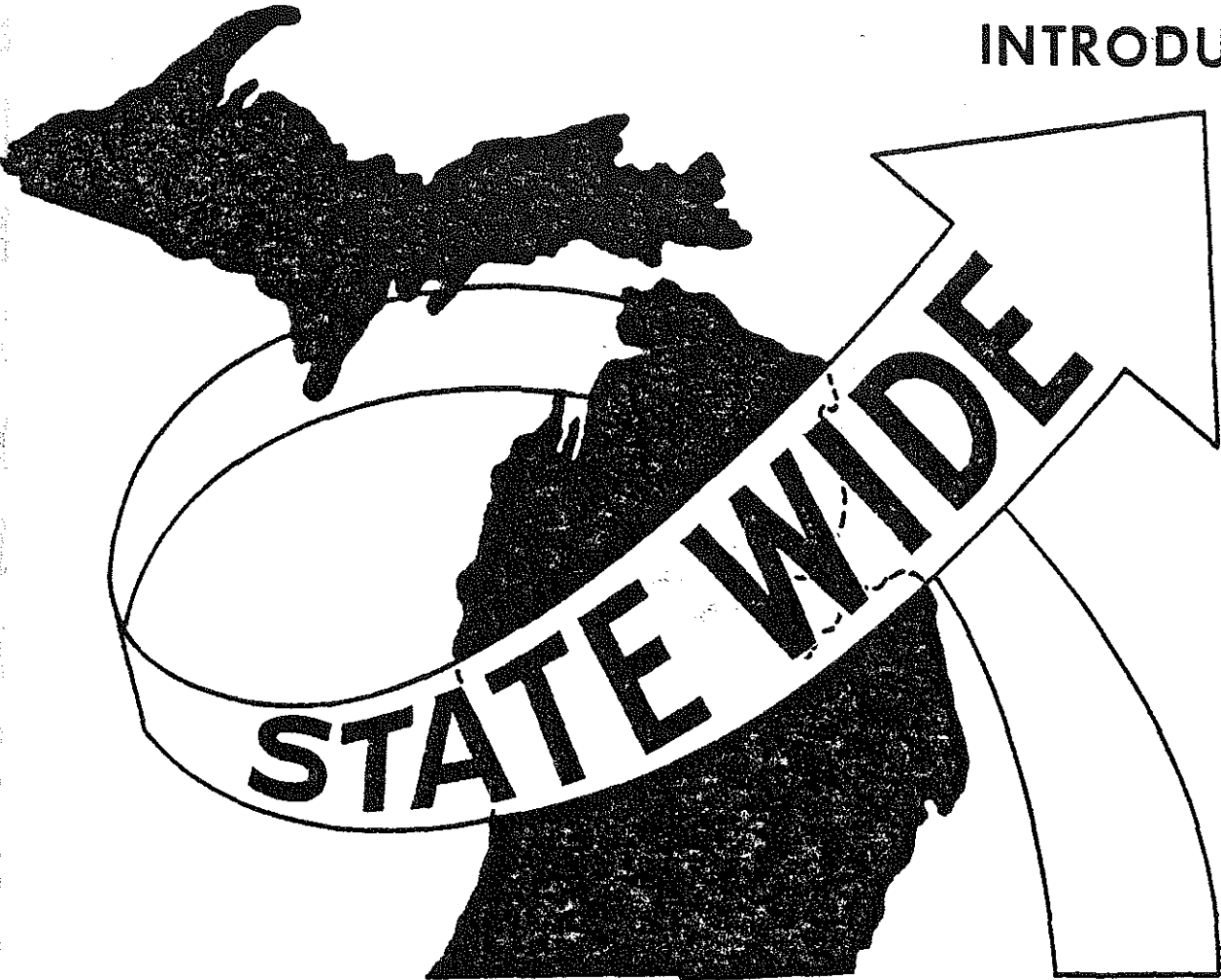
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MINOR ORIGIN AND DESTINATION TRAVEL CHARACTERISTICS

BY: DAVID R SCHADE

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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

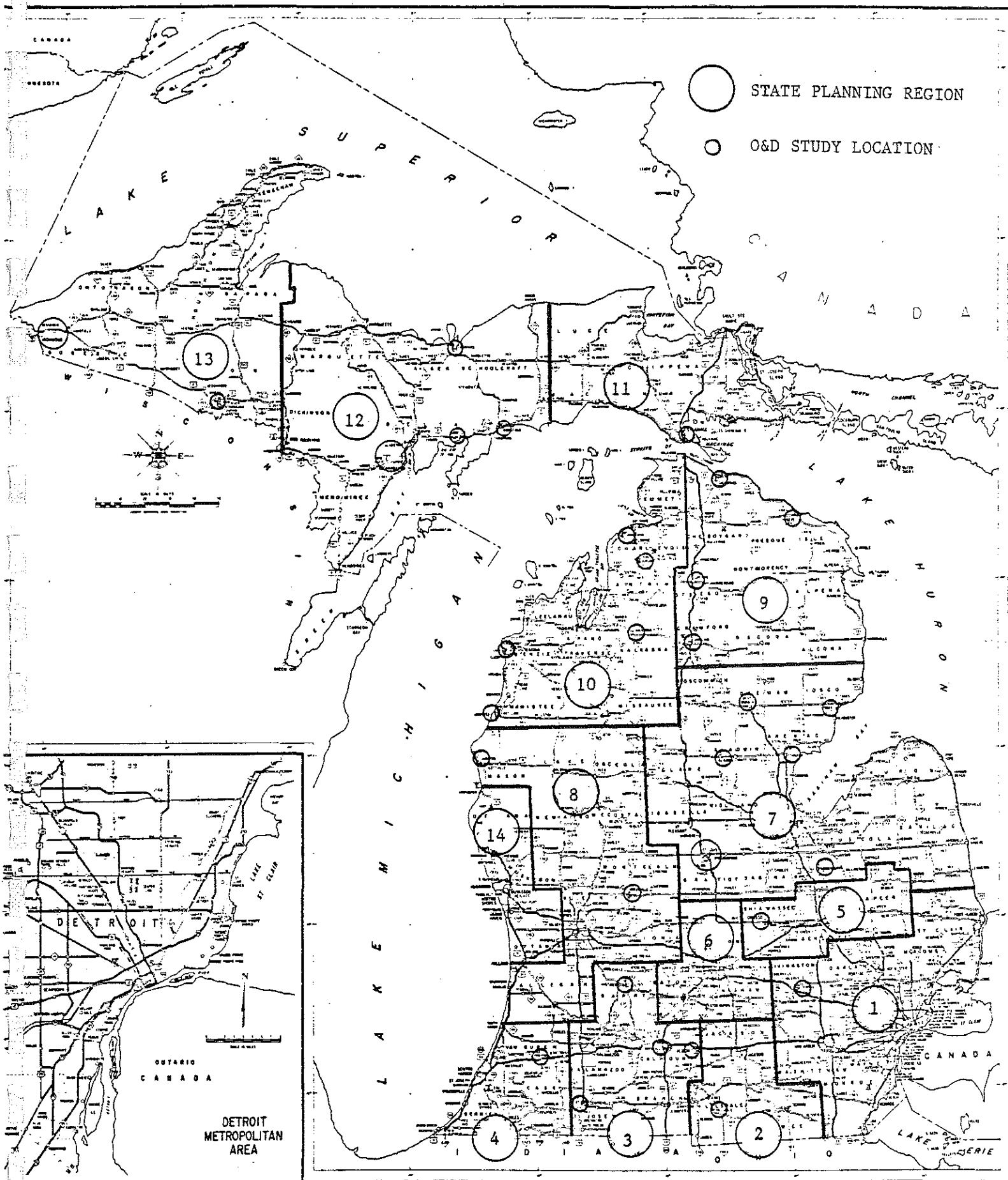
STATEWIDE SYSTEM APPLICATION REPORTS

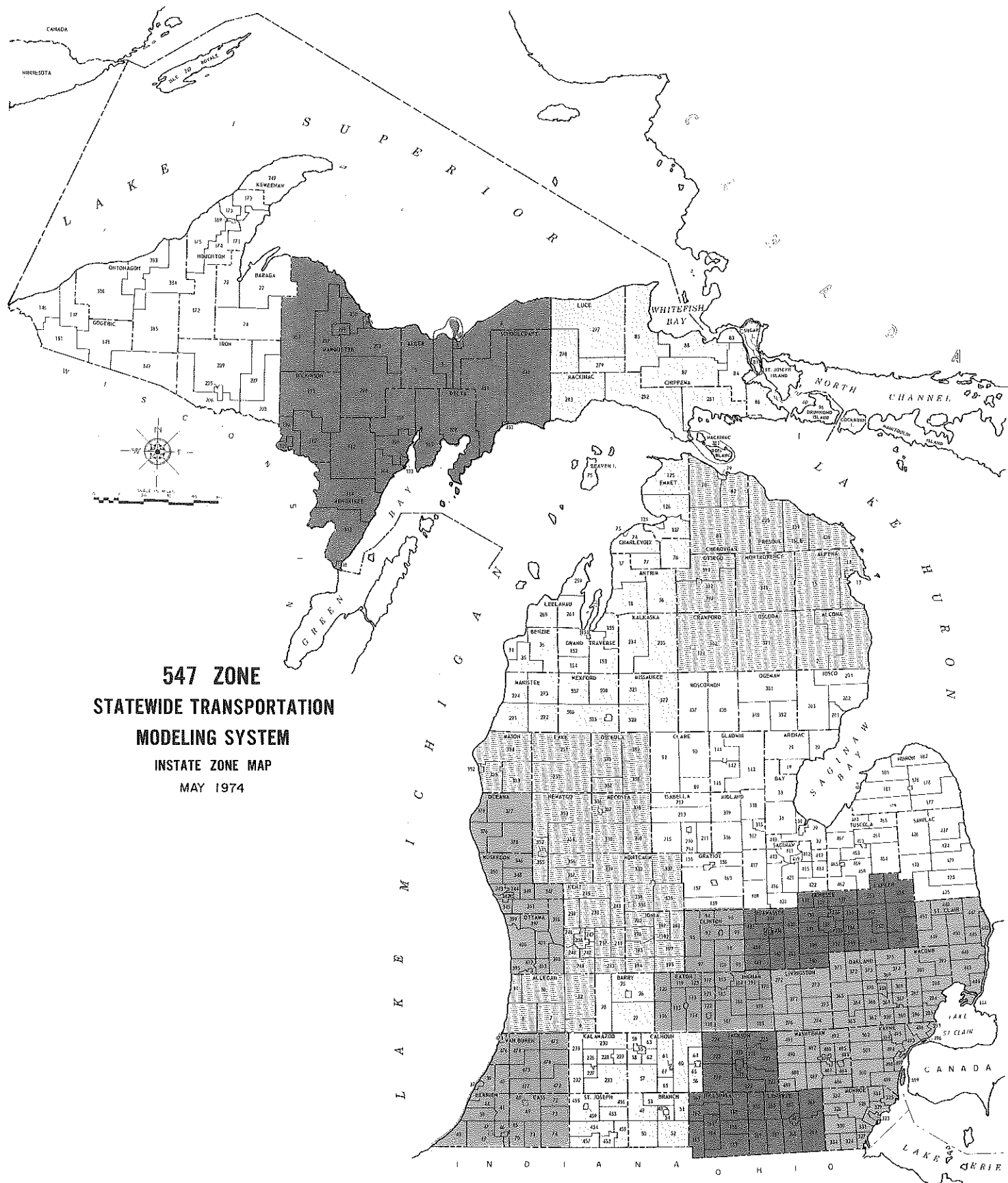
- REPORT 1 - COMMUNITY COLLEGE SERVICE - AREA ANALYSIS
- REPORT 2 - PROXIMITY OF PEOPLE TO GENERAL PURPOSE HOSPITALS
- REPORT 3 - INDUSTRIAL PARK PROXIMITY ANALYSIS
- REPORT 4 - PROXIMITY OF AUTOMOBILE INJURY ACCIDENTS TO HOSPITALS
- REPORT 5 - PROXIMITY OF AIRPORTS WITH SCHEDULED SERVICE TO POPULATION
- 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



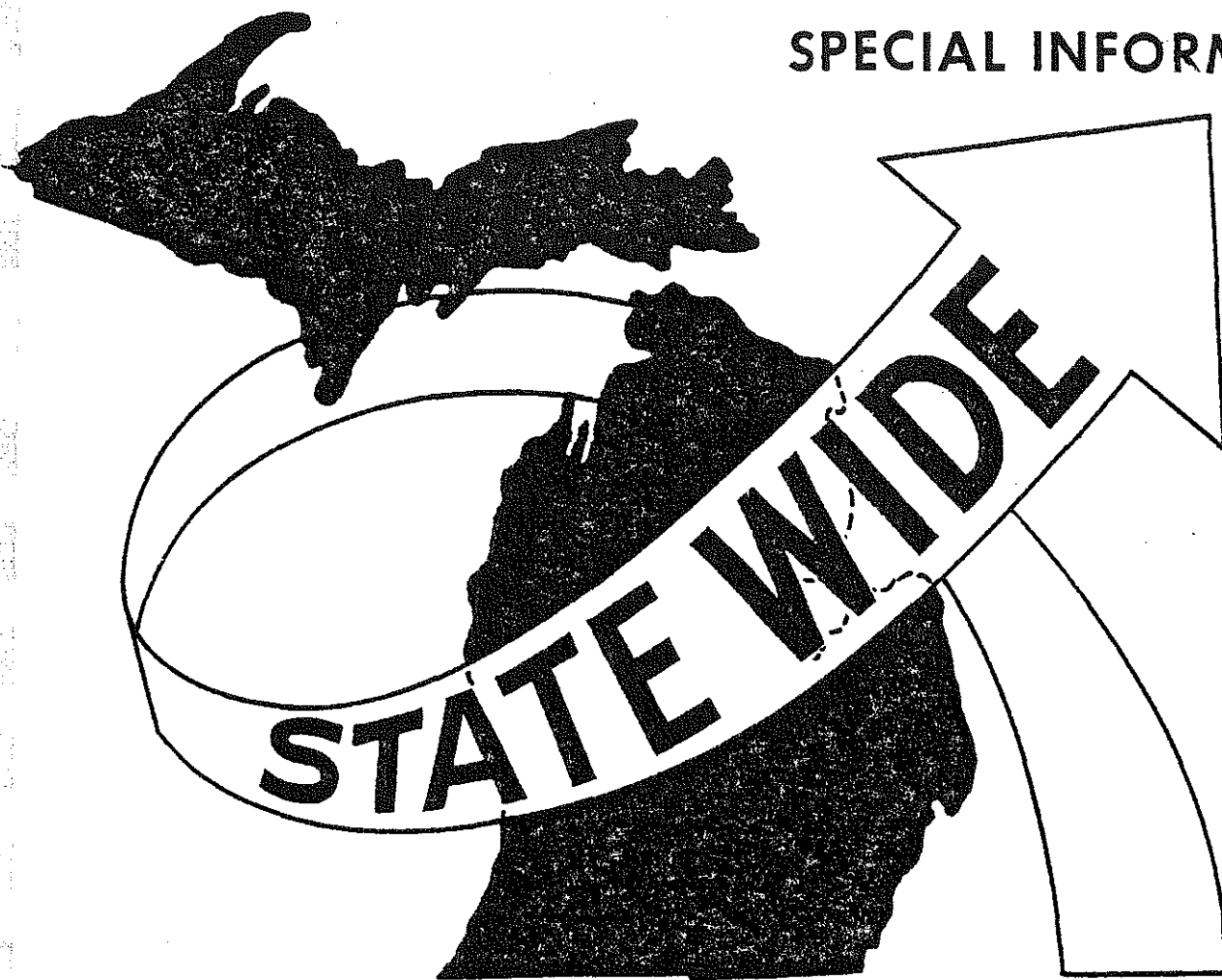


MICHIGAN'S TRANSPORTATION MODELING SYSTEM

547 ZONE OUTSTATE ANALYSIS ZONES



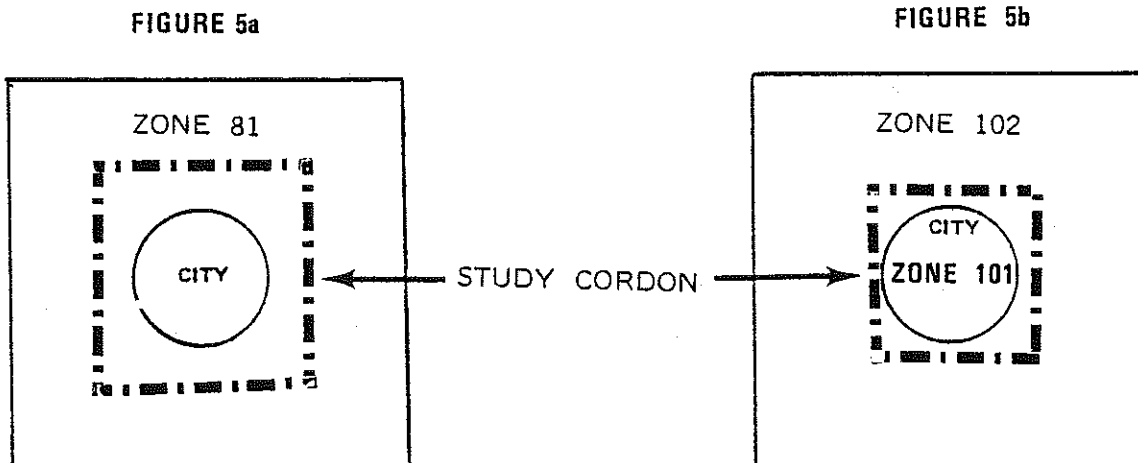
SPECIAL INFORMATION



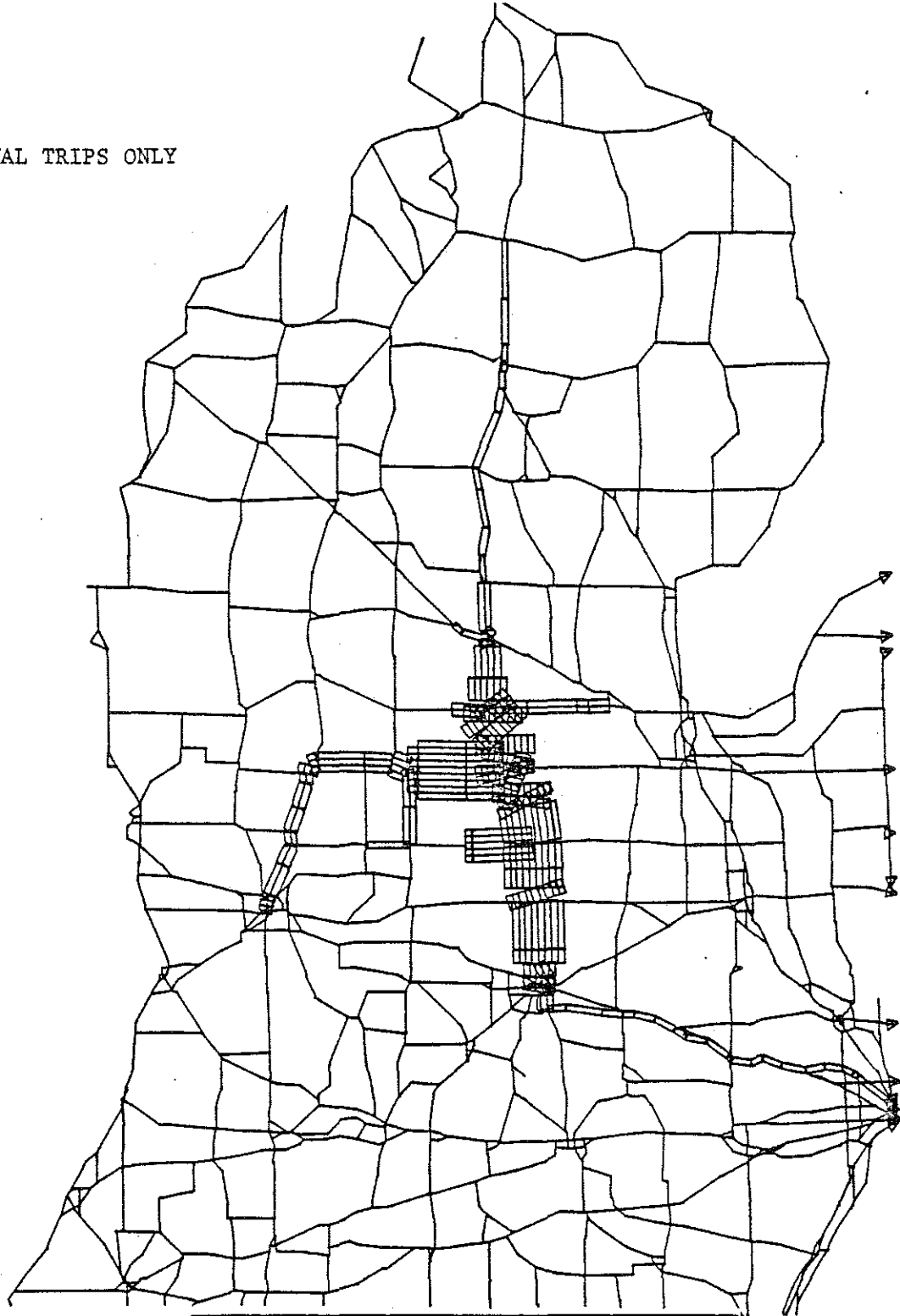
SPECIAL INFORMATION

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.

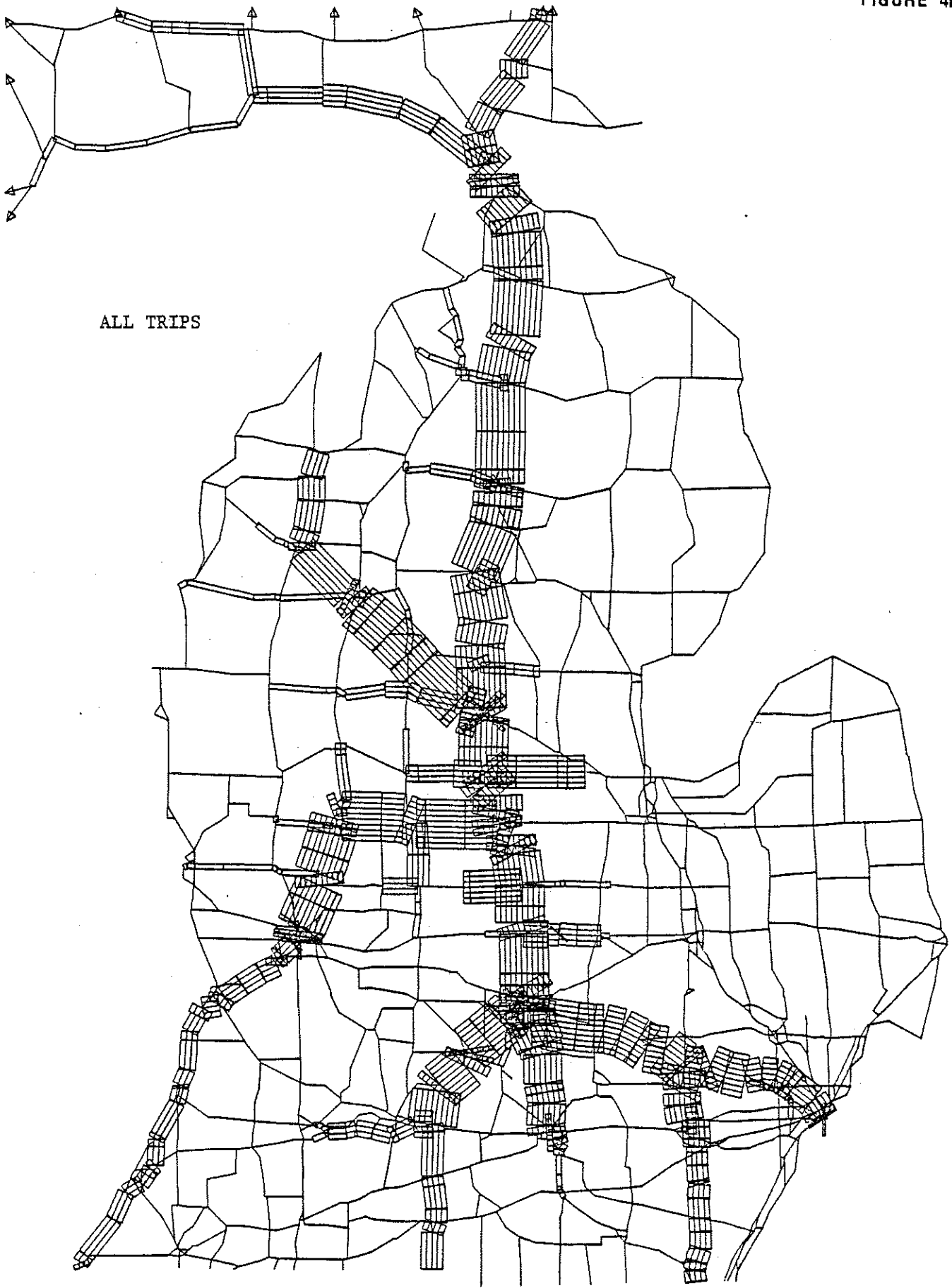
There are some instances where the O&D city is not a statewide model zone in itself, such as in Figure 5a. Generally, this does not present a problem, but the reader should be made aware of it. The trips that go into the study city will be shown as going to the zone that surrounds the city. The ideal 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



ALMASTLOUIS BANDWIDTH



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 TRLR	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	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

PERCENT OF TRIPS

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% ← 3075	43.3% 367	30.4% 1091	8.6% 38	29.9% 604	39.0% 304
	NUMBER OF TRIPS					
2	16.8% ← 688	35.0% 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

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

MINUTES

TRIP LENGTH FREQUENCY DISTRIBUTION-CHEBOYGAN

PAGE

MINUTES	FREQUENCY	CUMULATIVE PERCENT
0	0.000	0.0
3	0.000	0.0
6	0.000	0.0
9	0.000	0.0
12	0.000	0.0
15	0.000	0.0
18	0.000	0.0
21	0.000	0.0
24	0.000	0.0
27	0.000	0.0
30	0.000	0.0
33	0.000	0.0
36	0.000	0.0
39	0.000	0.0
42	0.024	0.3
45	0.000	0.3
48	0.000	0.3
51	0.000	0.3
54	0.000	0.3
57	0.000	0.3
60	0.000	0.3
10	0.000	0.3
20	0.000	0.3
30	0.000	0.3
40	0.000	0.3
50	0.000	0.3
60	0.000	0.3
70	0.000	0.3
80	0.000	0.3
90	0.000	0.3
100	0.000	0.3
110	0.000	0.3
120	0.000	0.3
130	0.000	0.3
140	0.000	0.3
150	0.000	0.3
160	0.000	0.3
170	0.000	0.3
180	0.000	0.3
190	0.000	0.3
200	0.000	0.3
210	0.000	0.3
220	0.000	0.3
230	0.000	0.3
240	0.000	0.3
250	0.000	0.3
260	0.000	0.3
270	0.000	0.3
280	0.000	0.3
290	0.000	0.3
300	0.000	0.3
310	0.000	0.3
320	0.000	0.3
330	0.000	0.3
340	0.000	0.3
350	0.000	0.3
360	0.000	0.3
370	0.000	0.3
380	0.000	0.3
390	0.000	0.3
400	0.000	0.3
410	0.000	0.3
420	0.000	0.3
430	0.000	0.3
440	0.000	0.3
450	0.000	0.3
460	0.000	0.3
470	0.000	0.3
480	0.000	0.3
490	0.000	0.3
500	0.000	0.3
510	0.000	0.3
520	0.000	0.3
530	0.000	0.3
540	0.000	0.3
550	0.000	0.3
560	0.000	0.3
570	0.000	0.3
580	0.000	0.3
590	0.000	0.3
600	0.000	0.3

PERCENT OF TRIPS

REMAINING VALUES ARE ALL ZERO
 NUMBER OF OBSERVATIONS= 4088 SUM= 159647 MEAN= 39.053 VAR= 1934.962 SD= 42.5

TOTAL TRIPS OVER MAXP = 0
 TOTAL TRIPS OVER 255 = 0
 VOLUME TABLE NUMBER = 201 ← WORK TRIPS
 SKIM TREE NUMBER = 191

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	CAP 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% 419	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
STATE	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% 7619	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% 19224	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	18.6% 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
TOTAL	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% 23136	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% 16595	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% 9504	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-REFC	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.

IMARTS TRIP LENGTH FREQUENCY DISTRIBUTION-FOT

TRIP LENGTH	FREQUENCY	P.C.	CUM.	ACTUAL
0	17.038	17.038	31407
2	31.897	48.935	59361
4	16.806	65.741	31474
6	13.850	79.591	29578
8	7.157	86.748	13403
10	3.846	90.594	7206
12	1.946	92.540	3049
14	1.501	94.041	2924
16	1.178	95.219	2192
18	0.837	96.056	1192
20	0.591	96.647	1701
22	0.399	97.046	748
24	0.232	97.278	434
26	0.214	97.492	400
28	0.372	97.864	696
30	0.140	98.004	274
32	0.173	98.177	324
34	0.135	98.312	253
36	0.075	98.387	141
38	0.088	98.475	164
40	0.133	98.608	250
42	0.075	98.683	141
44	0.136	98.819	259
46	0.001	98.820	114
48	0.050	98.870	104
50	0.029	98.899	54
52	0.030	98.929	110
54	0.022	98.951	57
56	0.036	98.987	41
58	0.020	99.007	71
60	0.020	99.027	49
62	0.020	99.047	45
64	0.016	99.063	64
66	0.014	99.077	27
68	0.030	99.107	64
70	0.011	99.118	21
72	0.010	99.128	16
74	0.014	99.142	27
76	0.004	99.146	7
78	0.011	99.157	20
80	0.008	99.165	15
82	0.036	99.201	66
84	0.012	99.213	22
86	0.015	99.228	28
88	0.017	99.245	31
90	0.006	99.251	14
92	0.011	99.262	20
94	0.003	99.265	5
96	0.006	99.271	8
98	0.008	99.279	15
100	0.002	99.281	5
102	0.008	99.289	11
104	0.008	99.297	5
106	0.003	99.300	5
108	0.005	99.305	5
110	0.002	99.307	5
112	0.008	99.315	15
114	0.006	99.321	12
116	0.003	99.324	5
118	0.005	99.329	5
120	0.001	99.330	5
122	0.000	99.330	0
124	0.000	99.330	0
126	0.001	99.331	5
128	0.000	99.331	0
130	0.000	99.331	0
132	0.001	99.332	5
134	0.003	99.335	15
136	0.002	99.337	10
138	0.002	99.339	10
140	0.002	99.341	10
142	0.002	99.343	10
144	0.001	99.344	5
146	0.005	99.349	15
148	0.001	99.350	5
150	0.001	99.351	5
152	0.001	99.352	5
154	0.001	99.353	5
156	0.001	99.354	5
158	0.001	99.355	5
160	0.001	99.356	5
162	0.001	99.357	5
164	0.001	99.358	5
166	0.001	99.359	5
168	0.001	99.360	5
170	0.001	99.361	5
172	0.001	99.362	5
174	0.001	99.363	5
176	0.001	99.364	5
178	0.001	99.365	5
180	0.001	99.366	5
182	0.001	99.367	5
184	0.001	99.368	5
186	0.001	99.369	5
188	0.001	99.370	5
190	0.001	99.371	5
192	0.001	99.372	5
194	0.001	99.373	5
196	0.001	99.374	5
198	0.001	99.375	5
200	0.001	99.376	5
202	0.001	99.377	5
204	0.001	99.378	5
206	0.001	99.379	5
208	0.001	99.380	5
210	0.001	99.381	5
212	0.001	99.382	5
214	0.001	99.383	5
216	0.001	99.384	5
218	0.001	99.385	5
220	0.001	99.386	5
222	0.001	99.387	5
224	0.001	99.388	5
226	0.001	99.389	5
228	0.001	99.390	5
230	0.001	99.391	5
232	0.001	99.392	5
234	0.001	99.393	5
236	0.001	99.394	5
238	0.001	99.395	5
240	0.001	99.396	5
242	0.001	99.397	5
244	0.001	99.398	5
246	0.001	99.399	5
248	0.001	99.400	5
250	0.001	99.401	5
252	0.001	99.402	5
254	0.001	99.403	5
256	0.001	99.404	5
258	0.001	99.405	5
260	0.001	99.406	5
262	0.001	99.407	5
264	0.001	99.408	5
266	0.001	99.409	5
268	0.001	99.410	5
270	0.001	99.411	5
272	0.001	99.412	5
274	0.001	99.413	5
276	0.001	99.414	5
278	0.001	99.415	5
280	0.001	99.416	5
282	0.001	99.417	5
284	0.001	99.418	5
286	0.001	99.419	5
288	0.001	99.420	5
290	0.001	99.421	5
292	0.001	99.422	5
294	0.001	99.423	5
296	0.001	99.424	5
298	0.001	99.425	5
300	0.001	99.426	5
302	0.001	99.427	5
304	0.001	99.428	5
306	0.001	99.429	5
308	0.001	99.430	5
310	0.001	99.431	5
312	0.001	99.432	5
314	0.001	99.433	5
316	0.001	99.434	5
318	0.001	99.435	5
320	0.001	99.436	5
322	0.001	99.437	5
324	0.001	99.438	5
326	0.001	99.439	5
328	0.001	99.440	5
330	0.001	99.441	5
332	0.001	99.442	5
334	0.001	99.443	5
336	0.001	99.444	5
338	0.001	99.445	5
340	0.001	99.446	5
342	0.001	99.447	5
344	0.001	99.448	5
346	0.001	99.449	5
348	0.001	99.450	5
350	0.001	99.451	5
352	0.001	99.452	5
354	0.001	99.453	5
356	0.001	99.454	5
358	0.001	99.455	5
360	0.001	99.456	5
362	0.001	99.457	5
364	0.001	99.458	5
366	0.001	99.459	5
368	0.001	99.460	5
370	0.001	99.461	5
372	0.001	99.462	5
374	0.001	99.463	5
376	0.001	99.464	5
378	0.001	99.465	5
380	0.001	99.466	5
382	0.001	99.467	5
384	0.001	99.468	5
386	0.001	99.469	5
388	0.001	99.470	5
390	0.001	99.471	5
392	0.001	99.472	5
394	0.001	99.473	5
396	0.001	99.474	5
398	0.001	99.475	5
400	0.001	99.476	5

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

NO TRIPS OVER MAXP * 17
 NO TRIPS OVER 255 * 0
 TIME TABLE NUMBER * 281
 TREE NUMBER * 101

WORK TRIPS

1MAR78

TRIP LENGTH FREQUENCY DISTRIBUTION-TOT

PAGE 3

TRIP LENGTH	FREQ	P.C.	CUM.	ACTUAL
0	1	19.028	19.028	749
2	1	35.341	54.369	1392
4	1	17.227	71.596	678
6	1	12.596	84.192	496
8	1	8.900	93.092	193
10	1	3.007	96.099	118
12	1	1.540	97.639	60
14	1	1.148	98.787	43
16	1	0.812	99.599	32
18	1	0.487	100.086	19
20	1	0.787	99.831	31
22	1	0.370	97.201	14
24	1	0.279	97.480	11
26	1	0.188	97.668	7
28	1	0.218	97.886	8
30	1	0.520	98.406	20
32	1	0.149	98.546	5
34	1	0.119	98.665	4
36	1	0.185	98.850	7
38	1	0.157	99.007	6
40	1	0.104	99.111	4
42	1	0.084	99.195	3
44	1	0.063	99.258	2
46	1	0.069	99.327	2
48	1	0.069	99.396	2
50	1	0.071	99.467	2
52	1	0.089	99.556	3
54	1	0.036	99.591	1
56	1	0.023	99.614	1
58	1	0.053	99.667	2
60	1	0.020	99.687	1
62	1	0.028	99.715	1
64	1	0.025	99.740	1
66	1	0.026	99.766	1
68	1	0.025	99.791	1
70	1	0.000	99.791	1
72	1	0.020	99.811	1
74	1	0.000	99.811	1
76	1	0.000	99.811	1
78	1	0.000	99.811	1
80	1	0.000	99.811	1
82	1	0.000	99.811	1
84	1	0.000	99.811	1
86	1	0.000	99.811	1
88	1	0.000	99.811	1
90	1	0.000	99.811	1
92	1	0.000	99.811	1
94	1	0.000	99.811	1
96	1	0.000	99.811	1
98	1	0.000	99.811	1
100	1	0.000	99.811	1
102	1	0.000	99.811	1
104	1	0.000	99.811	1
106	1	0.000	99.811	1
108	1	0.000	99.811	1
110	1	0.000	99.811	1
112	1	0.000	99.811	1
114	1	0.000	99.811	1
116	1	0.000	99.811	1
118	1	0.000	99.811	1
120	1	0.000	99.811	1
122	1	0.000	99.811	1
124	1	0.000	99.811	1
126	1	0.000	99.811	1
128	1	0.000	99.811	1
130	1	0.000	99.811	1
132	1	0.000	99.811	1
134	1	0.000	99.811	1
136	1	0.000	99.811	1
138	1	0.000	99.811	1
140	1	0.000	99.811	1
142	1	0.000	99.811	1
144	1	0.000	99.811	1
146	1	0.000	99.811	1
148	1	0.000	99.811	1
150	1	0.000	99.811	1
152	1	0.000	99.811	1
154	1	0.000	99.811	1
156	1	0.000	99.811	1
158	1	0.000	99.811	1
160	1	0.000	99.811	1
162	1	0.000	99.811	1
164	1	0.000	99.811	1
166	1	0.000	99.811	1
168	1	0.000	99.811	1
170	1	0.000	99.811	1
172	1	0.000	99.811	1
174	1	0.000	99.811	1
176	1	0.000	99.811	1
178	1	0.000	99.811	1
180	1	0.000	99.811	1
182	1	0.000	99.811	1
184	1	0.000	99.811	1
186	1	0.000	99.811	1
188	1	0.000	99.811	1
190	1	0.000	99.811	1
192	1	0.000	99.811	1
194	1	0.000	99.811	1
196	1	0.000	99.811	1
198	1	0.000	99.811	1
200	1	0.000	99.811	1
202	1	0.000	99.811	1
204	1	0.000	99.811	1
206	1	0.000	99.811	1
208	1	0.000	99.811	1
210	1	0.000	99.811	1
212	1	0.000	99.811	1
214	1	0.000	99.811	1
216	1	0.000	99.811	1
218	1	0.000	99.811	1
220	1	0.000	99.811	1
222	1	0.000	99.811	1
224	1	0.000	99.811	1
226	1	0.000	99.811	1
228	1	0.000	99.811	1
230	1	0.000	99.811	1
232	1	0.000	99.811	1
234	1	0.000	99.811	1
236	1	0.000	99.811	1
238	1	0.000	99.811	1
240	1	0.000	99.811	1
242	1	0.000	99.811	1
244	1	0.000	99.811	1
246	1	0.000	99.811	1
248	1	0.000	99.811	1
250	1	0.000	99.811	1
252	1	0.000	99.811	1
254	1	0.000	99.811	1
256	1	0.000	99.811	1
258	1	0.000	99.811	1
260	1	0.000	99.811	1
262	1	0.000	99.811	1
264	1	0.000	99.811	1
266	1	0.000	99.811	1
268	1	0.000	99.811	1
270	1	0.000	99.811	1
272	1	0.000	99.811	1
274	1	0.000	99.811	1
276	1	0.000	99.811	1
278	1	0.000	99.811	1
280	1	0.000	99.811	1
282	1	0.000	99.811	1
284	1	0.000	99.811	1
286	1	0.000	99.811	1
288	1	0.000	99.811	1
290	1	0.000	99.811	1
292	1	0.000	99.811	1
294	1	0.000	99.811	1
296	1	0.000	99.811	1
298	1	0.000	99.811	1
300	1	0.000	99.811	1
302	1	0.000	99.811	1
304	1	0.000	99.811	1
306	1	0.000	99.811	1
308	1	0.000	99.811	1
310	1	0.000	99.811	1
312	1	0.000	99.811	1
314	1	0.000	99.811	1
316	1	0.000	99.811	1
318	1	0.000	99.811	1
320	1	0.000	99.811	1
322	1	0.000	99.811	1
324	1	0.000	99.811	1
326	1	0.000	99.811	1
328	1	0.000	99.811	1
330	1	0.000	99.811	1
332	1	0.000	99.811	1
334	1	0.000	99.811	1
336	1	0.000	99.811	1
338	1	0.000	99.811	1
340	1	0.000	99.811	1
342	1	0.000	99.811	1
344	1	0.000	99.811	1
346	1	0.000	99.811	1
348	1	0.000	99.811	1
350	1	0.000	99.811	1
352	1	0.000	99.811	1
354	1	0.000	99.811	1
356	1	0.000	99.811	1
358	1	0.000	99.811	1
360	1	0.000	99.811	1
362	1	0.000	99.811	1
364	1	0.000	99.811	1
366	1	0.000	99.811	1
368	1	0.000	99.811	1
370	1	0.000	99.811	1
372	1	0.000	99.811	1
374	1	0.000	99.811	1
376	1	0.000	99.811	1
378	1	0.000	99.811	1
380	1	0.000	99.811	1
382	1	0.000	99.811	1
384	1	0.000	99.811	1
386	1	0.000	99.811	1
388	1	0.000	99.811	1
390	1	0.000	99.811	1
392	1	0.000	99.811	1
394	1	0.000	99.811	1
396	1	0.000	99.811	1
398	1	0.000	99.811	1
400	1	0.000	99.811	1

MINIMUM VALUES ARE ALL ZERO
 NUMBER OF OBSERVATIONS = 39410 SUM = 1105761 MEAN = 29.581 VAR = 1678.348 SD = 40.968

L TRIPS OVER MAXP = 2
 L TRIPS OVER 255 = 0
 THE TABLE NUMBER = 202
 TREE NUMBER = 101

PERS. BUSINESS TRIPS

1MART8 TRIP LENGTH FREQUENCY DISTRIBUTION-TOT

TRIP LENGTH	FREQ	P.C.	CUM.	ACTUAL
0	0	0.000	0.000	0
2	0	0.000	0.000	0
4	0	0.000	0.000	0
6	0	0.000	0.000	0
8	0	0.000	0.000	0
10	0	0.000	0.000	0
12	0	0.000	0.000	0
14	0	0.000	0.000	0
16	0	0.000	0.000	0
18	0	0.000	0.000	0
20	0	0.000	0.000	0
22	0	0.000	0.000	0
24	0	0.000	0.000	0
26	0	0.000	0.000	0
28	0	0.000	0.000	0
30	0	0.000	0.000	0
32	0	0.000	0.000	0
34	0	0.000	0.000	0
36	0	0.000	0.000	0
38	0	0.000	0.000	0
40	0	0.000	0.000	0
10	20	20.889	20.889	21022
20	57	57.583	58.473	37822
30	15	15.472	73.944	15570
40	12	12.236	86.181	12314
50	4	4.805	90.986	4836
60	2	2.457	93.444	2473
70	1	0.927	94.371	933
80	1	1.080	95.451	1087
90	1	0.554	96.005	558
100	1	0.283	96.289	285
110	1	0.862	97.150	867
120	1	0.288	97.438	290
130	1	0.281	97.700	281
140	1	0.215	97.914	218
150	1	0.084	97.978	84
160	1	0.199	98.177	200
170	1	0.063	98.239	63
180	1	0.125	98.364	126
190	1	0.180	98.544	181
200	1	0.108	98.651	107
210	1	0.095	98.746	96
220	1	0.067	98.813	67
230	1	0.178	98.990	179
240	1	0.090	99.081	91
250	1	0.093	99.174	94
260	1	0.201	99.375	202
270	1	0.075	99.449	75
280	1	0.049	99.498	49
290	1	0.023	99.521	23
300	1	0.079	99.600	79
310	1	3.063	99.662	3063
320	1	0.022	99.684	22
330	1	0.044	99.728	44
340	1	0.010	99.738	10
350	1	0.013	99.751	13
360	1	0.010	99.761	10
370	1	0.002	99.762	2
380	1	0.005	99.767	5
390	1	0.022	99.789	22
400	1	0.011	99.840	11
410	1	0.000	99.840	0
420	1	0.012	99.852	12
430	1	0.008	99.860	8
440	1	0.023	99.881	23
450	1	0.018	99.901	18
460	1	0.017	99.918	17
470	1	0.001	99.919	1
480	1	0.003	99.921	3
490	1	0.008	99.929	8
500	1	0.013	99.942	13
510	1	0.001	99.943	1
520	1	0.011	99.954	11
530	1	0.008	99.962	8
540	1	0.002	99.964	2
550	1	0.008	99.972	8
560	1	0.003	99.975	3
570	1	0.004	99.978	4
580	1	0.002	99.980	2
590	1	0.000	99.980	0
600	1	0.001	99.981	1
610	1	0.001	99.982	1
620	1	0.003	99.985	3
630	1	0.000	99.985	0
640	1	0.000	99.985	0
650	1	0.002	99.987	2
660	1	0.000	99.987	0
670	1	0.000	99.987	0
680	1	0.004	99.991	4
690	1	0.002	99.993	2
700	1	0.001	99.994	1
710	1	0.000	99.994	0
720	1	0.000	99.994	0
730	1	0.000	99.994	0
740	1	0.000	99.994	0
750	1	0.000	99.994	0

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

ALL TRIPS OVER MAXP = 0
 ALL TRIPS OVER 255 = 0
 THE TABLE NUMBER = 203
 THE YEAR NUMBER = 101

SHOPPING TRIPS

IMARTS TRIP LENGTH FREQUENCY DISTRIBUTION=TOT

	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																						5.063	5.063	119
20																						8.715	14.598	182
30																						5.502	19.990	117
40																						12.167	32.157	255
50																						3.342	35.499	70
60																						7.858	43.137	166
70																						2.565	45.702	53
80																						5.507	51.209	115
90																						4.105	55.313	86
100																						1.830	57.149	38
110																						3.280	60.429	68
120																						1.778	62.207	37
130																						2.207	64.415	44
140																						1.754	66.169	34
150																						0.882	67.051	12
160																						2.532	69.583	53
170																						1.440	71.023	30
180																						1.411	72.434	29
190																						1.874	74.308	39
200																						1.383	75.690	29
210																						1.545	77.235	32
220																						0.658	77.893	13
230																						1.528	79.421	32
240																						1.235	80.656	25
250																						1.216	81.872	25
260																						1.769	83.641	37
270																						1.492	85.133	31
280																						0.987	86.120	20
290																						0.853	86.973	17
300																						1.125	88.098	22
310																						0.966	89.064	20
320																						0.806	89.870	18
330																						1.087	90.957	24
340																						0.234	91.190	5
350																						0.462	91.652	10
360																						0.319	91.971	7
370																						0.420	92.391	9
380																						0.277	92.668	6
390																						0.319	92.987	7
400																						0.296	93.283	6
410																						0.267	93.550	5
420																						0.468	94.018	10
430																						1.305	94.323	29
440																						1.025	95.348	23
450																						0.267	95.615	6
460																						0.191	95.806	4
470																						0.343	96.149	8
480																						0.324	96.473	7
490																						0.200	96.673	4
500																						0.176	96.849	3
510																						0.234	97.183	5
520																						3.391	97.492	76
530																						0.038	97.530	1
540																						0.391	97.921	8
550																						0.186	98.107	2
560																						0.138	98.245	1
570																						0.145	98.390	1
580																						0.033	98.422	0
590																						0.110	98.532	1
600																						0.024	98.556	0
610																						0.243	98.799	3
620																						0.095	98.894	1
630																						0.091	98.985	1
640																						0.629	99.613	14
650																						0.024	99.637	0
660																						0.010	99.647	0
670																						0.200	99.847	4
680																						0.010	99.857	0
690																						0.119	99.975	2
700																						0.057	99.933	1
710																						0.010	99.942	0
720																						0.029	99.971	1
730																						0.057	99.928	1
740																						0.057	99.985	1
750																						0.415	100.000	100

MINING VALUES ARE ALL ZERO
 NUMBER OF OBSERVATIONS* 24975 SUM* 2821726 MEAN* 134.528 VAR* 20258.672 SD* 142.333

L TRIPS OVER MAXP * 87
 L TRIPS OVER 255 * 0
 ME TABLE NUMBER * 204
 TREE NUMBER * 101

VACATION TRIPS

1MAR78 TRIP LENGTH FREQUENCY DISTRIBUTION-TOT

TRIP LENGTH	FREQUENCY	P.C.	SUM.	ACTUAL
0	10	17.917	17.917	14496
2	20	34.835	52.301	27920
4	30	15.558	67.860	12562
6	40	10.738	78.598	8662
8	50	4.744	83.342	3632
10	60	3.420	86.762	2767
12	70	1.667	88.429	1349
14	80	1.606	90.034	1296
16	90	1.175	91.210	951
18	100	0.735	91.945	595
20	110	1.049	93.594	1330
22	120	0.787	94.381	637
24	130	0.600	95.047	535
26	140	0.428	95.475	340
28	150	0.377	95.852	305
30	160	0.492	96.344	390
32	170	0.264	96.608	210
34	180	0.240	96.848	190
36	190	0.374	97.223	300
38	200	0.292	97.514	230
40	210	0.197	97.711	150
	220	0.130	97.841	100
	230	0.251	98.092	200
	240	0.159	98.251	120
	250	0.187	98.438	150
	260	0.185	98.623	150
	270	0.137	98.760	110
	280	0.053	98.813	40
	290	0.125	98.938	100
	300	0.091	99.030	70
	310	0.087	99.116	70
	320	0.061	99.177	40
	330	0.069	99.246	50
	340	0.016	99.262	10
	350	0.044	99.307	30
	360	0.017	99.324	10
	370	0.052	99.376	40
	380	0.027	99.403	20
	390	0.028	99.431	20
	400	0.025	99.456	20
	410	0.007	99.464	10
	420	0.047	99.511	30
	430	0.025	99.535	20
	440	0.060	99.616	60
	450	0.023	99.639	10
	460	0.015	99.654	10
	470	0.042	99.696	30
	480	0.022	99.718	10
	490	0.019	99.737	10
	500	0.026	99.763	20
	510	0.041	99.803	50
	520	0.016	99.820	10
	530	0.002	99.822	10
	540	0.026	99.848	20
	550	0.021	99.869	10
	560	0.009	99.878	10
	570	0.010	99.888	10
	580	0.004	99.891	10
	590	0.004	99.895	10
	600	0.010	99.905	10
	610	0.009	99.913	10
	620	0.004	99.917	10
	630	0.010	99.927	10
	640	0.006	99.933	10
	650	0.026	99.959	20
	660	0.000	99.959	0
	670	0.007	99.967	10
	680	0.001	99.968	10
	690	0.000	99.968	0
	700	0.000	99.968	0
	710	0.001	99.969	10
	720	0.002	99.972	10
	730	0.000	99.972	0
	740	0.005	99.977	10
	750	0.023	100.000	10

MINIMUM VALUES ARE ALL ZERO
 NUMBER OF OBSERVATIONS= 21904 SUM= 3028356 MEAN= 17.430 VAR= 3367.270 SD= 58.028

L TRIPS OVER MAX * 19
 L TRIPS OVER 255 * 0
 THE TABLE NUMBER * 205
 TREE NUMBER * 101

OTHER SOC. OR REC. TRIPS

144978 TRIP LENGTH FREQUENCY DISTRIBUTION-TOT

TRIP LENGTH	FREQ	F.C.	CUM.	ACTUAL
0				
2				
4				
5				
10				
12				
14				
16				
18				
20				
22				
24				
26				
28				
30				
32				
34				
36				
38				
40				
10	20.460	20.460	1050
20	35.123	55.583	1800
30	15.978	71.561	825
40	11.242	82.803	575
50	5.050	87.853	250
60	2.887	90.740	140
70	1.313	92.053	80
80	1.190	93.243	60
90	0.843	94.086	45
100	0.510	94.596	25
110	0.795	95.391	40
120	0.871	96.262	45
130	0.547	96.809	25
140	0.251	97.060	15
150	0.259	97.319	15
160	0.545	97.864	25
170	0.148	98.012	5
180	0.179	98.191	5
190	0.208	98.399	10
200	0.105	98.504	5
210	0.105	98.609	5
220	0.082	98.691	5
230	0.156	98.847	5
240	0.107	98.954	5
250	0.175	99.129	5
260	0.109	99.238	5
270	0.105	99.343	5
280	0.047	99.390	5
290	0.082	99.472	5
300	0.045	99.517	5
310	0.027	99.544	5
320	0.029	99.573	5
330	0.058	99.631	5
340	0.019	99.650	5
350	0.025	99.675	5
360	0.014	99.689	5
370	0.031	99.720	5
380	0.019	99.739	5
390	0.010	99.749	5
400	0.014	99.763	5
410	0.016	99.779	5
420	0.019	99.798	5
430	0.021	99.819	5
440	0.035	99.854	5
450	0.012	99.866	5
460	0.006	99.872	5
470	0.021	99.893	5
480	0.019	99.912	5
490	0.012	99.924	5
500	0.018	99.942	5
510	0.018	99.960	5
520	0.006	99.966	5
530	0.008	99.974	5
540	0.006	99.980	5
550	0.006	99.986	5
560	0.000	99.986	5
570	0.004	99.990	5
580	0.008	99.998	5
590	0.002	99.998	5
600	0.000	99.998	5
610	0.000	99.998	5
620	0.010	99.998	5
630	0.000	99.998	5
640	0.002	99.998	5
650	0.014	99.998	5
660	0.000	99.998	5
670	0.012	99.998	5
680	0.000	99.998	5
690	0.002	99.998	5
700	0.010	99.998	5
710	0.000	99.998	5
720	0.004	99.998	5
730	0.008	99.998	5
740	0.002	99.998	5
750	0.000	99.998	5
760	0.000	99.998	5
770	0.000	99.998	5
780	0.000	99.998	5
790	0.000	99.998	5
800	0.000	99.998	5
810	0.000	99.998	5
820	0.000	99.998	5
830	0.000	99.998	5
840	0.000	99.998	5
850	0.000	99.998	5
860	0.000	99.998	5
870	0.000	99.998	5
880	0.000	99.998	5
890	0.000	99.998	5
900	0.000	99.998	5

MISSING VALUES ARE ALL ZERO
 EP OF OBSERVATIONS# 31345 SUM# 1622116 MEAN# 31.592 VAR# 2262.102 SD# 47.562

L TRIPS OVER 4400 # 3
 L TRIPS OVER 265 # 0
 ME TABLE NUMBER # 206
 TAPE NUMBER # 101

ALL OTHER TRIPS

1MAR78 TRIP LENGTH FREQUENCY DISTRIBUTION-TOT

TRIP LENGTH	FREQUENCY	P.C.	CUM.	ACTUAL
0	10	10.026	10.026	46621
2	20	33.044	51.070	156793
4	30	15.773	66.843	75798
6	40	12.458	79.301	59668
8	50	5.661	84.963	27302
10	60	3.470	88.433	16674
12	70	1.613	90.045	7750
14	80	1.563	91.608	7512
16	90	1.106	92.715	3315
18	100	0.602	93.317	2691
20	110	1.105	94.421	5308
22	120	0.624	95.045	1006
24	130	0.504	95.549	2424
26	140	0.326	95.876	1567
28	150	0.244	96.120	1173
30	160	0.461	96.581	2310
32	170	0.202	96.783	972
34	180	0.214	97.007	1029
36	190	0.286	97.293	1573
38	200	0.207	97.500	994
40	210	0.170	97.670	615
42	220	0.114	97.784	549
44	230	0.220	98.004	1057
46	240	0.146	98.150	702
48	250	0.102	98.252	976
50	260	0.192	98.444	921
52	270	0.144	98.588	692
54	280	0.081	98.669	391
56	290	0.097	98.766	464
58	300	0.102	98.868	496
60	310	0.063	98.931	399
62	320	0.070	99.001	337
64	330	0.067	99.068	417
66	340	0.029	99.097	138
68	350	0.046	99.143	233
70	360	0.026	99.169	125
72	370	0.054	99.223	266
74	380	0.025	99.248	116
76	390	0.029	99.277	137
78	400	0.027	99.304	124
80	410	0.017	99.321	60
82	420	0.039	99.360	189
84	430	0.026	99.386	125
86	440	0.032	99.418	393
88	450	0.026	99.444	122
90	460	0.022	99.466	105
92	470	0.033	99.499	157
94	480	0.024	99.523	114
96	490	0.019	99.542	91
98	500	0.019	99.561	84
100	510	0.021	99.582	102
102	520	0.027	99.609	124
104	530	0.006	99.615	26
106	540	0.025	99.640	122
108	550	0.015	99.655	72
110	560	0.010	99.665	46
112	570	0.010	99.675	46
114	580	0.007	99.682	31
116	590	0.006	99.688	36
118	600	0.005	99.693	23
120	610	0.015	99.708	74
122	620	0.007	99.715	35
124	630	0.006	99.721	31
126	640	0.002	99.723	12
128	650	0.008	99.731	36
130	660	0.001	99.732	7
132	670	0.013	99.745	62
134	680	0.002	99.747	9
136	690	0.008	99.755	40
138	700	0.005	99.760	22
140	710	0.001	99.761	5
142	720	0.002	99.763	11
144	730	0.003	99.766	12
146	740	0.004	99.770	21
148	750	0.028	99.798	131

MISSING VALUES ARE ALL ZERO
 NO OF OBSERVATIONS = 464547

SUM = 17521382. MEAN = 36.461 VAR = 3294.507 SD = 57.396

L TRIPS OVER MAXP = 134
 L TRIPS OVER 255 = 0
 ME TABLE NUMBER = 207
 TREE NUMBER = 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	

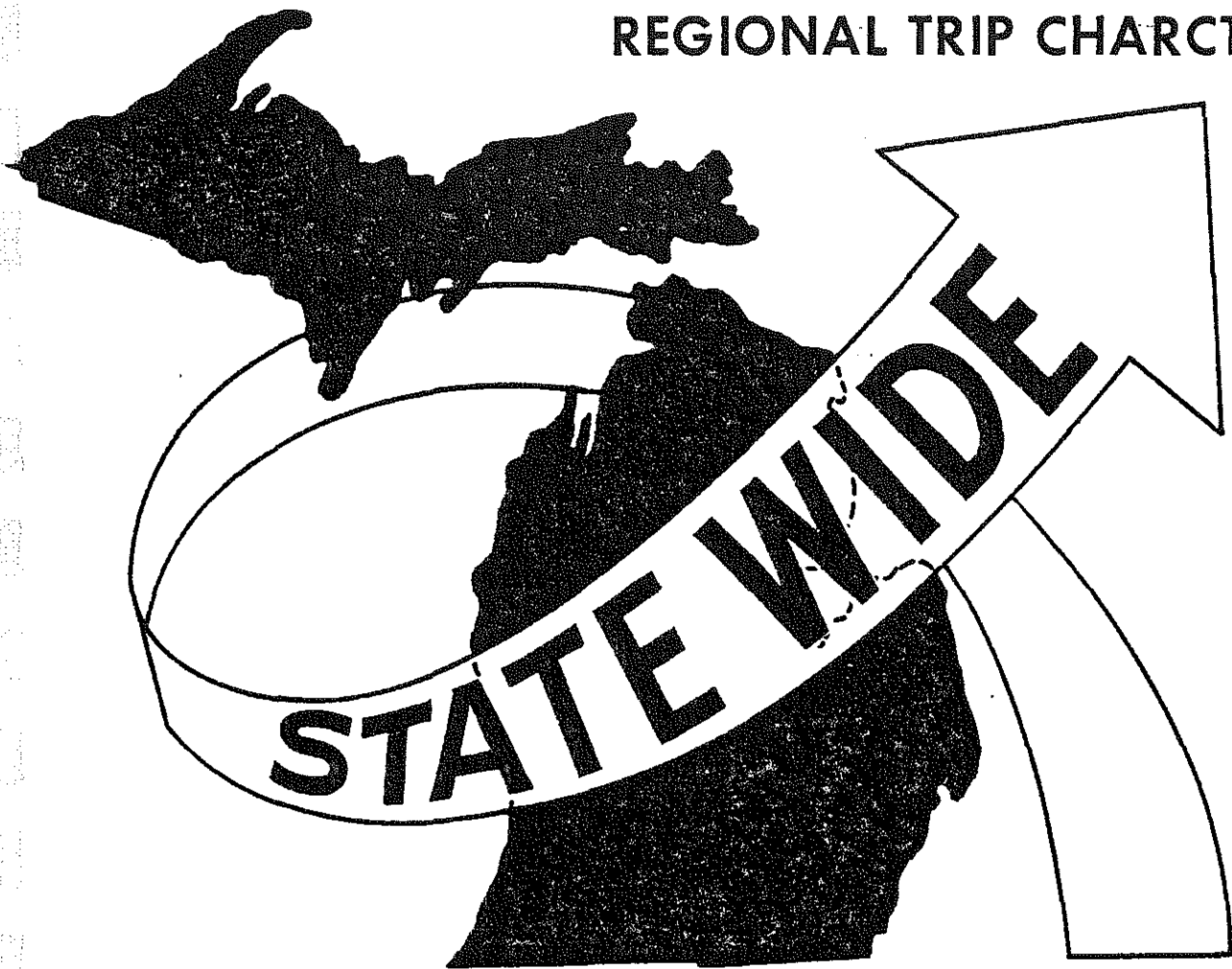
REGION 13

<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 10

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
79.8%	5.8%	14.0%	0.3%	3.6%	1.5%
40959	416	7210	142	1841	762

TRIP PURPOSE

WORK	PERS BIZ	SHOP	VACATION	SOC-REC	OTHER
35.5%	8.1%	19.9%	6.6%	19.8%	10.2%
18224	4140	10189	3371	10168	5237

NUMBER IN VEHICLE

1	2	3	4	5	6+
51.6%	27.7%	10.3%	6.5%	2.7%	2.2%
25964	14196	5275	3340	1410	1144

VEHICLE GARAGED AT

ORIGIN	DESTIN	OTHER
38.1%	30.5%	31.4%
19557	15640	16132

TOTAL TRIPS = 51329

MINOR

EXTERNAL ORIGIN-DESTINATION INTERVIEW
 TERMINAL-TRIP SUMMARY TABLE FOR REGION 10

TRIP PURPOSE

# IN VEH.	WORK	PERS BIZ	SHOP	VACATION	SOC-REC	OTHER
1	79.0% 14395	48.1% 1992	36.8% 3754	7.3% 247	33.2% 3375	42.0% 2201
2	15.5% 2833	33.7% 1397	34.5% 3517	42.0% 1414	33.4% 3398	31.2% 1636
3	3.6% 663	10.3% 427	13.8% 1402	17.4% 585	14.9% 1518	13.0% 680
4	1.3% 243	4.6% 192	8.0% 814	19.4% 653	10.4% 1054	7.3% 384
5	0.3% 49	2.0% 82	4.0% 411	8.4% 282	4.2% 427	3.0% 159
6+	0.2% 41	1.2% 51	2.0% 291	5.6% 188	3.9% 395	3.4% 177
TOTAL	100% 18224	100% 4140	100% 10189	100% 3371	100% 10168	100% 5237

TOTAL TERMINAL-TRIPS FOR ALL STUDIES IN REGION = 51329

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 10

TRIP PURPOSE

VEH TYPE	WORK	PERS RTZ	SHOP	VACATION	SOC=REC	OTHER
CAR W/O TRLR	63.1% 11502	86.5% 3583	89.9% 9158	89.3% 3008	90.0% 9155	86.9% 4552
CAR W/ TRLR	0.2% 45	0.2% 8	0.6% 58	3.2% 109	1.6% 165	0.6% 32
PICK-UP W/O/TRLR	23.7% 4321	12.6% 522	9.1% 924	3.8% 127	7.2% 728	11.2% 588
PICK-UP W/ TRLR	0.3% 58	0.1% 2	0.0% 3	0.6% 20	0.5% 52	0.1% 7
SINGLE-UNIT TRUCKS	8.7% 1580	0.6% 24	0.4% 40	2.8% 95	0.6% 57	0.9% 46
COMBINATION TRUCKS	3.9% 719	0.0% 2	0.1% 6	0.4% 12	0.1% 11	0.2% 13
TOTAL	100% 18224	100% 4140	100% 10189	100% 3371	100% 10168	100% 5237

TOTAL TERMINAL-TRIPS FOR ALL STUDIES IN REGION = 51329

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

23FEB78

TRIP LENGTH FREQUENCY DISTRIBUTION-REG10

	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																									216
20																							11.892	11.892	868
30																							44.320	56.212	191
40																							10.466	66.678	282
50																							15.518	82.195	85
60																							4.673	86.869	65
70																							3.582	90.450	37
80																							1.657	92.107	25
90																							1.684	93.791	9
100																							1.415	95.206	9
110																							0.291	95.497	14
120																							0.296	95.793	12
130																							0.612	96.605	3
140																							0.620	97.225	3
150																							0.170	97.395	1
160																							0.186	97.581	1
170																							0.642	98.223	1
180																							0.082	98.305	1
190																							0.099	98.404	2
200																							0.115	98.519	2
210																							0.132	98.651	3
220																							0.214	98.865	1
230																							0.060	98.925	1
240																							0.088	99.013	1
250																							0.377	99.389	2
260																							0.421	99.810	2
270																							0.144	99.954	2
280																							0.016	99.970	1
290																							0.022	99.992	1
300																							0.115	99.907	1
310																							0.055	99.962	1
320																							0.022	99.984	1
330																							0.066	99.654	1
340																							0.038	99.691	1
350																							0.027	99.720	1
360																							0.033	99.753	1
370																							0.011	99.764	1
380																							0.022	99.786	1
390																							0.011	99.797	1
400																							0.011	99.808	1
410																							0.022	99.830	1
420																							0.011	99.841	1
430																							0.005	99.846	1
440																							0.000	99.846	1
450																							0.000	99.846	1
460																							0.000	99.846	1
470																							0.000	99.846	1
480																							0.000	99.846	1
490																							0.000	99.846	1
500																							0.011	99.857	1
510																							0.000	99.857	1
520																							0.011	99.868	1
530																							0.055	99.923	1
540																							0.000	99.923	1
550																							0.016	99.940	1
560																							0.000	99.940	1
570																							0.000	99.940	1
580																							0.022	99.962	1
590																							0.027	99.989	1
600																							0.000	99.989	1
610																							0.000	99.989	1
620																							0.000	99.989	1
630																							0.000	99.989	1
640																							0.000	99.989	1
650																							0.000	99.989	1
660																							0.000	99.989	1
670																							0.000	99.989	1

REMAINING VALUES ARE ALL ZERO
 NUMBER OF OBSERVATIONS= 10231 SUM= 570256 MEAN= 31.280 VAR= 1803.746 SD= 42.471
 TOTAL TRIPS OVER MAXP = 0
 TOTAL TRIPS OVER 255 = 0
 PLUME TABLE NUMBER = 201
 PLUME TREE NUMBER = 101

23FE878

TRIP LENGTH FREQUENCY DISTRIBUTION-REG10

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.....																							17.668	17.668	7
20.....																							45.048	62.708	18
30.....																							8.768	71.476	3
40.....																							15.641	87.111	5
50.....																							3.621	90.731	1
60.....																							2.398	93.121	
70.....																							1.067	94.181	
80.....																							1.328	95.510	
90.....																							0.675	96.186	
100.....																							0.145	96.331	
110.....																							0.097	96.428	
120.....																							0.169	96.597	
130.....																							0.386	96.983	
140.....																							0.077	97.055	
150.....																							0.072	97.128	
160.....																							0.531	97.659	
170.....																							3.097	97.755	
180.....																							0.097	97.852	
190.....																							0.097	97.949	
200.....																							0.169	98.117	
210.....																							0.419	98.536	
220.....																							0.191	98.721	
230.....																							0.048	98.769	
240.....																							0.072	98.841	
250.....																							0.072	98.914	
260.....																							0.290	99.203	
270.....																							0.121	99.324	
280.....																							0.024	99.348	
290.....																							0.097	99.445	
300.....																							0.217	99.662	
310.....																							0.000	99.662	
320.....																							0.024	99.686	
330.....																							0.000	99.686	
340.....																							0.000	99.686	
350.....																							0.000	99.686	
360.....																							0.000	99.686	
370.....																							0.000	99.686	
380.....																							0.048	99.734	
390.....																							0.000	99.734	
400.....																							0.000	99.734	
410.....																							0.000	99.734	
420.....																							0.000	99.734	
430.....																							0.000	99.734	
440.....																							0.300	99.734	
450.....																							0.000	99.734	
460.....																							0.000	99.734	
470.....																							0.000	99.734	
480.....																							0.000	99.734	
490.....																							0.000	99.734	
500.....																							0.072	99.807	
510.....																							0.000	99.807	
520.....																							0.024	99.831	
530.....																							0.000	99.831	
540.....																							0.000	99.831	
550.....																							0.000	99.831	
560.....																							0.000	99.831	
570.....																							0.000	99.831	
580.....																							0.000	99.831	
590.....																							0.000	99.831	
600.....																							0.000	99.831	
610.....																							0.000	99.831	
620.....																							0.048	99.879	
630.....																							0.048	99.928	
640.....																							0.000	99.928	
650.....																							0.000	99.928	
660.....																							0.000	99.928	
670.....																							0.000	99.928	
680.....																							0.000	99.928	
690.....																							0.072	100.000	

MAIN VALUES ARE ALL ZERO

NUMBER OF OBSERVATIONS= 4143 SUM= 119641. MEAN= 29.878 VAR= 2205.643 SD= 46.966

INITIAL TRIPS OVER MAXP = 0
 INITIAL TRIPS OVER 255 = 3
 PLUME TABLE NUMBER = 202
 LIM TREE NUMBER = 101

23FEB78

TRIP LENGTH FREQUENCY DISTRIBUTION-REG10

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.	ACTUAL	
10																						17.712	17.712	1
20																						43.676	61.387	4
30																						10.274	71.661	1
40																						17.339	89.000	1
50																						4.808	93.808	
60																						3.179	96.988	
70																						0.520	97.508	
80																						0.775	98.283	
90																						0.569	98.852	
100																						0.118	98.970	
110																						0.069	99.038	
120																						3.167	99.205	
130																						0.088	99.293	
140																						0.000	99.293	
150																						0.069	99.362	
160																						0.236	99.598	
170																						0.039	99.637	
180																						0.020	99.657	
190																						0.039	99.696	
200																						0.010	99.706	
210																						0.020	99.725	
220																						0.011	99.735	
230																						0.359	99.794	
240																						0.011	99.804	
250																						0.020	99.823	
260																						0.020	99.843	
270																						0.011	99.853	
280																						0.339	99.892	
290																						0.011	99.902	
300																						0.059	99.961	
310																						0.000	99.961	
320																						0.000	99.961	
330																						0.000	99.961	
340																						0.000	99.961	
350																						0.000	99.961	
360																						0.000	99.961	
370																						0.000	99.961	
380																						0.000	99.961	
390																						0.000	99.961	
400																						0.000	99.961	
410																						0.000	99.961	
420																						0.000	99.961	
430																						0.000	99.961	
440																						0.000	99.961	
450																						0.000	99.961	
460																						0.000	99.961	
470																						0.000	99.961	
480																						0.000	99.961	
490																						0.000	99.961	
500																						0.000	99.961	
510																						0.000	99.961	
520																						0.000	99.961	
530																						0.000	99.961	
540																						0.000	99.961	
550																						0.000	99.961	
560																						0.000	99.961	
570																						0.011	99.971	
580																						0.011	99.980	
590																						0.000	99.980	
600																						0.000	99.980	
610																						0.000	99.980	
620																						0.000	99.980	
630																						0.000	99.980	
640																						0.000	99.980	
650																						0.000	99.980	
660																						0.000	99.980	
670																						0.000	99.980	
680																						0.000	99.980	
690																						0.000	99.980	
700																						0.000	99.980	
710																						0.011	99.990	
720																						0.000	99.990	
730																						0.000	99.990	
740																						0.000	99.990	
750																						0.011	100.000	

MAINING VALUES ARE ALL ZERO

INBFR OF OBSERVATIONS= 10191 SUM= 237705 MEAN= 23.325 VAR= 620.833 SD= 24.917

ITAL TRIPS OVER MAXP = 1
 ITAL TRIPS OVER 255 = 0
 PLUME TABLE NUMBER = 203
 TIM TREE NUMBER = 101

23FEB78

TRIP LENGTH FREQUENCY DISTRIBUTION-REG10

	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																						10.305	10.305	1	
20																							13.977	24.282	2
30																							9.150	33.432	3
40																							11.934	45.366	4
50																							3.790	49.156	5
60																							4.708	53.864	6
70																							2.132	55.996	7
80																							8.054	64.051	8
90																							9.361	73.412	9
100																							1.303	74.715	10
110																							0.770	75.485	11
120																							1.396	76.881	12
130																							1.421	78.302	13
140																							0.800	79.102	14
150																							0.859	79.961	15
160																							1.303	80.663	16
170																							0.444	81.107	17
180																							0.829	81.937	18
190																							0.829	82.766	19
200																							0.881	83.647	20
210																							0.918	84.565	21
220																							0.503	85.076	22
230																							1.421	86.497	23
240																							1.036	87.533	24
250																							1.599	89.132	25
260																							1.481	90.613	26
270																							0.740	91.353	27
280																							1.036	92.390	28
290																							3.859	93.248	29
300																							1.303	94.551	30
310																							1.096	95.647	31
320																							0.770	96.417	32
330																							0.296	96.713	33
340																							0.237	96.950	34
350																							3.415	97.365	35
360																							0.689	97.453	36
370																							0.267	97.720	37
380																							0.207	97.927	38
390																							0.296	98.223	39
400																							0.296	98.519	40
410																							0.000	98.519	41
420																							0.059	98.579	42
430																							3.059	98.638	43
440																							0.207	98.845	44
450																							0.119	98.964	45
460																							0.267	99.230	46
470																							0.385	99.615	47
480																							0.000	99.615	48
490																							0.030	99.645	49
500																							0.000	99.645	50
510																							3.059	99.704	51
520																							0.059	99.763	52
530																							0.000	99.763	53
540																							0.000	99.763	54
550																							0.000	99.763	55
560																							0.000	99.763	56
570																							0.000	99.763	57
580																							0.000	99.763	58
590																							0.000	99.763	59
600																							3.000	99.763	60
610																							0.119	99.882	61
620																							0.000	99.882	62
630																							0.000	99.882	63
640																							0.000	99.882	64
650																							0.000	99.882	65
660																							0.000	99.882	66
670																							0.000	99.882	67
680																							0.000	99.882	68
690																							0.000	99.882	69
700																							0.000	99.882	70
710																							0.000	99.882	71
720																							0.000	99.882	72
730																							0.000	99.882	73
740																							0.000	99.882	74
750																							0.000	99.882	75

MAINING VALUES ARE ALL ZERO

NUMBER OF OBSERVATIONS= 3377

SUM= 310257.

MEAN= 91.874

VAR= 10791.708

SD= 103.884

TOTAL TRIPS OVER MAXP = 4
 TOTAL TRIPS OVER 255 = 2
 NUMBER TABLE NUMBER = 204
 NUMBER TREE NUMBER = 101

23FEB78

TRIP LENGTH FREQUENCY DISTRIBUTION-REG10

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																					17.850	17.850	1	
20																						45.929	63.779	4
30																						7.896	71.675	
40																						12.405	84.080	1
50																						4.421	88.501	
60																						2.373	90.873	
70																						1.053	91.927	
80																						1.437	93.364	
90																						1.575	94.939	
100																						0.207	95.146	
110																						0.148	95.294	
120																						0.601	95.894	
130																						0.532	96.426	
140																						0.979	96.505	
150																						0.177	96.682	
160																						0.374	97.056	
170																						0.177	97.233	
180																						0.148	97.381	
190																						0.128	97.509	
200																						0.167	97.676	
210																						0.276	97.952	
220																						0.118	98.070	
230																						0.138	98.208	
240																						0.079	98.287	
250																						0.105	98.392	
260																						0.207	98.599	
270																						0.098	98.697	
280																						0.128	98.825	
290																						0.364	99.189	
300																						6.158	99.547	
310																						0.089	99.636	
320																						0.144	99.781	
330																						0.020	99.803	
340																						0.020	99.823	
350																						0.049	99.872	
360																						0.000	99.872	
370																						0.000	99.872	
380																						0.000	99.872	
390																						0.010	99.882	
400																						0.020	99.902	
410																						0.000	99.902	
420																						0.010	99.911	
430																						0.000	99.911	
440																						0.000	99.911	
450																						0.020	99.931	
460																						0.000	99.931	
470																						0.000	99.931	
480																						0.000	99.931	
490																						0.000	99.931	
500																						0.000	99.931	
510																						0.020	99.951	
520																						0.000	99.951	
530																						0.000	99.951	
540																						0.000	99.951	
550																						0.000	99.951	
560																						0.000	99.951	
570																						0.000	99.951	
580																						0.000	99.951	
590																						0.000	99.951	
600																						0.000	99.951	
610																						0.000	99.951	
620																						0.000	99.951	
630																						0.000	99.951	
640																						0.000	99.951	
650																						0.000	99.951	
660																						0.000	99.951	
670																						0.000	99.951	
680																						0.000	99.951	
690																						0.000	99.951	
700																						0.000	99.951	
710																						0.000	99.951	
720																						0.000	99.951	
730																						0.000	99.951	
740																						0.000	99.951	
750																						0.000	99.951	

MAINING VALUES ARE ALL ZERO
 NUMBER OF OBSERVATIONS= 10157 SUM= 309836 MEAN= 30.505 VAR= 2301.602 SD= 47.975

TOTAL TRIPS OVER MAXP = 4
 TOTAL TRIPS OVER 255 = 0
 PLUME TABLE NUMBER = 205
 IN TREE NUMBER = 101

23FEB78

TRIP LENGTH FREQUENCY DISTRIBUTION-REGIO

PAGE 7

	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.....																							18.178	18.178	9
20.....																							49.589	67.762	28
30.....																							75.567	75.329	3
40.....																							12.679	88.008	6
50.....																							3.590	91.598	1
60.....																							2.463	94.061	1
70..																							0.496	94.558	
80...																							1.241	95.799	
90....																							0.955	96.754	
100.																							0.095	96.849	
110.																							0.095	96.945	
120..																							0.401	97.346	
130..																							0.363	97.709	
140.																							0.095	97.804	
150.																							0.076	97.880	
160.																							0.210	98.091	
170.																							0.095	98.186	
180.																							0.134	98.320	
190.																							0.019	98.339	
200.																							0.229	98.759	
210.																							0.030	98.797	
220.																							0.134	98.931	
230.																							0.134	99.064	
240.																							0.172	99.236	
250.																							0.076	99.313	
260.																							0.000	99.313	
270.																							0.095	99.408	
280.																							0.191	99.599	
290.																							0.095	99.694	
300.																							0.095	99.790	
310.																							0.076	99.866	
320.																							0.000	99.866	
330.																							0.000	99.866	
340.																							0.019	99.885	
350.																							0.119	99.905	
360.																							0.019	99.924	
370.																							0.000	99.924	
380.																							0.000	99.924	
390.																							0.000	99.924	
400.																							0.000	99.924	
410.																							0.000	99.924	
420.																							0.000	99.924	
430.																							0.000	99.924	
440.																							0.000	99.924	
450.																							0.000	99.924	
460.																							0.000	99.924	
470.																							0.000	99.924	
480.																							0.019	99.943	
490.																							0.000	99.943	
500.																							0.000	99.943	
510.																							0.000	99.943	
520.																							0.000	99.943	
530.																							0.000	99.943	
540.																							0.000	99.943	
550.																							0.000	99.943	
560.																							0.000	99.943	
570.																							0.019	99.962	
580.																							0.000	99.962	
590.																							0.000	99.962	
600.																							0.000	99.962	
610.																							0.038100	100.000	

REMAINING VALUES ARE ALL ZERO
 NUMBER OF OBSERVATIONS= 5237 SUM= 136334 MEAN= 26.033 VAR= 1489.462 SD= 38.594

ITAL TRIPS OVER MAXP = 0
 ITAL TRIPS OVER 255 = 0
 HUME TABLE NUMBER = 206
 LIM TREE NUMBER = 101

23FEB78

TRIP LENGTH FREQUENCY DISTRIBUTION-REGIO

PAGE 8

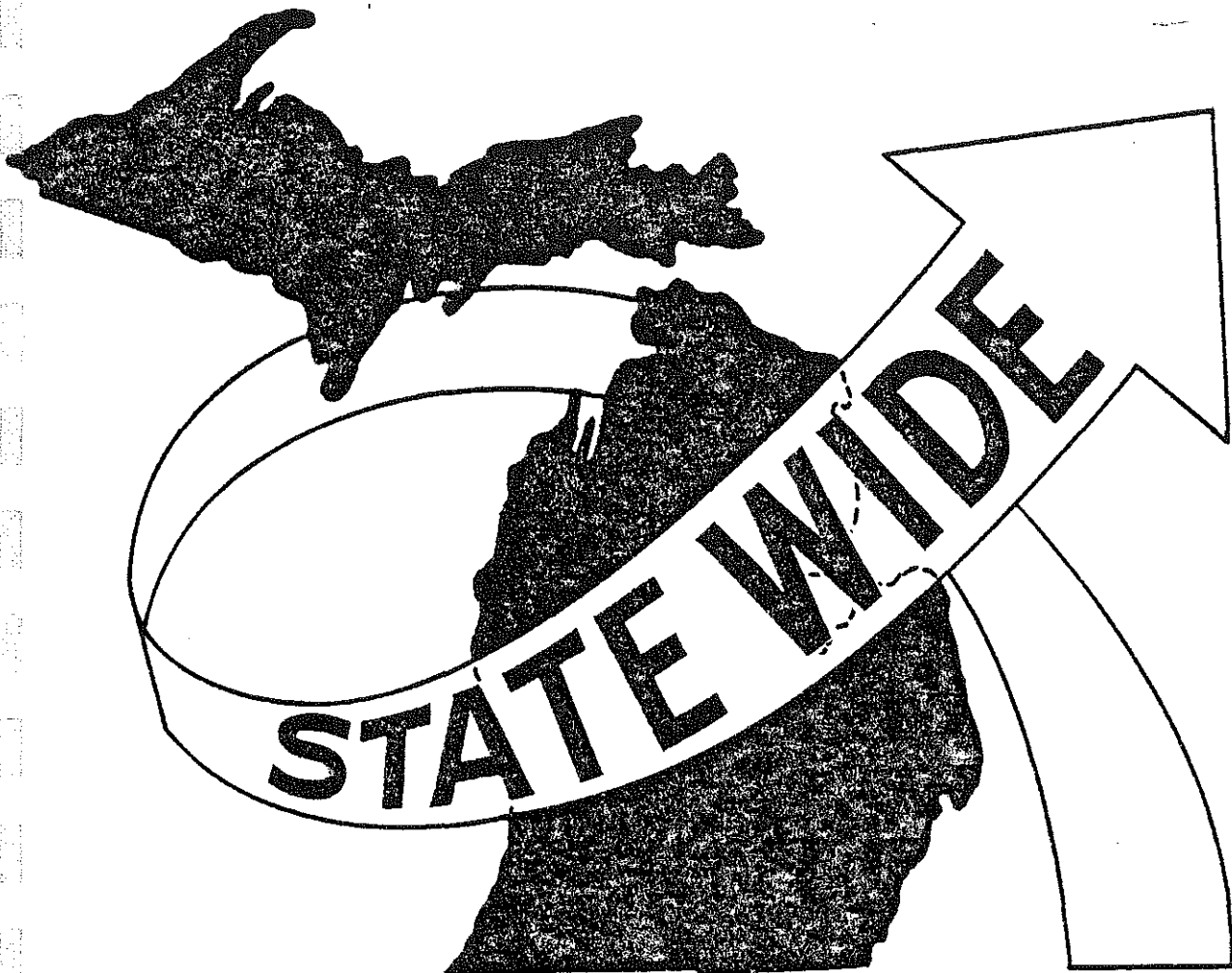
	0	3	6	9	12	15	19	21	24	27	30	33	36	39	42	45	48	51	54	57	60		P.C.	CUM.	ACTUAL
10.....																							15.229	15.229	7
20.....																							43.119	58.359	22
30.....																							9.399	67.758	4
40.....																							14.748	82.506	7
50.....																							4.397	86.882	2
60.....																							3.126	90.009	1
70.....																							1.177	91.196	
80.....																							1.800	92.985	
90.....																							1.675	94.661	
100.....																							0.275	94.955	
110.....																							0.216	95.152	
120.....																							0.567	95.718	
130.....																							0.505	96.223	
140.....																							0.144	96.367	
150.....																							0.185	96.552	
160.....																							0.499	97.051	
170.....																							0.119	97.170	
180.....																							0.144	97.314	
190.....																							0.137	97.452	
200.....																							0.173	97.625	
210.....																							0.251	97.877	
220.....																							0.099	97.976	
230.....																							0.181	98.157	
240.....																							0.132	98.290	
250.....																							0.236	98.525	
260.....																							0.226	98.751	
270.....																							0.086	98.837	
280.....																							0.121	98.958	
290.....																							0.194	99.157	
300.....																							0.175	99.332	
310.....																							0.107	99.439	
320.....																							0.111	99.552	
330.....																							0.037	99.589	
340.....																							0.031	99.620	
350.....																							0.051	99.671	
360.....																							0.017	99.682	
370.....																							0.029	99.712	
380.....																							0.018	99.729	
390.....																							0.025	99.755	
400.....																							0.031	99.786	
410.....																							0.094	99.790	
420.....																							0.008	99.797	
430.....																							0.004	99.801	
440.....																							0.014	99.815	
450.....																							0.017	99.827	
460.....																							0.018	99.844	
470.....																							0.025	99.869	
480.....																							0.007	99.871	
490.....																							0.006	99.877	
500.....																							0.004	99.881	
510.....																							0.017	99.895	
520.....																							0.025	99.920	
530.....																							0.004	99.926	
540.....																							0.006	99.926	
550.....																							0.006	99.926	
560.....																							0.002	99.928	
570.....																							0.004	99.932	
580.....																							0.008	99.940	
590.....																							0.014	99.949	
600.....																							0.004	99.949	
610.....																							0.012	99.961	
620.....																							0.004	99.965	
630.....																							0.004	99.969	
640.....																							0.004	99.969	
650.....																							0.000	99.969	
660.....																							0.000	99.969	
670.....																							0.004	99.973	
680.....																							0.000	99.973	
690.....																							0.006	99.979	
700.....																							0.002	99.981	
710.....																							0.000	99.981	
720.....																							0.000	99.981	
730.....																							0.000	99.981	
740.....																							0.002	99.982	
750.....																							0.018	100.000	

MAINING VALUES ARE ALL ZERO

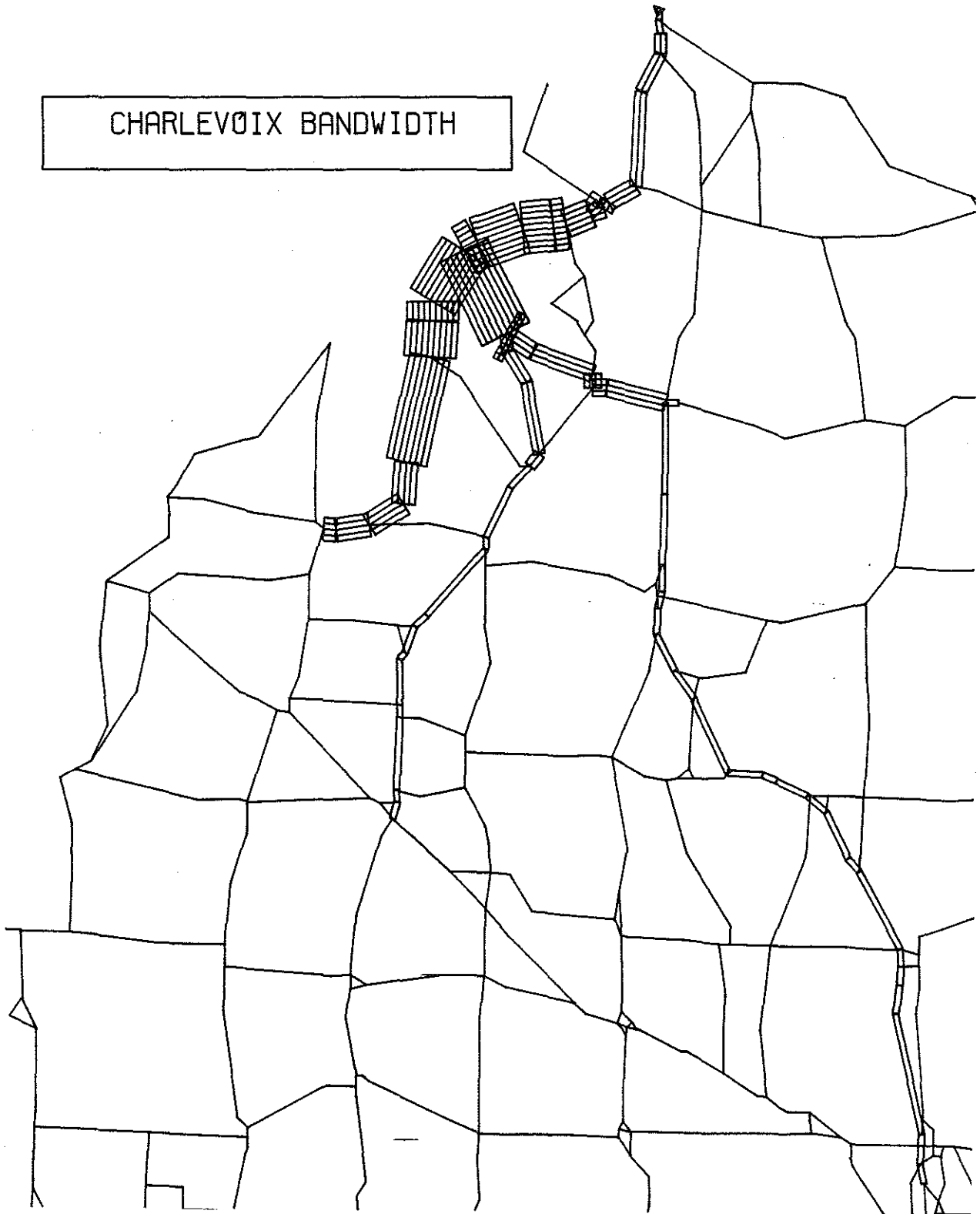
NUMBER OF OBSERVATIONS=	51336	SUM=	1684031.	MEAN=	32.804	VAR=	2514.207	SD=	50.114
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TOTAL TRIPS OVER MAXP	=	9
TOTAL TRIPS OVER 255	=	0
PLUME TABLE NUMBER	=	207
PLUME TREE NUMBER	=	101

**CITY TRIP CHARACTERISTICS
BY ALPHA NAME**



CHARLEVOIX BANDWIDTH



CHARLEVOIX

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
80.8% 8814	0.8% 92	14.2% 1550	0.3% 29	3.0% 323	0.9% 96

TRIP PURPOSE

WORK	PERS BIZ	SHOP	VACATION	SOC-REC	OTHER
33.1% 3610	8.5% 932	16.0% 1742	10.7% 1165	20.7% 2261	11.0% 1194

NUMBER IN VEHICLE

1	2	3	4	5	6+
47.6% 5186	28.5% 3108	10.9% 1186	7.7% 839	2.9% 319	2.4% 267

VEHICLE GARAGED AT

ORIGIN	DESTIN	OTHER
34.4% 3754	29.0% 3159	36.6% 3991

TOTAL TRIPS = 10905

MINOR

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

TRIP PURPOSE

# IN VEH.	WORK	PERS BIZ	SHOP	VACATION	SOC-REC	OTHER
1	79.2% 2859	44.6% 415	36.5% 636	6.2% 72	31.3% 708	41.5% 495
2	15.8% 571	38.0% 354	35.1% 612	41.2% 480	32.3% 730	30.2% 361
3	3.4% 123	9.9% 92	14.6% 255	17.8% 207	15.9% 360	12.4% 148
4	1.4% 50	5.1% 47	7.8% 136	20.5% 239	11.8% 266	8.4% 100
5	0.1% 4	1.7% 15	3.8% 67	8.7% 101	4.4% 99	2.7% 32
6+	0.1% 2	0.8% 7	2.1% 37	5.6% 65	4.3% 98	4.8% 57
TOTAL	100% 3610	100% 932	100% 1742	100% 1165	100% 2261	100% 1194

TOTAL TERMINAL-TRIPS FOR CHARLEVOIX = 10905

MINOR

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

TRIP PURPOSE

VEH TYPE	WORK	PERS BIZ	SHOP	VACATION	SOC-REC	OTHER
CAR W/O TRLR	64.3% 2323	85.2% 794	89.8% 1566	90.0% 1048	90.4% 2045	86.9% 1038
CAR W/ TRLR	0.2% 9	0.0% 0	0.3% 4	2.9% 33	1.6% 36	0.8% 9
PICK-UP W/O/TRLR	25.5% 920	14.4% 134	9.7% 169	3.3% 38	6.9% 155	11.2% 134
PICK-UP W/ TRLR	0.4% 15	0.0% 0	0.0% 0	0.5% 6	0.3% 7	0.2% 2
SINGLE-UNIT TRUCKS	7.0% 254	0.4% 4	0.2% 4	3.2% 37	0.7% 16	0.7% 9
COMBINATION TRUCKS	2.5% 90	0.0% 0	0.0% 0	0.2% 3	0.1% 2	0.2% 2
TOTAL	100% 3610	100% 932	100% 1742	100% 1165	100% 2261	100% 1194

TOTAL TERMINAL-TRIPS FOR CHARLEVOIX = 10905

7FE878

TRIP LENGTH FREQUENCY DISTRIBUTION-CHARLEVOIX

PAGE 2

TRIP LENGTH	FREQUENCY	P.C.	CUM.
0	43.622	43.622	43.622
3	12.757	56.378	56.378
6	21.963	78.342	78.342
9	9.068	87.410	87.410
12	1.054	88.464	88.464
15	1.997	90.460	90.460
18	1.608	92.069	92.069
21	3.608	95.677	95.677
24	0.915	96.592	96.592
27	0.139	96.731	96.731
30	0.028	96.759	96.759
33	0.971	97.730	97.730
36	0.555	98.285	98.285
39	0.055	98.340	98.340
42	0.111	98.451	98.451
45	0.000	98.451	98.451
48	0.000	98.451	98.451
51	0.000	98.451	98.451
54	0.000	98.451	98.451
57	0.000	98.451	98.451
60	0.000	98.451	98.451
100	0.000	98.451	98.451
110	0.000	98.451	98.451
120	0.000	98.451	98.451
130	0.000	98.451	98.451
140	0.000	98.451	98.451
150	0.000	98.451	98.451
160	0.000	98.451	98.451
170	0.000	98.451	98.451
180	0.000	98.451	98.451
190	0.000	98.451	98.451
200	0.000	98.451	98.451
210	0.000	98.451	98.451
220	0.000	98.451	98.451
230	0.000	98.451	98.451
240	0.000	98.451	98.451
250	0.000	98.451	98.451
260	0.000	98.451	98.451
270	0.000	98.451	98.451
280	0.000	98.451	98.451
290	0.000	98.451	98.451
300	0.000	98.451	98.451
310	0.000	98.451	98.451
320	0.000	98.451	98.451
330	0.000	98.451	98.451
340	0.000	98.451	98.451
350	0.000	98.451	98.451
360	0.000	98.451	98.451
370	0.000	98.451	98.451
380	0.000	98.451	98.451
390	0.000	98.451	98.451
400	0.000	98.451	98.451
410	0.000	98.451	98.451
420	0.000	98.451	98.451
430	0.000	98.451	98.451
440	0.000	98.451	98.451
450	0.000	98.451	98.451
460	0.000	98.451	98.451
470	0.000	98.451	98.451
480	0.000	98.451	98.451
490	0.000	98.451	98.451
500	0.000	98.451	98.451
510	0.000	98.451	98.451
520	0.000	98.451	98.451
530	0.000	98.451	98.451
540	0.000	98.451	98.451
550	0.000	98.451	98.451
560	0.000	98.451	98.451
570	0.000	98.451	98.451
580	0.000	98.451	98.451

REMAINING VALUES ARE ALL ZERO
 NUMBER OF OBSERVATIONS= 36.6 SUM= 97974 MEAN= 27.170 VAR= 1766.276 SD= 0

TOTAL TRIPS OVER MAXP * 0
 TOTAL TRIPS OVER 245 * 0
 VOLUME TABLE NUMBER * 291
 SKIM TREE NUMBER * 101

7FEB78

TRIP LENGTH FREQUENCY DISTRIBUTION-CHARLEVOIX

PAGE 1

TRIP LENGTH	FREQUENCY	P.C.	CUM.
0	10	44.194	44.194
3	20	13.011	57.204
6	30	22.366	79.570
9	40	10.645	90.215
12	50	0.968	91.183
15	60	1.290	92.473
18	70	1.398	93.871
21	80	3.011	96.882
24	90	0.215	97.097
27	100	0.215	97.312
30	110	0.000	97.312
33	120	0.538	97.849
36	130	0.538	98.387
39	140	0.000	98.387
42	150	0.000	98.387
45	160	0.000	98.387
48	170	0.000	98.387
51	180	0.000	98.387
54	190	0.000	98.387
57	200	0.215	98.602
60	210	0.215	98.817
	220	0.000	98.817
	230	0.000	98.817
	240	0.323	99.140
	250	0.000	99.140
	260	0.323	99.462
	270	0.000	99.462
	280	0.000	99.462
	290	0.000	99.462
	300	0.000	99.462
	310	0.000	99.462
	320	0.000	99.462
	330	0.000	99.462
	340	0.000	99.462
	350	0.000	99.462
	360	0.000	99.462
	370	0.000	99.462
	380	0.000	99.462
	390	0.000	99.462
	400	0.000	99.462
	410	0.000	99.462
	420	0.000	99.462
	430	0.000	99.462
	440	0.000	99.462
	450	0.000	99.462
	460	0.000	99.462
	470	0.000	99.462
	480	0.000	99.462
	490	0.000	99.462
	500	0.215	99.677
	510	0.000	99.677
	520	0.000	99.677
	530	0.000	99.677
	540	0.000	99.677
	550	0.000	99.677
	560	0.000	99.677
	570	0.000	99.677
	580	0.000	99.677
	590	0.000	99.677
	600	0.000	99.677
	610	0.000	99.677
	620	0.000	99.677
	630	0.215	99.892
	640	0.000	99.892
	650	0.000	99.892
	660	0.000	99.892
	670	0.000	99.892
	680	0.000	99.892
	690	0.000	99.892
		0.108100	100.000

REMAINING VALUES ARE ALL ZERO
 NUMBER OF OBSERVATIONS= 950 SUM= 24691 MEAN= 26.599 VAR= 2510.347 SD= 5

TOTAL TRIPS OVER MAXP * 0
 TOTAL TRIPS OVER 2K5 * 0
 VOLUME TABLE NUMBER * 202
 SKIM TREE NUMBER * 101

7FEB78

TRIP LENGTH FREQUENCY DISTRIBUTION-CHARLEVOTR

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.	A																						
10.....																							59.140	59.140																						
20.....																							3.954	63.095																						
30.....																							22.006	85.100																						
40.....																							7.736	92.837																						
50.....																							0.401	93.238																						
60.....																							3.324	96.562																						
70.....																							0.688	97.249																						
80.....																							1.691	99.140																						
90.....																							0.573	99.713																						
100.....																							0.057	99.771																						
110.....																							0.000	99.771																						
120.....																							0.000	99.771																						
130.....																							0.115	99.885																						
140.....																							0.000	99.885																						
150.....																							0.000	99.885																						
160.....																							0.000	99.885																						
170.....																							0.000	99.885																						
180.....																							0.000	99.885																						
190.....																							0.000	99.885																						
200.....																							0.000	99.885																						
210.....																							0.000	99.885																						
220.....																							0.000	99.885																						
230.....																							0.000	99.885																						
240.....																							0.000	99.885																						
250.....																							0.000	99.885																						
260.....																							0.000	99.885																						
270.....																							0.000	99.885																						
280.....																							0.000	99.885																						
290.....																							0.000	99.885																						
300.....																							9.115	100.000																						
REMAINING VALUES ARE ALL ZERO																																														
NUMBER OF OBSERVATIONS																									1745	SUM=	35115.	MEAN=	18.977	VAR=	330.949	SD=	18.192													
TOTAL TRIPS OVER MAXP	*																																													
TOTAL TRIPS OVER 255	*																																													
VOLUME TABLE NUMBER	*																																													
SKIM TREE NUMBER	*																																													

7FEB78

TRIP LENGTH FREQUENCY DISTRIBUTION-CHARLEVOIX

PAGE 5

TRIP LENGTH	FREQUENCY	P.C.	CUM.
0	0		
2	0		
4	0		
6	0		
8	0		
10	0		
12	0		
14	0		
16	0		
18	0		
20	0		
22	0		
24	0		
26	0		
28	0		
30	0		
32	0		
34	0		
36	0		
38	0		
40	0		
10	20,651	20.651	20,651
20	1,885	1.885	22,536
30	19,537	19.537	42,074
40	5,313	5.313	47,386
50	0,514	0.514	47,901
60	3,942	3.942	51,842
70	2,828	2.828	54,670
80	11,054	11.054	65,724
90	11,740	11.740	77,464
100	0,514	0.514	77,978
110	0,857	0.857	78,835
120	0,688	0.688	79,522
130	1,714	1.714	81,236
140	0,514	0.514	81,749
150	0,943	0.943	82,691
160	0,771	0.771	83,462
170	0,257	0.257	83,719
180	0,771	0.771	84,490
190	0,171	0.171	84,662
200	1,371	1.371	86,033
210	0,171	0.171	86,204
220	0,171	0.171	86,375
230	0,000	0.000	86,375
240	2,399	2.399	88,775
250	1,200	1.200	89,974
260	1,885	1.885	91,859
270	0,514	0.514	92,374
280	0,600	0.600	92,973
290	0,600	0.600	93,573
300	1,285	1.285	94,859
310	1,114	1.114	95,973
320	0,771	0.771	96,744
330	0,343	0.343	97,087
340	0,086	0.086	97,172
350	0,171	0.171	97,344
360	0,000	0.000	97,344
370	0,171	0.171	97,515
380	0,257	0.257	97,772
390	0,514	0.514	98,286
400	0,171	0.171	98,458
410	0,000	0.000	98,458
420	0,000	0.000	98,458
430	0,000	0.000	98,458
440	0,428	0.428	98,886
450	0,171	0.171	99,057
460	0,514	0.514	99,572
470	0,086	0.086	99,657
480	0,000	0.000	99,657
490	0,000	0.000	99,657
500	0,000	0.000	99,657
510	0,171	0.171	99,829
520	0,000	0.000	99,829
530	0,000	0.000	99,829
540	0,000	0.000	99,829
550	0,000	0.000	99,829
560	0,000	0.000	99,829
570	0,000	0.000	99,829
580	0,000	0.000	99,829
590	0,000	0.000	99,829
600	0,000	0.000	99,829
610	0,171	0.171	100,000

REMAINING VALUES ARE ALL ZERO
 NUMBER OF OBSERVATIONS= 1167 SUM= 99661. MEAN= 85,399 VAR= 9918,161 SD=

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

7FEB78

TRIP LENGTH FREQUENCY DISTRIBUTION-CHARLEVOIX

PAGE

	0	3	6	9	12	15	18	21	24	27	30	33	36	39	42	45	48	51	54	57	60	P.C.	CUM.	
10																							08.494	48.494
20																							15.013	63.508
30																							17.006	80.514
40																							6.953	87.467
50																							0.753	88.220
60																							1.284	89.504
70																							1.417	90.921
80																							2.746	91.667
90																							1.506	95.173
100																							0.221	95.394
110																							0.177	95.571
120																							0.664	96.236
130																							0.354	96.590
140																							0.000	96.590
150																							0.221	96.811
160																							0.177	96.988
170																							0.177	97.166
180																							0.000	97.166
190																							0.044	97.210
200																							0.199	97.609
210																							0.089	97.697
220																							0.000	97.697
230																							0.000	97.697
240																							0.310	98.007
250																							0.443	98.450
260																							0.310	98.760
270																							0.089	98.849
280																							0.044	98.893
290																							0.487	99.380
300																							0.000	99.380
310																							0.354	99.734
320																							0.133	99.867
330																							0.000	99.867
340																							0.000	99.867
350																							0.000	99.867
360																							0.000	99.867
370																							0.000	99.867
380																							0.000	99.867
390																							0.044	99.911
400																							0.000	99.911
410																							0.000	99.911
420																							0.000	99.911
430																							0.000	99.911
440																							0.000	99.911
450																							0.000	99.911
460																							0.000	99.911
470																							0.000	99.911
480																							0.000	99.911
490																							0.000	99.911
500																							0.000	99.911
510																							0.044	99.956
520																							0.000	99.956
530																							0.000	99.956
540																							0.000	99.956
550																							0.000	99.956
560																							0.000	99.956
570																							0.000	99.956
580																							0.000	99.956
590																							0.000	99.956
600																							0.000	99.956
610																							0.000	99.956
620																							0.000	99.956
630																							0.000	99.956
640																							0.000	99.956
650																							0.000	99.956
660																							0.000	99.956
670																							0.000	99.956
680																							0.000	99.956
690																							0.000	99.956
700																							0.000	99.956
710																							0.000	99.956
720																							0.000	99.956
730																							0.000	99.956
740																							0.000	99.956
750																							0.000	99.956

REMAINING VALUES ARE ALL ZERO

NUMBER OF OBSERVATIONS= 2258 SUM= 64495 MEAN= 28.563 VAR= 2422.627 SD=

TOTAL TRIPS OVER MAXP = 1
TOTAL TRIPS OVER 255 = 0
VOLUME TABLE NUMBER = 205
BRIM TREE NUMBER = 101

7FEB78

TRIP LENGTH FREQUENCY DISTRIBUTION-CHARLEVOIX

PAGE 7

TRIP LENGTH	FREQUENCY	P.C.	CUM.
0	0		
3	0		
6	0		
9	0		
12	0		
15	0		
18	0		
21	0		
24	0		
27	0		
30	0		
33	0		
36	0		
39	0		
42	0		
45	0		
48	0		
51	0		
54	0		
57	0		
60	0		
10	52,848	52.848	52.848
20	14,405	14.405	67.253
30	16,814	16.814	84.067
40	8,291	8.291	92.358
50	0,586	0.586	92.945
60	1,256	1.256	94.201
70	0,503	0.503	94.704
80	2,098	2.098	96.802
90	0,586	0.586	97.388
100	0,000	0.000	97.388
110	0,000	0.000	97.388
120	0,419	0.419	97.807
130	0,000	0.000	97.807
140	0,168	0.168	97.975
150	0,000	0.000	97.975
160	0,000	0.000	97.975
170	0,251	0.251	98.226
180	0,000	0.000	98.226
190	0,000	0.000	98.226
200	0,335	0.335	98.561
210	0,000	0.000	98.561
220	0,000	0.000	98.561
230	0,000	0.000	98.561
240	0,503	0.503	99.064
250	0,084	0.084	99.148
260	0,000	0.000	99.148
270	0,000	0.000	99.148
280	0,000	0.000	99.148
290	0,335	0.335	99.483
300	0,084	0.084	99.567
310	0,335	0.335	99.902
320	0,000	0.000	99.902
330	0,000	0.000	99.902
340	0,000	0.000	99.902
350	0,000	0.000	99.902
360	0,000	0.000	99.902
370	0,000	0.000	99.902
380	0,000	0.000	99.902
390	0,000	0.000	99.902
400	0,000	0.000	99.902
410	0,000	0.000	99.902
420	0,000	0.000	99.902
430	0,000	0.000	99.902
440	0,000	0.000	99.902
450	0,000	0.000	99.902
460	0,000	0.000	99.902
470	0,000	0.000	99.902
480	0,000	0.000	99.902
490	0,000	0.000	99.902
500	0,000	0.000	99.902
510	0,000	0.000	99.902
520	0,000	0.000	99.902
530	0,000	0.000	99.902
540	0,000	0.000	99.902
550	0,000	0.000	99.902
560	0,000	0.000	99.902
570	0,000	0.000	99.902
580	0,000	0.000	99.902
590	0,000	0.000	99.902
600	0,000	0.000	99.902
610	0,084	0.084	100.000

REMAINING VALUES ARE ALL ZERO

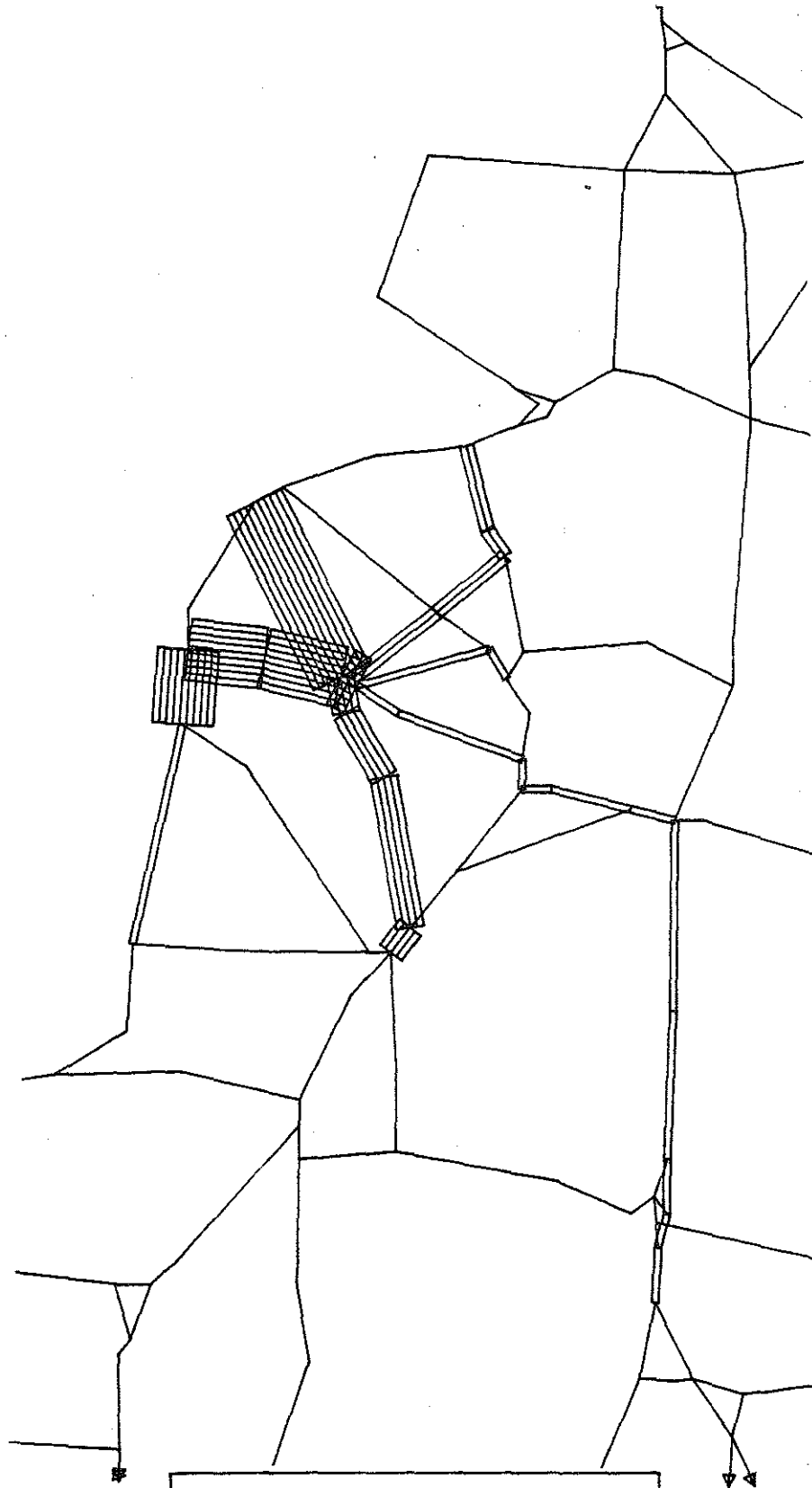
NUMBER OF OBSERVATIONS#	1194	SUM#	27516.	MEAN#	23.047	VAR#	1541.992	SD#	
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TOTAL TRIPS OVER MAXP # 0
TOTAL TRIPS OVER 255 # 0
VOLUME TABLE NUMBER # 206
SKIM TREE NUMBER # 101

	0	3	6	9	12	15	18	21	24	27	30	33	36	39	42	45	48	51	54	57	60	P.C.	CUM.	
10																							45.716	45.716
20																							10.853	56.569
30																							20.156	76.725
40																							8.084	84.789
50																							8.771	85.560
60																							2.128	87.688
70																							1.413	89.101
80																							3.761	92.862
90																							2.046	94.908
100																							0.174	95.083
110																							0.138	95.220
120																							0.624	95.844
130																							0.505	96.349
140																							0.092	96.440
150																							0.165	96.606
160																							0.156	96.761
170																							0.092	96.853
180																							0.083	96.936
190																							0.028	96.963
200																							0.321	97.284
210																							0.073	97.356
220																							0.018	97.376
230																							0.000	97.376
240																							0.468	97.844
250																							0.312	98.156
260																							0.330	98.486
270																							0.073	98.560
280																							0.083	98.642
290																							0.239	98.881
300																							0.185	99.066
310																							0.257	99.303
320																							0.147	99.450
330																							0.037	99.486
340																							0.009	99.495
350																							0.037	99.532
360																							0.000	99.532
370																							0.018	99.550
380																							0.000	99.550
390																							0.064	99.614
400																							0.028	99.642
410																							0.009	99.651
420																							0.000	99.651
430																							0.000	99.651
440																							0.046	99.743
450																							0.018	99.761
460																							0.055	99.817
470																							0.009	99.826
480																							0.000	99.826
490																							0.009	99.835
500																							0.018	99.853
510																							0.046	99.899
520																							0.000	99.899
530																							0.000	99.899
540																							0.000	99.899
550																							0.000	99.899
560																							0.000	99.899
570																							0.000	99.899
580																							0.037	99.936
590																							0.000	99.936
600																							0.000	99.936
610																							0.028	99.963
620																							0.018	99.982
630																							0.000	99.982
640																							0.000	99.982
650																							0.000	99.982
660																							0.000	99.982
670																							0.000	99.982
680																							0.000	99.982
690																							0.009	99.991
700																							0.000	99.991
710																							0.000	99.991
720																							0.000	99.991
730																							0.000	99.991
740																							0.000	99.991
750																							0.009	100.000

REMAINING VALUES ARE ALL ZERO
 NUMBER OF OBSERVATIONS# 10900 SUM# 347454 MEAN# 31.877 VAR# 2936.722 SDA 54

TOTAL TRIPS OVER MAXP = 1
 TOTAL TRIPS OVER 255 = 0
 VOLUME TABLE NUMBER = 207
 SKIM TREE NUMBER = 101



EJORDAN BANDWIDTH

EJORDAN

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
79.4% 4641	0.6% 37	14.5% 845	0.3% 15	3.7% 219	1.5% 89

TRIP PURPOSE

WORK	PERS: BIZ	SHOP	VACATION	SOC=REC	OTHER
36.4% 2131	8.8% 512	21.9% 1280	4.0% 236	16.5% 966	12.3% 721

NUMBER IN VEHICLE

1	2	3	4	5	6+
53.7% 3141	24.4% 1429	10.8% 631	5.3% 311	3.1% 182	2.6% 152

VEHICLE GARAGED AT

ORIGIN	DESTIN	OTHER
40.4% 2363	34.1% 1991	25.5% 1492

TOTAL TRIPS = 5846

MINOR

EXTERNAL ORIGIN=DESTINATION INTERVIEW
 TERMINAL=TRIP SUMMARY TABLE FOR EJORDAN

TRIP PURPOSE

# IN VEH.	WORK	PERS BIZ	SHOP	VACATION	SOC=REC	OTHER
1	78.1% 1663	53.3% 273	41.7% 534	9.2% 22	33.0% 319	45.7% 330
2	16.2% 345	27.1% 139	28.2% 361	32.6% 77	28.7% 277	31.9% 230
3	4.3% 91	10.8% 55	15.3% 196	15.2% 36	18.0% 173	11.1% 80
4	0.8% 16	3.9% 20	7.7% 98	18.5% 44	9.0% 87	6.4% 46
5	0.3% 7	2.5% 13	4.5% 58	14.1% 33	5.3% 51	2.8% 21
6+	0.4% 9	2.5% 13	2.6% 33	10.3% 24	6.0% 58	2.0% 15
TOTAL	100% 2131	100% 512	100% 1280	100% 236	100% 966	100% 721

TOTAL TERMINAL=TRIPS FOR EJORDAN = 5846

MINOR

EXTERNAL ORIGIN=DESTINATION INTERVIEW
 TERMINAL=TRIP SUMMARY TABLE FOR EJORDAN

TRIP PURPOSE

VEH TYPE	WORK	PERS BIZ	SHOP	VACATION	SOC=REC	OTHER
CAR W/O TRLR	63.2% 1347	86.0% 441	88.0% 1127	88.2% 208	91.5% 884	87.9% 634
CAR W/ TRLR	0.6% 12	0.0% 0	0.2% 2	3.4% 8	1.1% 11	0.4% 3
PICK-UP W/O/TRLR	22.4% 478	13.5% 69	11.2% 143	5.7% 13	6.7% 64	10.6% 77
PICK-UP W/ TRLR	0.5% 11	0.0% 0	0.0% 0	0.0% 0	0.3% 3	0.2% 1
SINGLE=UNIT TRUCKS	9.2% 196	0.5% 2	0.4% 5	2.1% 5	0.4% 4	0.9% 6
COMBINATION TRUCKS	4.0% 86	0.0% 0	0.2% 2	0.6% 1	0.0% 0	0.0% 0
TOTAL	100% 2131	100% 512	100% 1280	100% 236	100% 966	100% 721

TOTAL TERMINAL=TRIPS FOR EJORDAN = 5846

TRIP LENGTH	FREQUENCY	P.C.	CUM.
0	32,486	32.486	32.48
3	0	0.000	32.48
6	9,463	9.463	41.94
9	45,245	45.245	87.19
12	1,930	1.930	89.12
15	4,944	4.944	94.06
18	0	0.047	94.11
21	2,307	2.307	96.42
24	0	0.094	96.51
27	0	0.188	96.70
30	0	0.612	97.31
33	0	0.047	97.36
36	0	0.047	97.41
39	0	0.047	97.45
42	0	0.094	97.55
45	0	0.141	97.69
48	0	0.000	97.69
51	0	0.188	97.88
54	0	0.094	97.97
57	0	0.047	98.02
60	0	0.000	98.02
63	0	0.282	98.30
66	0	0.282	98.58
69	0	0.000	98.58
72	0	0.141	98.72
75	0	0.047	98.77
78	0	0.047	98.82
81	0	0.000	98.82
84	0	0.000	98.82
87	0	0.188	99.01
90	0	0.000	99.01
93	0	0.000	99.01
96	0	0.000	99.01
99	0	0.094	99.10
102	0	0.000	99.10
105	0	0.047	99.15
108	0	0.000	99.15
111	0	0.000	99.15
114	0	0.235	99.38
117	0	0.141	99.52
120	0	0.000	99.52
123	0	0.000	99.52
126	0	0.000	99.52
129	0	0.282	99.81
132	0	0.000	99.81
135	0	0.000	99.81
138	0	0.000	99.81
141	0	0.000	99.81
144	0	0.000	99.81
147	0	0.000	99.81
150	0	0.000	99.81
153	0	0.000	99.81
156	0	0.000	99.81
159	0	0.000	99.81
162	0	0.000	99.81
165	0	0.000	99.81
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171	0	0.000	99.81
174	0	0.000	99.81
177	0	0.000	99.81
180	0	0.000	99.81
183	0	0.000	99.81
186	0	0.000	99.81
189	0	0.000	99.81
192	0	0.000	99.81
195	0	0.000	99.81
198	0	0.000	99.81
201	0	0.000	99.81
204	0	0.000	99.81
207	0	0.000	99.81
210	0	0.000	99.81
213	0	0.000	99.81
216	0	0.000	99.81
219	0	0.000	99.81
222	0	0.000	99.81
225	0	0.000	99.81
228	0	0.000	99.81
231	0	0.000	99.81
234	0	0.000	99.81
237	0	0.000	99.81
240	0	0.000	99.81
243	0	0.000	99.81
246	0	0.000	99.81
249	0	0.000	99.81
252	0	0.000	99.81
255	0	0.000	99.81
258	0	0.000	99.81
261	0	0.000	99.81
264	0	0.000	99.81
267	0	0.000	99.81
270	0	0.000	99.81
273	0	0.000	99.81
276	0	0.000	99.81
279	0	0.000	99.81
282	0	0.000	99.81
285	0	0.000	99.81
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360	0	0.000	99.81
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462	0	0.000	99.81
465	0	0.000	99.81
468	0	0.000	99.81
471	0	0.000	99.81
474	0	0.000	99.81
477	0	0.000	99.81
480	0	0.000	99.81
483	0	0.000	99.81
486	0	0.000	99.81
489	0	0.000	99.81
492	0	0.000	99.81
495	0	0.000	99.81
498	0	0.000	99.81
501	0	0.000	99.81
504	0	0.000	99.81
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510	0	0.000	99.81
513	0	0.000	99.81
516	0	0.000	99.81
519	0	0.000	99.81
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528	0	0.000	99.81
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534	0	0.000	99.81
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540	0	0.000	99.81
543	0	0.000	99.81
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555	0	0.000	99.81
558	0	0.000	99.81
561	0	0.000	99.81
564	0	0.000	99.81
567	0	0.000	99.81
570	0	0.000	99.81
573	0	0.000	99.81
576	0	0.000	99.81
579	0	0.000	99.81
582	0	0.000	99.81
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597	0	0.000	99.81
600	0	0.000	99.81
603	0	0.000	99.81
606	0	0.000	99.81
609	0	0.000	99.81
612	0	0.000	99.81
615	0	0.000	99.81
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636	0	0.000	99.81
639	0	0.000	99.81
642	0	0.000	99.81
645	0	0.000	99.81
648	0	0.000	99.81
651	0	0.000	99.81
654	0	0.000	99.81
657	0	0.000	99.81
660	0	0.000	99.81
663	0	0.000	99.81
666	0	0.000	99.81
669	0	0.000	99.81
672	0	0.000	99.81
675	0	0.000	99.81
678	0	0.000	99.81
681	0	0.000	99.81
684	0	0.000	99.81
687	0	0.000	99.81
690	0	0.000	99.81
693	0	0.000	99.81
696	0	0.000	99.81
699	0	0.000	99.81
702	0	0.000	99.81
705	0	0.000	99.81
708	0	0.000	99.81
711	0	0.000	99.81
714	0	0.000	99.81
717	0	0.000	99.81
720	0	0.000	99.81
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729	0	0.000	99.81
732	0	0.000	99.81
735	0	0.000	99.81
738	0	0.000	99.81
741	0	0.000	99.81
744	0	0.000	99.81
747	0	0.000	99.81
750	0	0.000	99.81

REMAINING VALUES ARE ALL ZERO
 NUMBER OF OBSERVATIONS= 2124 SUM= 67241 MEAN= 31.658 VAR= 3300.779 SD=

OTAL TRIPS OVER MAXP = 3
 OTAL TRIPS OVER 255 = 0
 OLUME TABLE NUMBER = 201
 KIM TREE NUMBER = 101

SD=57.5

25JAN79

TRIP LENGTH FREQUENCY DISTRIBUTION-EJORDAN

PAGE

	0	3	6	9	12	15	18	21	24	27	30	33	36	39	42	45	48	51	54	57	60	P.C.	CUM.	
10																							34,961	34,96
20																							0,000	34,96
30																							7,813	42,77
40																							50,781	93,55
50																							1,367	94,92
60																							2,148	97,07
70																							0,000	97,07
80																							1,172	98,24
90																							0,000	98,24
100																							0,000	98,24
110																							0,195	98,43
120																							0,000	98,43
130																							0,195	98,63
140																							0,000	98,63
150																							0,000	98,63
160																							0,000	98,63
170																							0,000	98,63
180																							0,000	98,63
190																							0,000	98,63
200																							0,000	98,63
210																							0,000	98,63
220																							0,586	99,21
230																							0,000	99,21
240																							0,000	99,21
250																							0,000	99,21
260																							0,000	99,21
270																							0,000	99,21
280																							0,000	99,21
290																							0,195	99,41
300																							0,586	100,00

REMAINING VALUES ARE ALL ZERO
 NUMBER OF OBSERVATIONS= 512 SUM= 13010 MEAN= 25,410 VAR= 1111,230 SD=

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

SD=33,4

25JAN79

TRIP LENGTH FREQUENCY DISTRIBUTION-EJORDAN

PAGE

	0	3	6	9	12	15	18	21	24	27	30	33	36	39	42	45	48	51	54	57	60	P.C.	CUM.	
10.																						47.109	47.10
20.																						0.000	47.10
30.																						4.531	51.64
40.																						45.938	97.57
50.																						0.313	97.89
60.																						1.016	98.90
70.																						0.000	98.90
80.																						0.313	99.21
90.																						0.000	99.21
100.																						0.078	99.29
110.																						0.000	99.29
120.																						0.000	99.29
130.																						0.000	99.29
140.																						0.000	99.29
150.																						0.000	99.29
160.																						0.000	99.29
170.																						0.000	99.29
180.																						0.000	99.29
190.																						0.313	99.60
200.																						0.000	99.60
210.																						0.000	99.60
220.																						0.000	99.60
230.																						0.000	99.60
240.																						0.000	99.60
250.																						0.078	99.68
260.																						0.078	99.76
270.																						0.078	99.84
280.																						0.000	99.84
290.																						0.000	99.84
300.																						0.156100	100.00

REMAINING VALUES ARE ALL ZERO

NUMBER OF OBSERVATIONS= 1280 SUM= 24277 MEAN= 18.966 VAR= 627.486 SD= 25.1

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

25JAN79

TRIP LENGTH FREQUENCY DISTRIBUTION-EJORDAN

PAGE

TRIP LENGTH	FREQUENCY	P.C.	CUM.
10	19	0.214	19.21
20	0	0.000	19.21
30	14	0.437	33.62
40	35	0.428	72.05
50	2	0.183	74.22
60	0	0.873	75.10
70	0	0.000	75.10
80	1	1.747	76.85
90	0	0.000	76.85
100	1	1.747	78.60
110	0	1.747	80.34
120	0	0.437	80.78
130	0	0.437	81.22
140	0	0.437	81.65
150	1	1.747	83.40
160	1	1.310	84.71
170	0	0.000	84.71
180	0	0.000	84.71
190	0	0.873	85.58
200	0	0.437	86.02
210	0	0.000	86.02
220	1	1.747	87.77
230	0	0.873	88.64
240	0	0.000	88.64
250	0	0.437	89.08
260	0	0.873	89.95
270	0	0.000	89.95
280	1	1.310	91.26
290	0	0.000	91.26
300	5	5.677	96.94
310	0	0.873	97.81
320	0	0.000	97.81
330	0	0.000	97.81
340	0	0.000	97.81
350	0	0.000	97.81
360	0	0.000	97.81
370	0	0.000	97.81
380	0	0.000	97.81
390	0	0.000	97.81
400	0	0.000	97.81
410	0	0.000	97.81
420	0	0.000	97.81
430	0	0.000	97.81
440	0	0.000	97.81
450	0	0.437	98.25
460	0	0.000	98.25
470	0	0.000	98.25
480	0	0.000	98.25
490	0	0.000	98.25
500	0	0.000	98.25
510	0	0.000	98.25
520	0	0.000	98.25
530	0	0.000	98.25
540	0	0.000	98.25
550	0	0.000	98.25
560	0	0.000	98.25
570	0	0.000	98.25
580	0	0.000	98.25
590	0	0.000	98.25
600	0	0.000	98.25
610	0	0.000	98.25
620	0	0.000	98.25
630	0	0.437	98.69
640	0	0.000	98.69
650	0	0.000	98.69
660	0	0.000	98.69
670	0	0.000	98.69
680	0	0.000	98.69
690	0	0.000	98.69
700	0	0.000	98.69
710	0	0.000	98.69
720	0	0.000	98.69
730	0	0.000	98.69
740	0	0.000	98.69
750	1	1.310	100.00

REMAINING VALUES ARE ALL ZERO
 NUMBER OF OBSERVATIONS= 229 SUM= 18008 MEAN= 78.638 VAR= 16810.869 SD=

TOTAL TRIPS OVER MAXP = 3
 TOTAL TRIPS OVER 255 = 0
 VOLUME TABLE NUMBER = 204
 SKIM TREE NUMBER = 101

SD=129.7

25JAN79

TRIP LENGTH FREQUENCY DISTRIBUTION-EJORDAN

PAGE

	0	3	6	9	12	15	18	21	24	27	30	33	36	39	42	45	48	51	54	57	60	P.C.	CUM.		
10																						35.031	35.03	
20																							0.000	35.03
30																							12.578	47.60
40																							43.139	90.74
50																							0.832	91.58
60																							2.807	94.38
70																							0.000	94.38
80																							1.455	95.84
90																							0.104	95.94
100																							0.416	96.36
110																							0.520	96.88
120																							0.000	96.88
130																							0.208	97.09
140																							0.208	97.29
150																							0.416	97.71
160																							0.208	97.92
170																							0.000	97.92
180																							0.104	98.02
190																							0.416	98.44
200																							0.312	98.75
210																							0.000	98.75
220																							0.520	99.27
230																							0.000	99.27
240																							0.000	99.27
250																							0.000	99.27
260																							0.312	99.58
270																							0.000	99.58
280																							0.000	99.58
290																							0.104	99.68
300																							0.312	100.00

REMAINING VALUES ARE ALL ZERO
 NUMBER OF OBSERVATIONS= 962 SUM= 26427 MEAN= 27,471 VAR= 1375,156 SD=

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

SD=37.1

25JAN79

TRIP LENGTH FREQUENCY DISTRIBUTION-EJORDAN

PAGE

0	3	6	9	12	15	18	21	24	27	30	33	36	39	42	45	48	51	54	57	60	P.C.	CUM.	
10																						37.691	37.69
20																						0.000	37.69
30																						8.345	46.03
40																						48.401	94.43
50																						0.556	94.98
60																						1.808	96.80
70																						0.000	96.80
80																						1.252	98.05
90																						0.000	98.05
100																						0.417	98.47
110																						0.000	98.47
120																						0.000	98.47
130																						0.000	98.47
140																						0.139	98.61
150																						0.000	98.61
160																						0.000	98.61
170																						0.139	98.74
180																						0.000	98.74
190																						0.000	98.74
200																						0.000	98.74
210																						0.278	99.02
220																						0.000	99.02
230																						0.417	99.44
240																						0.000	99.44
250																						0.000	99.44
260																						0.000	99.44
270																						0.139	99.58
280																						0.278	99.86
290																						0.000	99.86
300																						0.139	100.00

REMAINING VALUES ARE ALL ZERO

NUMBER OF OBSERVATIONS= 719

SUM= 17374.

MEAN= 24.164

VAR= 1004.076

SD=

SD=31.7

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

25JAN79

TRIP LENGTH FREQUENCY DISTRIBUTION-EJORDAN

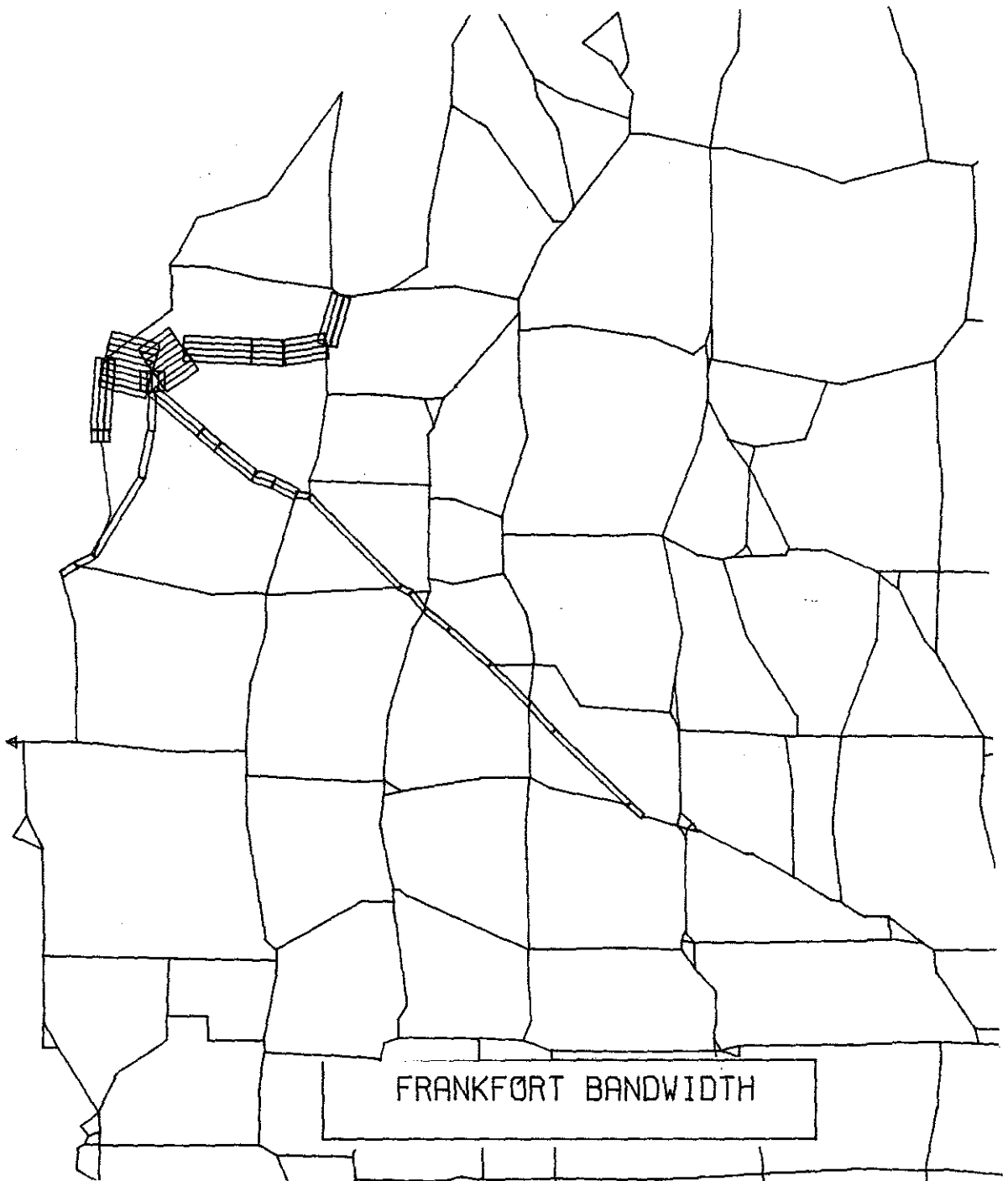
PAGE

	0	3	6	9	12	15	18	21	24	27	30	33	36	39	42	45	48	51	54	57	60	P.C.	CUM.	
10																							36,457	36,457
20																							0,000	36,457
30																							8,805	45,263
40																							45,857	90,920
50																							1,184	92,104
60																							2,935	95,039
70																							0,017	95,057
80																							1,476	96,533
90																							0,051	96,584
100																							0,275	96,859
110																							0,395	97,254
120																							0,034	97,288
130																							0,086	97,374
140																							0,086	97,460
150																							0,172	97,631
160																							0,137	97,769
170																							0,017	97,786
180																							0,086	97,872
190																							0,206	98,078
200																							0,086	98,163
210																							0,034	98,198
220																							0,309	98,507
230																							0,189	98,696
240																							0,000	98,696
250																							0,086	98,781
260																							0,120	98,901
270																							0,051	98,953
280																							0,086	99,039
290																							0,034	99,073
300																							0,446	99,519
310																							0,034	99,554
320																							0,000	99,554
330																							0,000	99,554
340																							0,034	99,588
350																							0,000	99,588
360																							0,017	99,605
370																							0,000	99,605
380																							0,000	99,605
390																							0,000	99,605
400																							0,086	99,691
410																							0,051	99,743
420																							0,000	99,743
430																							0,000	99,743
440																							0,000	99,743
450																							0,120	99,863
460																							0,000	99,863
470																							0,000	99,863
480																							0,000	99,863
490																							0,000	99,863
500																							0,000	99,863
510																							0,000	99,863
520																							0,000	99,863
530																							0,000	99,863
540																							0,000	99,863
550																							0,000	99,863
560																							0,000	99,863
570																							0,000	99,863
580																							0,000	99,863
590																							0,000	99,863
600																							0,000	99,863
610																							0,000	99,863
620																							0,000	99,863
630																							0,034	99,897
640																							0,000	99,897
650																							0,000	99,897
660																							0,000	99,897
670																							0,000	99,897
680																							0,000	99,897
690																							0,000	99,897
700																							0,000	99,897
710																							0,000	99,897
720																							0,000	99,897
730																							0,000	99,897
740																							0,000	99,897
750																							0,103100,00	

REMAINING VALUES ARE ALL ZERO
 NUMBER OF OBSERVATIONS= 5826 SUM= 166337 MEAN= 28,551 VAR= 2576,632 SD=

TOTAL TRIPS OVER MAXP = 6
 TOTAL TRIPS OVER 255 = 0
 OLUME TABLE NUMBER = 207
 KIM TREE NUMBER = 101

50=50.8



FRANKFORT

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
82.9% 5647	1.1% 73	12.1% 823	0.3% 17	2.8% 193	0.9% 61

TRIP PURPOSE

WORK	PERS BIZ	SHOP	VACATION	SOC-REC	OTHER
29.9% 2035	10.6% 720	22.0% 1496	4.7% 319	21.4% 1461	11.5% 783

NUMBER IN VEHICLE

1	2	3	4	5	6+
54.9% 3743	28.7% 1959	9.2% 625	4.5% 306	1.4% 97	1.2% 85

VEHICLE GARAGED AT

ORIGIN	DESTIN	OTHER
38.0% 2588	29.8% 2034	32.2% 2193

TOTAL TRIPS = 6815

MINOR

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

TRIP PURPOSE

# IN VEH.	WORK	PERS BIZ	SHOP	VACATION	SOC-REC	OTHER
1	79.9% 1627	59.2% 426	49.7% 743	15.6% 50	33.9% 495	51.2% 401
2	15.3% 311	27.9% 201	34.2% 512	50.8% 162	36.0% 526	31.6% 247
3	3.4% 69	8.4% 61	9.8% 147	17.1% 55	14.5% 212	10.5% 82
4	1.2% 24	3.2% 23	5.1% 76	10.8% 35	8.3% 121	3.5% 27
5	0.1% 2	0.6% 4	1.0% 15	3.1% 10	3.7% 54	1.7% 13
6+	0.1% 3	0.7% 5	0.2% 3	2.5% 8	3.7% 54	1.6% 12
TOTAL	100% 2035	100% 720	100% 1496	100% 319	100% 1461	100% 783

TOTAL TERMINAL-TRIPS FOR FRANKFORT = 6815

MINOR

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

TRIP PURPOSE

VEH TYPE	WORK	PERS BIZ	SHOP	VACATION	SOC-REC	OTHER
CAR W/O TRLR	66.6% 1356	92.9% 669	92.8% 1389	37.6% 279	87.6% 1279	86.2% 675
CAR W/ TRLR	0.1% 3	0.3% 3	0.7% 10	3.3% 10	3.1% 45	0.3% 2
PICK-UP W/O/TRLR	22.1% 451	6.2% 44	6.3% 94	5.0% 16	8.5% 124	11.9% 93
PICK-UP W/ TRLR	0.2% 5	0.0% 0	0.0% 0	2.1% 7	0.4% 6	0.0% 0
SINGLE-UNIT TRUCKS	8.2% 168	0.6% 4	0.2% 4	1.3% 4	0.3% 4	1.2% 9
COMBINATION TRUCKS	2.6% 53	0.0% 0	0.0% 0	0.7% 2	0.2% 3	0.4% 3
TOTAL	100% 2035	100% 720	100% 1496	100% 319	100% 1461	100% 783

TOTAL TERMINAL-TRIPS FOR FRANKFORT = 6815

7FEB78

TRIP LENGTH FREQUENCY DISTRIBUTION-FRANKFORD

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																					29.181	29.181		
20																						38.843	68.024	
30																						9.465	77.489	
40																						8.127	85.616	
50																						0.981	86.597	
60																						9.318	95.915	
70																						0.098	96.013	
80																						0.883	96.896	
90																						1.177	98.073	
100																						0.343	98.416	
110																						0.196	98.612	
120																						0.098	98.710	
130																						0.196	98.906	
140																						0.049	97.155	
150																						0.294	97.450	
160																						0.098	97.548	
170																						0.294	97.842	
180																						0.000	97.842	
190																						0.932	98.774	
200																						0.000	98.774	
210																						0.000	98.774	
220																						0.294	99.068	
230																						0.245	99.313	
240																						0.098	99.411	
250																						0.000	99.411	
260																						0.049	99.461	
270																						0.000	99.461	
280																						0.000	99.461	
290																						0.049	99.510	
300																						0.245	99.755	
310																						0.098	99.853	
320																						0.000	99.853	
330																						0.000	99.853	
340																						0.000	99.853	
350																						0.000	99.853	
360																						0.000	99.853	
370																						0.000	99.853	
380																						0.000	99.853	
390																						0.000	99.853	
400																						0.000	99.853	
																						0.147	100.000	

REMAINING VALUES ARE ALL ZERO
 NUMBER OF OBSERVATIONS# 2039 SUM# 51118 MEAN# 25.070 VAR# 1509.959 SD# 38.8

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

7FEB78

TRIP LENGTH FREQUENCY DISTRIBUTION-FRANKFORT

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.	ACTU
10.....																						44.583	44.583	
20.....																						39.306	83.889	
30.....																						3.272	87.161	
40.....																						3.889	91.050	
50.....																						0.417	91.467	
60.....																						4.722	96.189	
70.....																						0.000	96.189	
80.....																						0.000	96.189	
90.....																						0.278	96.467	
100.....																						0.217	97.083	
110.....																						0.000	97.083	
120.....																						0.000	97.083	
130.....																						0.000	97.083	
140.....																						0.000	97.083	
150.....																						0.000	97.083	
160.....																						0.000	97.083	
170.....																						0.556	97.639	
180.....																						0.000	97.639	
190.....																						0.417	98.056	
200.....																						0.000	98.056	
210.....																						0.000	98.056	
220.....																						0.694	98.750	
230.....																						0.000	98.750	
240.....																						0.000	98.750	
250.....																						0.000	98.750	
260.....																						0.000	98.750	
270.....																						0.000	98.750	
280.....																						0.000	98.750	
290.....																						0.000	98.750	
300.....																						1.111	99.861	
310.....																						0.000	99.861	
320.....																						0.139	100.000	

REMAINING VALUES ARE ALL ZERO
 NUMBER OF OBSERVATIONS= 720 SUM= 14280 MEAN= 20.111 VAR= 1650.997 SD= 40.6

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

7FEB78

TRIP LENGTH FREQUENCY DISTRIBUTION-FRANKFORT

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.	ACT	
10																							51.671	51.671	
20																							32.821	84.492	
30																							4.188	88.680	
40																							6.688	95.321	
50																							0.267	95.588	
60																							3.476	99.064	
70																							0.000	99.064	
80																							0.201	99.265	
90																							0.000	99.265	
100																							0.138	99.398	
110																							0.000	99.398	
120																							0.000	99.398	
130																							0.067	99.465	
140																							0.000	99.465	
150																							0.000	99.465	
160																							0.000	99.465	
170																							0.067	99.532	
180																							0.000	99.532	
190																							0.201	99.733	
200																							0.000	99.733	
210																							0.000	99.733	
220																							0.000	99.733	
230																							0.000	99.733	
240																							0.000	99.733	
250																							0.000	99.733	
260																							0.000	99.733	
270																							0.000	99.733	
280																							0.000	99.733	
290																							0.000	99.733	
300																							0.000	99.733	
310																							0.138	99.866	
320																							0.000	99.866	
330																							0.000	99.866	
340																							0.000	99.866	
350																							0.000	99.866	
360																							0.000	99.866	
370																							0.000	99.866	
380																							0.000	99.866	
390																							0.000	99.866	
400																							0.000	99.866	
410																							0.000	99.866	
420																							0.000	99.866	
430																							0.000	99.866	
440																							0.000	99.866	
450																							0.000	99.866	
460																							0.000	99.866	
470																							0.000	99.866	
480																							0.000	99.866	
490																							0.000	99.866	
500																							0.000	99.866	
510																							0.000	99.866	
520																							0.000	99.866	
530																							0.000	99.866	
540																							0.000	99.866	
550																							0.000	99.866	
560																							0.067	99.933	
570																							0.000	99.933	
580																							0.000	99.933	
590																							0.000	99.933	
600																							0.000	99.933	
610																							0.000	99.933	
620																							0.000	99.933	
630																							0.000	99.933	
640																							0.000	99.933	
650																							0.000	99.933	
660																							0.000	99.933	
670																							0.000	99.933	
680																							0.000	99.933	
690																							0.000	99.933	
700																							0.067	100.000	

REMAINING VALUES ARE ALL ZERO
 NUMBER OF OBSERVATIONS 1496 SUM 22046 MEAN 14.737 VAR 820.161 SD 28

TOTAL TRIPS OVER MAXP * 0
 TOTAL TRIPS OVER 255 * 0
 VOLUME TABLE NUMBER * 203
 SKIN TREE NUMBER * 101

7FEB78

TRIP LENGTH FREQUENCY DISTRIBUTION-FRANKFURT

PAGE 5

TRIP LENGTH	FREQUENCY	P.C.	CUM.	ACT
0			
2			
4			
6			
8			
10			
12			
14			
16			
18			
20			
22			
24			
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28			
30			
32			
34			
36			
38			
40			
10	33.230	33.230	
20	17.001	50.311	
30	4.969	55.280	
40	9.280	60.559	
50	0.957	61.491	
60	0.075	69.565	
70	0.000	69.565	
80	0.311	69.876	
90	1.863	71.739	
100	1.727	73.466	
110	0.621	74.087	
120	0.932	77.019	
130	0.932	77.950	
140	0.000	77.950	
150	0.311	78.261	
160	0.311	78.571	
170	0.621	79.193	
180	0.000	79.193	
190	2.484	81.677	
200	2.484	84.161	
210	0.000	84.161	
220	1.553	85.714	
230	3.106	88.820	
240	0.000	88.820	
250	0.000	88.820	
260	1.242	90.062	
270	0.000	90.062	
280	0.932	90.994	
290	0.311	91.304	
300	3.416	94.720	
310	1.242	95.963	
320	0.000	95.963	
330	0.000	95.963	
340	0.000	95.963	
350	0.000	95.963	
360	0.000	95.963	
370	0.621	96.584	
380	0.621	97.205	
390	0.621	97.826	
400	0.000	97.826	
410	0.932	98.758	
420	0.000	98.758	
430	0.621	99.379	
440	0.000	99.379	
450	0.000	99.379	
460	0.000	99.379	
470	0.000	99.379	
480	0.000	99.379	
490	0.000	99.379	
500	0.000	99.379	
510	0.000	99.379	
520	0.000	99.379	
530	0.000	99.379	
540	0.000	99.379	
550	0.000	99.379	
560	0.000	99.379	
570	0.000	99.379	
580	0.000	99.379	
590	0.000	99.379	
600	0.000	99.379	
610	0.000	99.379	
620	0.000	99.379	
630	0.000	99.379	
640	0.000	99.379	
650	0.000	99.379	
660	0.000	99.379	
670	0.000	99.379	
680	0.000	99.379	
690	0.000	99.379	
700	0.000	99.379	
710	0.000	99.379	
720	0.000	99.379	
730	0.000	99.379	
740	0.000	99.379	
750	0.621	100.000	

REMAINING VALUES ARE ALL ZERO
 NUMBER OF OBSERVATIONS= 322 SUM= 25966 MEAN= 80.646 VAR= 13666.783 SD= 117.1

TOTAL TRIPS OVER MAXP * 2
 TOTAL TRIPS OVER 255 * 0
 VOLUME TABLE NUMBER * 204
 SKIN TREE NUMBER * 101

7FEB78

TRIP LENGTH FREQUENCY DISTRIBUTION-FRANKFORT

PAGE 6

TRIP LENGTH	FREQUENCY	P.C.	CUM.	ACTG
0	10	0.49	49.111	
3	20	0.89	76.744	
6	30	1.29	80.643	
9	40	1.69	88.098	
12	50	2.09	89.535	
15	60	2.49	95.007	
18	70	3.09	95.212	
21	80	3.49	95.622	
24	90	4.09	96.443	
27	100	4.49	96.785	
30	110	4.89	97.059	
33	120	5.29	97.196	
36	130	5.69	97.674	
39	140	6.09	97.948	
42	150	6.49	98.085	
45	160	6.89	98.085	
48	170	7.29	98.153	
51	180	7.69	98.427	
54	190	8.09	98.632	
57	200	8.49	98.632	
60	210	8.89	98.632	
	220	9.29	99.042	
	230	9.69	99.042	
	240	10.09	99.042	
	250	10.49	99.042	
	260	10.89	99.042	
	270	11.29	99.042	
	280	11.69	99.042	
	290	12.09	99.248	
	300	12.49	99.658	
	310	12.89	99.658	
	320	13.29	99.658	
	330	13.69	99.658	
	340	14.09	99.726	
	350	14.49	99.726	
	360	14.89	99.726	
	370	15.29	99.726	
	380	15.69	99.726	
	390	16.09	99.726	
	400	16.49	99.726	
	410	16.89	99.726	
	420	17.29	99.795	
	430	17.69	99.795	
	440	18.09	99.795	
	450	18.49	99.795	
	460	18.89	99.795	
	470	19.29	99.795	
	480	19.69	99.795	
	490	20.09	99.795	
	500	20.49	99.795	
	510	20.89	99.795	
	520	21.29	99.795	
	530	21.69	99.795	
	540	22.09	99.795	
	550	22.49	99.795	
	560	22.89	99.795	
	570	23.29	99.795	
	580	23.69	99.795	
	590	24.09	99.795	
	600	24.49	99.795	
	610	24.89	99.795	
	620	25.29	99.795	
	630	25.69	99.795	
	640	26.09	99.795	
	650	26.49	99.795	
	660	26.89	99.795	
	670	27.29	99.795	
	680	27.69	99.795	
	690	28.09	99.795	
	700	28.49	99.795	
	710	28.89	99.795	
	720	29.29	99.795	
	730	29.69	99.795	
	740	30.09	99.863	
	750	30.49	100.000	

REMAINING VALUES ARE ALL ZERO
 NUMBER OF OBSERVATIONS# 1462 SUM# 32926 MEAN# 22.521 VAR# 2458.077 SD# 49.6

TOTAL TRIPS OVER MAXP # 2
 TOTAL TRIPS OVER 255 # 0
 VOLUME TABLE NUMBER # 205
 AKIM TREE NUMBER # 101

7FEB78

TRIP LENGTH FREQUENCY DISTRIBUTION-FRANKFORT

PAGE 7

	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																					40.996	40.996	
20																					37.548	78.544	
30																					5.747	84.291	
40																					6.513	90.805	
50																					1.277	92.082	
60																					4.070	96.152	
70																					0.383	96.535	
80																					0.258	97.190	
90																					0.383	97.573	
100																					0.511	98.084	
110																					0.000	98.084	
120																					0.383	98.467	
130																					0.511	98.978	
140																					0.000	98.978	
150																					0.258	99.236	
160																					0.000	99.236	
170																					0.258	99.494	
180																					0.000	99.494	
190																					0.000	99.494	
200																					0.000	99.494	
210																					0.000	99.494	
220																					0.258	99.745	
230																					0.258	100.000	

REMAINING VALUES ARE ALL ZERO
 NUMBER OF OBSERVATIONS= 783 SUM= 14145 MEAN= 18.065 VAR= 611.732 SD= 24.7

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

7FEB78

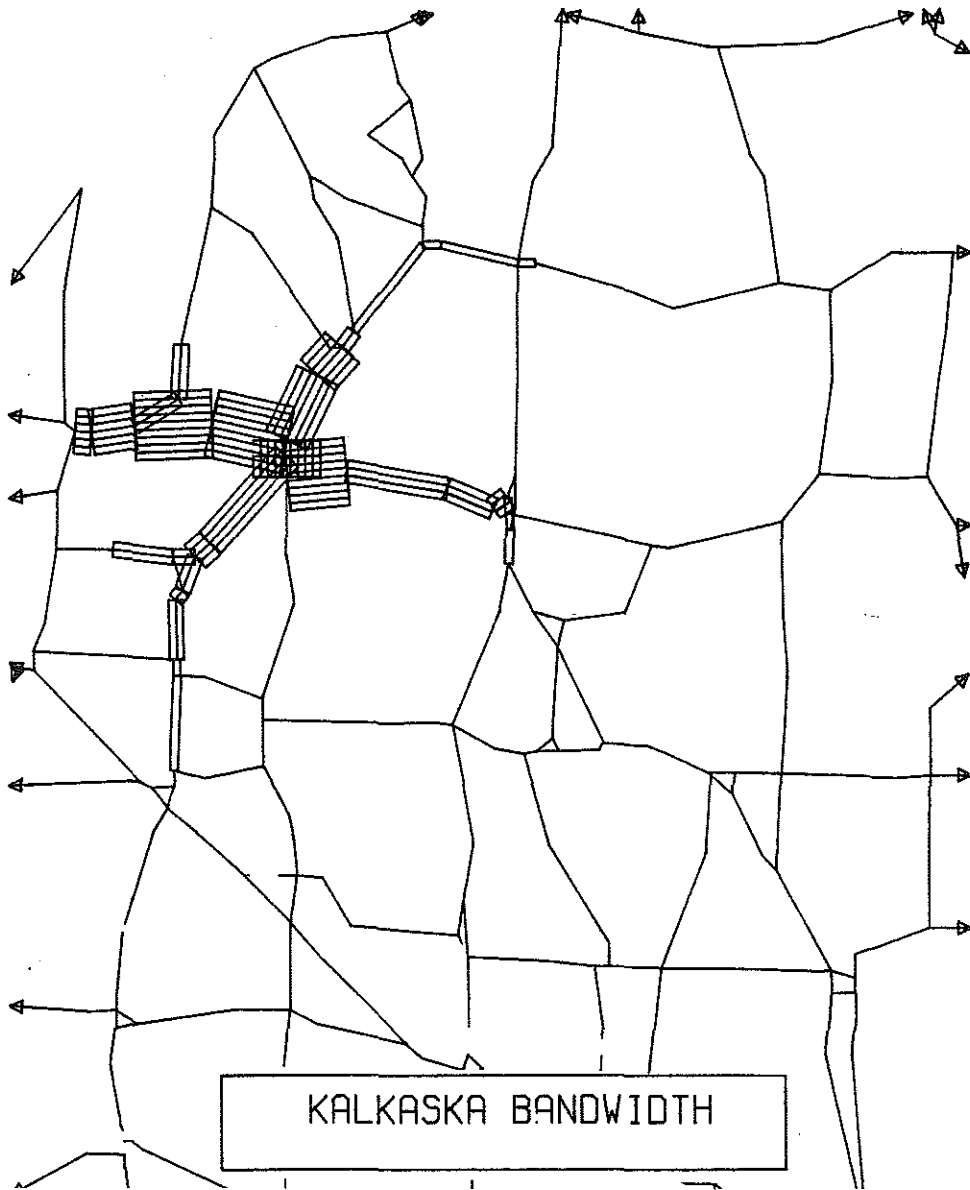
TRIP LENGTH FREQUENCY DISTRIBUTION-FRANKFORT

PAGE 8

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																						41.557	41.557	
20																						33.993	75.550	
30																						5.834	81.384	
40																						6.362	87.746	
50																						0.894	88.640	
60																						6.113	94.752	
70																						0.117	94.870	
80																						0.440	95.309	
90																						0.689	95.998	
100																						0.484	96.482	
110																						0.147	96.629	
120																						0.147	96.775	
130																						0.279	97.054	
140																						0.073	97.127	
150																						0.161	97.288	
160																						0.044	97.332	
170																						0.235	97.567	
180																						0.000	97.567	
190																						0.542	98.109	
200																						0.161	98.270	
210																						0.000	98.270	
220																						0.337	98.607	
230																						0.264	98.871	
240																						0.029	98.901	
250																						0.000	98.901	
260																						0.073	98.974	
270																						0.000	98.974	
280																						0.044	99.018	
290																						0.073	99.091	
300																						0.469	99.560	
310																						0.059	99.619	
320																						0.044	99.663	
330																						0.000	99.663	
340																						0.015	99.678	
350																						0.000	99.678	
360																						0.029	99.707	
370																						0.029	99.736	
380																						0.029	99.765	
390																						0.000	99.765	
400																						0.088	99.853	
410																						0.000	99.853	
420																						0.044	99.897	
430																						0.000	99.897	
440																						0.000	99.897	
450																						0.000	99.897	
460																						0.000	99.897	
470																						0.000	99.897	
480																						0.000	99.897	
490																						0.000	99.897	
500																						0.000	99.897	
510																						0.000	99.897	
520																						0.000	99.897	
530																						0.000	99.897	
540																						0.000	99.897	
550																						0.000	99.897	
560																						0.015	99.912	
570																						0.000	99.912	
580																						0.000	99.912	
590																						0.000	99.912	
600																						0.000	99.912	
610																						0.000	99.912	
620																						0.000	99.912	
630																						0.000	99.912	
640																						0.000	99.912	
650																						0.000	99.912	
660																						0.000	99.912	
670																						0.000	99.912	
680																						0.000	99.912	
690																						0.000	99.912	
700																						0.015	99.927	
710																						0.000	99.927	
720																						0.000	99.927	
730																						0.000	99.927	
740																						0.015	99.941	
750																						0.059	100.000	

REMAINING VALUES ARE ALL ZERO
 NUMBER OF OBSERVATIONS# 6822 SUM# 160683 MEAN# 23.554 VAR# 2233.439 SD# 47.2

TOTAL TRIPS OVER MAXP = 4
 TOTAL TRIPS OVER 255 = 0
 VOLUME TABLE NUMBER = 207
 SKIM TREE NUMBER = 101



KALKASKA

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
69.1%	0.5%	21.9%	0.3%	6.4%	1.8%
5105	35	1616	24	473	136

TRIP PURPOSE

WORK	PERS BIZ	SHOP	VACATION	SOC-REC	OTHER
41.2%	10.3%	23.0%	2.0%	13.6%	9.9%
3044	762	1700	147	1007	729

NUMBER IN VEHICLE

1	2	3	4	5	6+
54.9%	26.1%	9.2%	5.4%	2.6%	1.9%
4056	1929	680	397	189	138

VEHICLE GARAGED AT

ORIGIN	DESTIN	UTHER
42.5%	29.9%	27.7%
3137	2206	2046

TOTAL TRIPS = 7389

MINOR

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

TRIP PURPOSE

# IN VEH.	WORK	PERS BIZ	SHOP	VACATION	SCC-REC	OTHER
1	76.1% 2318	48.2% 367	37.9% 644	13.5% 20	34.6% 348	49.2% 359
2	17.1% 522	29.5% 225	33.3% 566	41.0% 60	35.4% 356	27.4% 199
3	4.4% 135	11.9% 91	14.0% 239	15.2% 22	12.1% 122	9.8% 72
4	1.5% 46	5.3% 40	8.4% 142	11.3% 17	8.9% 90	8.5% 62
5	0.5% 14	2.8% 21	3.6% 62	9.7% 14	5.9% 59	2.6% 19
6+	0.3% 10	2.3% 18	2.8% 47	9.3% 14	3.1% 31	2.6% 19
TOTAL	100% 3044	100% 762	100% 1700	100% 147	100% 1007	100% 729

TOTAL TERMINAL-TRIPS FOR KALKASKA = 7389

MINOR

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

TRIP PURPOSE

VEH TYPE	WORK	PERS BIZ	SHCP	VACATION	SOC-REC	OTHER
CAR W/O TRLR	50.4% 1534	81.0% 617	83.6% 1421	82.3% 121	86.0% 866	75.1% 547
CAR W/ TRLR	0.2% 7	0.0% 0	0.8% 14	3.2% 5	0.6% 6	0.4% 3
PICK-UP W/O/TRLR	31.1% 946	17.8% 136	14.6% 248	9.9% 15	11.9% 120	20.9% 152
PICK-UP W/ TRLR	0.6% 17	0.0% 0	0.1% 2	0.0% 0	0.1% 1	0.4% 3
SINGLE-UNIT TRUCKS	13.6% 415	1.2% 9	0.7% 13	4.7% 7	1.1% 12	2.5% 18
COMBINATION TRUCKS	4.1% 125	0.0% 0	0.1% 2	0.0% 0	0.2% 2	0.8% 6
TOTAL	100% 3044	100% 762	100% 1700	100% 147	100% 1007	100% 729

TOTAL TERMINAL-TRIPS FOR KALKASKA = 7389

7FEB78

TRIP LENGTH FREQUENCY DISTRIBUTION-KALHASKA

PAGE 2

0	4	8	12	16	20	24	28	32	36	40	44	48	52	56	60	64	68	72	76	80	P.C.	CUM.	ACT	
10																						0.000	0.000	
20																						60.355	60.355	
30																						6.640	66.995	
40																						12.327	79.323	
50																						7.594	86.917	
60																						4.931	91.847	
70																						2.347	94.194	
80																						0.457	94.652	
90																						0.164	95.036	
100																						0.440	95.496	
110																						0.822	96.318	
120																						0.493	96.811	
130																						0.690	97.502	
140																						0.263	97.765	
150																						0.329	98.093	
160																						0.000	98.093	
170																						0.033	98.126	
180																						0.296	98.422	
190																						0.066	98.488	
200																						0.299	98.784	
210																						0.066	98.849	
220																						0.033	98.882	
230																						0.164	99.047	
240																						0.033	99.080	
250																						0.164	99.244	
260																						0.131	99.375	
270																						0.033	99.408	
280																						0.033	99.441	
290																						0.000	99.441	
300																						0.099	99.540	
310																						0.000	99.540	
320																						0.000	99.540	
330																						0.000	99.540	
340																						0.131	99.671	
350																						0.164	99.836	
360																						0.000	99.836	
370																						0.000	99.836	
380																						0.000	99.836	
390																						0.000	99.836	
400																						0.000	99.836	
410																						0.000	99.836	
420																						0.000	99.836	
430																						0.000	99.836	
440																						0.000	99.836	
450																						0.000	99.836	
460																						0.000	99.836	
470																						0.000	99.836	
480																						0.000	99.836	
490																						0.800	99.836	
500																						0.000	99.836	
510																						0.000	99.836	
520																						0.000	99.836	
530																						0.000	99.836	
540																						0.099	99.934	
550																						0.000	99.934	
560																						0.000	99.934	
570																						0.000	99.934	
580																						0.000	99.934	
590																						0.000	99.934	
600																						0.000	99.934	
610																						0.000	99.934	
620																						0.000	99.934	
630																						0.000	99.934	
640																						0.000	99.934	
650																						0.000	99.934	
660																						0.000	99.934	
670																						0.000	99.934	

REMAINING VALUES ARE ALL ZERO
 NUMBER OF OBSERVATIONS# 3042 SUM# 103391 MEAN# 33,986 VAR# 1749,885 SD# 41.
 TOTAL TRIPS OVER MAXP # 0
 TOTAL TRIPS OVER 255 # 0
 VOLUME TABLE NUMBER # 201
 SKIM TREE NUMBER # 101

7FEB78

TRIP LENGTH FREQUENCY DISTRIBUTION-KALKASKA

PAGE 3

TRIP LENGTH	FREQUENCY	P.C.	CUM. AC
0			
4			
8			
12			
16			
20			
24			
28			
32			
36			
40			
44			
48			
52			
56			
60			
64			
68			
72			
76			
80			
10.		0.000	0.000
20.		71.673	71.673
30.		5.534	77.207
40.		11.331	88.538
50.		6.324	94.862
60.		1.318	96.179
70.		0.791	96.970
80.		0.000	96.970
90.		0.000	96.970
100.		0.000	96.970
110.		0.000	96.970
120.		0.527	97.497
130.		0.000	97.497
140.		0.000	97.497
150.		0.132	97.629
160.		0.264	97.892
170.		0.000	97.892
180.		0.395	98.287
190.		0.132	98.419
200.		0.659	99.078
210.		0.132	99.210
220.		0.132	99.341
230.		0.000	99.341
240.		0.000	99.341
250.		0.000	99.341
260.		0.527	99.868
270.		0.132	100.000

REMAINING VALUES ARE ALL ZERO			
NUMBER OF OBSERVATIONS	759	SUM	21283.
		MEAN	28.041
		VAR	996.169
		SD	31

TOTAL TRIPS OVER MAXP	=	0
TOTAL TRIPS OVER 255	=	0
VOLUME TABLE NUMBER	=	202
SKIN TREE NUMBER	=	101

7FEB78

TRIP LENGTH FREQUENCY DISTRIBUTION-KALKASKA

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.	AC																					
10.																						0.000	0.000																						
20.																						72.320	72.320																						
30.																						9.128	81.449																						
40.																						8.245	89.694																						
50.																						7.008	96.702																						
60.																						1.119	97.821																						
70.																						0.471	98.292																						
80.																						0.236	98.528																						
90.																						0.000	98.528																						
100.																						0.118	98.645																						
110.																						0.234	98.881																						
120.																						0.290	99.176																						
130.																						0.059	99.234																						
140.																						0.000	99.234																						
150.																						0.290	99.529																						
160.																						0.000	99.529																						
170.																						0.000	99.529																						
180.																						0.000	99.529																						
190.																						0.000	99.529																						
200.																						0.059	99.588																						
210.																						0.118	99.706																						
220.																						0.000	99.706																						
230.																						0.000	99.706																						
240.																						0.059	99.764																						
250.																						0.118	99.882																						
260.																						0.000	99.882																						
270.																						0.000	99.882																						
280.																						0.118	100.000																						
REMAINING VALUES ARE ALL ZERO																																													
NUMBER OF OBSERVATIONS#																							1698																						
SUM#																							41809.																						
MEAN#																							24.641																						
VAR#																							428.028																						
SD#																							20																						
TOTAL TRIPS OVER MAXP #																							0																						
TOTAL TRIPS OVER 255 #																							0																						
VOLUME TABLE NUMBER #																							203																						
SKIN TREE NUMBER #																							101																						

7FEB78

TRIP LENGTH FREQUENCY DISTRIBUTION-KALWASKA

PAGE 5

TRIP LENGTH	FREQUENCY	P.C.	CUM.	ACT
0				
2				
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6				
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12				
14				
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18				
20				
22				
24				
26				
28				
30				
32				
34				
36				
38				
40				
10.		0,000	0,000	
20.		29,861	29,861	
30.		9,028	38,889	
40.		14,583	53,472	
50.		13,889	67,361	
60.		1,389	68,750	
70.		1,389	70,139	
80.		1,389	71,528	
90.		0,494	72,022	
100.		1,389	73,411	
110.		1,389	74,800	
120.		2,083	76,883	
130.		4,861	81,744	
140.		0,000	81,744	
150.		0,494	82,238	
160.		1,389	83,628	
170.		0,000	83,628	
180.		2,778	86,406	
190.		2,083	88,489	
200.		0,494	88,983	
210.		0,494	89,478	
220.		0,000	89,478	
230.		0,000	89,478	
240.		2,083	91,561	
250.		0,000	91,561	
260.		0,494	92,056	
270.		0,000	92,056	
280.		1,389	93,444	
290.		0,000	93,444	
300.		0,000	93,444	
310.		4,167	97,611	
320.		0,000	97,611	
330.		0,000	97,611	
340.		0,494	98,106	
350.		0,000	98,106	
360.		0,000	98,106	
370.		0,000	98,106	
380.		0,000	98,106	
390.		0,000	98,106	
400.		0,000	98,106	
410.		0,000	98,106	
420.		0,000	98,106	
430.		0,000	98,106	
440.		0,000	98,106	
450.		0,000	98,106	
460.		0,000	98,106	
470.		0,000	98,106	
480.		0,000	98,106	
490.		0,494	100,000	
500.				

REMAINING VALUES ARE ALL ZERO

NUMBER OF OBSERVATIONS= 144 SUM= 11223 MEAN= 77,938 VAR= 7667,632 SD= 87.

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

7FEB78

TRIP LENGTH FREQUENCY DISTRIBUTION-KALKASKA

PAGE 6

TRIP LENGTH	FREQ	P.C.	CUM.	ACT
0				
4				
8				
12				
16				
20				
24				
28				
32				
36				
40				
44				
48				
52				
56				
60				
64				
68				
72				
76				
80				
10.		0.000	0.000	
20.		08.096	08.096	
30.		5.468	13.564	
40.		10.269	23.833	
50.		9.671	33.504	
60.		1.595	35.100	
70.		0.897	36.000	
80.		1.097	37.097	
90.		0.100	37.197	
100.		0.299	37.496	
110.		0.199	37.695	
120.		0.299	37.994	
130.		0.000	37.994	
140.		0.000	37.994	
150.		0.399	38.393	
160.		0.000	38.393	
170.		0.000	38.393	
180.		0.000	38.393	
190.		0.299	38.692	
200.		0.100	38.792	
210.		0.299	39.091	
220.		0.199	39.290	
230.		0.000	39.290	
240.		0.100	39.390	
250.		0.000	39.390	
260.		0.100	39.490	
270.		0.199	39.689	
280.		0.000	39.689	
290.		0.000	39.689	
300.		0.100	39.789	
310.		0.000	39.789	
320.		0.000	39.789	
330.		0.000	39.789	
340.		0.000	39.789	
350.		0.000	39.789	
360.		0.000	39.789	
370.		0.000	39.789	
380.		0.000	39.789	
390.		0.000	39.789	
400.		0.100	40.000	

REMAINING VALUES ARE ALL ZERO

NUMBER OF OBSERVATIONS	1003	SUM	29286.	MEAN	29.198	VAR	1020.971	SD	31.64
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TOTAL TRIPS OVER MAXP = 0
TOTAL TRIPS OVER 255 = 0
VOLUME TABLE NUMBER = 205
SKIM TREE NUMBER = 101

7FEB78

TRIP LENGTH FREQUENCY DISTRIBUTION-KALASKA

PAGE 7

	0	4	8	12	16	20	24	28	32	36	40	44	48	52	56	60	64	68	72	76	80	P.C.	CUM.	AC
10.																						0.000	0.000	
20.																						70.564	70.564	
30.																						4.402	77.166	
40.																						8.866	85.832	
50.																						4.402	92.435	
60.																						2.889	95.323	
70.																						0.000	95.323	
80.																						1.100	96.424	
90.																						3.275	96.699	
100.																						0.138	96.836	
110.																						0.138	96.974	
120.																						0.138	97.111	
130.																						0.825	97.937	
140.																						0.000	97.937	
150.																						0.000	97.937	
160.																						0.000	97.937	
170.																						0.000	97.937	
180.																						0.138	98.074	
190.																						0.138	98.212	
200.																						0.413	98.624	
210.																						0.275	98.900	
220.																						0.000	98.900	
230.																						0.138	99.037	
240.																						0.138	99.175	
250.																						0.000	99.175	
260.																						0.413	99.587	
270.																						0.000	99.587	
280.																						0.000	99.587	
290.																						0.138	99.725	
300.																						0.000	99.725	
310.																						0.000	99.725	
320.																						0.000	99.725	
330.																						0.000	99.725	
340.																						0.138	99.862	
350.																						0.000	99.862	
360.																						0.000	99.862	
370.																						0.000	99.862	
380.																						0.000	99.862	
390.																						0.000	99.862	
400.																						0.000	99.862	
410.																						0.000	99.862	
420.																						0.000	99.862	
430.																						0.000	99.862	
440.																						0.000	99.862	
450.																						0.000	99.862	
460.																						0.000	99.862	
470.																						0.000	99.862	
480.																						0.138	100.000	

REMAINING VALUES ARE ALL ZERO
NUMBER OF OBSERVATIONS# 727

SUM# 21370. MEAN# 29.395 VARI# 1376.316 SDE 37

TOTAL TRIPS OVER MAX# # 0
TOTAL TRIPS OVER 255 # 0
VOLUME TABLE NUMBER # 206
KIM TREE NUMBER # 101

7FEB78

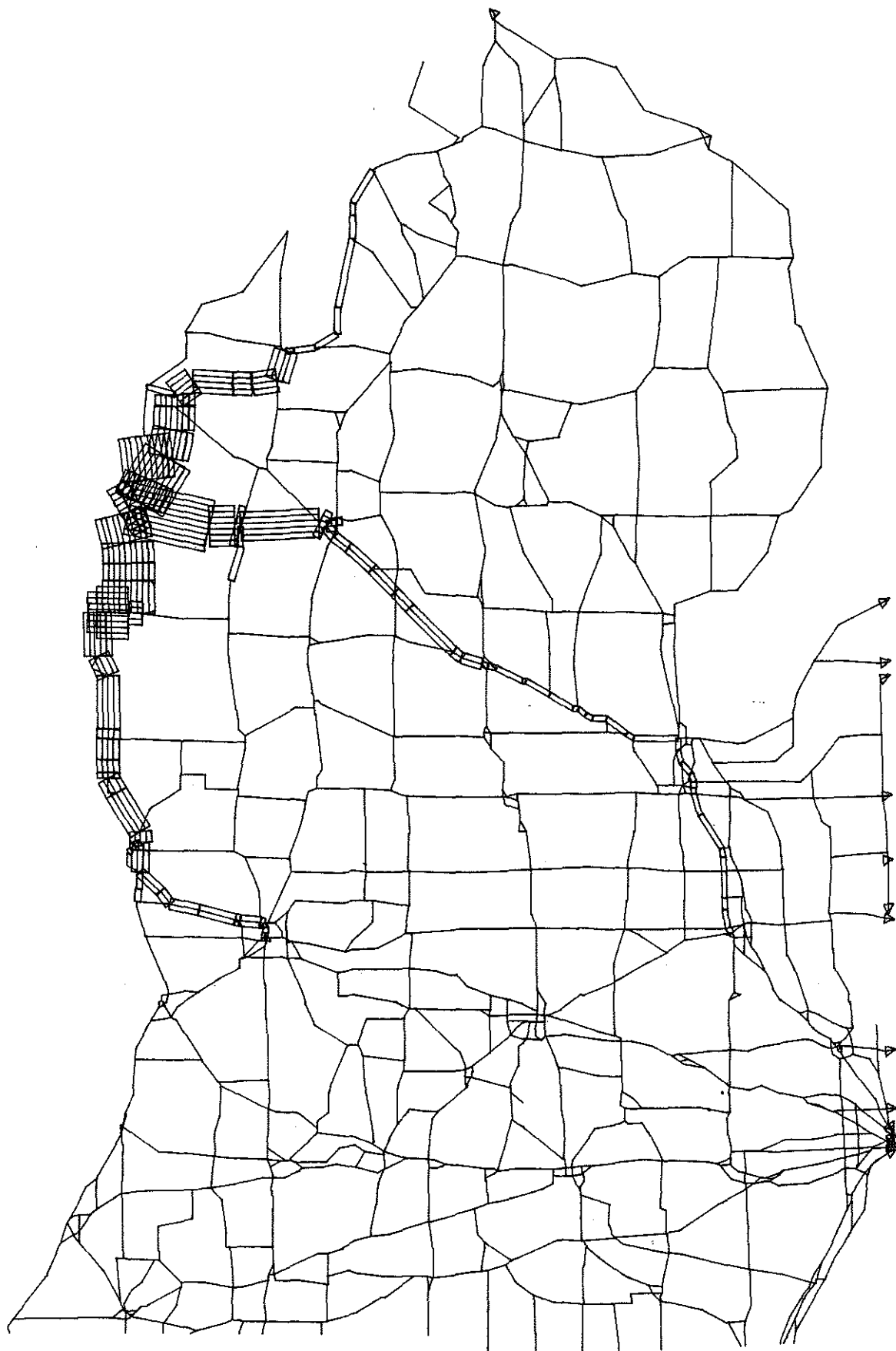
TRIP LENGTH FREQUENCY DISTRIBUTION-KALKASKA

PAGE 8

TRIP LENGTH	FREQUENCY	P.C.	CUM.	ACT
0	10	0.000	0.000	
4	20	0.740	0.740	
8	30	6.985	7.725	
12	40	10.668	18.393	
16	50	7.636	26.029	
20	60	2.937	33.966	
24	70	1.316	41.682	
28	80	0.610	48.992	
32	90	0.122	55.814	
36	100	0.298	62.112	
40	110	0.461	67.573	
44	120	0.366	72.939	
48	130	0.529	78.468	
52	140	0.109	83.577	
56	150	0.285	88.862	
60	160	0.054	93.916	
64	170	0.014	98.169	
68	180	0.271	98.440	
72	190	0.109	98.549	
76	200	0.298	98.847	
80	210	0.136	99.983	
	220	0.027	99.010	
	230	0.081	99.091	
	240	0.095	99.186	
	250	0.095	99.281	
	260	0.178	99.457	
	270	0.054	99.512	
	280	0.068	99.580	
	290	0.014	99.594	
	300	0.054	99.647	
	310	0.081	99.729	
	320	0.000	99.729	
	330	0.054	99.783	
	340	0.109	99.891	
	350	0.000	99.891	
	360	0.000	99.891	
	370	0.000	99.891	
	380	0.000	99.891	
	390	0.000	99.891	
	400	0.014	99.905	
	410	0.000	99.905	
	420	0.000	99.905	
	430	0.000	99.905	
	440	0.000	99.905	
	450	0.000	99.905	
	460	0.000	99.905	
	470	0.000	99.905	
	480	0.014	99.919	
	490	0.014	99.932	
	500	0.000	99.932	
	510	0.000	99.932	
	520	0.000	99.932	
	530	0.000	99.932	
	540	0.041	99.973	
	550	0.000	99.973	
	560	0.000	99.973	
	570	0.000	99.973	
	580	0.000	99.973	
	590	0.000	99.973	
	600	0.000	99.973	
	610	0.000	99.973	
	620	0.000	99.973	
	630	0.000	99.973	
	640	0.000	99.973	
	650	0.000	99.973	
	660	0.000	99.973	
	670	0.027	100.000	

REMAINING VALUES ARE ALL ZERO
 NUMBER OF OBSERVATIONS= 7373 SUM= 226393 MEAN= 30.977 VAR= 1405.077 SD= 37.4

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



MANISTEE BANDWIDTH

MANISTEE

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	SINGLF=UNIT TRUCKS	COMBINATION TRUCKS
82.1% 12578	0.8% 123	10.9% 1669	0.3% 42	3.5% 530	2.4% 373

TRIP PURPOSE

WORK	PERS BIZ	SHOP	VACATION	SOC=REC	OTHER
38.7% 5923	5.2% 795	22.9% 3508	3.8% 576	20.8% 3178	8.7% 1337

NUMBER IN VEHICLE

1	2	3	4	5	6+
50.9% 7792	26.7% 4093	10.4% 1598	6.3% 961	3.2% 485	2.5% 387

VEHICLE GARAGED AT

ORIGIN	DESTIN	OTHER
41.3% 6323	33.2% 5081	25.5% 3912

TOTAL TRIPS = 15316

MINOR

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

TRIP PURPOSE

# IN VEH.	WORK	PERS BIZ	SHCP	VACATION	SOC-REC	OTHER
1	79.9% 4731	46.3% 368	31.2% 1095	5.8% 33	35.1% 1115	33.7% 450
2	14.5% 858	33.1% 263	34.6% 1215	40.4% 233	33.3% 1057	35.0% 467
3	3.6% 212	11.4% 91	14.5% 507	16.3% 94	14.6% 463	17.2% 230
4	1.2% 73	4.2% 33	9.2% 323	21.5% 124	9.8% 312	7.1% 95
5	0.4% 25	3.2% 26	5.7% 201	9.7% 56	3.7% 117	4.6% 62
6+	0.4% 24	1.7% 14	4.8% 167	6.3% 36	3.6% 115	2.4% 31
TOTAL	100% 5923	100% 795	100% 3508	100% 576	100% 3178	100% 1337

TOTAL TERMINAL-TRIPS FOR MANISTEE = 15316

MINOR

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

TRIP PURPOSE

VEH TYPE	WORK	PERS BIZ	SHCP	VACATION	SOC-REC	OTHER
CAR W/O TRLR	67.0% 3966	89.1% 708	91.7% 3218	89.0% 513	91.9% 2921	93.8% 1253
CAR W/ TRLR	0.3% 17	0.7% 5	0.7% 25	4.6% 27	1.3% 42	0.6% 8
PICK-UP W/O/TRLR	18.3% 1084	9.4% 74	6.9% 244	3.4% 19	5.5% 174	5.5% 74
PICK-UP W/ TRLR	0.1% 6	0.3% 2	0.0% 1	0.4% 2	1.0% 31	0.0% 0
SINGLE-UNIT TRUCKS	8.3% 490	0.4% 3	0.5% 17	1.8% 10	0.3% 8	0.1% 2
COMBINATION TRUCKS	6.1% 360	0.2% 2	0.1% 4	0.8% 4	0.1% 3	0.0% 0
TOTAL	100% 5923	100% 795	100% 3508	100% 576	100% 3178	100% 1337

TOTAL TERMINAL-TRIPS FOR MANISTEE = 15316

6FEB78

TRIP LENGTH FREQUENCY DISTRIBUTION-MANISTEE

TRIP LENGTH	FREQ	P.C.	CUM.	ACTUAL					
0									
3									
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		0.831	49.831						
30		12.179	62.010						
40		15.845	77.855						
50		7.990	85.845						
60		2.703	88.547						
70		1.943	90.490						
80		0.017	90.507						
90		2.838	93.345						
100		0.203	93.547						
110		0.389	93.936						
120		1.503	95.439						
130		0.456	95.895						
140		0.203	96.098						
150		0.236	96.334						
160		1.807	98.142						
170		0.101	98.243						
180		0.152	98.395						
190		0.000	98.395						
200		0.118	98.514						
210		0.541	99.054						
220		0.068	99.122						
230		0.101	99.223						
240		0.068	99.291						
250		0.017	99.307						
260		0.084	99.392						
270		0.038	99.428						
280		0.038	99.469						
290		0.220	99.679						
300		0.000	99.679						
310		0.017	99.696						
320		0.000	99.696						
330		0.017	99.713						
340		0.000	99.713						
350		0.068	99.780						
360		0.000	99.780						
370		0.068	99.848						
380		0.000	99.848						
390		0.000	99.848						
400		0.000	99.848						
410		0.000	99.848						
420		0.000	99.848						
430		0.000	99.848						
440		0.000	99.848						
450		0.000	99.848						
460		0.000	99.848						
470		0.000	99.848						
480		0.000	99.848						
490		0.000	99.848						
500		0.000	99.848						
510		0.000	99.848						
520		0.135	99.983						
530		0.000	99.983						
540		0.000	99.983						
550		0.000	99.983						
560		0.000	99.983						
570		0.000	99.983						
580		0.000	99.983						
590		0.017	100.000						
REMAINING VALUES ARE ALL ZERO									
NUMBER OF OBSERVATIONS	5920	SUM	201724	MEAN	34.075	VAR	1902.789	SD	43.6
TOTAL TRIPS OVER MAXP	*	0							
TOTAL TRIPS OVER 255	*	0							
VOLUME TABLE NUMBER	*	201							
KIM TREE NUMBER	*	101							

0P2878 TRIP LENGTH FREQUENCY DISTRIBUTION-MANISTEE

	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.																							0.000	0.000	0.000
20.																							48.181	48.181	48.181
30.																							11.041	59.222	59.222
40.																							19.573	78.795	78.795
50.																							8.524	87.320	87.320
60.																							3.764	91.084	91.084
70.																							1.508	92.592	92.592
80.																							0.000	92.592	92.592
90.																							2.258	94.850	94.850
100.																							0.000	94.850	94.850
110.																							0.502	95.352	95.352
120.																							0.251	95.603	95.603
130.																							0.000	95.603	95.603
140.																							0.000	95.603	95.603
150.																							0.251	95.854	95.854
160.																							2.509	98.363	98.363
170.																							0.000	98.363	98.363
180.																							0.125	98.488	98.488
190.																							0.000	98.488	98.488
200.																							0.000	98.488	98.488
210.																							1.506	99.992	99.992
220.																							0.000	99.992	99.992
230.																							0.251	98.243	98.243
240.																							0.000	98.243	98.243
250.																							0.000	98.243	98.243
260.																							0.125	98.369	98.369
270.																							0.502	98.871	98.871
280.																							0.125	98.996	98.996
290.																							0.502	99.498	99.498
300.																							0.125	99.624	99.624
310.																							0.000	99.624	99.624
320.																							0.000	99.624	99.624
330.																							0.000	99.624	99.624
340.																							0.000	99.624	99.624
350.																							0.000	99.624	99.624
360.																							0.000	99.624	99.624
370.																							0.251	99.875	99.875
380.																							0.000	99.875	99.875
390.																							0.000	99.875	99.875
400.																							0.000	99.875	99.875
410.																							0.000	99.875	99.875
420.																							0.000	99.875	99.875
430.																							0.000	99.875	99.875
440.																							0.000	99.875	99.875
450.																							0.000	99.875	99.875
460.																							0.000	99.875	99.875
470.																							0.000	99.875	99.875
480.																							0.000	99.875	99.875
490.																							0.000	99.875	99.875
500.																							0.000	99.875	99.875
510.																							0.000	99.875	99.875
520.																							0.125	100.000	100.000

REMAINING VALUES ARE ALL ZERO
 NUMBER OF OBSERVATIONS= 797 SUM= 29541. MEAN= 37.065 VAR= 2673.279 SD= 51.70

TOTAL TRIPS OVER MAXP = 0
 TOTAL TRIPS OVER 255 = 0
 VOLUME TABLE NUMBER = 202
 IKIM TREE NUMBER = 101

6FEB78 TRIP LENGTH FREQUENCY DISTRIBUTION-MANISTEE

	P.C.	CUM.	ACTUAL
0			
3			
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.	44.460	44.460	
30.	12.736	57.196	
40.	25.957	83.152	
50.	9.109	92.262	
60.	3.912	96.174	
70.	0.714	96.887	
80.	0.086	96.973	
90.	1.114	96.047	
100.	0.086	96.172	
110.	0.057	96.230	
120.	0.343	96.572	
130.	0.086	96.658	
140.	0.000	96.658	
150.	0.057	96.715	
160.	0.685	99.400	
170.	0.086	99.486	
180.	0.057	99.543	
190.	0.029	99.572	
200.	0.000	99.572	
210.	0.000	99.572	
220.	0.029	99.600	
230.	0.171	99.772	
240.	0.000	99.772	
250.	0.057	99.829	
260.	0.029	99.857	
270.	0.057	99.914	
280.	0.029	99.943	
290.	0.000	99.943	
300.	0.000	99.943	
310.	0.000	99.943	
320.	0.000	99.943	
330.	0.000	99.943	
340.	0.000	99.943	
350.	0.000	99.943	
360.	0.000	99.943	
370.	0.000	99.943	
380.	0.000	99.943	
390.	0.000	99.943	
400.	0.000	99.943	
410.	0.000	99.943	
420.	0.000	99.943	
430.	0.000	99.943	
440.	0.000	99.943	
450.	0.000	99.943	
460.	0.000	99.943	
470.	0.000	99.943	
480.	0.000	99.943	
490.	0.000	99.943	
500.	0.000	99.943	
510.	0.000	99.943	
520.	0.000	99.943	
530.	0.000	99.943	
540.	0.000	99.943	
550.	0.000	99.943	
560.	0.000	99.943	
570.	0.029	99.971	
580.	0.000	99.971	
590.	0.000	99.971	
600.	0.000	99.971	
610.	0.000	99.971	
620.	0.000	99.971	
630.	0.000	99.971	
640.	0.000	99.971	
650.	0.000	99.971	
660.	0.000	99.971	
670.	0.000	99.971	
680.	0.000	99.971	
690.	0.000	99.971	
700.	0.000	99.971	
710.	0.000	99.971	
720.	0.000	99.971	
730.	0.000	99.971	
740.	0.000	99.971	
750.	0.029	100.000	

REMAINING VALUES ARE ALL ZERO

NUMBER OF OBSERVATIONS= 3502 SUM= 96310. MEAN= 28.073 VAR= 846.260 SD= 29.09

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

6FEB78 TRIP LENGTH FREQUENCY DISTRIBUTION-MANISTEE

TRIP LENGTH	FREQUENCY	P.C.	CUM.	ACTUAL
0	0.000	0.000	
10	13.412	13.412	
20	9.107	24.518	
30	8.757	33.275	
40	9.807	43.082	
50	6.130	49.212	
60	2.102	51.313	
70	0.350	51.664	
80	7.531	59.194	
90	0.175	59.370	
100	0.876	60.245	
110	2.277	62.522	
120	1.226	63.748	
130	0.175	63.923	
140	2.802	66.725	
150	3.503	70.228	
160	0.000	70.228	
170	2.277	72.504	
180	0.701	73.205	
190	0.000	73.205	
200	2.977	76.182	
210	1.576	77.758	
220	6.305	84.063	
230	0.701	84.764	
240	1.751	86.515	
250	0.350	86.865	
260	0.701	87.566	
270	2.977	90.543	
280	3.152	93.695	
290	0.525	94.221	
300	1.051	95.271	
310	0.000	95.271	
320	0.175	95.447	
330	0.350	95.797	
340	1.576	97.373	
350	0.175	97.548	
360	0.876	98.424	
370	0.000	98.424	
380	0.000	98.424	
390	0.000	98.424	
400	0.000	98.424	
410	0.000	98.424	
420	0.000	98.424	
430	0.350	98.774	
440	0.000	98.774	
450	0.000	98.774	
460	0.175	98.949	
470	0.701	99.650	
480	0.000	99.650	
490	0.000	99.650	
500	0.000	99.650	
510	0.000	99.650	
520	0.000	99.650	
530	0.000	99.650	
540	0.000	99.650	
550	0.000	99.650	
560	0.000	99.650	
570	0.000	99.650	
580	0.000	99.650	
590	0.000	99.650	
600	0.000	99.650	
610	0.000	99.650	
620	0.000	99.650	
630	0.000	99.650	
640	0.000	99.650	
650	0.000	99.650	
660	0.000	99.650	
670	0.000	99.650	
680	0.000	99.650	
690	0.000	99.650	
700	0.000	99.650	
710	0.000	99.650	
720	0.000	99.650	
730	0.000	99.650	
740	0.000	99.650	
750	0.350	100.000	

REMAINING VALUES ARE ALL ZERO

NUMBER OF OBSERVATIONS	571	SUM	66936.	MEAN	117.226	VAR	12697.650	SD	113.56
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TOTAL TRIPS OVER MAXP = 2
TOTAL TRIPS OVER 255 = 0
VOLUME TABLE NUMBER = 204
SKIM TREE NUMBER = 101

0FEB78 TRIP LENGTH FREQUENCY DISTRIBUTION-MANISTEE

PAGE 6

TRIP LENGTH	FREQUENCY	P.C.	CUM.	ACTUAL
0		0.000	0.000	
3		0.000	0.000	
6		0.000	0.000	
9		0.000	0.000	
12		0.000	0.000	
15		0.000	0.000	
18		0.000	0.000	
21		0.000	0.000	
24		0.000	0.000	
27		0.000	0.000	
30		0.000	0.000	
33		0.000	0.000	
36		0.000	0.000	
39		0.000	0.000	
42		0.000	0.000	
45		0.000	0.000	
48		0.000	0.000	
51		0.000	0.000	
54		0.000	0.000	
57		0.000	0.000	
60		0.000	0.000	
10		56.782	56.782	
20		9.853	66.635	
30		13.407	80.042	
40		7.129	86.972	
50		2.587	89.558	
60		1.262	90.820	
70		0.663	91.483	
80		0.324	91.807	
90		0.167	91.974	
100		0.095	92.069	
110		0.056	92.125	
120		0.032	92.157	
130		0.019	92.176	
140		0.011	92.187	
150		0.006	92.193	
160		0.004	92.197	
170		0.002	92.199	
180		0.001	92.200	
190		0.000	92.200	
200		0.000	92.200	
210		0.000	92.200	
220		0.000	92.200	
230		0.000	92.200	
240		0.000	92.200	
250		0.000	92.200	
260		0.000	92.200	
270		0.000	92.200	
280		0.000	92.200	
290		0.000	92.200	
300		0.000	92.200	
310		0.000	92.200	
320		0.000	92.200	
330		0.000	92.200	
340		0.000	92.200	
350		0.000	92.200	
360		0.000	92.200	
370		0.000	92.200	
380		0.000	92.200	
390		0.000	92.200	
400		0.000	92.200	
410		0.000	92.200	
420		0.000	92.200	
430		0.000	92.200	
440		0.000	92.200	
450		0.000	92.200	
460		0.000	92.200	
470		0.000	92.200	
480		0.000	92.200	
490		0.000	92.200	
500		0.000	92.200	
510		0.000	92.200	
520		0.000	92.200	
530		0.000	92.200	
540		0.000	92.200	
550		0.000	92.200	
560		0.000	92.200	
570		0.000	92.200	
580		0.000	92.200	
590		0.000	92.200	
600		0.000	92.200	
610		0.000	92.200	
620		0.000	92.200	
630		0.000	92.200	
640		0.000	92.200	
650		0.000	92.200	
660		0.000	92.200	
670		0.000	92.200	
680		0.000	92.200	
690		0.000	92.200	
700		0.000	92.200	
710		0.000	92.200	
720		0.000	92.200	
730		0.000	92.200	
740		0.000	92.200	
750		0.000	92.200	
760		0.000	92.200	
770		0.000	92.200	
780		0.000	92.200	
790		0.000	92.200	
800		0.000	92.200	
810		0.000	92.200	
820		0.000	92.200	
830		0.000	92.200	
840		0.000	92.200	
850		0.000	92.200	
860		0.000	92.200	
870		0.000	92.200	
880		0.000	92.200	
890		0.000	92.200	
900		0.000	92.200	
910		0.000	92.200	
920		0.000	92.200	
930		0.000	92.200	
940		0.000	92.200	
950		0.000	92.200	
960		0.000	92.200	
970		0.000	92.200	
980		0.000	92.200	
990		0.000	92.200	
1000		0.000	92.200	

REMAINING VALUES ARE ALL ZERO
 NUMBER OF OBSERVATIONS= 3170 SUM= 107079 MEAN= 33.779 VAR= 2314.615 SD= 48.11

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

6FEB78 TRIP LENGTH FREQUENCY DISTRIBUTION-MANISTEE

	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.																							0.000	0.000	
20.																							66.840	66.840	
30.																							7.652	66.492	
40.																							13.353	81.845	
50.																							6.752	88.597	
60.																							3.151	91.748	
70.																							1.125	92.873	
80.																							0.000	92.873	
90.																							2.401	95.274	
100.																							0.000	95.274	
110.																							0.300	95.574	
120.																							0.900	96.474	
130.																							0.300	96.774	
140.																							0.225	96.999	
150.																							0.000	96.999	
160.																							9.825	97.824	
170.																							0.225	98.050	
180.																							0.000	98.050	
190.																							0.075	98.125	
200.																							0.525	98.650	
210.																							0.000	98.650	
220.																							0.300	98.950	
230.																							0.000	98.950	
240.																							0.000	98.950	
250.																							0.000	98.950	
260.																							0.075	99.025	
270.																							0.000	99.025	
280.																							8.375	99.400	
290.																							0.375	99.775	
300.																							0.000	99.775	
310.																							0.000	99.775	
320.																							0.000	99.775	
330.																							0.000	99.775	
340.																							0.000	99.775	
350.																							0.075	99.850	
360.																							0.075	99.925	
370.																							0.000	99.925	
380.																							0.000	99.925	
390.																							0.000	99.925	
400.																							0.000	99.925	
410.																							0.000	99.925	
420.																							0.000	99.925	
430.																							0.000	99.925	
440.																							0.000	99.925	
450.																							0.000	99.925	
460.																							0.000	99.925	
470.																							0.000	99.925	
480.																							0.000	99.925	
490.																							0.000	99.925	
500.																							0.000	99.925	
510.																							0.000	99.925	
520.																							0.000	99.925	
530.																							0.000	99.925	
540.																							0.000	99.925	
550.																							0.000	99.925	
560.																							0.000	99.925	
570.																							0.075	100.000	
REMAINING VALUES ARE ALL ZERO																									
NUMBER OF OBSERVATIONS#	1333																								
SUM#	39862.																								
MEAN#	29.904																								
VAR#	1811.947																								
SD#	42.56																								

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

6PEB76

TRIP LENGTH FREQUENCY DISTRIBUTION-HANISTEE

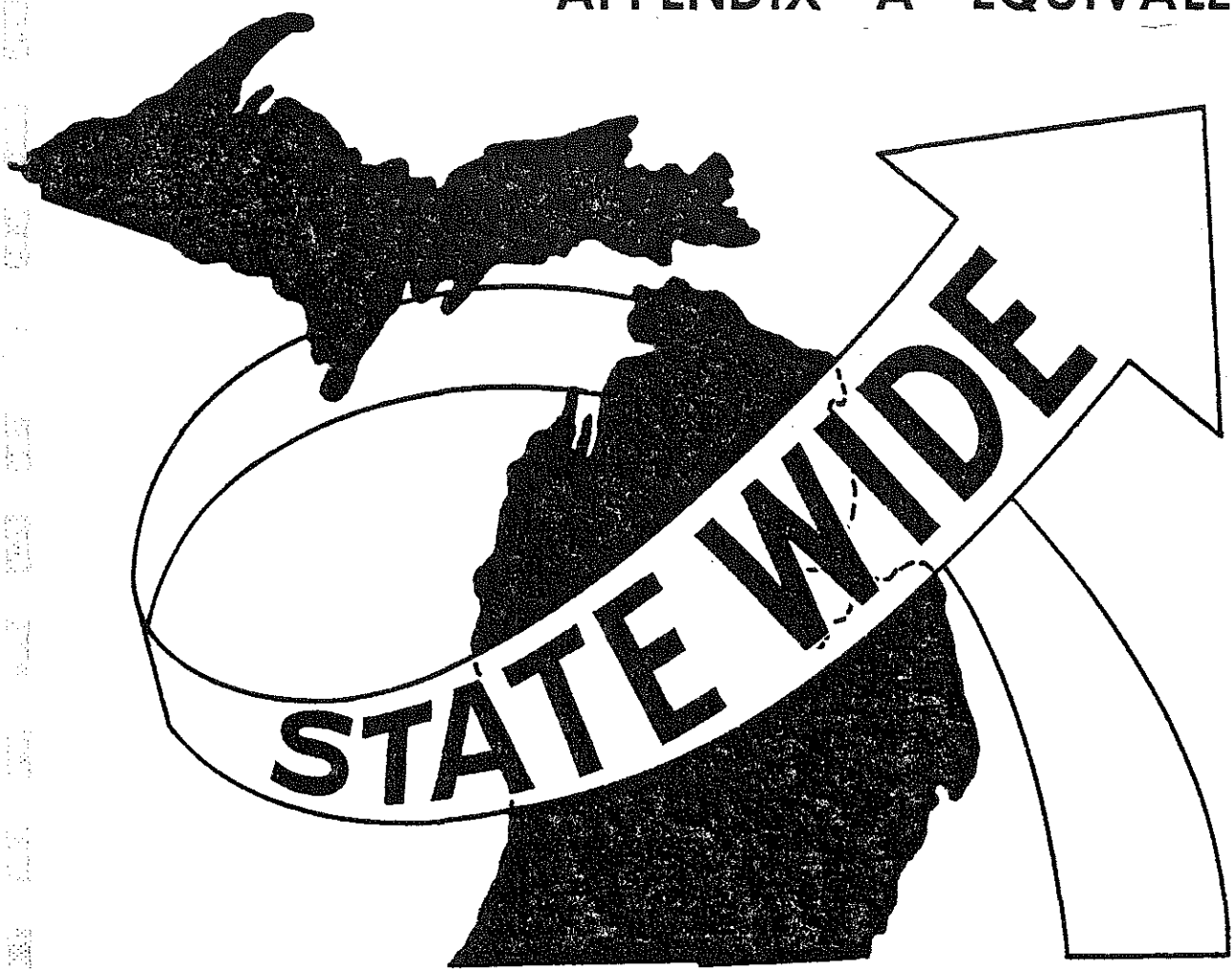
PAGE 6

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.																						0.000	0.000	
20.																						0.031	0.031	
30.																						1.214	0.065	
40.																						17.367	0.212	
50.																						7.951	0.184	
60.																						3.178	0.362	
70.																						1.432	0.774	
80.																						0.052	0.826	
90.																						2.485	0.311	
100.																						0.111	0.422	
110.																						0.268	0.690	
120.																						1.079	0.769	
130.																						0.306	0.555	
140.																						0.124	0.279	
150.																						0.268	0.547	
160.																						1.380	0.927	
170.																						0.098	0.025	
180.																						0.255	0.280	
190.																						0.065	0.345	
200.																						0.052	0.398	
210.																						0.556	0.953	
220.																						0.124	0.078	
230.																						0.438	0.516	
240.																						0.052	0.568	
250.																						0.105	0.673	
260.																						0.098	0.671	
270.																						0.098	0.669	
280.																						0.248	0.117	
290.																						0.399	0.516	
300.																						0.026	0.542	
310.																						0.052	0.595	
320.																						0.000	0.595	
330.																						0.026	0.621	
340.																						0.013	0.634	
350.																						0.124	0.758	
360.																						0.013	0.771	
370.																						0.072	0.843	
380.																						0.000	0.843	
390.																						0.000	0.843	
400.																						0.000	0.843	
410.																						0.000	0.843	
420.																						0.000	0.843	
430.																						0.013	0.856	
440.																						0.000	0.856	
450.																						0.013	0.869	
460.																						0.007	0.876	
470.																						0.026	0.902	
480.																						0.000	0.902	
490.																						0.000	0.902	
500.																						0.000	0.902	
510.																						0.000	0.902	
520.																						0.059	0.961	
530.																						0.000	0.961	
540.																						0.000	0.961	
550.																						0.000	0.961	
560.																						0.000	0.961	
570.																						0.013	0.974	
580.																						0.000	0.974	
590.																						0.007	0.980	
600.																						0.000	0.980	
610.																						0.000	0.980	
620.																						0.800	0.980	
630.																						0.000	0.980	
640.																						0.000	0.980	
650.																						0.000	0.980	
660.																						0.000	0.980	
670.																						0.000	0.980	
680.																						0.000	0.980	
690.																						0.000	0.980	
700.																						0.000	0.980	
710.																						0.000	0.980	
720.																						0.000	0.980	
730.																						0.000	0.980	
740.																						0.000	0.980	
750.																						0.020	100.000	

REMAINING VALUES ARE ALL ZERO
NUMBER OF OBSERVATIONS= 15293 SUM= 543452 MEAN= 35.536 VAR= 2855.287 SD= 49.5

TOTAL TRIPS OVER MAXP = 3
TOTAL TRIPS OVER 255 = 0
VOLUME TABLE NUMBER = 207
KIM 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, BARPY, 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, HOMESTEAD, 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 BUFFALO, 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, NORLE.
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, FREDCONIA, 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 ARCADE, 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, OSHTMO.
232	KALAMAZOO	PRAIRIE RONDF, 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	KEWEENAW	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, SAURLE.
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),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	EDELSTON.
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, FERNDALE, 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.

370 OAKLAND	HOLLY, ROSE.
371 OAKLAND	GROVELAND, SPRINGFIELD.
372 OAKLAND	BRANDON, INDEPENDENCE.
373 OAKLAND	OAKLAND, ORION.
374 OAKLAND	ADDISON, OXFORD.
375 OAKLAND	
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, CARP 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, TALLMAUGE, 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, SHERMAN.
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
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509	ONTARIO	LEAMINGTON, TILBURY, WINDSOR.
510	ONTARIO	SARNIA.
511	ONTARIO	FORT FRANCES, 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
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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, DCONTO, DUTAGAMIE, 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, SPENCE,
 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, ARKANSAS, 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.