

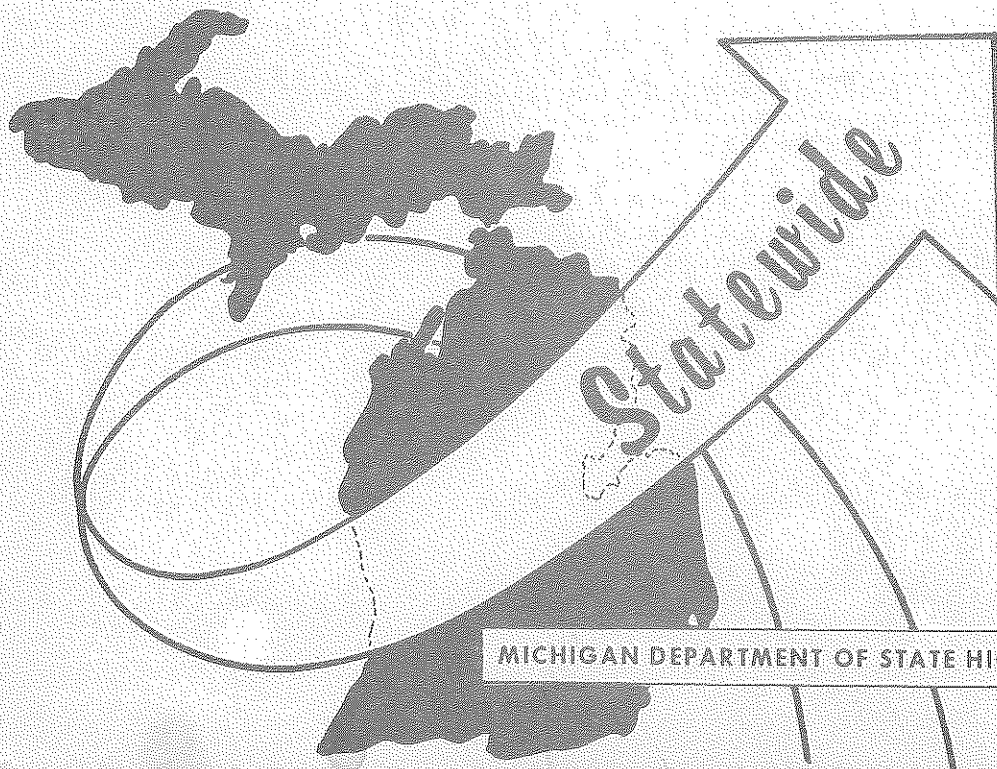
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Statewide Transportation Analysis & Research

MICHIGAN'S STATEWIDE
TRANSPORTATION MODELING SYSTEM
REFERENCE HANDBOOK NO. 3
MINOR ORIGIN & DESTINATION
TRAVEL CHARACTERISTICS
REGION 13

STATEWIDE PROCEDURES SECTION

SEPTEMBER, 1978



MICHIGAN DEPARTMENT OF STATE HIGHWAYS AND TRANSPORTATION

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HIGHWAYS AND TRANSPORTATION**

BUREAU OF TRANSPORTATION PLANNING

**MICHIGAN'S STATEWIDE
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**MINOR ORIGIN & DESTINATION
TRAVEL CHARACTERISTICS
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SEPTEMBER, 1978

STATE HIGHWAY COMMISSION

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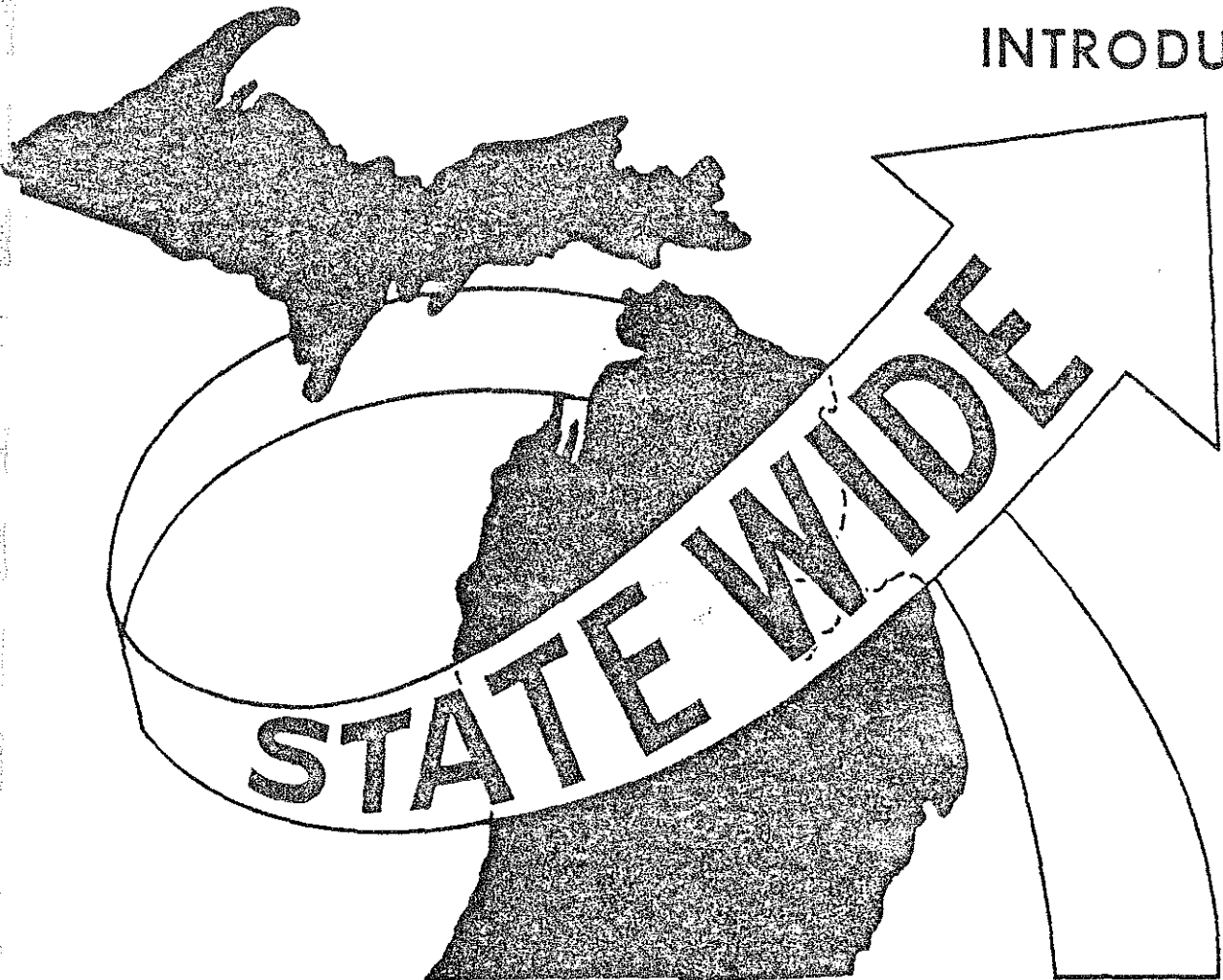
MINOR ORIGIN AND DESTINATION

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
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 VOLUME XV-A - RAILROAD FINANCIAL IMPACT ANALYSIS
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 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

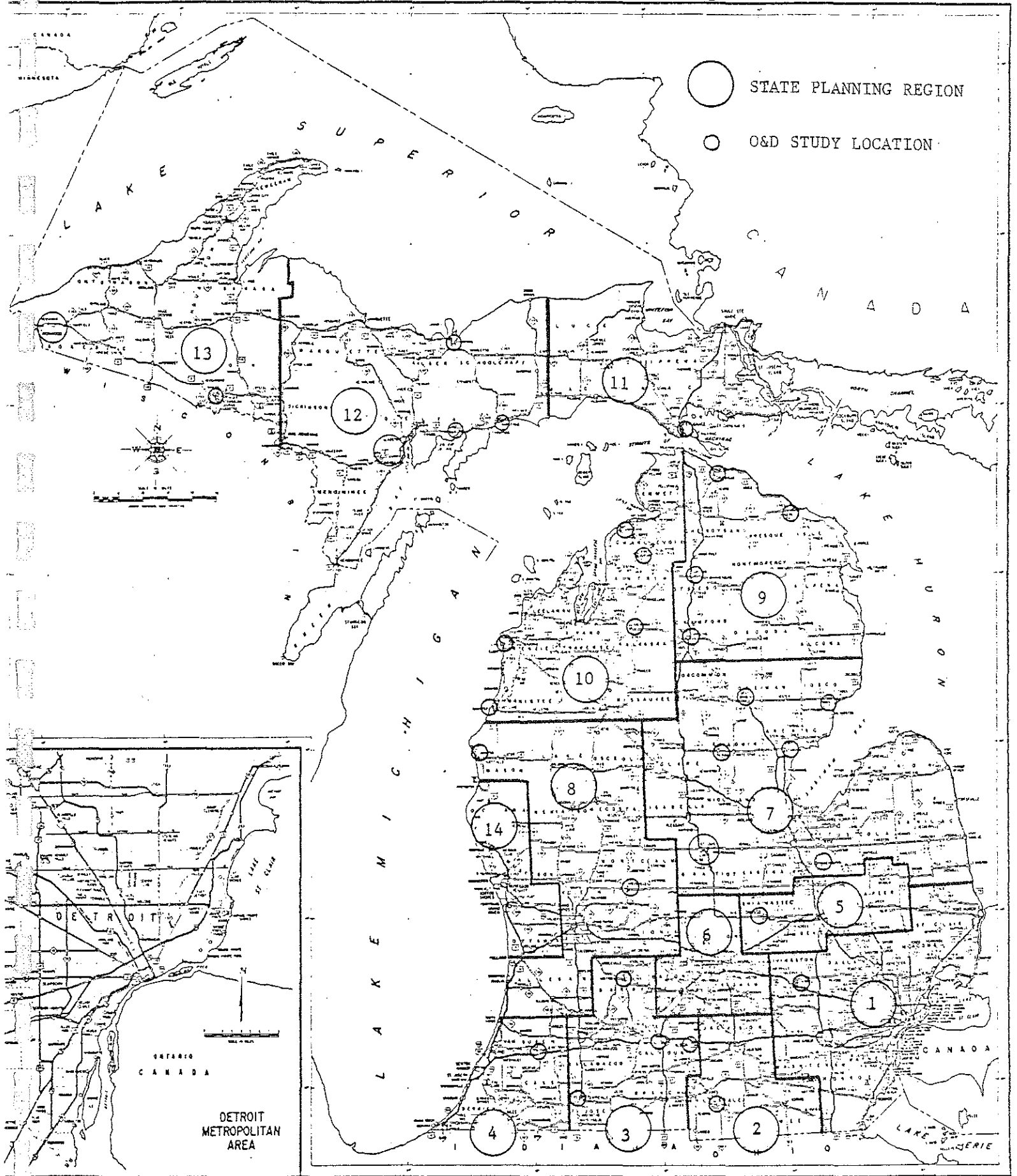
STATEWIDE SYSTEM APPLICATION REPORTS

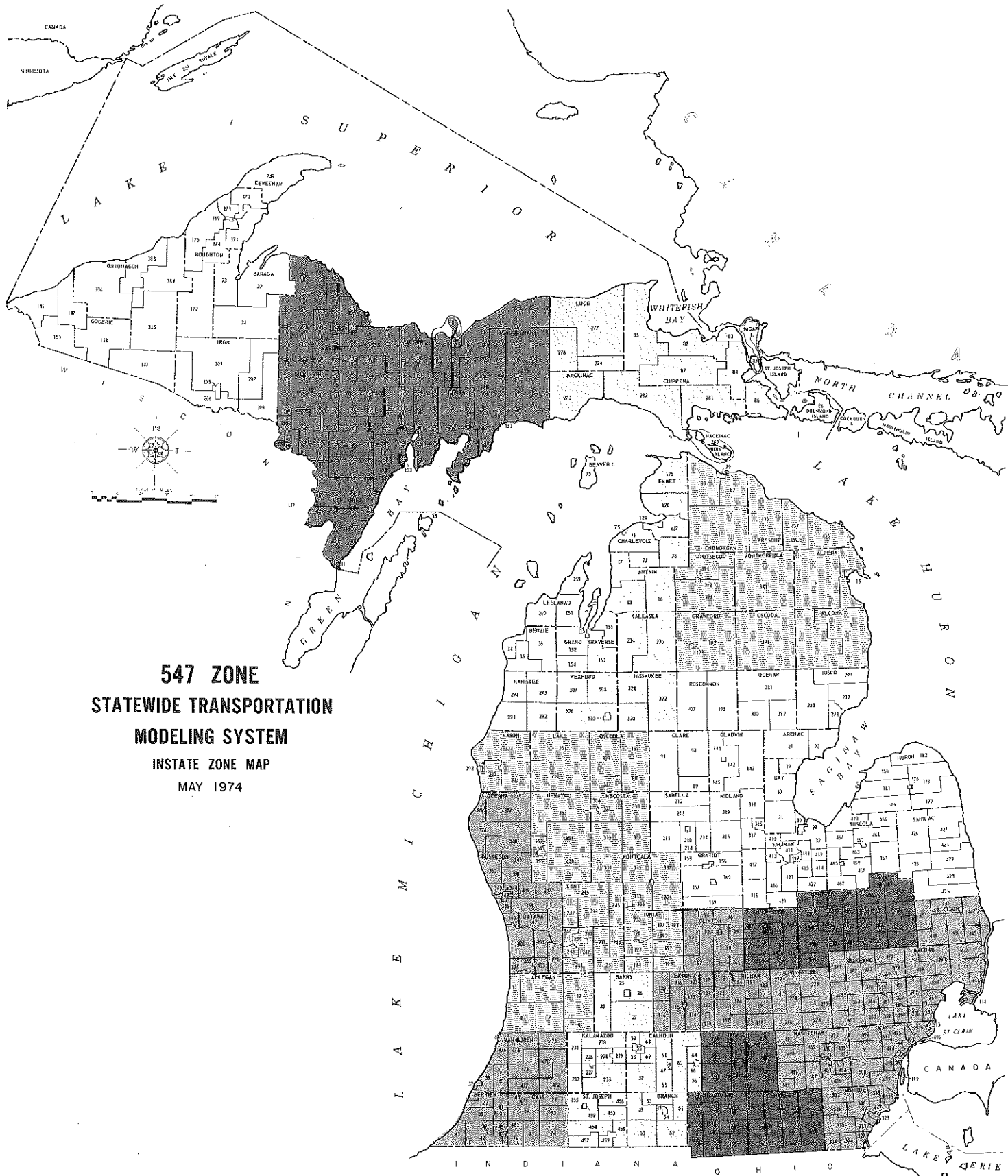
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- REFERENCE HANDBOOK #3 - MINOR ORIGIN & DESTINATION TRAVEL CHARACTERISTICS - PART A

FIGURE 1





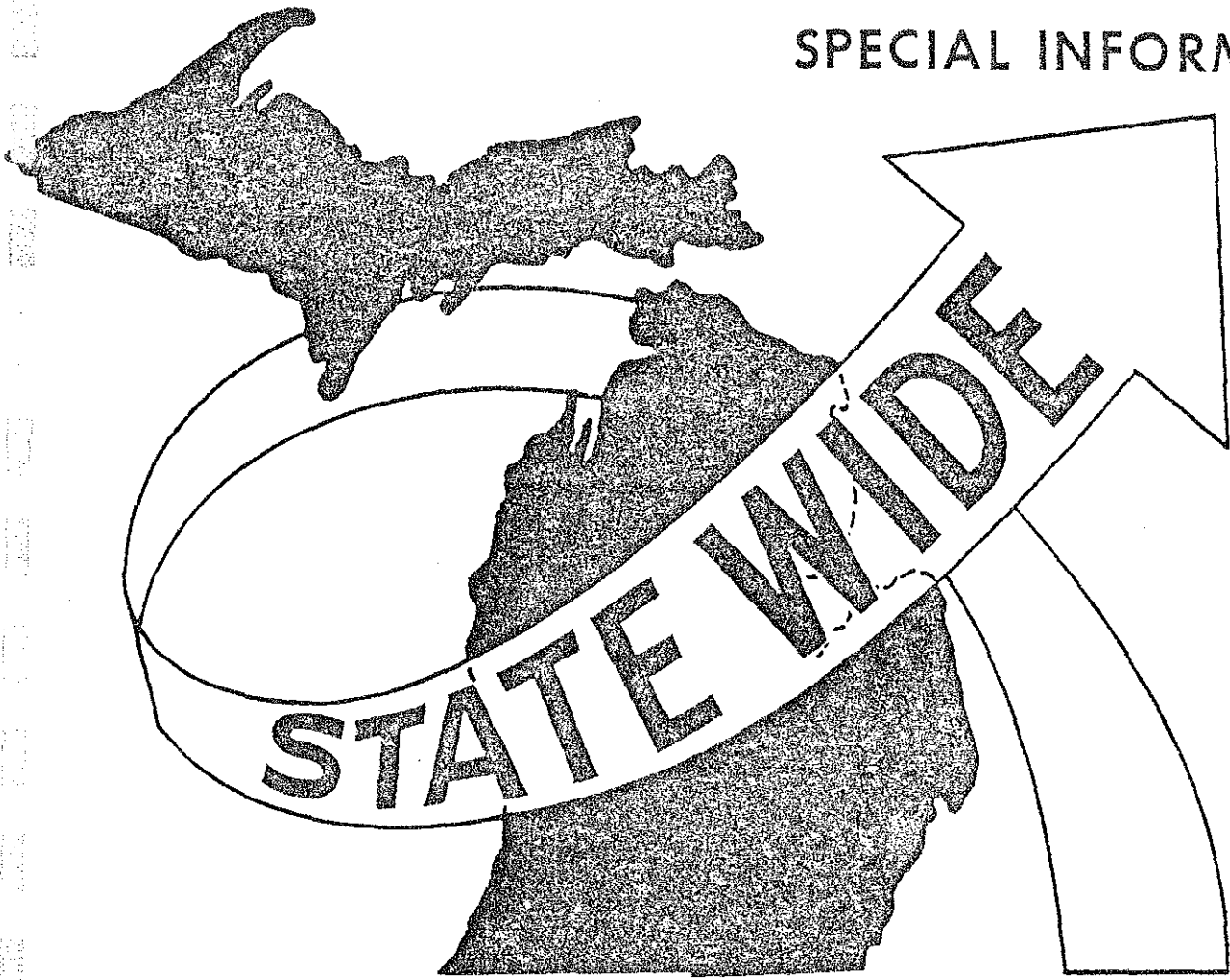
547 ZONE
STATEWIDE TRANSPORTATION
MODELING SYSTEM
INSTATE ZONE MAP
MAY 1974

MICHIGAN'S TRANSPORTATION MODELING SYSTEM

547 ZONE
OUTSTATE ANALYSIS ZONES



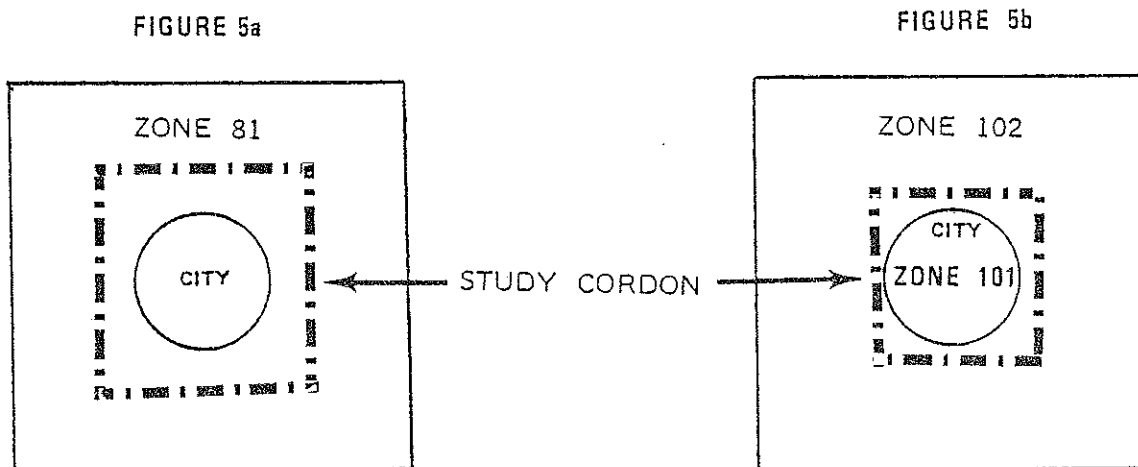
SPECIAL INFORMATION



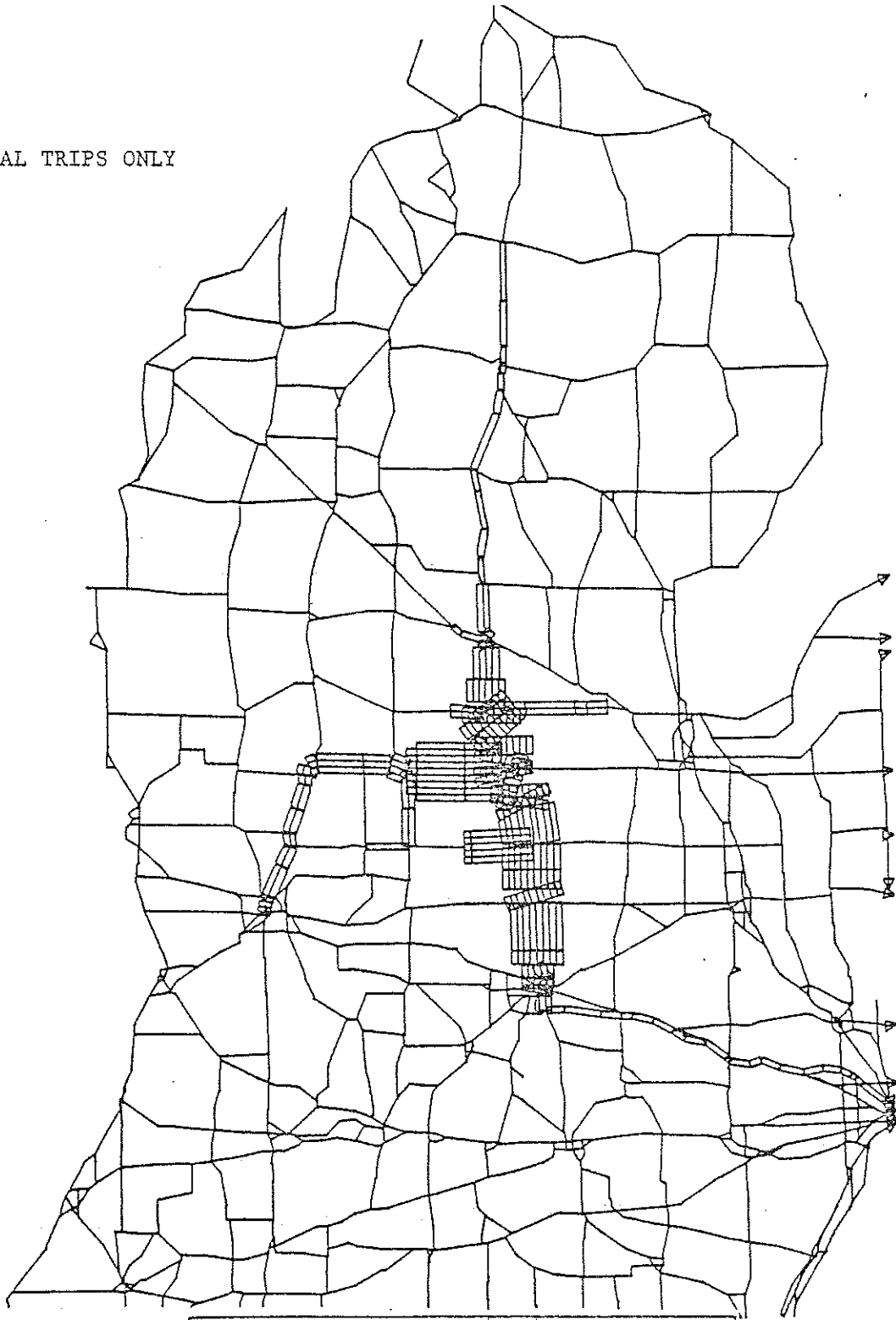
SPECIAL INFORMATION

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

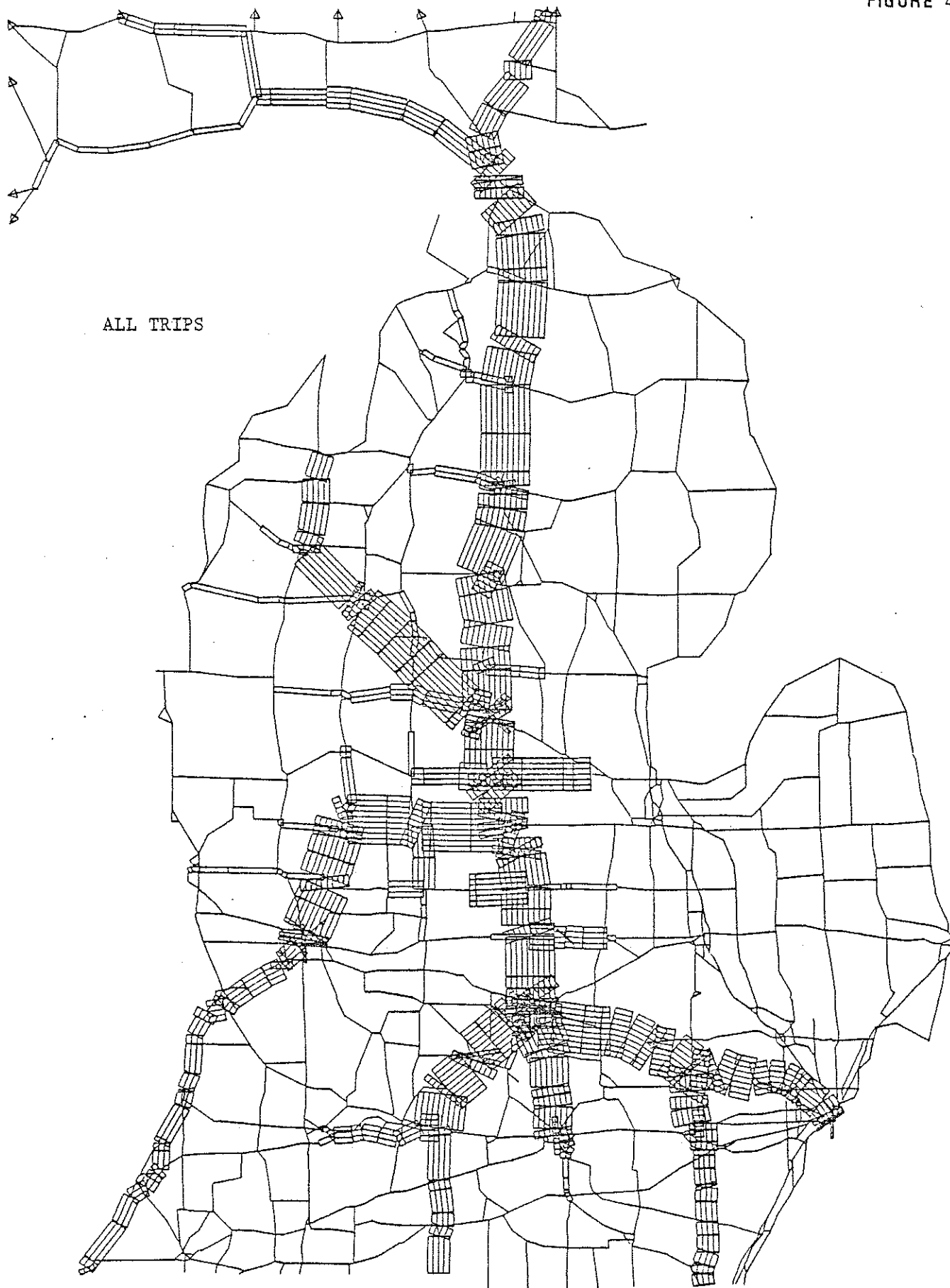
There are some instances where the O&D city is not a statewide modal zone in itself, such as in Figure 5a. Generally, this does not present a problem, but the reader should be made aware of it. The trips that go into the study city will be shown as going to the zone that surrounds the city. The ideal 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 TPLR	CAR W/ TRLR	PICK-UP W/O/TRLR	PICK-UP W/ TRLR	SINGLE-UNIT TRUCKS	COMBINATION TRUCKS
80.9%	1.0%	13.9%	0.4%	2.6%	1.3%
9533	113	1632	52	303	150

TRIP PURPOSE

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

NUMBER OF TRIPS

NUMBER IN VEHICLE

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

VEHICLE GARAGED AT

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

TOTAL TRIPS = 11783

MINOR

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

TRIP PURPOSE

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

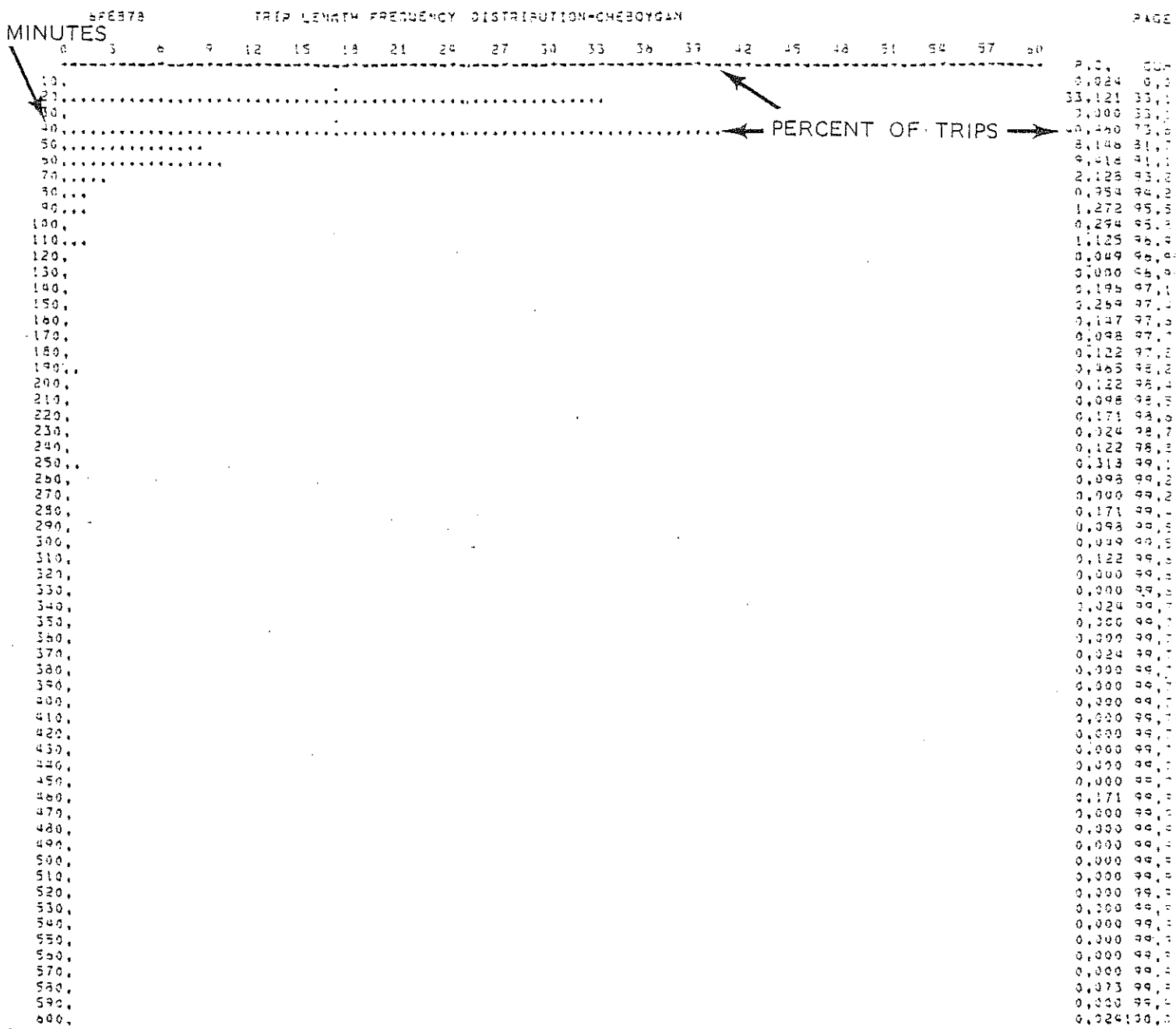
At the bottom left of the TLD, the "volume table number" designates the trip purpose:

- 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



REMAINING VALUES ARE ALL ZERO
 NUMBER OF OBSERVATIONS= 6009 SUM= 159647 MEAN= 39.053 VAR= 1534.962 SD=42.8

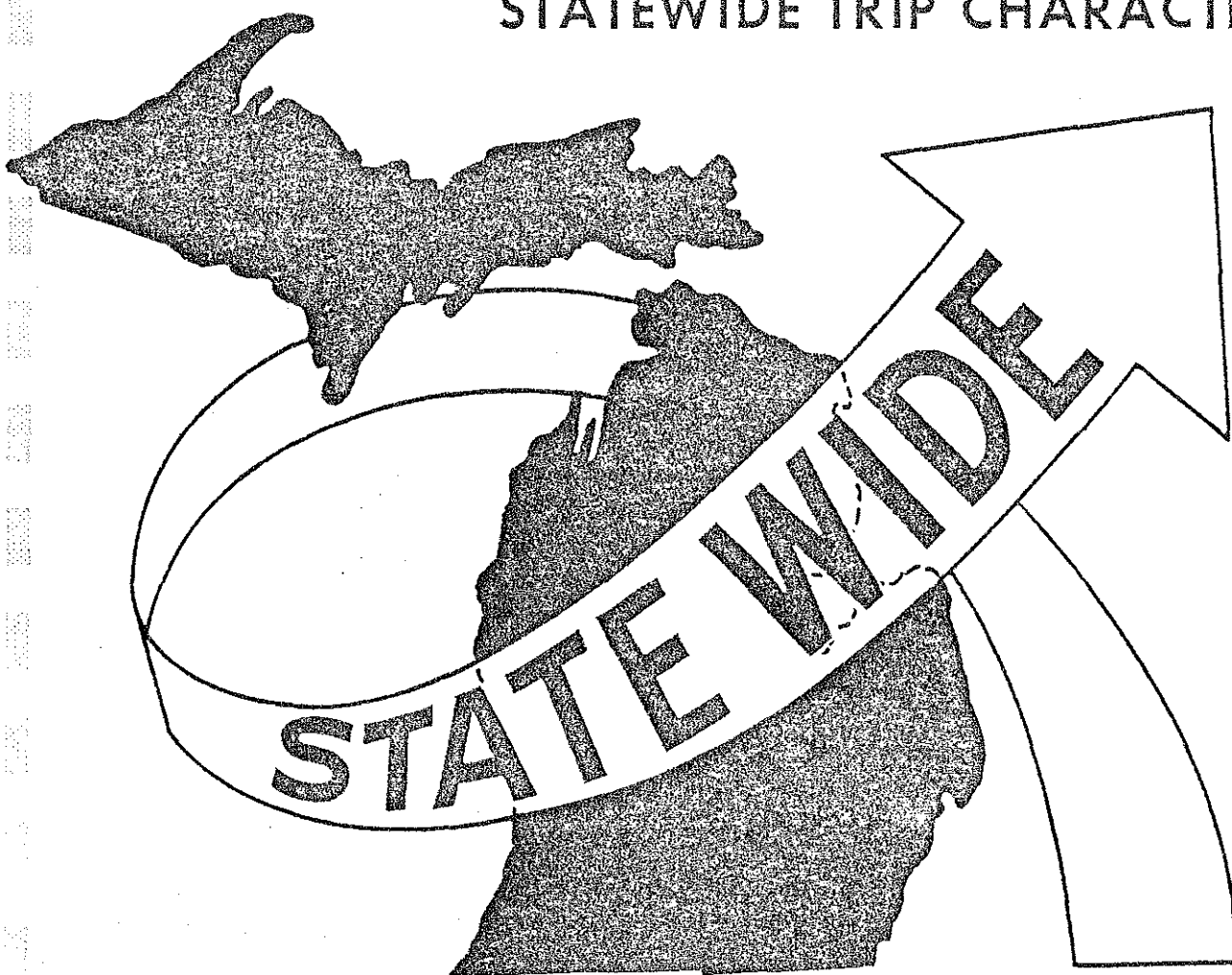
TOTAL TRIPS OVER MAXP = 0
 TOTAL TRIPS OVER 255 = 0
 VOLUME TABLE NUMBER = 201 ← WORK TRIPS
 SKIM TREE NUMBER = 101

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

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

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

STATEWIDE TRIP CHARACTERISTICS



MINOR

EXTERNAL ORIGIN-DESTINATION INTERVIEW

TERMINAL-TRIP SUMMARY TABLE

VEHICLE TYPE

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

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

MINOR

EXTERNAL ORIGIN-DESTINATION INTERVIEW

TERMINAL-TRIP SUMMARY TABLE

TRIP PURPOSE

REGION	WORK	PERS BIZ	SHOP	VACATION	SOC-REC	OTHER
1	40.7% 13537	10.7% 3573	19.1% 6350	0.7% 229	16.6% 5512	12.2% 4056
2	48.1% 10082	7.1% 1486	19.8% 4147	0.1% 22	12.1% 2540	12.9% 2702
3	46.7% 33564	7.2% 5146	18.2% 13123	0.8% 607	15.4% 11098	11.6% 8372
4	34.8% 6026	9.5% 1653	23.5% 4077	2.4% 416	16.7% 2886	13.1% 2268
5	51.9% 14847	9.3% 2662	14.5% 4160	0.2% 71	12.9% 3693	11.1% 3179
6	0.0% 0	0.0% 0	0.0% 0	0.0% 0	0.0% 0	0.0% 0
7	38.8% 29779	9.9% 7609	20.7% 15856	3.5% 2723	16.2% 12429	10.8% 8302
8	39.4% 24916	8.0% 5070	22.4% 14124	2.7% 1690	17.1% 10810	10.4% 6565
9	33.4% 18432	7.0% 3852	27.9% 15443	7.4% 4108	15.9% 8782	8.4% 4645
10	35.5% 18224	8.1% 4140	19.9% 10189	6.6% 3371	19.8% 10168	10.2% 5237
11	19.0% 2380	4.3% 536	12.3% 1536	36.1% 4516	18.8% 2354	9.6% 1200
12	32.7% 9072	8.0% 2208	22.5% 6240	7.0% 1934	21.4% 5942	8.4% 2331
13	29.5% 7520	6.9% 1762	23.7% 6047	6.9% 1754	21.4% 5452	11.5% 2933
14	0.0% 0	0.0% 0	0.0% 0	0.0% 0	0.0% 0	0.0% 0
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% 25136	23.2% 7713	8.9% 2968	4.3% 1424	1.7% 575	1.3% 440
2	64.1% 13437	24.0% 5044	7.6% 1596	2.8% 589	0.9% 183	0.6% 129
3	62.6% 45020	23.7% 17048	7.6% 5476	3.6% 2562	1.5% 1100	1.0% 703
4	56.8% 9848	25.4% 4399	9.5% 1638	5.3% 911	1.9% 337	1.1% 194
5	65.9% 18855	22.4% 6399	6.9% 1982	3.1% 882	1.0% 290	0.7% 204
6	0.0% 0	0.0% 0	0.0% 0	0.0% 0	0.0% 0	0.0% 0
7	53.8% 41250	26.0% 19974	9.8% 7530	5.8% 4455	2.5% 1906	2.1% 1582
8	53.9% 34083	26.3% 16585	9.7% 6113	5.6% 3554	2.5% 1552	2.0% 1289
9	44.4% 24536	28.7% 15864	11.3% 6246	8.2% 4551	3.8% 2094	3.6% 1971
10	50.6% 25964	27.7% 14196	10.3% 5275	6.5% 3340	2.7% 1410	2.2% 1144
11	27.5% 3445	30.5% 3815	14.1% 1767	14.3% 1785	7.0% 878	6.7% 833
12	44.9% 12450	28.8% 7980	11.7% 3244	7.6% 2115	4.0% 1118	3.0% 820
13	47.8% 12184	30.5% 7779	10.8% 2738	6.0% 1520	2.9% 728	2.0% 520
14	0.0% 0	0.0% 0	0.0% 0	0.0% 0	0.0% 0	0.0% 0
STATE	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 BTZ	SHOP	VACATION	SOC-REC	OTHER
1	79.7% 150202	49.5% 19644	38.5% 39042	6.8% 1468	35.5% 29020	42.2% 21831
2	15.1% 28469	31.1% 12354	33.7% 34147	37.9% 8123	33.0% 26925	32.4% 16777
3	3.4% 6354	10.6% 4202	14.0% 14150	17.2% 3690	13.9% 11381	13.1% 6796
4	1.2% 2215	5.3% 2107	7.7% 7821	20.3% 4353	9.3% 7575	7.0% 3617
5	0.4% 697	2.1% 844	3.5% 3544	9.5% 2036	4.3% 3495	3.0% 1554
6+	0.2% 442	1.4% 546	2.6% 2586	8.3% 1770	4.0% 3270	2.3% 1214
TOTAL	100% 188380	100% 39698	100% 101291	100% 21441	100% 81666	100% 51789

TOTAL TERMINAL-TRIPS FOR ALL STUDIES IN REGION = 484264

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

MINOR

EXTERNAL ORIGIN-DESTINATION INTERVIEW

TERMINAL-TRIP SUMMARY TABLE FOR STATE

TRIP PURPOSE

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

TOTAL TERMINAL-TRIPS FOR ALL STUDIES IN REGION = 484264

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

1MAR78 TRIP LENGTH FREQUENCY DISTRIBUTION-TOT

	P.C.	CUM.	ACTUAL
0			
2			
4			
6			
8			
10			
12			
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16			
18			
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30			
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34			
36			
38			
40			
10	17.038	17.038	31907
20	31.897	48.755	59301
30	16.406	65.161	31474
40	13.858	79.019	25578
50	7.157	86.176	15403
60	3.846	90.022	7404
70	1.946	91.968	30491
80	1.561	93.529	2926
90	1.170	94.699	2192
100	0.837	95.536	11921
110	0.906	96.442	17011
120	0.591	97.033	11071
130	0.399	97.432	7481
140	0.252	97.684	434
150	0.214	97.898	4001
160	0.372	98.270	646
170	0.140	98.410	252
180	0.140	98.550	2741
190	0.173	98.723	3241
200	0.115	98.838	2531
210	0.075	98.913	141
220	0.088	98.991	134
230	0.133	99.124	2501
240	0.075	99.200	1411
250	0.118	99.318	2591
260	0.001	99.319	1141
270	0.050	99.369	1041
280	0.029	99.398	54
290	0.059	99.457	1101
300	0.030	99.487	571
310	0.022	99.509	41
320	0.038	99.547	71
330	0.020	99.567	49
340	0.024	99.591	45
350	0.034	99.625	44
360	0.014	99.639	27
370	0.034	99.673	34
380	0.011	99.684	21
390	0.010	99.694	18
400	0.014	99.708	27
410	0.004	99.712	7
420	0.011	99.723	20
430	0.008	99.731	15
440	0.036	99.767	66
450	0.012	99.779	22
460	0.015	99.794	26
470	0.017	99.811	31
480	0.006	99.817	12
490	0.011	99.828	20
500	0.003	99.831	5
510	0.004	99.835	8
520	0.008	99.843	15
530	0.002	99.845	4
540	0.006	99.851	11
550	0.003	99.854	5
560	0.005	99.859	9
570	0.002	99.861	3
580	0.008	99.869	15
590	0.006	99.875	11
600	0.003	99.878	5
610	0.005	99.883	10
620	0.001	99.884	2
630	0.000	99.884	0
640	0.000	99.884	0
650	0.001	99.885	1
660	0.002	99.887	5
670	0.001	99.888	3
680	0.001	99.889	1
690	0.005	99.894	9
700	0.001	99.895	2
710	0.000	99.895	0
720	0.000	99.895	0
730	0.000	99.895	0
740	0.002	99.897	4
750	0.000	99.897	0
760	0.002	99.899	17

MINING VALUES ARE ALL ZERO
 NUMBER OF OBSERVATIONS* 147274 SUM* 6066433 MEAN* 32.393 VAR* 1745.297 SD* 41.780

L TRIPS OVER MAXP * 17
 L TRIPS OVER 255 * 0
 ME TABLE NUMBER * 201
 TREE NUMBER * 101

WORK TRIPS

1MART8

TRIP LENGTH FREQUENCY DISTRIBUTION-FGT

PAGE 3

TRIP LENGTH	FREQ	P.C.	CUM.	ACTUAL
0	1	19.028	19.028	749
1	1	35.341	54.369	1392
2	1	17.227	71.596	878
3	1	12.596	84.192	496
4	1	4.900	89.092	193
5	1	3.007	92.098	118
6	1	1.540	93.639	60
7	1	1.100	94.739	43
8	1	0.812	95.551	32
9	1	0.447	96.000	19
10	1	0.787	96.787	31
11	1	0.370	97.157	14
12	1	0.279	97.436	11
13	1	0.186	97.622	7
14	1	0.218	97.840	8
15	1	0.520	98.360	20
16	1	0.140	98.500	5
17	1	0.119	98.619	4
18	1	0.105	98.724	4
19	1	0.117	98.841	5
20	1	0.104	98.945	4
21	1	0.084	99.029	3
22	1	0.063	99.092	2
23	1	0.049	99.141	2
24	1	0.049	99.190	2
25	1	0.071	99.261	2
26	1	0.049	99.310	1
27	1	0.036	99.346	1
28	1	0.023	99.369	1
29	1	0.053	99.422	2
30	1	0.020	99.442	1
31	1	0.028	99.470	1
32	1	0.025	99.495	1
33	1	0.028	99.523	1
34	1	0.025	99.548	1
35	1	0.000	99.548	0
36	1	0.020	99.568	1
37	1	0.005	99.573	1
38	1	0.005	99.578	1
39	1	0.005	99.583	1
40	1	0.005	99.588	1
41	1	0.006	99.594	1
42	1	0.018	99.612	1
43	1	0.013	99.625	1
44	1	0.005	99.630	1
45	1	0.005	99.635	1
46	1	0.005	99.640	1
47	1	0.010	99.650	1
48	1	0.008	99.658	1
49	1	0.000	99.658	0
50	1	0.010	99.668	1
51	1	0.005	99.673	1
52	1	0.013	99.686	1
53	1	0.008	99.694	1
54	1	0.008	99.702	1
55	1	0.000	99.702	0
56	1	0.000	99.702	0
57	1	0.005	99.707	1
58	1	0.005	99.712	1
59	1	0.005	99.717	1
60	1	0.006	99.723	1
61	1	0.001	99.724	1
62	1	0.005	99.729	1
63	1	0.005	99.734	1
64	1	0.006	99.740	1
65	1	0.010	99.750	1
66	1	0.005	99.755	1
67	1	0.000	99.755	0
68	1	0.015	99.770	1
69	1	0.003	99.773	1
70	1	0.008	99.781	1
71	1	0.005	99.786	1
72	1	0.005	99.791	1
73	1	0.000	99.791	0
74	1	0.000	99.791	0
75	1	0.000	99.791	0
76	1	0.000	99.791	0
77	1	0.000	99.791	0
78	1	0.000	99.791	0
79	1	0.000	99.791	0
80	1	0.000	99.791	0
81	1	0.000	99.791	0
82	1	0.000	99.791	0
83	1	0.000	99.791	0
84	1	0.000	99.791	0
85	1	0.000	99.791	0
86	1	0.000	99.791	0
87	1	0.000	99.791	0
88	1	0.000	99.791	0
89	1	0.000	99.791	0
90	1	0.000	99.791	0
91	1	0.000	99.791	0
92	1	0.000	99.791	0
93	1	0.000	99.791	0
94	1	0.000	99.791	0
95	1	0.000	99.791	0
96	1	0.000	99.791	0
97	1	0.000	99.791	0
98	1	0.000	99.791	0
99	1	0.000	99.791	0
100	1	0.005100	100.000	1

MINING VALUES ARE ALL ZERO
 NUMBER OF OBSERVATIONS* 30410 SUM* 1105781 MEAN* 29.581 VAR* 1678.346 SD* 40.968

L TRIPS OVER MAXP * 2
 L TRIPS OVER 255 * 0
 TIME TABLE NUMBER * 302
 TREE NUMBER * 101

PERS. BUSINESS TRIPS

INWARTS TRIP LENGTH FREQUENCY DISTRIBUTION-TOT		PAGE 4																			
0	2	4	6	8	10	12	14	16	18	20	22	24	26	28	30	32	34	36	38	40	
10																					
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970																					
980																					
990																					
1000																					

MISSING VALUES ARE ALL ZERO
 NUMBER OF OBSERVATIONS 100039 SUM 2816970 MEAN 27.992 VAR 1603.356 SD 40.042
 L TRIPS OVER MAXP * 0
 L TRIPS OVER 250 * 0
 MC TABLE NUMBER * 203
 TREE NUMBER * 101

SHOPPING TRIPS

LNAR78 TRIP LENGTH FREQUENCY DISTRIBUTION-TOT

TRIP LENGTH	FREQ	P.C.	CUM.	ACTUAL
0				
10		5.863	5.863	119
20		6.715	12.578	142
30		5.542	18.120	117
40		12.187	30.307	255
50		3.542	33.849	70
60		7.838	41.687	160
70		2.565	44.252	53
80		5.507	49.759	115
90		4.105	53.864	86
100		1.818	55.682	38
110		1.280	56.962	26
120		1.778	58.740	36
130		2.207	60.947	41
140		1.754	62.701	35
150		0.862	63.563	17
160		2.532	66.095	53
170		1.440	67.535	30
180		1.411	68.946	29
190		1.874	70.820	39
200		1.383	72.203	29
210		1.545	73.748	32
220		0.858	74.606	18
230		1.528	76.134	32
240		1.235	77.369	25
250		1.210	78.579	25
260		1.769	80.348	37
270		1.492	81.840	31
280		0.987	82.827	20
290		0.853	83.680	17
300		1.125	84.805	23
310		0.968	85.773	20
320		0.806	86.579	16
330		1.097	87.676	22
340		0.234	87.910	4
350		0.462	88.372	9
360		0.313	88.685	6
370		0.420	89.105	8
380		0.277	89.382	5
390		0.319	89.701	6
400		0.290	89.991	6
410		0.267	90.258	5
420		0.466	90.724	10
430		0.305	91.029	6
440		1.025	92.054	21
450		0.267	92.321	5
460		0.191	92.512	4
470		0.343	92.855	7
480		0.324	93.179	6
490		0.200	93.379	4
500		0.170	93.549	3
510		0.234	93.783	4
520		1.391	95.174	28
530		0.038	95.212	1
540		0.391	95.603	8
550		0.180	95.783	3
560		0.138	95.921	2
570		0.143	96.064	3
580		0.033	96.097	1
590		0.130	96.227	2
600		0.024	96.251	1
610		0.243	96.494	5
620		0.045	96.539	2
630		0.091	96.630	1
640		0.028	96.658	1
650		0.024	96.682	1
660		0.010	96.692	1
670		0.200	96.892	4
680		0.010	96.902	1
690		0.119	97.021	2
700		0.057	97.078	1
710		0.010	97.088	1
720		0.029	97.117	1
730		0.057	97.174	1
740		0.057	97.231	1
750		0.415	97.646	8

MINIMUM VALUES ARE ALL ZERO
 NUMBER OF OBSERVATIONS: 21975 SUM = 2821726 MEAN = 128.528 VAR = 20258.672 SD = 142.333

L TRIPS OVER MAXP 3 87
 L TRIPS OVER 255 3 0
 ME TABLE NUMBER 3 204
 TREE NUMBER 3 101

VACATION TRIPS

1MART8 TRIP LENGTH FREQUENCY DISTRIBUTION-TOT

	1	2	4	6	8	10	12	14	16	18	20	22	24	26	28	30	32	34	36	40	P.C.	CUM.	ACTUAL	
10																						17.917	17.917	10446
20																						34.385	52.301	27920
30																						15.558	67.860	12588
40																						10.738	78.598	4688
50																						4.744	83.342	3838
60																						3.420	86.762	2767
70																						1.067	88.429	1349
80																						1.006	90.034	1299
90																						1.175	91.210	951
100																						0.735	91.945	595
110																						1.849	93.594	1330
120																						0.787	94.381	637
130																						0.000	95.047	539
140																						0.426	95.475	346
150																						0.377	95.852	305
160																						0.492	96.344	308
170																						0.264	96.608	214
180																						0.240	96.848	194
190																						0.374	97.223	303
200																						0.292	97.514	230
210																						0.197	97.711	159
220																						0.130	97.841	105
230																						0.251	98.092	203
240																						0.159	98.251	129
250																						0.187	98.438	151
260																						0.185	98.623	150
270																						0.137	98.760	111
280																						0.053	98.813	43
290																						0.125	98.938	101
300																						0.091	99.030	74
310																						0.087	99.116	70
320																						0.061	99.177	49
330																						0.069	99.246	56
340																						0.016	99.262	13
350																						0.044	99.307	36
360																						0.017	99.324	14
370																						0.052	99.376	42
380																						0.027	99.403	22
390																						0.028	99.431	23
400																						0.025	99.456	20
410																						0.007	99.464	8
420																						0.047	99.511	38
430																						0.025	99.535	25
440																						0.080	99.616	65
450																						0.023	99.639	19
460																						0.015	99.654	12
470																						0.002	99.656	34
480																						0.022	99.718	16
490																						0.019	99.737	15
500																						0.026	99.783	21
510																						0.041	99.801	31
520																						0.016	99.820	13
530																						0.002	99.822	8
540																						0.026	99.849	21
550																						0.021	99.869	17
560																						0.009	99.878	7
570																						0.010	99.888	6
580																						0.004	99.891	3
590																						0.004	99.895	3
600																						0.010	99.905	6
610																						0.009	99.913	7
620																						0.004	99.917	3
630																						0.010	99.927	7
640																						0.006	99.933	5
650																						0.026	99.959	21
660																						0.000	99.959	0
670																						0.007	99.967	5
680																						0.001	99.968	1
690																						0.000	99.968	0
700																						0.000	99.968	0
710																						0.001	99.969	1
720																						0.002	99.972	2
730																						0.000	99.972	0
740																						0.005	99.977	5
750																						0.023100	0.000	10

ENDING VALUES ARE ALL ZERO
 ER OF OBSERVATIONS* 81904 SUM* 1028356. MEAN* 17.430 VAR* 3367.270 SD* 58.028

L TRIPS OVER 445P * 19
 L TRIPS OVER 265 * 0
 ME TABLE NUMBER * 205
 TREE NUMBER * 101

OTHER SOC. OR REC. TRIPS

TRIP LENGTH FREQUENCY DISTRIBUTION-TOT

TRIP LENGTH	FREQUENCY	P.C.	CUM.	ACTUAL
0	20	20.480	20.480	1050
2	35	35.123	55.603	1803
4	15	15.974	71.577	820
6	11	11.242	82.819	577
8	5	5.050	87.869	259
10	2	2.207	90.076	144
12	1	1.113	91.189	81
14	1	1.190	92.379	43
16	1	0.843	93.222	26
18	1	0.510	93.732	14
20	1	0.795	94.527	9
22	1	0.871	95.398	4
24	1	0.547	95.945	2
26	1	0.251	96.196	1
28	1	0.259	96.455	1
30	1	0.545	97.000	1
32	1	0.148	97.148	1
34	1	0.179	97.327	1
36	1	0.208	97.535	1
38	1	0.105	97.640	1
40	1	0.105	97.745	1
42	1	0.082	97.827	1
44	1	0.150	97.977	1
46	1	0.107	98.084	1
48	1	0.175	98.259	1
50	1	0.109	98.368	1
52	1	0.105	98.473	1
54	1	0.047	98.520	1
56	1	0.082	98.602	1
58	1	0.045	98.647	1
60	1	0.027	98.674	1
62	1	0.029	98.703	1
64	1	0.058	98.761	1
66	1	0.019	98.780	1
68	1	0.025	98.805	1
70	1	0.014	98.819	1
72	1	0.031	98.850	1
74	1	0.019	98.869	1
76	1	0.010	98.879	1
78	1	0.014	98.893	1
80	1	0.016	98.909	1
82	1	0.019	98.928	1
84	1	0.021	98.949	1
86	1	0.039	98.988	1
88	1	0.012	99.000	1
90	1	0.008	99.008	1
92	1	0.021	99.029	1
94	1	0.019	99.048	1
96	1	0.012	99.060	1
98	1	0.014	99.074	1
100	1	0.018	99.092	1
102	1	0.008	99.100	1
104	1	0.008	99.108	1
106	1	0.008	99.116	1
108	1	0.008	99.124	1
110	1	0.008	99.132	1
112	1	0.008	99.140	1
114	1	0.008	99.148	1
116	1	0.008	99.156	1
118	1	0.008	99.164	1
120	1	0.008	99.172	1
122	1	0.008	99.180	1
124	1	0.008	99.188	1
126	1	0.008	99.196	1
128	1	0.008	99.204	1
130	1	0.008	99.212	1
132	1	0.008	99.220	1
134	1	0.008	99.228	1
136	1	0.008	99.236	1
138	1	0.008	99.244	1
140	1	0.008	99.252	1
142	1	0.008	99.260	1
144	1	0.008	99.268	1
146	1	0.008	99.276	1
148	1	0.008	99.284	1
150	1	0.008	99.292	1
152	1	0.008	99.300	1
154	1	0.008	99.308	1
156	1	0.008	99.316	1
158	1	0.008	99.324	1
160	1	0.008	99.332	1
162	1	0.008	99.340	1
164	1	0.008	99.348	1
166	1	0.008	99.356	1
168	1	0.008	99.364	1
170	1	0.008	99.372	1
172	1	0.008	99.380	1
174	1	0.008	99.388	1
176	1	0.008	99.396	1
178	1	0.008	99.404	1
180	1	0.008	99.412	1
182	1	0.008	99.420	1
184	1	0.008	99.428	1
186	1	0.008	99.436	1
188	1	0.008	99.444	1
190	1	0.008	99.452	1
192	1	0.008	99.460	1
194	1	0.008	99.468	1
196	1	0.008	99.476	1
198	1	0.008	99.484	1
200	1	0.008	99.492	1
202	1	0.008	99.500	1
204	1	0.008	99.508	1
206	1	0.008	99.516	1
208	1	0.008	99.524	1
210	1	0.008	99.532	1
212	1	0.008	99.540	1
214	1	0.008	99.548	1
216	1	0.008	99.556	1
218	1	0.008	99.564	1
220	1	0.008	99.572	1
222	1	0.008	99.580	1
224	1	0.008	99.588	1
226	1	0.008	99.596	1
228	1	0.008	99.604	1
230	1	0.008	99.612	1
232	1	0.008	99.620	1
234	1	0.008	99.628	1
236	1	0.008	99.636	1
238	1	0.008	99.644	1
240	1	0.008	99.652	1
242	1	0.008	99.660	1
244	1	0.008	99.668	1
246	1	0.008	99.676	1
248	1	0.008	99.684	1
250	1	0.008	99.692	1
252	1	0.008	99.700	1
254	1	0.008	99.708	1
256	1	0.008	99.716	1
258	1	0.008	99.724	1
260	1	0.008	99.732	1
262	1	0.008	99.740	1
264	1	0.008	99.748	1
266	1	0.008	99.756	1
268	1	0.008	99.764	1
270	1	0.008	99.772	1
272	1	0.008	99.780	1
274	1	0.008	99.788	1
276	1	0.008	99.796	1
278	1	0.008	99.804	1
280	1	0.008	99.812	1
282	1	0.008	99.820	1
284	1	0.008	99.828	1
286	1	0.008	99.836	1
288	1	0.008	99.844	1
290	1	0.008	99.852	1
292	1	0.008	99.860	1
294	1	0.008	99.868	1
296	1	0.008	99.876	1
298	1	0.008	99.884	1
300	1	0.008	99.892	1
302	1	0.008	99.900	1
304	1	0.008	99.908	1
306	1	0.008	99.916	1
308	1	0.008	99.924	1
310	1	0.008	99.932	1
312	1	0.008	99.940	1
314	1	0.008	99.948	1
316	1	0.008	99.956	1
318	1	0.008	99.964	1
320	1	0.008	99.972	1
322	1	0.008	99.980	1
324	1	0.008	99.988	1
326	1	0.008	99.996	1
328	1	0.008	100.000	1

INING VALUES ARE ALL ZERO
 EP OF OBSERVATIONS# 51345 SUM# 1022116 MEAN# 31.592 VAR# 2262.102 SD# 47.502

L TRIPS OVER 442P * 3
 L TRIPS OVER 255 * 0
 ME TABLE NUMBER * 206
 I TRIP NUMBER * 101

ALL OTHER TRIPS

IMAR78 TRIP LENGTH FREQUENCY DISTRIBUTION-TOT

	0	2	4	6	8	10	12	14	16	18	20	22	24	26	28	30	32	34	36	38	40	P.C.	CUM.	ACTUAL
10																						18.026	18.026	56621
20																						33.044	51.073	156793
30																						15.773	66.846	75798
40																						12.458	79.304	59668
50																						5.061	84.365	27302
60																						3.470	87.835	16674
70																						1.813	90.048	77501
80																						1.563	91.611	75121
90																						1.100	92.711	5315
100																						0.602	93.313	28911
110																						1.105	94.418	53081
120																						0.224	95.042	3000
130																						0.504	95.546	2424
140																						0.326	95.872	1567
150																						0.244	96.116	1173
160																						0.481	96.597	23101
170																						0.202	96.799	972
180																						0.214	97.013	1029
190																						0.256	97.269	1573
200																						0.207	97.476	944
210																						0.170	97.646	515
220																						0.114	97.760	548
230																						0.220	97.980	1057
240																						0.148	98.128	702
250																						0.182	98.310	576
260																						0.192	98.502	921
270																						0.144	98.646	642
280																						0.081	98.727	391
290																						0.097	98.824	464
300																						0.102	98.926	496
310																						0.081	99.007	399
320																						0.070	99.077	337
330																						0.087	99.164	417
340																						0.029	99.193	132
350																						0.046	99.239	233
360																						0.026	99.265	126
370																						0.054	99.319	260
380																						0.025	99.344	118
390																						0.029	99.373	137
400																						0.027	99.400	124
410																						0.017	99.417	60
420																						0.039	99.456	139
430																						0.026	99.482	123
440																						0.042	99.524	193
450																						0.026	99.550	123
460																						0.022	99.572	105
470																						0.033	99.605	157
480																						0.024	99.629	114
490																						0.019	99.648	91
500																						0.019	99.667	69
510																						0.021	99.688	102
520																						0.027	99.715	124
530																						0.006	99.721	26
540																						0.025	99.736	122
550																						0.015	99.751	72
560																						0.010	99.761	48
570																						0.010	99.771	48
580																						0.007	99.778	33
590																						0.008	99.786	39
600																						0.005	99.791	23
610																						0.015	99.806	74
620																						0.007	99.813	55
630																						0.006	99.819	31
640																						0.002	99.821	12
650																						0.006	99.827	38
660																						0.001	99.828	7
670																						0.013	99.841	63
680																						0.002	99.843	9
690																						0.008	99.851	40
700																						0.005	99.856	22
710																						0.001	99.857	3
720																						0.002	99.859	10
730																						0.003	99.862	16
740																						0.004	99.866	21
750																						0.028100	0.002	134

MISSING VALUES ARE ALL ZERO
 NO. OF OBSERVATIONS = 484547 SUM = 17521382 MEAN = 36.481 VAR = 3294.507 SD = 57.396
 L TRIPS OVER MAX = 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	

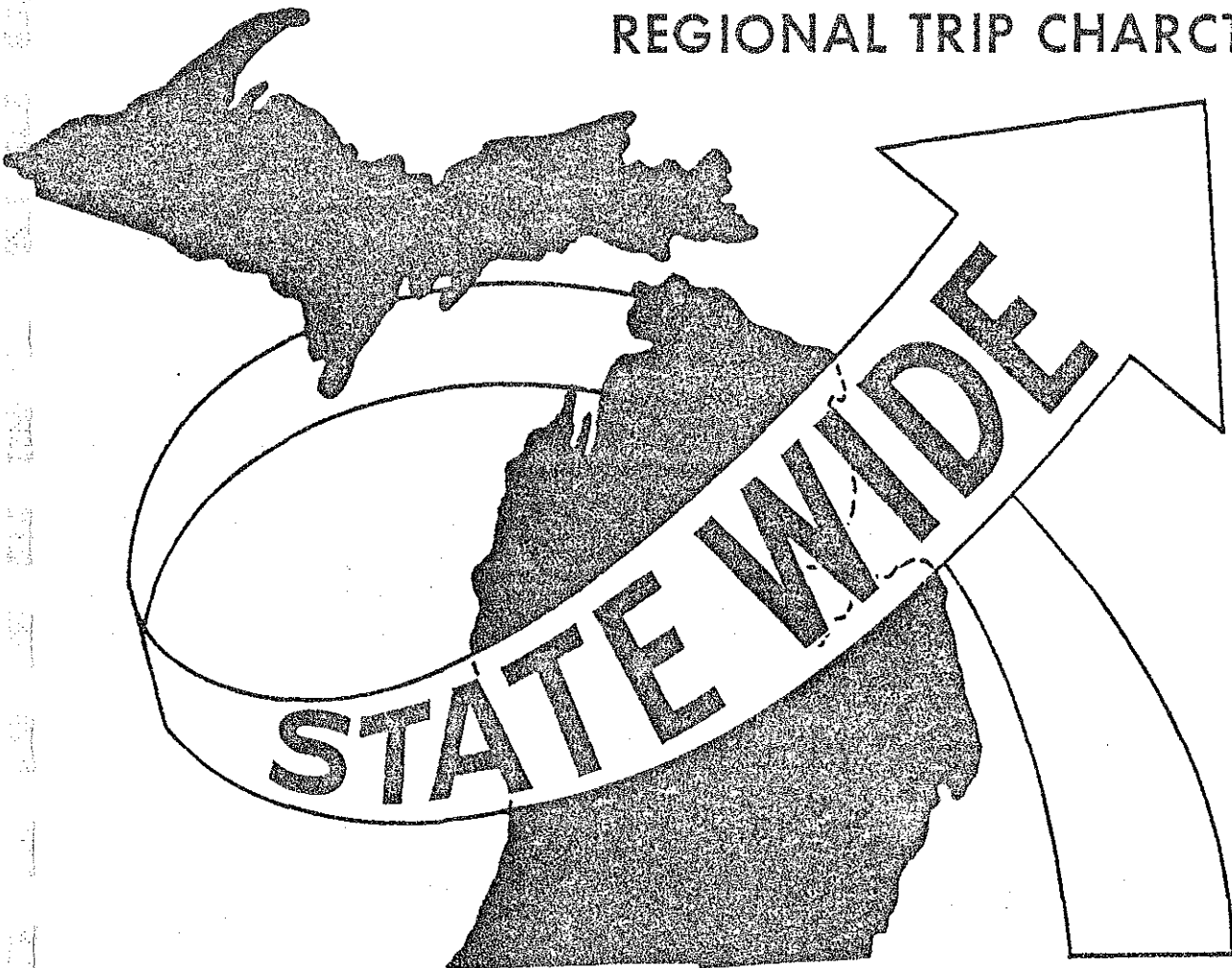
REGION 11

<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	

REGIONAL TRIP CHARACTERISTICS



REGION 13

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
76.1%	1.1%	17.3%	0.4%	3.8%	1.4%
19369	278	4399	114	960	348

TRIP PURPOSE

WORK	PERS BIZ	SHOP	VACATION	SOC-REC	OTHER
29.5%	6.9%	23.7%	6.9%	21.4%	11.5%
7520	1762	6047	1754	5452	2933

NUMBER IN VEHICLE

1	2	3	4	5	6+
47.8%	30.5%	10.8%	6.0%	2.9%	2.0%
12184	7779	2738	1520	728	520

VEHICLE GARAGED AT

ORIGIN	DESTIN	OTHER
38.9%	33.4%	27.7%
9902	8504	7063

TOTAL TRIPS = 25469

MINOR

EXTERNAL ORIGIN-DESTINATION INTERVIEW
 TERMINAL-TRIP SUMMARY TABLE FOR REGION 13

TRIP PURPOSE

# IN VEH.	WORK	PERS BIZ	SHOP	VACATION	SOC-REC	OTHER
1	74.6% 5610	53.2% 938	41.3% 2498	8.0% 140	34.5% 1883	38.0% 1115
2	18.5% 1390	29.5% 521	35.4% 2141	38.4% 673	36.7% 2003	35.8% 1051
3	4.2% 318	10.1% 177	12.8% 774	17.4% 306	13.6% 744	14.3% 420
4	1.8% 132	4.3% 75	5.9% 354	19.2% 337	8.2% 447	6.0% 175
5	0.5% 36	2.1% 36	2.9% 176	9.1% 160	4.1% 224	3.2% 94
6+	0.4% 33	0.9% 15	1.7% 104	7.9% 138	2.8% 151	2.7% 78
TOTAL	100% 7520	100% 1762	100% 6047	100% 1754	100% 5452	100% 2933

TOTAL TERMINAL-TRIPS FOR ALL STUDIES IN REGION = 25469

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 13

TRIP PURPOSE

VEH TYPE	WORK	PERS BIZ	SHOP	VACATION	SOC-REC	OTHER
CAR W/O TRLR	56.4% 4240	78.6% 1385	84.8% 5128	81.4% 1428	86.0% 4688	85.2% 2500
CAR W/ TRLR	0.4% 27	0.9% 16	0.4% 26	7.2% 126	1.2% 66	0.6% 18
PICK-UP W/O/TRLR	26.9% 2022	19.2% 338	14.4% 869	7.3% 129	12.0% 655	13.2% 387
PICK-UP W/ TRLR	0.5% 34	0.6% 11	0.2% 9	1.2% 22	0.5% 27	0.4% 11
SINGLE-UNIT TRUCKS	11.4% 859	0.7% 12	0.2% 14	2.6% 46	0.3% 15	0.5% 13
COMBINATION TRUCKS	4.5% 338	0.0% 0	0.0% 2	0.2% 3	0.0% 1	0.1% 4
TOTAL	100% 7520	100% 1762	100% 6047	100% 1754	100% 5452	100% 2933

TOTAL TERMINAL-TRIPS FOR ALL STUDIES IN REGION = 25469

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.

Z7FE878

TRIP LENGTH FREQUENCY DISTRIBUTION(REG1)

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.																					0.253	0.253	4	
20.																						58.881	59.134	1
30.																						10.905	69.340	2
40.																						5.273	75.113	3
50.																						3.915	79.028	4
60.																						1.332	80.360	5
70.																						4.124	84.484	6
80.																						4.084	88.568	7
90.																						1.289	91.364	8
100.																						0.346	92.210	9
110.																						0.253	92.463	10
120.																						0.679	93.142	11
130.																						0.719	93.861	12
140.																						0.586	94.247	13
150.																						0.479	94.727	14
160.																						0.346	95.073	15
170.																						0.107	95.180	16
180.																						0.213	95.393	17
190.																						0.124	95.517	18
200.																						0.173	95.690	19
210.																						0.133	95.823	20
220.																						0.599	96.422	21
230.																						0.479	96.901	22
240.																						0.186	97.087	23
250.																						0.313	97.400	24
260.																						0.000	97.400	25
270.																						0.692	97.792	26
280.																						0.000	97.792	27
290.																						0.313	98.105	28
300.																						0.000	98.105	29
310.																						0.000	98.105	30
320.																						0.367	98.472	31
330.																						0.000	98.472	32
340.																						0.000	98.472	33
350.																						0.133	98.605	34
360.																						0.000	98.605	35
370.																						0.133	98.738	36
380.																						0.200	98.938	37
390.																						0.053	99.141	38
400.																						0.027	99.168	39
410.																						0.000	99.168	40
420.																						0.040	99.208	41
430.																						0.053	99.261	42
440.																						0.000	99.261	43
450.																						0.000	99.261	44
460.																						0.353	99.614	45
470.																						0.333	99.667	46
480.																						0.053	99.720	47
490.																						0.000	99.720	48
500.																						0.000	99.720	49
510.																						0.000	99.720	50
520.																						0.000	99.720	51
530.																						0.000	99.720	52
540.																						0.000	99.720	53
550.																						0.000	99.720	54
560.																						0.000	99.720	55
570.																						0.040	99.760	56
580.																						0.000	99.760	57
590.																						0.020	99.780	58
600.																						0.000	99.780	59
610.																						0.040	99.820	60
620.																						0.000	99.820	61
630.																						0.000	99.820	62
640.																						0.000	99.820	63
650.																						0.000	99.820	64
660.																						0.000	99.820	65
670.																						0.000	99.820	66
680.																						0.000	99.820	67
690.																						0.000	99.820	68
700.																						0.027	99.847	69
710.																						0.000	99.847	70
720.																						0.000	99.847	71
730.																						0.000	99.847	72
740.																						0.053	99.900	73
750.																						0.000	99.900	74

REMAINING VALUES ARE ALL ZERO

NUMBER OF OBSERVATIONS= 7510 SUM= 319043 MEAN= 42.482 VAR= 5170.604 SD= 71.997

TOTAL TRIPS OVER MAXP = 6
 TOTAL TRIPS OVER 255 = 0
 OLUME TABLE NUMBER = 201
 KIM TREE NUMBER = 101

27FEB78

TRIP LENGTH FREQUENCY DISTRIBUTION-REG13

PAGE 3

	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.																							69.132	69.132	13
30.																							8.977	78.159	
40.																							4.631	82.790	
50.																							2.344	85.134	
60.																							3.858	88.992	
70.																							2.859	91.851	
80.																							3.030	94.881	
90.																							2.916	97.797	
100.																							0.229	98.026	
110.																							0.286	98.312	
120.																							3.383	98.695	
130.																							0.381	99.076	
140.																							0.057	99.133	
150.																							0.114	99.247	
160.																							0.172	99.419	
170.																							0.114	99.533	
180.																							0.114	99.647	
190.																							0.172	99.819	
200.																							0.172	99.991	
210.																							0.057	99.977	
220.																							0.400	97.377	
230.																							0.057	97.427	
240.																							0.172	97.599	
250.																							0.000	97.599	
260.																							0.057	97.656	
270.																							0.629	98.285	
280.																							0.000	98.285	
290.																							0.172	98.456	
300.																							0.057	98.513	
310.																							0.057	98.571	
320.																							0.000	98.571	
330.																							0.000	98.571	
340.																							0.286	98.856	
350.																							0.000	98.856	
360.																							0.000	98.856	
370.																							0.000	98.856	
380.																							0.000	98.856	
390.																							0.114	98.971	
400.																							0.000	98.971	
410.																							0.114	99.085	
420.																							0.000	99.085	
430.																							0.000	99.085	
440.																							0.000	99.085	
450.																							0.000	99.085	
460.																							0.000	99.085	
470.																							3.381	99.428	
480.																							0.172	99.600	
490.																							0.000	99.600	
500.																							0.000	99.600	
510.																							0.000	99.600	
520.																							0.000	99.600	
530.																							0.000	99.600	
540.																							0.000	99.600	
550.																							0.000	99.600	
560.																							0.000	99.600	
570.																							0.114	99.714	
580.																							0.000	99.714	
590.																							0.000	99.714	
600.																							0.000	99.714	
610.																							0.057	99.771	
620.																							0.000	99.771	
630.																							0.000	99.771	
640.																							0.000	99.771	
650.																							0.000	99.771	
660.																							0.114	99.886	
670.																							0.000	99.886	
680.																							0.000	99.886	
690.																							0.000	99.886	
700.																							0.000	99.886	

REMAINING VALUES ARE ALL ZERO
 NUMBER OF OBSERVATIONS= 1749 SUM= 61265 MEAN= 35.029 VAR= 4507.572 SD= 67.138

TOTAL TRIPS OVER MAXP = 0
 TOTAL TRIPS OVER 255 = 0
 GLVME TABLE NUMBER = 202
 KIM TREE NUMBER = 101

27FE978

TRIP LENGTH FREQUENCY DISTRIBUTION-REG13

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.	ACTUAL	
10																						0.068	0.156	
20																						78.531	78.596	47
30																						7.681	86.277	47
40																						3.936	90.213	
50																						1.424	91.637	
60																						3.795	95.432	
70																						2.320	97.752	
80																						2.632	97.103	
90																						1.471	98.576	
100																						0.033	98.610	
110																						0.050	98.659	
120																						0.033	98.692	
130																						0.050	98.742	
140																						0.000	98.742	
150																						0.017	98.759	
160																						0.083	98.841	
170																						0.017	98.858	
180																						0.017	98.874	
190																						3.000	98.874	
200																						3.000	98.874	
210																						0.000	98.874	
220																						0.149	99.023	
230																						0.000	99.023	
240																						0.050	99.073	
250																						0.000	99.073	
260																						3.000	99.073	
270																						3.315	99.388	
280																						3.000	99.388	
290																						0.115	99.503	
300																						0.017	99.520	
310																						0.117	99.537	
320																						0.000	99.537	
330																						0.068	99.605	
340																						0.000	99.605	
350																						0.000	99.605	
360																						0.000	99.605	
370																						0.000	99.605	
380																						0.033	99.638	
390																						3.083	99.719	
400																						0.033	99.752	
410																						0.000	99.752	
420																						0.010	99.752	
430																						0.017	99.752	
440																						0.017	99.785	
450																						0.000	99.785	
460																						0.033	99.818	
470																						0.017	99.854	
480																						0.000	99.854	
490																						0.000	99.854	
500																						0.000	99.854	
510																						0.000	99.854	
520																						3.000	99.854	
530																						0.000	99.854	
540																						0.017	99.851	
550																						3.000	99.851	
560																						0.000	99.851	
570																						0.000	99.851	
580																						0.000	99.851	
590																						0.000	99.851	
600																						0.000	99.851	
610																						0.000	99.851	
620																						0.017	99.868	
630																						3.000	99.868	
640																						0.000	99.868	
650																						0.000	99.868	
660																						0.033	99.901	
670																						0.000	99.901	
680																						0.000	99.901	
690																						0.000	99.901	
700																						3.033	99.934	
710																						0.000	99.934	
720																						0.000	99.934	
730																						0.000	99.934	
740																						0.000	99.934	
750																						0.000	99.934	
																						0.065	100.000	

REMAINING VALUES ARE ALL ZERO
 NUMBER OF OBSERVATIONS= 6041 SUM= 142268 MEAN= 23.517 VAR= 1975.608 SD= 44.448

TOTAL TRIPS OVER MAXP = 4
 TOTAL TRIPS OVER 255 = 0
 VOLUME TABLE NUMBER = 203
 KIM TREE NUMBER = 101

27FEB78

TRIP LENGTH FREQUENCY DISTRIBUTION-REG13

	0	2	4	6	8	10	12	14	16	18	20	22	24	26	28	30	32	34	36	38	40	P.C.	CUM.	ACTUAL	
10.																							0.00	0.00	
20.																							0.00	0.00	
30.																							29.215	29.215	
40.																							6.467	35.277	
50.																							6.467	41.744	
60.																							2.079	43.822	
70.																							1.817	45.439	
80.																							3.366	48.499	
90.																							5.659	54.157	
100.																							2.599	56.755	
110.																							0.173	56.928	
120.																							0.231	57.159	
130.																							0.889	57.968	
140.																							0.751	58.718	
150.																							0.693	59.411	
160.																							0.577	59.988	
170.																							0.924	60.912	
180.																							0.474	61.386	
190.																							1.270	62.567	
200.																							0.231	62.818	
210.																							1.270	64.319	
220.																							1.212	65.531	
230.																							1.039	66.570	
240.																							1.212	67.782	
250.																							0.000	67.782	
260.																							0.115	67.897	
270.																							8.439	76.328	
280.																							0.000	76.328	
290.																							1.963	78.291	
300.																							1.329	79.619	
310.																							0.289	79.908	
320.																							0.289	81.196	
330.																							0.000	81.196	
340.																							0.866	81.962	
350.																							0.173	81.236	
360.																							0.289	81.524	
370.																							0.000	81.524	
380.																							0.924	82.448	
390.																							0.404	82.552	
400.																							0.115	82.966	
410.																							0.693	81.661	
420.																							0.462	84.122	
430.																							1.617	85.715	
440.																							0.404	86.143	
450.																							0.520	86.661	
460.																							0.866	87.525	
470.																							1.212	88.741	
480.																							1.212	89.954	
490.																							0.173	90.127	
500.																							0.615	90.762	
510.																							0.059	90.821	
520.																							0.173	90.993	
530.																							0.070	90.991	
540.																							0.751	91.744	
550.																							0.344	92.090	
560.																							0.462	92.552	
570.																							0.987	91.532	
580.																							0.115	91.649	
590.																							0.115	93.764	
600.																							0.173	93.938	
610.																							0.404	94.362	
620.																							0.404	94.740	
630.																							0.462	95.202	
640.																							0.059	95.266	
650.																							0.231	95.497	
660.																							0.059	95.554	
670.																							0.289	95.841	
680.																							0.115	95.955	
690.																							0.344	96.305	
700.																							0.231	96.516	
710.																							0.115	96.651	
720.																							0.289	96.940	
730.																							0.289	97.223	
740.																							0.693	97.921	
750.																							2.079	100.000	

REMAINING VALUES ARE ALL ZERO

NUMBER OF OBSERVATIONS= 1732 SUM= 110694. MEAN= 179.305 VAR= 44497.299 SD= 21.946

TOTAL TRIPS OVER MAXP = 36
 TOTAL TRIPS OVER 255 = 0
 VOLUME TABLE NUMBER = 204
 KIM TREE NUMBER = 161

27FEB74

TRIP LENGTH FREQUENCY DISTRIBUTION-REG13

PAGE 6

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.																						0.118	0.118	
20.																						70.517	70.515	36
30.																						8.516	79.051	4
40.																						4.837	83.888	2
50.																						2.697	85.985	1
60.																						0.975	86.960	
70.																						2.189	89.148	1
80.																						2.888	92.036	1
90.																						1.067	93.103	
100.																						0.202	93.305	
110.																						0.129	93.434	
120.																						0.533	93.967	
130.																						0.239	94.206	
140.																						0.202	94.409	
150.																						0.184	94.593	
160.																						0.166	94.758	
170.																						0.092	94.850	
180.																						0.165	95.016	
190.																						0.018	95.034	
200.																						0.202	95.236	
210.																						0.202	95.438	
220.																						0.368	95.807	
230.																						0.184	95.990	
240.																						0.257	96.248	
250.																						0.300	96.248	
260.																						0.600	96.248	
270.																						0.864	97.112	
280.																						0.300	97.112	
290.																						0.386	97.499	
300.																						0.147	97.646	
310.																						0.900	97.646	
320.																						0.374	97.719	
330.																						0.000	97.719	
340.																						0.600	97.719	
350.																						0.600	97.719	
360.																						0.097	97.811	
370.																						0.202	98.014	
380.																						0.074	98.087	
390.																						0.184	98.271	
400.																						0.655	98.326	
410.																						0.055	98.381	
420.																						0.555	98.437	
430.																						0.400	98.437	
440.																						0.018	98.455	
450.																						0.129	98.584	
460.																						0.311	98.896	
470.																						0.137	98.933	
480.																						0.550	98.933	
490.																						0.137	98.970	
500.																						0.600	98.970	
510.																						0.300	98.970	
520.																						0.300	98.970	
530.																						0.055	99.025	
540.																						0.074	99.099	
550.																						0.037	99.136	
560.																						0.697	99.228	
570.																						0.000	99.228	
580.																						0.337	99.264	
590.																						0.055	99.319	
600.																						0.317	99.356	
610.																						0.000	99.356	
620.																						0.000	99.356	
630.																						0.000	99.356	
640.																						0.319	99.375	
650.																						0.186	99.761	
660.																						0.000	99.761	
670.																						0.355	99.815	
680.																						0.018	99.834	
690.																						0.000	99.834	
700.																						0.000	99.834	
710.																						0.000	99.834	
720.																						0.637	99.871	
730.																						0.000	99.871	
740.																						0.018	99.890	
750.																						0.118	100.000	

REMAINING VALUES ARE ALL ZERO

NUMBER OF OBSERVATIONS= 5437 SUM= 217608. MEAN= 40.024 VAR= 7626.624 SD= 97.331

TOTAL TRIPS OVER MAXP = 6
 TOTAL TRIPS OVER 255 = 3
 VOLUME TABLE NUMBER = 205
 MAX TREE NUMBER = 101

27FEB73

TRIP LENGTH FREQUENCY DISTRIBUTION-REG13

PAGE 7

TRIP LENGTH	FREQUENCY	P.C.	CUM.	ACTUAL
0				
4				
8				
12				
16				
20				
24				
28				
32				
36				
40				
44				
48				
52				
56				
60				
64				
68				
72				
76				
80				
10.		0.171	0.171	
20		07.077	07.248	
30		9.915	77.162	
40		5.534	82.701	
50		2.735	85.436	
60		1.607	87.043	
70		2.667	89.709	
80		2.769	92.479	
90		1.299	93.778	
100		0.068	93.846	
110		0.239	94.085	
120		0.342	94.427	
130		0.991	95.419	
140		3.171	95.593	
150		0.239	95.832	
160		0.239	96.071	
170		0.068	96.139	
180		0.171	96.310	
190		0.370	96.680	
200		0.034	96.714	
210		0.137	96.851	
220		0.137	96.988	
230		0.375	97.363	
240		0.103	97.466	
250		0.068	97.534	
260		0.000	97.534	
270		1.026	98.560	
280		0.000	98.560	
290		0.342	98.902	
300		0.103	99.005	
310		0.000	99.005	
320		0.000	99.005	
330		0.000	99.005	
340		0.137	99.142	
350		0.068	99.210	
360		0.034	99.244	
370		0.070	99.314	
380		0.103	99.417	
390		0.000	99.417	
400		0.000	99.417	
410		0.000	99.417	
420		0.000	99.417	
430		0.034	99.451	
440		0.000	99.451	
450		0.000	99.451	
460		0.000	99.451	
470		0.068	99.519	
480		0.205	99.724	
490		0.034	99.758	
500		0.034	99.792	
510		0.034	99.826	
520		0.000	99.826	
530		1.000	99.826	
540		0.068	99.894	
550		0.034	99.928	
560		0.000	99.928	
570		0.000	99.928	
580		0.068	99.996	
590		0.000	99.996	
600		0.034	99.996	
610		0.000	99.996	
620		0.000	99.996	
630		0.000	99.996	
640		0.034	99.996	
650		0.239	99.996	
660		0.000	99.996	
670		0.000	99.996	
680		0.000	99.996	
690		0.034	99.996	
700		0.137	99.996	
710		0.000	99.996	
720		0.000	99.996	
730		0.000	99.996	
740		0.034	99.996	
750		0.034	100.000	

WAITING VALUES ARE ALL ZERO
 NUMBER OF OBSERVATIONS= 2925 SUM= 109228 MEAN= 37.343 VAR= 5682.307 SD= 75.361
 TOTAL TRIPS OVER MAXP = 1
 TOTAL TRIPS OVER 255 = 0
 VOLUME TABLE NUMBER = 206
 KIM FREE NUMBER = 101

27FEB78

TRIP LENGTH FREQUENCY DISTRIBUTION-REG13

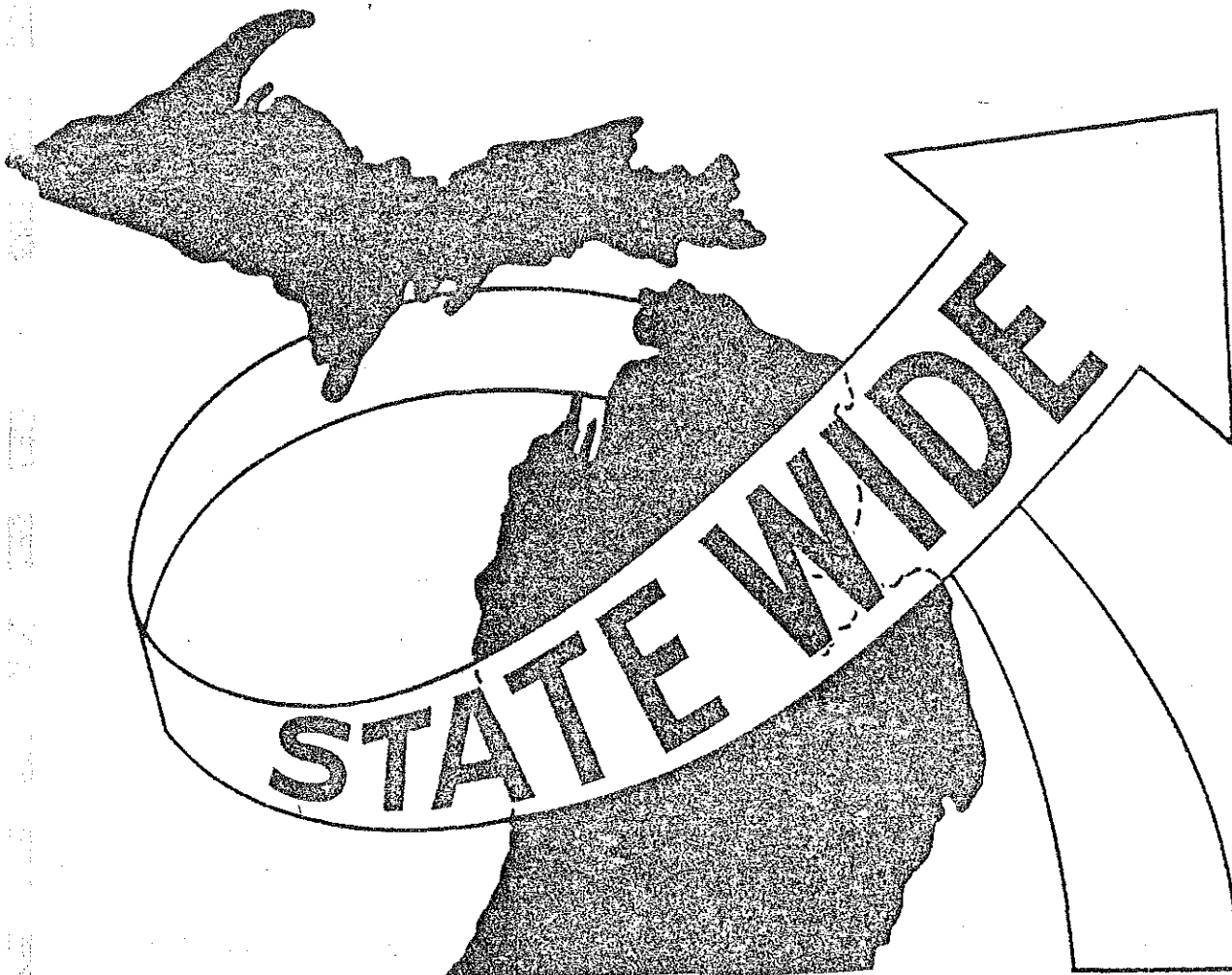
PAGE 3

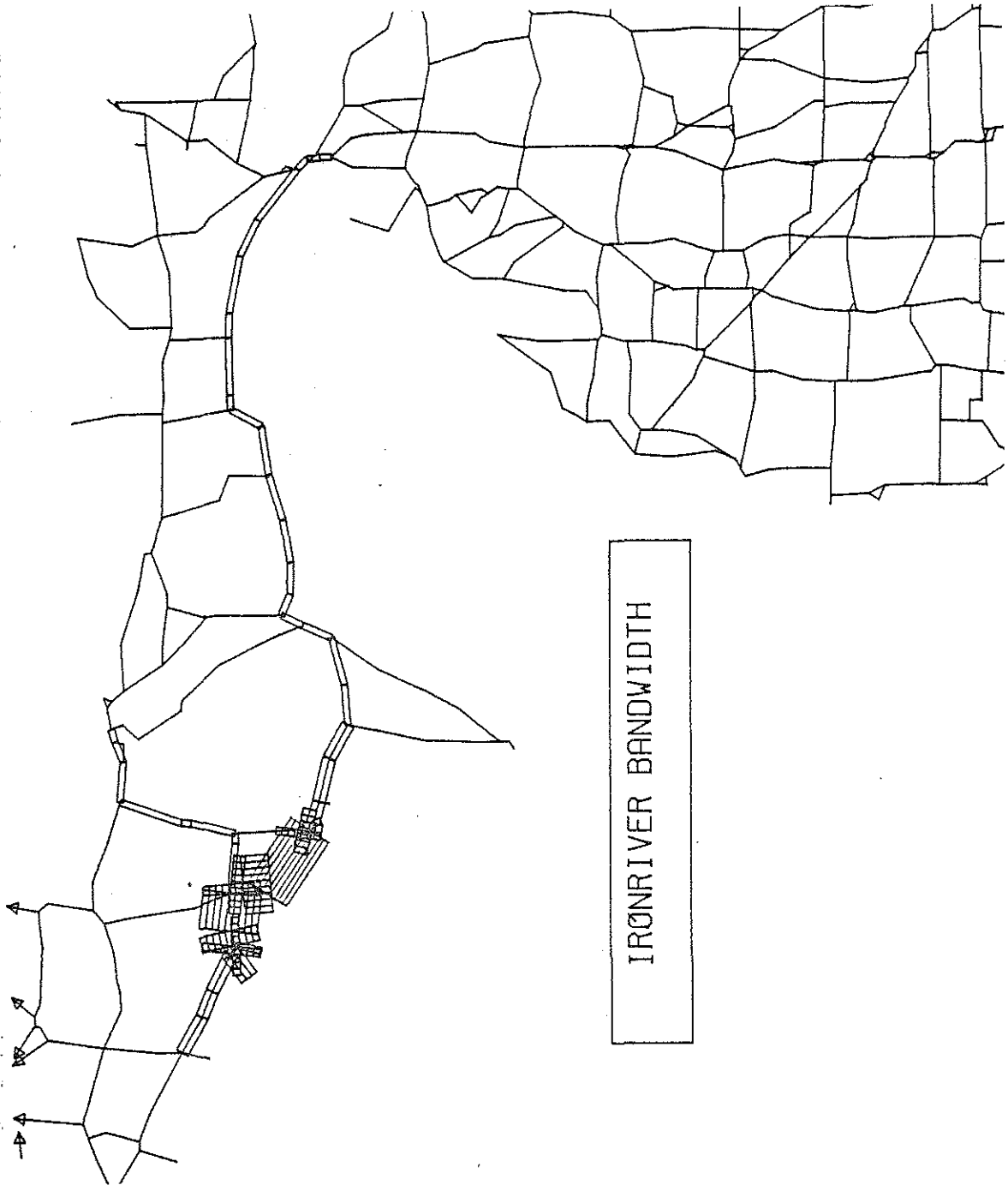
0	4	8	12	16	20	24	28	32	36	40	44	48	52	56	60	64	68	72	76	80	
10.																					
20.																					
30.																					
40.																					
50.																					
60.																					
70.																					
80.																					
90.																					
100.																					
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460.																					
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620.																					
630.																					
640.																					
650.																					
660.																					
670.																					
680.																					
690.																					
700.																					
710.																					
720.																					
730.																					
740.																					
750.																					

REMAINING VALUES ARE ALL ZERO
 NUMBER OF OBSERVATIONS= 25394 SUM= 1159906 MEAN= 45.676 VAR= 8993.785 SD= 94.836

TOTAL TRIPS OVER MAXP = 53
 TOTAL TRIPS OVER 255 = 0
 VOLUME TABLE NUMBER = 207
 KIN FREE NUMBER = 101

CITY TRIP CHARACTERISTICS
BY ALPHA NAME





IRONRIVER BANDWIDTH

IRONPIVER

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
73.6%	0.8%	20.6%	0.5%	3.1%	1.5%
5751	62	1612	36	241	114

TRIP PURPOSE

WORK	PERS BIZ	SHOP	VACATION	SOC-REC	OTHER
33.8%	6.7%	19.9%	6.5%	18.8%	14.3%
2643	524	1553	508	1470	1118

NUMBER IN VEHICLE

1	2	3	4	5	6+
46.6%	31.6%	10.4%	5.6%	3.1%	2.6%
3646	2473	815	442	240	200

VEHICLE GARAGED AT

ORIGIN	DESTIN	OTHER
39.0%	33.8%	27.2%
3045	2646	2126

TOTAL TRIPS = 7817

MINOR

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

TRIP PURPOSE

# IN VEH.	WORK	PERS BIZ	SHCP	VACATION	SOC-REC	OTHER
1	74.8% 1977	48.9% 256	33.6% 523	10.7% 54	29.5% 433	36.1% 403
2	19.0% 503	32.1% 168	39.1% 608	37.5% 191	40.2% 591	37.0% 413
3	3.9% 103	11.8% 62	13.6% 212	18.8% 96	13.1% 193	13.5% 150
4	1.5% 39	3.1% 16	6.7% 105	17.7% 90	8.8% 129	5.6% 62
5	0.4% 11	3.2% 17	4.3% 67	7.9% 40	4.3% 63	3.7% 41
6+	0.4% 11	0.9% 5	2.6% 40	7.3% 37	4.1% 61	4.2% 47
TOTAL	100% 2643	100% 524	100% 1553	100% 508	100% 1470	100% 1118

TOTAL TERMINAL-TRIPS FOR IRONRIVER = 7817

MINOR

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

TRIP PURPOSE

VEH TYPE	WORK	PERS BIZ	SHCP	VACATION	SOC-REC	OTHER
CAR W/O TRLR	57.3% 1515	76.4% 401	81.4% 1264	82.6% 420	82.3% 1210	84.2% 941
CAR W/ TRLR	0.3% 7	0.3% 2	0.4% 6	5.2% 26	0.9% 14	0.6% 7
PICK-UP W/O/TRLR	29.4% 777	22.0% 115	17.5% 271	10.6% 54	15.7% 231	14.7% 164
PICK-UP W/ TRLR	0.3% 9	0.7% 4	0.5% 8	0.5% 3	0.7% 11	0.3% 3
SINGLE-UNIT TRUCKS	8.5% 225	0.6% 3	0.3% 4	0.8% 4	0.2% 3	0.2% 2
COMBINATION TRUCKS	4.2% 111	0.0% 0	0.0% 0	0.2% 1	0.1% 1	0.0% 0
TOTAL	100% 2643	100% 524	100% 1553	100% 508	100% 1470	100% 1118

TOTAL TERMINAL-TRIPS FOR IRONRIVER = 7817

AFEB78 TRIP LENGTH FREQUENCY DISTRIBUTION-IRONRIVER

0	3	6	9	12	15	18	21	24	27	30	33	36	39	42	45	48	51	54	57	60	P.C.	CUM.	ACT	
10																						0.152	0.152	
20																						48.676	48.828	
30																						18.189	67.016	
40																						4.812	71.828	
50																						6.326	78.157	
60																						3.145	81.302	
70																						9.284	90.586	
80																						2.216	92.802	
90																						0.944	93.746	
100																						4.682	98.428	
110																						0.379	98.807	
120																						1.667	100.474	
130																						1.781	102.255	
140																						0.758	103.013	
150																						1.099	104.112	
160																						0.417	104.529	
170																						0.152	104.681	
180																						0.189	104.870	
190																						0.227	105.097	
200																						0.000	105.097	
210																						0.000	105.097	
220																						0.076	105.173	
230																						0.000	105.173	
240																						0.000	105.173	
250																						0.000	105.173	
260																						0.000	105.173	
270																						0.000	105.173	
280																						0.000	105.173	
290																						1.705	106.878	
300																						0.000	106.878	
310																						0.189	107.067	
320																						0.000	107.067	
330																						0.000	107.067	
340																						0.379	107.446	
350																						0.000	107.446	
360																						0.000	107.446	
370																						0.016	107.462	
380																						0.000	107.462	
390																						8.076	115.538	
400																						0.076	115.614	
410																						0.000	115.614	
420																						0.038	115.652	
430																						0.000	115.652	
440																						0.000	115.652	
450																						0.000	115.652	
460																						0.038	115.690	
470																						0.000	115.690	
480																						0.152	115.842	
490																						0.000	115.842	
500																						0.000	115.842	
510																						0.000	115.842	
520																						0.000	115.842	
530																						0.000	115.842	
540																						0.000	115.842	
550																						0.000	115.842	
560																						0.000	115.842	
570																						0.114	115.956	
580																						0.000	115.956	
590																						0.000	115.956	
600																						0.000	115.956	
610																						0.114	116.070	
620																						0.000	116.070	
630																						0.000	116.070	
640																						0.000	116.070	
650																						0.038	116.108	
660																						0.000	116.108	
670																						0.038	116.146	
680																						0.000	116.146	
690																						0.000	116.146	
700																						0.038	116.184	
710																						0.000	116.184	
720																						0.000	116.184	
730																						0.000	116.184	
740																						0.000	116.184	
750																						0.000	116.184	

REMAINING VALUES ARE ALL ZERO
 NUMBER OF OBSERVATIONS* 2639 SUM* 126394 MEAN* 47.895 VAR* 4617.377 SD* 67.6

TOTAL TRIPS OVER MAXP * 2
 TOTAL TRIPS OVER 255 * 0
 VOLUME TABLE NUMBER * 201
 SKIM TREE NUMBER * 101

8FEB78

TRIP LENGTH FREQUENCY DISTRIBUTION-IRONRIVER

0	3	6	9	12	15	18	21	24	27	30	33	36	39	42	45	48	51	54	57	60	P.C.	CUM.	ACT	
10																						0.000	0.000	
20																						57.803	57.803	
30																						16.570	74.374	
40																						3.063	77.437	
50																						5.010	82.446	
60																						1.541	84.000	
70																						8.092	92.100	
80																						1.189	93.289	
90																						0.578	94.027	
100																						0.771	94.798	
110																						0.193	94.990	
120																						0.578	95.568	
130																						1.156	96.724	
140																						0.193	96.917	
150																						0.193	97.110	
160																						0.000	97.110	
170																						0.000	97.110	
180																						0.000	97.110	
190																						0.000	97.110	
200																						0.000	97.110	
210																						0.000	97.110	
220																						0.000	97.110	
230																						0.000	97.110	
240																						0.000	97.110	
250																						0.000	97.110	
260																						0.000	97.110	
270																						0.000	97.110	
280																						0.000	97.110	
290																						0.385	97.495	
300																						0.193	97.688	
310																						0.193	97.881	
320																						0.000	97.881	
330																						0.000	97.881	
340																						0.963	98.844	
350																						0.000	98.844	
360																						0.000	98.844	
370																						0.000	98.844	
380																						0.000	98.844	
390																						0.000	98.844	
400																						0.000	98.844	
410																						0.385	99.229	
420																						0.000	99.229	
430																						0.000	99.229	
440																						0.000	99.229	
450																						0.000	99.229	
460																						0.000	99.229	
470																						0.000	99.229	
480																						0.385	99.615	
490																						0.000	99.615	
500																						0.000	99.615	
510																						0.000	99.615	
520																						0.000	99.615	
530																						0.000	99.615	
540																						0.000	99.615	
550																						0.000	99.615	
560																						0.000	99.615	
570																						0.000	99.615	
580																						0.000	99.615	
590																						0.000	99.615	
600																						0.000	99.615	
610																						0.000	99.615	
620																						0.000	99.615	
630																						0.000	99.615	
640																						0.000	99.615	
650																						0.385	100.000	

REMAINING VALUES ARE ALL ZERO
 NUMBER OF OBSERVATIONS= 519 SUM= 21033 MEAN= 40.526 VAR= 4617.753 SD= 67.3

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

6FEB78 TRIP LENGTH FREQUENCY DISTRIBUTION - (RONRIVER)

TRIP LENGTH	FREQUENCY	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.		0.258	0.258	
20.		60.344	60.602	
30.		14.958	75.560	
40.		1.255	76.815	
50.		1.999	78.814	
60.		3.030	81.844	
70.		6.190	88.034	
80.		1.096	89.130	
90.		0.258	90.388	
100.		0.064	90.453	
110.		0.129	90.582	
120.		0.000	90.582	
130.		0.193	90.775	
140.		0.000	90.775	
150.		0.064	90.839	
160.		0.000	90.839	
170.		0.000	90.839	
180.		0.000	90.839	
190.		0.000	90.839	
200.		0.000	90.839	
210.		0.000	90.839	
220.		0.000	90.839	
230.		0.000	90.839	
240.		0.000	90.839	
250.		0.000	90.839	
260.		0.000	90.839	
270.		0.000	90.839	
280.		0.000	90.839	
290.		0.322	91.162	
300.		0.000	91.162	
310.		0.064	91.226	
320.		0.000	91.226	
330.		0.000	91.226	
340.		0.258	91.484	
350.		0.000	91.484	
360.		0.000	91.484	
370.		0.000	91.484	
380.		0.000	91.484	
390.		0.129	91.613	
400.		0.129	91.742	
410.		0.000	91.742	
420.		0.000	91.742	
430.		0.000	91.742	
440.		0.000	91.742	
450.		0.000	91.742	
460.		0.000	91.742	
470.		0.000	91.742	
480.		0.000	91.742	
490.		0.000	91.742	
500.		0.000	91.742	
510.		0.000	91.742	
520.		0.000	91.742	
530.		0.000	91.742	
540.		0.000	91.742	
550.		0.000	91.742	
560.		0.000	91.742	
570.		0.000	91.742	
580.		0.000	91.742	
590.		0.000	91.742	
600.		0.000	91.742	
610.		0.064	91.807	
620.		0.000	91.807	
630.		0.000	91.807	
640.		0.000	91.807	
650.		0.129	91.936	
660.		0.000	91.936	
670.		0.000	91.936	
680.		0.000	91.936	
690.		0.000	91.936	
700.		0.000	91.936	
710.		0.000	91.936	
720.		0.000	91.936	
730.		0.000	91.936	
740.		0.000	91.936	
750.		0.064	100.000	

REMAINING VALUES ARE ALL ZERO
 NUMBER OF OBSERVATIONS# 1551 SUM# 47419. MEAN# 30.573 VAR# 2348.597 SD# 48.5

TOTAL TRIPS OVER MAXP # 1
 TOTAL TRIPS OVER 255 # 0
 VOLUME TABLE NUMBER # 203
 BKIM TREE NUMBER # 101

8FEB78

TRIP LENGTH FREQUENCY DISTRIBUTION-IRONRIVER

PAGE 5

TRIP LENGTH	FREQUENCY	P.C.	CUM.	ACT.
0	0	0.000	0.000	
3	0	0.000	0.000	
6	0	0.000	0.000	
9	0	0.000	0.000	
12	0	0.000	0.000	
15	0	0.000	0.000	
18	0	0.000	0.000	
21	0	0.000	0.000	
24	0	0.000	0.000	
27	0	0.000	0.000	
30	0	0.000	0.000	
33	0	0.000	0.000	
36	0	0.000	0.000	
39	0	0.000	0.000	
42	0	0.000	0.000	
45	0	0.000	0.000	
48	0	0.000	0.000	
51	0	0.000	0.000	
54	0	0.000	0.000	
57	0	0.000	0.000	
60	0	0.000	0.000	
10	41,980	41.980	41.980	
20	8,515	50.495	50.495	
30	3,366	53.861	53.861	
40	2,574	56.436	56.436	
50	4,158	60.594	60.594	
60	4,752	65.347	65.347	
70	0,792	66.139	66.139	
80	0,000	66.139	66.139	
90	0,198	66.337	66.337	
100	0,396	66.733	66.733	
110	1,188	67.921	67.921	
120	2,376	70.297	70.297	
130	0,990	71.287	71.287	
140	0,990	72.277	72.277	
150	0,198	72.475	72.475	
160	0,198	72.673	72.673	
170	0,792	73.465	73.465	
180	0,396	73.861	73.861	
190	0,594	74.455	74.455	
200	0,198	74.653	74.653	
210	0,000	74.653	74.653	
220	0,000	74.653	74.653	
230	0,000	74.653	74.653	
240	0,000	74.653	74.653	
250	0,000	74.653	74.653	
260	0,000	74.653	74.653	
270	0,000	74.653	74.653	
280	0,000	74.653	74.653	
290	1,782	76.436	76.436	
300	0,000	76.436	76.436	
310	0,792	77.228	77.228	
320	0,990	78.218	78.218	
330	0,000	78.218	78.218	
340	2,970	81.188	81.188	
350	0,198	81.386	81.386	
360	0,792	82.178	82.178	
370	0,000	82.178	82.178	
380	0,000	82.178	82.178	
390	0,594	82.772	82.772	
400	0,396	83.168	83.168	
410	0,594	83.762	83.762	
420	0,000	83.762	83.762	
430	0,198	83.960	83.960	
440	0,000	83.960	83.960	
450	0,000	83.960	83.960	
460	0,198	84.158	84.158	
470	0,000	84.158	84.158	
480	3,960	88.119	88.119	
490	0,594	88.713	88.713	
500	1,782	90.495	90.495	
510	0,198	90.693	90.693	
520	0,396	91.089	91.089	
530	0,000	91.089	91.089	
540	0,594	91.683	91.683	
550	0,000	91.683	91.683	
560	0,000	91.683	91.683	
570	0,792	92.475	92.475	
580	0,396	92.871	92.871	
590	0,000	92.871	92.871	
600	0,594	93.465	93.465	
610	0,792	94.257	94.257	
620	1,188	95.446	95.446	
630	1,386	96.832	96.832	
640	0,000	96.832	96.832	
650	0,792	97.624	97.624	
660	0,198	97.822	97.822	
670	0,198	98.020	98.020	
680	0,000	98.020	98.020	
690	0,000	98.020	98.020	
700	0,000	98.020	98.020	
710	0,000	98.020	98.020	
720	0,000	98.020	98.020	
730	0,000	98.020	98.020	
740	0,000	98.020	98.020	
750	1,980	100.000	100.000	

REMAINING VALUES ARE ALL ZERO
 NUMBER OF OBSERVATIONS# 505 SUM# 78315 MEAN# 155.079 VAR# 46142.418 SD# 214

TOTAL TRIPS OVER MAXP * 10
 TOTAL TRIPS OVER 255 * 0
 VOLUME TABLE NUMBER * 204
 SKIM TREE NUMBER * 101

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																					0.058	0.058		
20																						0.027	0.085	
30																						10.232	70.327	
40																						3.798	76.126	
50																						3.138	79.263	
60																						3.138	82.401	
70																						4.707	87.108	
80																						1.364	88.472	
90																						1.228	89.700	
100																						0.756	90.456	
110																						0.273	90.729	
120																						1.637	92.366	
130																						0.387	92.753	
140																						0.614	93.367	
150																						0.409	93.776	
160																						0.205	94.081	
170																						0.273	94.354	
180																						0.068	94.422	
190																						0.068	94.490	
200																						0.136	94.626	
210																						0.068	94.694	
220																						0.000	94.694	
230																						0.000	94.694	
240																						0.000	94.694	
250																						0.000	94.694	
260																						0.000	94.694	
270																						0.000	94.694	
280																						0.000	94.694	
290																						0.000	94.694	
300																						1.923	96.617	
310																						0.000	96.617	
320																						0.000	96.617	
330																						0.273	96.890	
340																						0.000	96.890	
350																						0.000	96.890	
360																						0.000	96.890	
370																						0.000	96.890	
380																						0.000	96.890	
390																						0.205	97.095	
400																						0.341	97.436	
410																						0.205	97.641	
420																						0.000	97.641	
430																						0.068	97.709	
440																						0.000	97.709	
450																						0.000	97.709	
460																						0.000	97.709	
470																						0.000	97.709	
480																						0.136	97.845	
490																						0.000	97.845	
500																						0.136	97.981	
510																						0.000	97.981	
520																						0.000	97.981	
530																						0.000	97.981	
540																						0.000	97.981	
550																						0.273	98.254	
560																						0.068	98.322	
570																						0.000	98.322	
580																						0.000	98.322	
590																						0.000	98.322	
600																						0.205	98.527	
610																						0.068	98.595	
620																						0.000	98.595	
630																						0.000	98.595	
640																						0.068	98.663	
650																						1.364	99.927	
660																						0.000	99.927	
670																						0.000	99.927	
680																						0.068	99.995	
690																						0.000	99.995	
700																						0.000	99.995	
710																						0.000	99.995	
720																						0.000	99.995	
730																						0.000	99.995	
740																						0.000	99.995	
750																						0.000	99.995	

REMAINING VALUES ARE ALL ZERO
 NUMBER OF OBSERVATIONS= 1466 SUM= 81063 MEAN= 55,295 VAR= 12012,561 SD= 113,
 TOTAL TRIPS OVER MAXP * 6
 TOTAL TRIPS OVER 255 * 0
 VOLUME TABLE NUMBER * 205
 SKIM TREE NUMBER * 101

8FEB76

TRIP LENGTH FREQUENCY DISTRIBUTION-IRONRIVER

TRIP LENGTH	FREQ	P.C.	CUM.	ACT
0	0	0.000	0.000	0
3	0	0.000	0.000	0
6	0	0.000	0.000	0
9	0	0.000	0.000	0
12	0	0.000	0.000	0
15	0	0.000	0.000	0
18	0	0.000	0.000	0
21	0	0.000	0.000	0
24	0	0.000	0.000	0
27	0	0.000	0.000	0
30	0	0.000	0.000	0
33	0	0.000	0.000	0
36	0	0.000	0.000	0
39	0	0.000	0.000	0
42	0	0.000	0.000	0
45	0	0.000	0.000	0
48	0	0.000	0.000	0
51	0	0.000	0.000	0
54	0	0.000	0.000	0
57	0	0.000	0.000	0
60	0	0.000	0.000	0
10	1	0.044	0.044	1
20	55	5.009	5.053	55
30	17	1.529	6.582	72
40	4	0.358	6.940	76
50	3	0.269	7.209	79
60	3	0.269	7.478	82
70	6	0.538	8.016	88
80	9	0.807	8.823	97
90	10	0.901	9.724	107
100	10	0.901	10.625	117
110	11	0.990	11.615	128
120	12	1.080	12.695	140
130	13	1.170	13.865	153
140	14	1.260	15.125	167
150	15	1.350	16.475	182
160	16	1.440	17.915	198
170	17	1.530	19.445	215
180	18	1.620	21.065	233
190	19	1.710	22.775	252
200	20	1.800	24.575	272
210	21	1.890	26.465	293
220	22	1.980	28.445	315
230	23	2.070	30.515	338
240	24	2.160	32.675	362
250	25	2.250	34.925	387
260	26	2.340	37.265	413
270	27	2.430	39.695	440
280	28	2.520	42.215	468
290	29	2.610	44.825	497
300	30	2.700	47.525	527
310	31	2.790	50.315	558
320	32	2.880	53.195	590
330	33	2.970	56.165	623
340	34	3.060	59.225	657
350	35	3.150	62.375	692
360	36	3.240	65.615	728
370	37	3.330	68.945	765
380	38	3.420	72.365	803
390	39	3.510	75.875	842
400	40	3.600	79.475	882
410	41	3.690	83.165	923
420	42	3.780	86.945	965
430	43	3.870	90.815	1008
440	44	3.960	94.775	1052
450	45	4.050	98.825	1097
460	46	4.140	102.965	1143
470	47	4.230	107.195	1190
480	48	4.320	111.515	1238
490	49	4.410	115.925	1287
500	50	4.500	120.425	1337
510	51	4.590	125.015	1388
520	52	4.680	129.695	1440
530	53	4.770	134.465	1493
540	54	4.860	139.325	1547
550	55	4.950	144.275	1602
560	56	5.040	149.315	1658
570	57	5.130	154.445	1715
580	58	5.220	159.665	1773
590	59	5.310	164.975	1832
600	60	5.400	170.375	1892
610	61	5.490	175.865	1953
620	62	5.580	181.445	2015
630	63	5.670	187.115	2078
640	64	5.760	192.875	2142
650	65	5.850	198.725	2207

REMAINING VALUES ARE ALL ZERO
NUMBER OF OBSERVATIONS= 1117 SUM= 45016 MEAN= 40.331 VAR= 5173.016 SD= 71.92

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

0FEB78

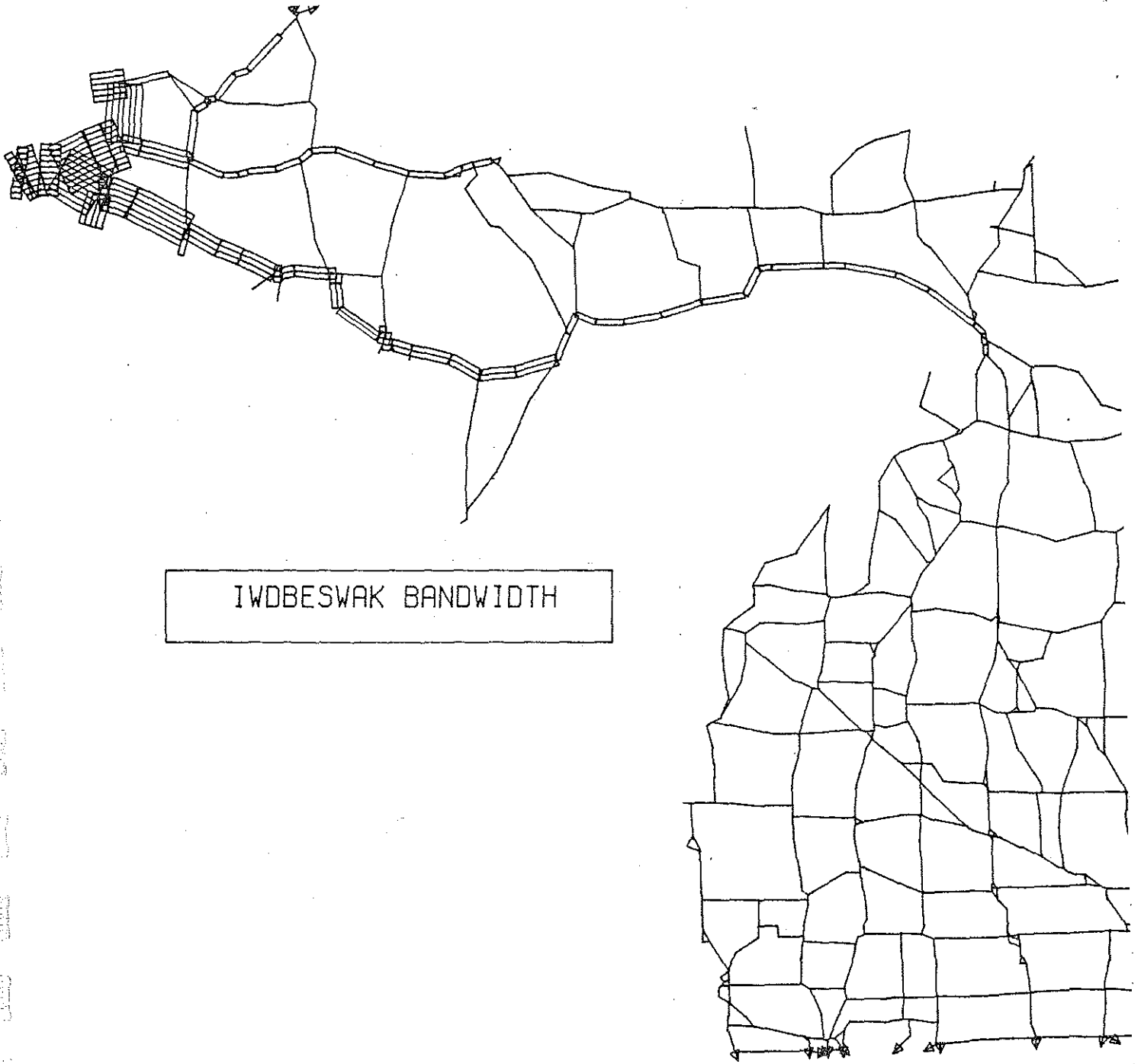
TRIP LENGTH FREQUENCY DISTRIBUTION-IRONRIVER

TRIP LENGTH	FREQUENCY	P.C.	CUM.	ACT
0	0	0.000	0.000	
3	0	0.000	0.000	
6	0	0.000	0.000	
9	0	0.000	0.000	
12	0	0.000	0.000	
15	0	0.000	0.000	
18	0	0.000	0.000	
21	0	0.000	0.000	
24	0	0.000	0.000	
27	0	0.000	0.000	
30	0	0.000	0.000	
33	0	0.000	0.000	
36	0	0.000	0.000	
39	0	0.000	0.000	
42	0	0.000	0.000	
45	0	0.000	0.000	
48	0	0.000	0.000	
51	0	0.000	0.000	
54	0	0.000	0.000	
57	0	0.000	0.000	
60	0	0.000	0.000	
10	1	0.180	0.180	
20	54	12.353	54.353	
30	15	27.540	69.578	
40	4	8.566	74.234	
50	4	8.566	78.376	
60	3	6.773	81.500	
70	6	13.546	88.496	
80	1	2.258	90.000	
90	0	0.000	90.000	
100	0	0.000	90.000	
110	0	0.000	90.000	
120	1	2.258	91.001	
130	1	2.258	92.446	
140	1	2.258	93.884	
150	0	0.000	93.884	
160	0	0.000	93.884	
170	0	0.000	93.884	
180	0	0.000	93.884	
190	0	0.000	93.884	
200	0	0.000	93.884	
210	0	0.000	93.884	
220	0	0.000	93.884	
230	0	0.000	93.884	
240	0	0.000	93.884	
250	0	0.000	93.884	
260	0	0.000	93.884	
270	0	0.000	93.884	
280	0	0.000	93.884	
290	1	2.258	96.678	
300	0	0.000	96.678	
310	0	0.000	96.678	
320	0	0.000	96.678	
330	0	0.000	96.678	
340	0	0.000	96.678	
350	0	0.000	96.678	
360	0	0.000	96.678	
370	0	0.000	96.678	
380	0	0.000	96.678	
390	0	0.000	96.678	
400	0	0.000	96.678	
410	0	0.000	96.678	
420	0	0.000	96.678	
430	0	0.000	96.678	
440	0	0.000	96.678	
450	0	0.000	96.678	
460	0	0.000	96.678	
470	0	0.000	96.678	
480	0	0.000	96.678	
490	0	0.000	96.678	
500	0	0.000	96.678	
510	0	0.000	96.678	
520	0	0.000	96.678	
530	0	0.000	96.678	
540	0	0.000	96.678	
550	0	0.000	96.678	
560	0	0.000	96.678	
570	0	0.000	96.678	
580	0	0.000	96.678	
590	0	0.000	96.678	
600	0	0.000	96.678	
610	0	0.000	96.678	
620	0	0.000	96.678	
630	0	0.000	96.678	
640	0	0.000	96.678	
650	0	0.000	96.678	
660	0	0.000	96.678	
670	0	0.000	96.678	
680	0	0.000	96.678	
690	0	0.000	96.678	
700	0	0.000	96.678	
710	0	0.000	96.678	
720	0	0.000	96.678	
730	0	0.000	96.678	
740	0	0.000	96.678	
750	0	0.000	96.678	

REMAINING VALUES ARE ALL ZERO

NUMBER OF OBSERVATIONS= 7797 SUM= 399642 MEAN= 51.256 VAR= 9269.962 SD= 96.3

TOTAL TRIPS OVER MAXP # 19
TOTAL TRIPS OVER 255 # 0
VOLUME TABLE NUMBER # 207
SKIM TREE NUMBER # 101



IWDBESWAK BANDWIDTH

IWOBESWAK

EXTERNAL ORIGIN-DESTINATION INTERVIEW

TERMINAL-TRIP SUMMARY TABLE

VEHICLE TYPE

CAR W/O TRLR	CAR W/ TRLR	PICK-UP W/O/TRLR	PICK-UP W/ TRLR	SINGLE-UNIT TRUCKS	COMBINATION TRUCKS
77.1%	1.2%	15.8%	0.4%	4.1%	1.3%
13619	216	2787	78	719	234

TRIP PURPOSE

WORK	PERS BIZ	SHOP	VACATION	SOC-REC	OTHER
27.6%	7.0%	25.5%	7.1%	22.6%	10.3%
4876	1238	4494	1246	3983	1815

NUMBER IN VEHICLE

1	2	3	4	5	6+
48.4%	30.1%	10.9%	6.1%	2.8%	1.8%
8538	5305	1923	1079	488	320

VEHICLE GARAGED AT

ORIGIN	DESTIN	OTHER
38.8%	33.2%	28.0%
6857	5858	4937

TOTAL TRIPS = 17652

MINOR

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

TRIP PURPOSE

# IN VEH.	WORK	PERS BIZ	SHOP	VACATION	SOC-REC	OTHER
1	74.5% 3634	55.0% 681	44.0% 1975	6.9% 86	36.4% 1450	39.2% 712
2	18.2% 887	28.5% 352	34.1% 1534	38.7% 482	35.5% 1412	35.1% 638
3	4.4% 215	9.3% 115	12.5% 562	16.9% 210	13.8% 551	14.8% 269
4	1.9% 93	4.8% 59	5.5% 249	19.8% 247	8.0% 318	6.2% 113
5	0.5% 25	1.6% 19	2.4% 109	9.6% 120	4.0% 161	2.9% 53
6+	0.5% 23	0.8% 10	1.4% 65	8.1% 101	2.3% 90	1.7% 31
TOTAL	100% 4876	100% 1238	100% 4494	100% 1246	100% 3983	100% 1815

TOTAL TERMINAL-TRIPS FOR IWDBESWAK = 17652

MINOR

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

TRIP PURPOSE

VEH TYPE	WORK	PERS BIZ	SHOP	VACATION	SOC-REC	OTHER
CAR W/O TRLR	55.9% 2725	79.5% 984	86.0% 3864	80.9% 1008	87.3% 3479	85.8% 1558
CAR W/ TRLR	0.4% 20	1.2% 15	0.4% 19	8.0% 99	1.3% 52	0.6% 11
PICK-UP W/O/TRLR	25.5% 1246	18.0% 223	13.3% 598	6.0% 75	10.6% 423	12.3% 223
PICK-UP W/ TRLR	0.5% 26	0.6% 7	0.0% 2	1.5% 19	0.4% 17	0.4% 7
SINGLE-UNIT TRUCKS	13.0% 634	0.7% 9	0.2% 10	3.4% 42	0.3% 12	0.6% 12
COMBINATION TRUCKS	4.6% 226	0.0% 0	0.0% 2	0.2% 2	0.0% 0	0.2% 4
TOTAL	100% 4876	100% 1238	100% 4494	100% 1246	100% 3983	100% 1815

TOTAL TERMINAL-TRIPS FOR IWDBESWAK = 17652

0FEB78 TRIP LENGTH FREQUENCY DISTRIBUTION-INOBESHAK

TRIP LENGTH	FREQUENCY	P.C.	CUM.	ACTU
0	0	0.000	0.000	
4	0	0.000	0.000	
8	0	0.000	0.000	
12	0	0.000	0.000	
16	0	0.000	0.000	
20	0	0.000	0.000	
24	0	0.000	0.000	
28	0	0.000	0.000	
32	0	0.000	0.000	
36	0	0.000	0.000	
40	0	0.000	0.000	
44	0	0.000	0.000	
48	0	0.000	0.000	
52	0	0.000	0.000	
56	0	0.000	0.000	
60	0	0.000	0.000	
64	0	0.000	0.000	
68	0	0.000	0.000	
72	0	0.000	0.000	
76	0	0.000	0.000	
80	0	0.000	0.000	
10	0	0.000	0.000	
20	0	0.000	0.000	
30	0	0.000	0.000	
40	0	0.000	0.000	
50	0	0.000	0.000	
60	0	0.000	0.000	
70	0	0.000	0.000	
80	0	0.000	0.000	
90	0	0.000	0.000	
100	0	0.000	0.000	
110	0	0.000	0.000	
120	0	0.000	0.000	
130	0	0.000	0.000	
140	0	0.000	0.000	
150	0	0.000	0.000	
160	0	0.000	0.000	
170	0	0.000	0.000	
180	0	0.000	0.000	
190	0	0.000	0.000	
200	0	0.000	0.000	
210	0	0.000	0.000	
220	0	0.000	0.000	
230	0	0.000	0.000	
240	0	0.000	0.000	
250	0	0.000	0.000	
260	0	0.000	0.000	
270	0	0.000	0.000	
280	0	0.000	0.000	
290	0	0.000	0.000	
300	0	0.000	0.000	
310	0	0.000	0.000	
320	0	0.000	0.000	
330	0	0.000	0.000	
340	0	0.000	0.000	
350	0	0.000	0.000	
360	0	0.000	0.000	
370	0	0.000	0.000	
380	0	0.000	0.000	
390	0	0.000	0.000	
400	0	0.000	0.000	
410	0	0.000	0.000	
420	0	0.000	0.000	
430	0	0.000	0.000	
440	0	0.000	0.000	
450	0	0.000	0.000	
460	0	0.000	0.000	
470	0	0.000	0.000	
480	0	0.000	0.000	
490	0	0.000	0.000	
500	0	0.000	0.000	
510	0	0.000	0.000	
520	0	0.000	0.000	
530	0	0.000	0.000	
540	0	0.000	0.000	
550	0	0.000	0.000	
560	0	0.000	0.000	
570	0	0.000	0.000	
580	0	0.000	0.000	
590	0	0.000	0.000	
600	0	0.000	0.000	
610	0	0.000	0.000	
620	0	0.000	0.000	
630	0	0.000	0.000	
640	0	0.000	0.000	
650	0	0.000	0.000	
660	0	0.000	0.000	
670	0	0.000	0.000	
680	0	0.000	0.000	
690	0	0.000	0.000	
700	0	0.000	0.000	
710	0	0.000	0.000	
720	0	0.000	0.000	
730	0	0.000	0.000	
740	0	0.000	0.000	
750	0	0.000	0.000	

REMAINING VALUES ARE ALL ZERO
 NUMBER OF OBSERVATIONS# 4871 SUM# 192649 MEAN# 39,550 VAR# 5445,862 SD# 73.7

TOTAL TRIPS OVER MAXP * 4
 TOTAL TRIPS OVER 255 * 0
 VOLUME TABLE NUMBER * 201
 SKIM TREE NUMBER * 101

TRIP LENGTH	FREQUENCY	P.C.	CUM.	ACT
0	0	0.000	0.000	
4	0	0.000	0.000	
8	0	0.000	0.000	
12	0	0.000	0.000	
16	0	0.000	0.000	
20	0	0.000	0.000	
24	0	0.000	0.000	
28	0	0.000	0.000	
32	0	0.000	0.000	
36	0	0.000	0.000	
40	0	0.000	0.000	
44	0	0.000	0.000	
48	0	0.000	0.000	
52	0	0.000	0.000	
56	0	0.000	0.000	
60	0	0.000	0.000	
64	0	0.000	0.000	
68	0	0.000	0.000	
72	0	0.000	0.000	
76	0	0.000	0.000	
80	0	0.000	0.000	
10.	0	0.000	0.000	
20.	0	0.000	0.000	
30.	0	0.000	0.000	
40.	0	0.000	0.000	
50.	0	0.000	0.000	
60.	0	0.000	0.000	
70.	0	0.000	0.000	
80.	0	0.000	0.000	
90.	0	0.000	0.000	
100.	0	0.000	0.000	
110.	0	0.000	0.000	
120.	0	0.000	0.000	
130.	0	0.000	0.000	
140.	0	0.000	0.000	
150.	0	0.000	0.000	
160.	0	0.000	0.000	
170.	0	0.000	0.000	
180.	0	0.000	0.000	
190.	0	0.000	0.000	
200.	0	0.000	0.000	
210.	0	0.000	0.000	
220.	0	0.000	0.000	
230.	0	0.000	0.000	
240.	0	0.000	0.000	
250.	0	0.000	0.000	
260.	0	0.000	0.000	
270.	0	0.000	0.000	
280.	0	0.000	0.000	
290.	0	0.000	0.000	
300.	0	0.000	0.000	
310.	0	0.000	0.000	
320.	0	0.000	0.000	
330.	0	0.000	0.000	
340.	0	0.000	0.000	
350.	0	0.000	0.000	
360.	0	0.000	0.000	
370.	0	0.000	0.000	
380.	0	0.000	0.000	
390.	0	0.000	0.000	
400.	0	0.000	0.000	
410.	0	0.000	0.000	
420.	0	0.000	0.000	
430.	0	0.000	0.000	
440.	0	0.000	0.000	
450.	0	0.000	0.000	
460.	0	0.000	0.000	
470.	0	0.000	0.000	
480.	0	0.000	0.000	
490.	0	0.000	0.000	
500.	0	0.000	0.000	
510.	0	0.000	0.000	
520.	0	0.000	0.000	
530.	0	0.000	0.000	
540.	0	0.000	0.000	
550.	0	0.000	0.000	
560.	0	0.000	0.000	
570.	0	0.000	0.000	
580.	0	0.000	0.000	
590.	0	0.000	0.000	
600.	0	0.000	0.000	
610.	0	0.000	0.000	
620.	0	0.000	0.000	
630.	0	0.000	0.000	
640.	0	0.000	0.000	
650.	0	0.000	0.000	
660.	0	0.000	0.000	
670.	0	0.000	0.000	
680.	0	0.000	0.000	
690.	0	0.000	0.000	
700.	0	0.000	0.000	

REMAINING VALUES ARE ALL ZERO
 NUMBER OF OBSERVATIONS= 1230 SUM= 40232 MEAN= 32,709 VAR= 4492,908 SD= 66.6

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

0FEB76

TRIP LENGTH FREQUENCY DISTRIBUTION-IWOBESHAK

PAGE 4

0	5	10	15	20	25	30	35	40	45	50	55	60	65	70	75	80	85	90	95	100	P.C.	CUM.	ACT	
10.																						0,000	0,000	
20.																						82,739	82,739	
30.																						5,167	87,906	
40.																						3,853	91,759	
50.																						1,225	92,984	
60.																						0,022	93,007	
70.																						0,579	93,586	
80.																						3,163	96,748	
90.																						1,893	98,641	
100.																						0,022	98,663	
110.																						0,022	98,685	
120.																						0,045	98,731	
130.																						0,000	98,731	
140.																						0,000	98,731	
150.																						0,000	98,731	
160.																						0,111	98,842	
170.																						0,022	98,864	
180.																						0,022	98,886	
190.																						0,000	98,886	
200.																						0,000	98,886	
210.																						0,000	98,886	
220.																						0,200	99,087	
230.																						0,000	99,087	
240.																						0,067	99,154	
250.																						0,000	99,154	
260.																						0,000	99,154	
270.																						0,421	99,577	
280.																						0,000	99,577	
290.																						0,045	99,621	
300.																						0,022	99,644	
310.																						0,000	99,644	
320.																						0,000	99,644	
330.																						0,000	99,644	
340.																						0,000	99,644	
350.																						0,000	99,644	
360.																						0,000	99,644	
370.																						0,000	99,644	
380.																						0,045	99,688	
390.																						0,067	99,755	
400.																						0,000	99,755	
410.																						0,000	99,755	
420.																						0,000	99,755	
430.																						0,422	99,777	
440.																						0,022	99,800	
450.																						0,000	99,800	
460.																						0,045	99,844	
470.																						0,022	99,866	
480.																						0,000	99,866	
490.																						0,000	99,866	
500.																						0,000	99,866	
510.																						0,006	99,866	
520.																						0,000	99,866	
530.																						0,000	99,866	
540.																						0,022	99,889	
550.																						0,000	99,889	
560.																						0,000	99,889	
570.																						0,000	99,889	
580.																						0,000	99,889	
590.																						0,000	99,889	
600.																						0,000	99,889	
610.																						0,000	99,889	
620.																						0,000	99,889	
630.																						0,000	99,889	
640.																						0,000	99,889	
650.																						0,000	99,889	
660.																						0,000	99,889	
670.																						0,000	99,889	
680.																						0,000	99,889	
690.																						0,045	99,933	
700.																						0,000	99,933	
710.																						0,066	99,933	
720.																						0,000	99,933	
730.																						0,000	99,933	
740.																						0,000	99,933	
750.																						0,067	100,000	

REMAINING VALUES ARE ALL ZERO
 NUMBER OF OBSERVATIONS= 4490 SUM= 94649 MEAN= 21,080 VAR= 1623,627 SD= 42

TOTAL TRIPS OVER MAXP = 3
 TOTAL TRIPS OVER 255 = 0
 VOLUME TABLE NUMBER = 203
 SKIM TREE NUMBER = 101

6FEB78

TRIP LENGTH FREQUENCY DISTRIBUTION-IHOBESHAK

PAGE 5

0	2	4	6	8	10	12	14	16	18	20	22	24	26	28	30	32	34	36	38	40	P.C.	CUM.	ACT	
10.....																					0.000	0.000		
20.....																						23.961	23.961	
30.....																						5.053	29.014	
40.....																						7.742	36.756	
50.....																						1.878	38.631	
60.....																						0.570	39.201	
70.....																						2.383	41.585	
80.....																						7.661	49.226	
90.....																						3.667	52.893	
100.....																						0.163	53.056	
110.....																						0.163	53.219	
120.....																						0.652	53.871	
130.....																						0.081	53.953	
140.....																						0.570	54.523	
150.....																						0.407	54.931	
160.....																						1.222	56.153	
170.....																						0.889	56.642	
180.....																						1.467	58.109	
190.....																						0.163	58.272	
200.....																						0.081	58.354	
210.....																						1.711	60.065	
220.....																						1.711	61.777	
230.....																						1.467	63.244	
240.....																						1.711	64.955	
250.....																						0.000	64.955	
260.....																						0.163	65.118	
270.....																						11.899	77.017	
280.....																						0.000	77.017	
290.....																						2.037	79.055	
300.....																						1.878	80.929	
310.....																						0.081	81.011	
320.....																						0.000	81.011	
330.....																						0.000	81.011	
340.....																						0.000	81.011	
350.....																						0.163	81.174	
360.....																						0.081	81.255	
370.....																						0.000	81.255	
380.....																						1.304	82.559	
390.....																						0.326	82.885	
400.....																						0.000	82.885	
410.....																						0.733	83.619	
420.....																						0.652	84.271	
430.....																						2.200	86.471	
440.....																						0.570	87.042	
450.....																						0.733	87.775	
460.....																						1.141	88.916	
470.....																						1.711	90.628	
480.....																						0.081	90.709	
490.....																						0.000	90.709	
500.....																						0.163	90.872	
510.....																						0.000	90.872	
520.....																						0.081	90.954	
530.....																						0.000	90.954	
540.....																						0.815	91.769	
550.....																						0.489	92.258	
560.....																						0.652	92.910	
570.....																						1.959	93.969	
580.....																						0.000	93.969	
590.....																						0.163	94.132	
600.....																						0.294	94.377	
610.....																						0.081	94.458	
620.....																						0.081	94.540	
630.....																						0.081	94.621	
640.....																						0.000	94.621	
650.....																						0.000	94.621	
660.....																						0.326	94.947	
670.....																						0.163	95.110	
680.....																						0.489	95.599	
690.....																						0.326	95.925	
700.....																						0.163	96.088	
710.....																						0.163	96.088	
720.....																						0.407	96.496	
730.....																						0.407	96.903	
740.....																						0.978	97.881	
750.....																						2.119	100.000	

REMAINING VALUES ARE ALL ZERO
 NUMBER OF OBSERVATIONS= 1227 SUM= 232379 MEAN= 189.388 VAR= 43477.009 SD= 208.6

TOTAL TRIPS OVER MAXP = 26
 TOTAL TRIPS OVER 255 = 0
 VOLUME TABLE NUMBER = 204
 SKIN TREE NUMBER = 101

8FEB78

TRIP LENGTH FREQUENCY DISTRIBUTION-IWOBESWAK

PAGE 6

TRIP LENGTH	FREQUENCY	P. C.	CUM.	ACT
0	10	0.000	0.000	
4	20	0.000	0.000	
8	30	0.000	0.000	
12	40	0.000	0.000	
16	50	0.000	0.000	
20	60	0.000	0.000	
24	70	0.000	0.000	
28	80	0.000	0.000	
32	90	0.000	0.000	
36	100	0.000	0.000	
40	110	0.000	0.000	
44	120	0.000	0.000	
48	130	0.000	0.000	
52	140	0.000	0.000	
56	150	0.000	0.000	
60	160	0.000	0.000	
64	170	0.000	0.000	
68	180	0.000	0.000	
72	190	0.000	0.000	
76	200	0.000	0.000	
80	210	0.000	0.000	
	220	0.000	0.000	
	230	0.000	0.000	
	240	0.000	0.000	
	250	0.000	0.000	
	260	0.000	0.000	
	270	0.000	0.000	
	280	0.000	0.000	
	290	0.000	0.000	
	300	0.000	0.000	
	310	0.000	0.000	
	320	0.000	0.000	
	330	0.000	0.000	
	340	0.000	0.000	
	350	0.000	0.000	
	360	0.000	0.000	
	370	0.000	0.000	
	380	0.000	0.000	
	390	0.000	0.000	
	400	0.000	0.000	
	410	0.000	0.000	
	420	0.000	0.000	
	430	0.000	0.000	
	440	0.000	0.000	
	450	0.000	0.000	
	460	0.000	0.000	
	470	0.000	0.000	
	480	0.000	0.000	
	490	0.000	0.000	
	500	0.000	0.000	
	510	0.000	0.000	
	520	0.000	0.000	
	530	0.000	0.000	
	540	0.000	0.000	
	550	0.000	0.000	
	560	0.000	0.000	
	570	0.000	0.000	
	580	0.000	0.000	
	590	0.000	0.000	
	600	0.000	0.000	
	610	0.000	0.000	
	620	0.000	0.000	
	630	0.000	0.000	
	640	0.000	0.000	
	650	0.000	0.000	
	660	0.000	0.000	
	670	0.000	0.000	
	680	0.000	0.000	
	690	0.000	0.000	
	700	0.000	0.000	
	710	0.000	0.000	
	720	0.000	0.000	
	730	0.000	0.000	
	740	0.000	0.000	

REMAINING VALUES ARE ALL ZERO
 NUMBER OF OBSERVATIONS= 3971 SUM= 136545 MEAN= 34.386 VAR= 5594.209 SD= 74

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

8FEB78

TRIP LENGTH FREQUENCY DISTRIBUTION-IWOBESNAK

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TRIP LENGTH	FREQUENCY	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.		0.000	0.000	
30.		74.226	74.226	
40.		4.978	79.204	
50.		6.088	85.288	
60.		2.212	87.500	
70.		0.442	87.942	
80.		0.499	88.440	
90.		3.872	92.312	
100.		1.581	94.192	
110.		0.055	94.248	
120.		0.277	94.524	
130.		0.000	94.524	
140.		0.055	94.580	
150.		0.000	94.580	
160.		0.221	94.801	
170.		0.277	95.077	
180.		0.055	95.133	
190.		0.277	95.409	
200.		0.000	95.409	
210.		0.055	95.465	
220.		0.166	95.631	
230.		0.608	96.239	
240.		0.166	96.405	
250.		0.111	96.515	
260.		0.000	96.515	
270.		1.859	98.375	
280.		0.000	98.375	
290.		0.332	98.707	
300.		0.111	98.817	
310.		0.000	98.817	
320.		0.000	98.817	
330.		0.000	98.817	
340.		0.000	98.817	
350.		0.000	98.817	
360.		0.055	98.873	
370.		0.000	98.873	
380.		0.166	99.039	
390.		0.000	99.039	
400.		0.000	99.039	
410.		0.000	99.039	
420.		0.000	99.039	
430.		0.055	99.094	
440.		0.000	99.094	
450.		0.000	99.094	
460.		0.111	99.204	
470.		0.332	99.536	
480.		0.000	99.536	
490.		0.055	99.592	
500.		0.000	99.592	
510.		0.000	99.592	
520.		0.000	99.592	
530.		0.000	99.592	
540.		0.111	99.702	
550.		0.055	99.758	
560.		0.000	99.758	
570.		0.000	99.758	
580.		0.000	99.758	
590.		0.000	99.758	
600.		0.000	99.758	
610.		0.000	99.758	
620.		0.000	99.758	
630.		0.000	99.758	
640.		0.055	99.813	
650.		0.000	99.813	
660.		0.000	99.813	
670.		0.000	99.813	
680.		0.000	99.813	
690.		0.000	99.813	
700.		0.055	99.868	
710.		0.221	99.889	
720.		0.000	99.889	
730.		0.000	99.889	
740.		0.055	99.945	
750.		0.055	100.000	

REMAINING VALUES ARE ALL ZERO
 NUMBER OF OBSERVATIONS# 1808 SUM# 63610 MEAN# 35.293 VAR# 5985.949 SD# 77.3

TOTAL TRIPS OVER MAXP * 1
 TOTAL TRIPS OVER 255 * 0
 VOLUME TABLE NUMBER * 206
 SKIM TREE NUMBER * 101

8FEB78

TRIP LENGTH FREQUENCY DISTRIBUTION-IWDBESAK

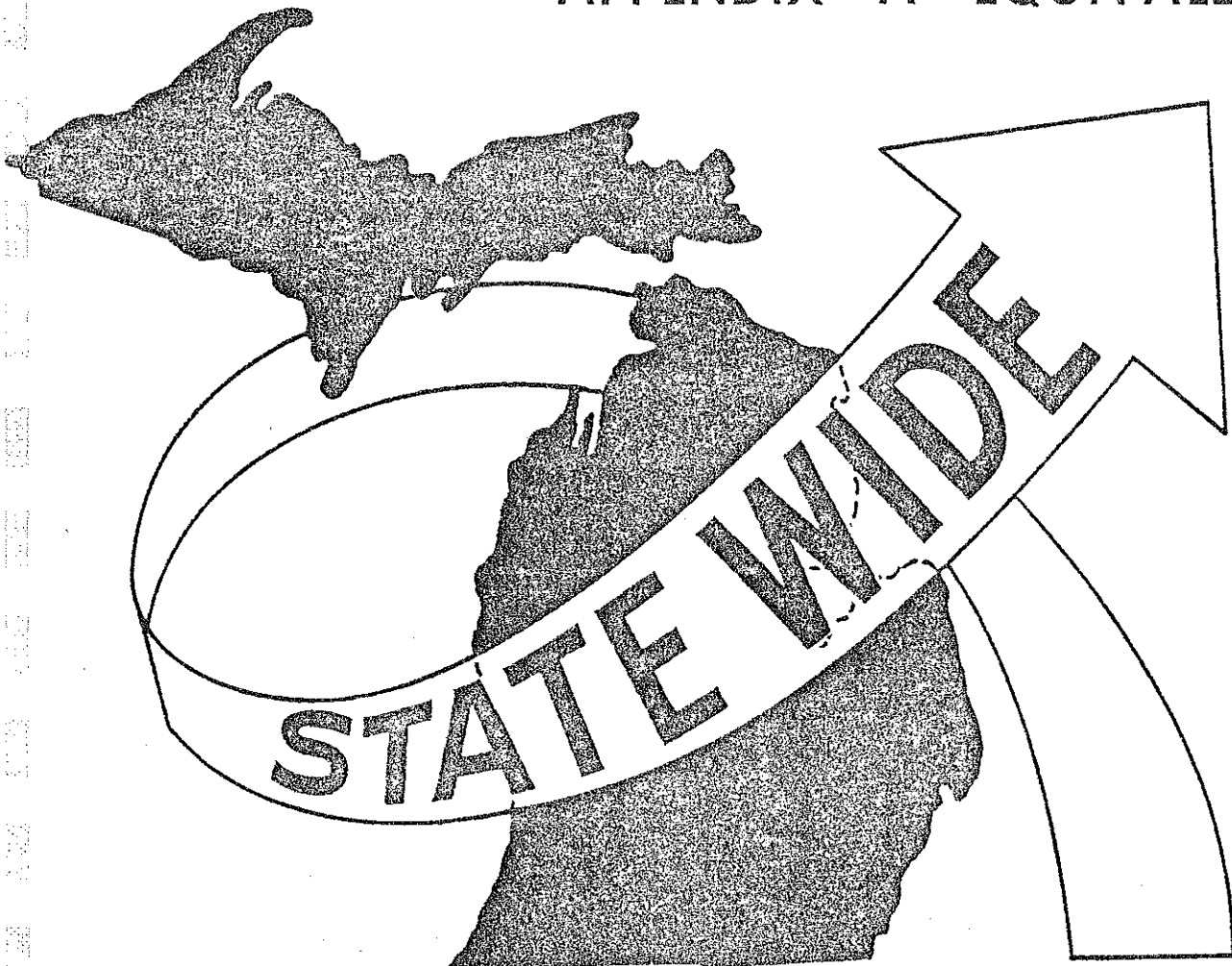
PAGE 8

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																						70.798	70.798	
30																						6.291	77.087	
40																						5.058	82.145	
50																						1.864	84.009	
60																						0.267	84.276	
70																						1.063	85.338	
80																						4.188	89.527	
90																						2.739	92.266	
100																						0.068	92.334	
110																						0.136	92.470	
120																						0.142	92.612	
130																						0.051	92.664	
140																						0.102	92.766	
150																						0.119	92.885	
160																						0.278	93.164	
170																						0.085	93.249	
180																						0.256	93.505	
190																						0.045	93.550	
200																						0.153	93.703	
210																						0.256	93.959	
220																						0.631	94.590	
230																						0.386	94.976	
240																						0.324	95.300	
250																						0.006	95.306	
260																						0.017	95.323	
270																						1.733	97.056	
280																						0.000	97.056	
290																						0.318	97.375	
300																						0.227	97.602	
310																						0.006	97.608	
320																						0.000	97.608	
330																						0.000	97.608	
340																						0.000	97.608	
350																						0.011	97.619	
360																						0.017	97.636	
370																						0.028	97.664	
380																						0.267	97.931	
390																						0.068	98.000	
400																						0.028	98.028	
410																						0.051	98.079	
420																						0.074	98.153	
430																						0.199	98.352	
440																						0.045	98.397	
450																						0.057	98.454	
460																						0.159	98.613	
470																						0.432	99.045	
480																						0.011	99.057	
490																						0.006	99.062	
500																						0.011	99.074	
510																						0.000	99.074	
520																						0.006	99.079	
530																						0.000	99.079	
540																						0.091	99.170	
550																						0.040	99.210	
560																						0.051	99.261	
570																						0.114	99.375	
580																						0.000	99.375	
590																						0.023	99.398	
600																						0.000	99.398	
610																						0.028	99.426	
620																						0.006	99.432	
630																						0.006	99.437	
640																						0.011	99.449	
650																						0.006	99.454	
660																						0.000	99.454	
670																						0.034	99.489	
680																						0.023	99.511	
690																						0.051	99.562	
700																						0.043	99.605	
710																						0.011	99.636	
720																						0.040	99.676	
730																						0.028	99.704	
740																						0.102	99.807	
750																						0.193	100.000	

REMAINING VALUES ARE ALL ZERO
 NUMBER OF OBSERVATIONS= 17597 SUM= 760264 MEAN= 43.204 VAR= 8842.647 SD= 94.1

TOTAL TRIPS OVER MAXP * 34
 TOTAL TRIPS OVER 255 * 0
 VOLUME TABLE NUMBER * 207
 SKIM TREE NUMBER * 101

APPENDIX "A"-EQUIVALENCE LIST



ZONE	COUNTY	TOWNSHIP OR CITY
----	-----	-----
001	ALCONA	ALCONA, CALEDONIA, GREENBUSH, GUSTIN, HARRISVILLE, HAWES,
002	ALCONA	HAYNES, MIKADO, CURTIS, MILLER, 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, MANCERONA, STAR, WARNER.
017	ANTRIM	BANKS, CENTRAL LAKE, ECHO, TORCH LAKE.
018	ANTRIM	CUSTER, ELK RAPIDS, FOREST HOME, HELENA, KEARNEY, MILTON.
019	ARENAC	LINCOLN, STANDISH.
020	ARENAC	AU GRES, SIMS, TURNER, WHITNEY.
021	ARENAC	ADAMS, ARENAC, CLAYTON, DEEP RIVER, MASON, MOFFATT.
022	BARAGA	ARVON, LANSE.
023	BARAGA	BARAGA.
024	BARAGA	COVINGTON, SPURF.
025	BARRY	HASTINGS(CITY).
026	BARRY	CARLTON, CASTLETON, HASTINGS, IRVING, RUTLAND, WOODLAND.
027	BARRY	ASSYRIA, BALTIMORE, BARRY, HOPE, JOHNSTOWN, MAPLE GROVE.
028	BARRY	ORANGEVILLE, PRAIRIEVILLE, THORNAPPLE, YANKEE SPRINGS.
029	RAY	BAY CITY.
030	RAY	BANGOR.
031	RAY	BEAVER, KAWKAWLIN, MONITOR, WILLIAMS.
032	RAY	FRANKENLUST, HAMPTON, MERRITT, PORTSMOUTH.
033	RAY	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, CULOMA, 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, FREDONIA, MARSHALL.
062 CALHOUN	EMMETT.
063 CALHOUN	PENNFIELD.
064 CALHOUN	SHERIDAN.
065 CALHOUN	TEKONSHA.
066 CALHOUN	ALBION(CITY).
067 CALHOUN	MARSHALL(CITY).
068 CASS	DOWAGIAC(CITY).
069 CASS	LA GRANGE, POKAGON, SILVER CREEK, WAYNE.
070 CASS	HOWARD, MILTON.
071 CASS	JEFFERSON, ONTWA.
072 CASS	MARCELLUS, VOLINIA.
073 CASS	NEWBERG, PENN.
074 CASS	CALVIN, MASON, PORTER.
075 CHARLEVOIX	CHARLEVOIX(CITY), PEAINE, ST. JAMES.
076 CHARLEVOIX	BOYNE VALLEY, CHANDLER, HUDSON, MELROSE.
077 CHARLEVOIX	SOUTH ARM, WILSON.
078 CHARLEVOIX	BAY, CHARLEVOIX, EVANGELINE, EVELINE, HAYES, MARION, NORWOOD.
079 CHEBOYGAN	CHEBOYGAN.
080 CHEBOYGAN	BEAUGRAND, BURT, HEBRON, INVERNESS, MACKINAW, MULLETT, MUNRO.
081 CHEBOYGAN	ELLIS, FOREST, KOEHLER, MENTOR, NUNDA, TUSCARORA, WALKER, WAVERLY, WILMOT.
082 CHEBOYGAN	ALOHA, BENTON, GRANT.
083 CHIPPEWA	SAULT STE. MARIE, SUGAR ISLAND.
084 CHIPPEWA	BRUCE, PICKFORD.
085 CHIPPEWA	CHIPPEWA, HULBERT, WHITEFISH.
086 CHIPPEWA	DETOUR, DRUMMOND, RABER.
087 CHIPPEWA	KINROSS, RUDYARD, TROUT LAKE.
088 CHIPPEWA	BAY MILLS, DAFTER, SUPERIOR.
089 CLARE	GRANT, SHERIDAN.
090 CLARE	ARTHUR, FRANKLIN, FROST, HAMILTON, HATTON, HAYES.
091 CLARE	FREEMAN, GARFIELD, GREENWOOD, LINCOLN, REDDING, SUMMERFIELD, SURREY, WINTERFIELD.
092 CLINTON	ST. JOHNS(CITY).
093 CLINTON	BATH.
094 CLINTON	BENGAL, BINGHAM, ESSEX.
095 CLINTON	DALLAS, LEBANON, WESTPHALIA.
096 CLINTON	DUPLAIN, GREENRUSH.
097 CLINTON	EAGLE, RILEY, WATERTOWN.
098 CLINTON	OLIVE, VICTOR.
099 CLINTON	OVID.
100 CLINTON	DEWITT.

101 CRAWFORD	GRAYLING(CITY),
102 CRAWFORD	BEAVER CREEK, FREDERIC, GRAYLING, LOVELLS, MAPLE FOREST, SOUTH BRANCH.
103 DELTA	ESCANABA(CITY),
104 DELTA	BARK RIVER, FORD RIVER,
105 DELTA	BAY DE NOC, ENSIGN, MASONVILLE,
106 DELTA	ESCANABA, WELLS,
107 DELTA	FAIRBANKS, GARDEN, NAHMA,
108 DELTA	BALDWIN, BRAMPTON, CORNELL, MAPLE RIDGE.
109 DICKINSON	IRON MOUNTAIN(CITY),
110 DICKINSON	BREITUNG,
111 DICKINSON	BREEN, FELCH, SAGOLA, WEST BRANCH.
112 DICKINSON	NORWAY, WAUCEDAH.
113 EATON	CHARLOTTE(CITY),
114 EATON	BENTON, BROOKFIELD, EATON,
115 EATON	CARMEL, CHESTER, WALTON.
116 EATON	BELLEVUE, KALAMO.
117 EATON	DELTA.
118 EATON	EATON RAPIDS, HAMLIN.
119 EATON	ONEIDA, ROXAND.
120 EATON	SUNFIELD, VERMONTVILLE.
121 EATON	WINDSOR.
122 EATON	EATON RAPIDS(CITY),
123 EATON	GRAND LEDGE(CITY),
124 EMMET	PETOSKEY(CITY),
125 EMMET	BLISS, CARP LAKE, CROSS VILLAGE, CENTER, MCKINLEY, READMOND, HAWATAM.
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	WATERSHEET.
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, SEVILLE, 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, LAIRO,
 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, SEBEWAING, 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, MASTODON,

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

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

 320 MISSAUKEE LAKE, REEDER, RICHLAND, RIVERSIDE.
 321 MISSAUKEE BLOOMFIELD, CALDWELL, FOREST, PIONEER.
 322 MISSAUKEE AETNA, BUTTERFIELD, CLAM UNION, ENTERPRISE, HOLLAND,
 NORWICH, WEST BRANCH.

 323 MONROE MONROE(CITY).
 324 MONROE BEDFORD.
 325 MONROE BERLIN.
 326 MONROE DUNDEE.
 327 MONROE ERIE.
 328 MONROE EXETER, RAISINVILLE.
 329 MONROE FRENCHTOWN, MONROE.
 330 MONROE IDA, SUMMERFIELD.
 331 MONROE LASALLE.
 332 MONROE LONDON, MILAN.
 333 MONROE ASH.
 334 MONROE WHITEFORD.

 335 MONTCALM GREENVILLE.
 336 MONTCALM BLOOMER, BUSHNELL, CRYSTAL, EVERGREEN.
 337 MONTCALM DAY, FERRIS, HOME, RICHLAND.
 338 MONTCALM EUREKA, FAIRPLAIN, MONTCALM, SIDNEY.
 339 MONTCALM MAPLE VALLEY, PIERSON, REYNOLDS, WINFIELD.
 340 MONTCALM BELVIDERE, CATO, DOUGLASS, PINE.

 341 MONTMORENCY ALBERT, AVERY, BRILEY, HILLMAN, LOUD, MONTMORENCY, RUST,
 VIENNA.

 342 MUSKEGON MUSKEGON(CITY).
 343 MUSKEGON LAKETON.
 344 MUSKEGON MUSKEGON.
 345 MUSKEGON NORTON SHORES.
 346 MUSKEGON BLUE LAKE, HOLTON.
 347 MUSKEGON CASNOVIA, MOORLAND.
 348 MUSKEGON CEDAR CREEK, DALTON.
 349 MUSKEGON EGELSTON.
 350 MUSKEGON FRUITLAND, MONTAGUE, WHITE RIVER, WHITEHALL.
 351 MUSKEGON FRUITPORT, RAVENNA, SULLIVAN.

 352 NEWAGO FREMONT(CITY).
 353 NEWAGO BARTON, BEAVER, DENVER, HOME, LILLEY, MERRILL, MONROE,
 NORWICH, TROY.
 354 NEWAGO BIG PRAIRIE, EVERETT, GOODWELL, LINCOLN, SHERMAN, WILCOX.
 355 NEWAGO BRIDGETON, DAYTON, SHERIDAN.
 356 NEWAGO BROOKS, CROTON, GARFIELD.
 357 NEWAGO ASHLAND, ENSLEY, GRANT.
 358 OAKLAND PONTIAC(CITY).
 359 OAKLAND SOUTHFIELD.
 360 OAKLAND ROYAL OAK TWP, AND THE FOLLOWING CITIES) BERKLEY, CLAWSON,
 FERNOALE, HAZEL PARK, HUNTINGTON WOODS, MADISON HEIGHTS,
 OAK PARK, PLEASANT RIDGE.

 361 OAKLAND BLOOMFIELD.
 362 OAKLAND FARMINGTON.
 363 OAKLAND LYON.
 364 OAKLAND COMMERCE.
 365 OAKLAND HIGHLAND, MILFORD, WHITE LAKE.
 366 OAKLAND WEST BLOOMFIELD.
 367 OAKLAND TROY(CITY).
 368 OAKLAND AVON.
 369 OAKLAND PONTIAC.

371 OAKLAND	HOLLY, ROSE.
372 OAKLAND	GROVELAND, SPRINGFIELD.
373 OAKLAND	BRANDON, INDEPENDENCE.
374 OAKLAND	OAKLAND, ORION.
375 OAKLAND	ADDISON, OXFORD.
376 OCEANA	BENONA, CLAYBANKS, SHELBY.
377 OCEANA	COLFAX, CRYSTAL, ELBRIDGE, HART, LEAVITT, WEARE.
378 OCEANA	FERRY, GRANT, GREENWOOD, NEWFIELD, OTTO.
379 OCEANA	GOLDEN, PENTWATER.
380 OGEMAW	EDWARDS, HORTON, OGEMAW, WEST BRANCH.
381 OGEMAW	CUMMING, FOSTER, GOUDAR, 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, TALLMADGE, WRIGHT.
397 OTTAWA	CROCKERY, POLKTON.
398 OTTAWA	GEORGETOWN, JAMESTOWN.
399 OTTAWA	SPRING LAKE.
400 OTTAWA	GRAND HAVEN, OLIVE, PORT SHELDON, ROBINSON.
401 OTTAWA	ALLENSDALE, 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, RICHFIELD.
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 BURTVILLE, 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, MEMPH.
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), HYANDOTTE(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), REDFORD.
504	WAYNE	
505	WEXFORD	CADILLAC(CITY).
506	WEXFORD	BOON, CHERRY GROVE, CLAM LAKE, HARING, HENDERSON, SOUTH BRANCH, SELMA, SLAGLE.
507	WEXFORD	ANTIOCH, HAMOVER, 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, OUTAGAMIE, SHAWANO, SHEBOYGAN, WAUPACA,
 WINNEBAGO.
 523 WISCONSIN DANE, DOGGE, 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, IRROUOIS,
 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, TAZEVELL, VERMILION, WARREN,
 WHITESIDE, WOODFORD.
 527 ILLINOIS ADAMS, ALEXANDER, BOND, BROWN, CALHOUN, CASS, CLARK, CLAY,
 FAYETTE, FRANKLIN, GALLATIN, GREENE, HAMILTON, HANCOCK,
 CLINTON, CRAWFORD, CUMPERLAND, EDWARDS, EFFINGHAM,
 HARDIN, JACKSON, JASPER, JEFFERSON, JERSEY, JOHNSON,
 LAWRENCE, MACOUPIN, MADISON, MARION, MASSAC, MCDONOUGH,
 MONROE, MONTGOMERY, MORGAN, PERRY, PIKE, POPE, PULASKI,
 RANDOLPH, RICHLAND, SALINE, SCHUYLER, SCOTT, SHELBY,
 ST CLAIR, UNION, WABASH, WASHINGTON, WAYNE, WHITE,
 WILLIAMSON.
 528 INDIANA LAKE, PORTER.
 529 INDIANA LAPORTE, STARKE.
 530 INDIANA MARSHALL, ST JOSEPH.
 531 INDIANA ELKHART, KOSCIUSKO.
 532 INDIANA ALLEN, DE KALB, LAGRANGE, NOBLE, STEUBEN, WHITLEY.
 533 INDIANA ADAMS, BENTON, BLACKFORD, BOONE, CARROLL, CASS, CLINTON,
 DELAWARE, FOUNTAIN, FULTON, GRANT, HENRY, HOWARD,
 HUNTINGTON, JASPER, JAY, MADISON, MIAMI, MONTGOMERY, NEWTON,
 PULASKI, RANDOLPH, TIPPECANOE, TIPTON, WABASH, WARREN,
 WAYNE, WELLS, WHITE.
 534 INDIANA BARTHOLOMEW, BROWN, CLARK, CLAY, CRAWFORD, DAVIESS,
 DEARBORN, DECATUR, DUBOIS, FAYETTE, FLOYD, FRANKLIN, GIBSON,
 GREENE, HAMILTON, HANCOCK, HARRISON, HENDRICKS, JACKSON,
 JEFFERSON, JENNINGS, JOHNSON, KNOX, LAWRENCE, MARION,
 MARTIN, MONROE, MORGAN, OHIO, ORANGE, OWEN, PARKE, PERRY,
 PIKE, POSEY, PUTNAM, RIPLEY, RUSH, SCOTT, SHELBY, SPENCER,
 SULLIVAN, SWITZERLAND, UNION, VANDERBURGH, VERMILLION, VIGO,
 HARRICK, 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 HERT, 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, GUERNSFY,
 HIGHLAND, HOCKING, HOLMES, KNOX, LAWRENCE, LICKING, MADISON,
 MEIGS, MIAMI, MONROE, MONTGOMERY, MORGAN, MORROW, MUSKINGUM,
 NOBLE, PERRY, PICKAWAY, PIKE, PREBLE, RICHLAND, ROSS,
 SCIOTO, TUSCARAWAS, UNION, VINTON, WAYNE.

ZONE

STATE

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