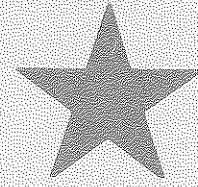


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Statewide



Transportation Analysis & Research

MICHIGAN'S STATEWIDE
TRANSPORTATION MODELING SYSTEM

REFERENCE HANDBOOK NO. 3

MINOR ORIGIN & DESTINATION
TRAVEL CHARACTERISTICS
REGION 7

STATEWIDE PROCEDURES SECTION

SEPTEMBER, 1978



MICHIGAN DEPARTMENT OF STATE HIGHWAYS AND TRANSPORTATION

MICHIGAN DEPARTMENT OF STATE HIGHWAYS AND TRANSPORTATION

BUREAU OF TRANSPORTATION PLANNING

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

MINOR ORIGIN & DESTINATION
TRAVEL CHARACTERISTICS
REGION 7

STATEWIDE PROCEDURES SECTION

SEPTEMBER, 1978

STATE HIGHWAY COMMISSION

PETER B. FLETCHER

Chairman

CARL V. PELLONPAA

Vice Chairman

HANNES MEYERS, JR.

WESTON E. VIVIAN

DIRECTOR

John P. Woodford

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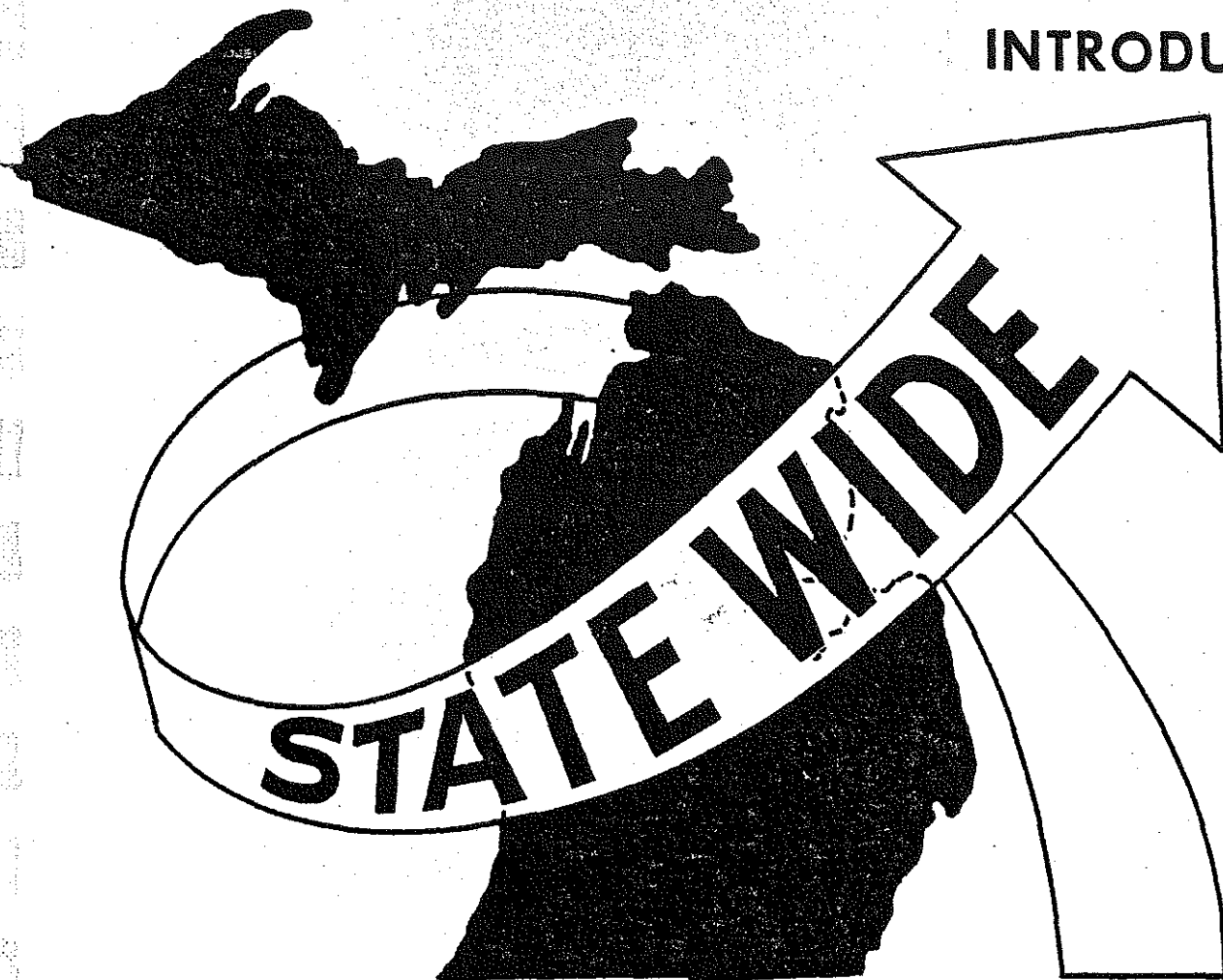
MINOR ORIGIN AND DESTINATION

TRAVEL CHARACTERISTICS

BY: DAVID R SCHADE

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INTRODUCTION



INTRODUCTION

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

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

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

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

STATEWIDE SYSTEM DEVELOPMENT REPORTS

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

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

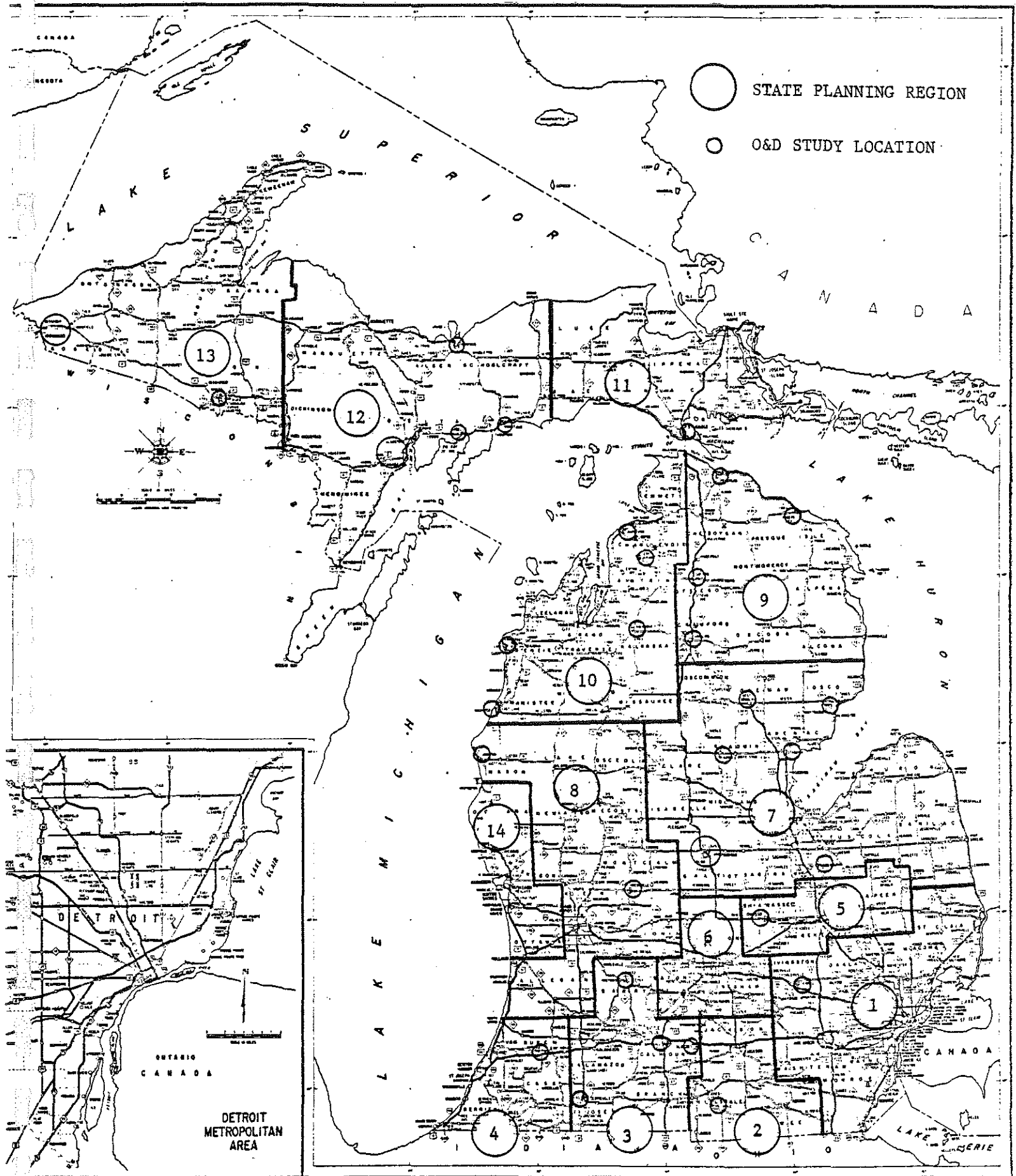
STATEWIDE SYSTEM APPLICATION REPORTS

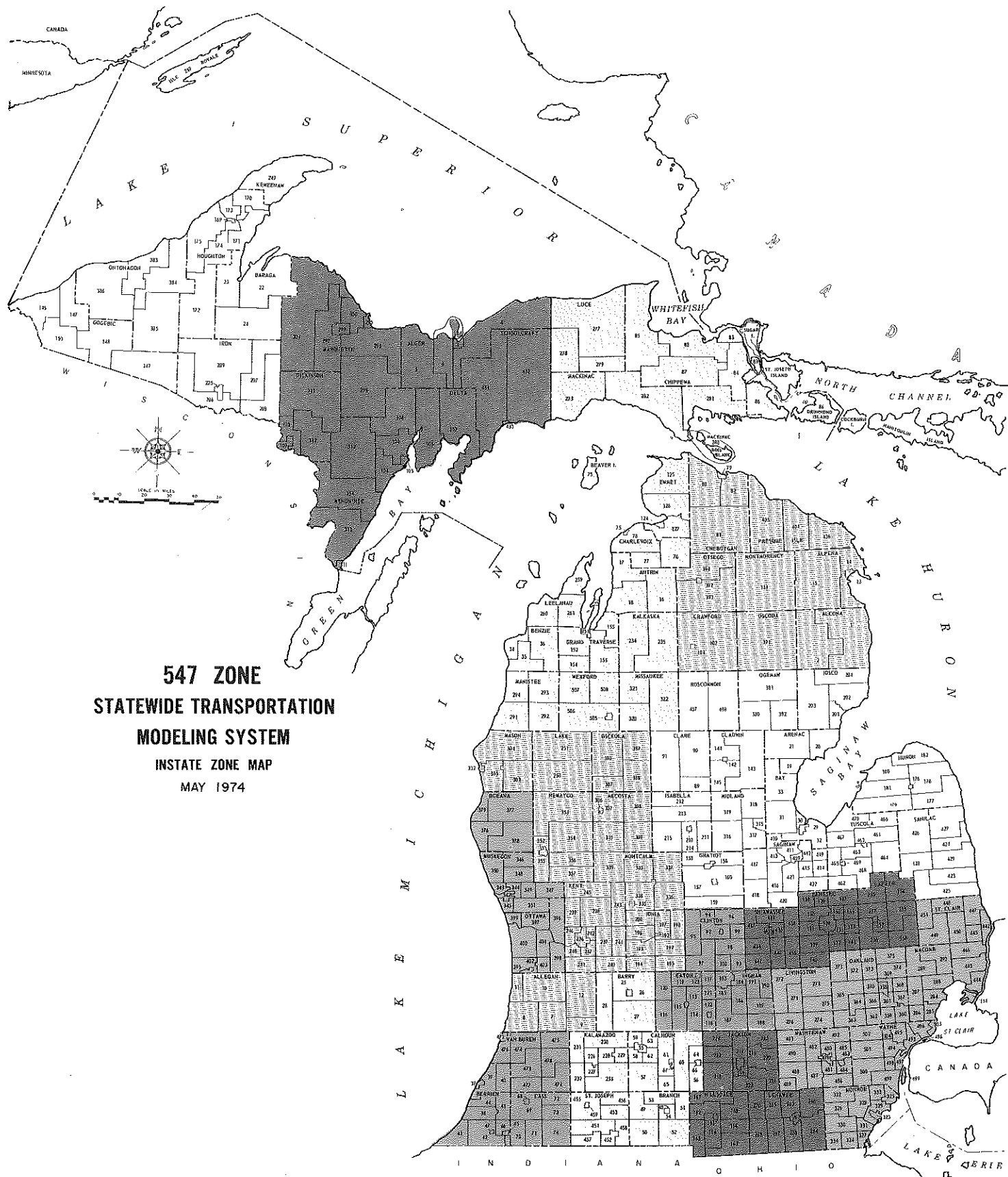
- REPORT 1 - COMMUNITY COLLEGE SERVICE - AREA ANALYSIS
- REPORT 2 - PROXIMITY OF PEOPLE TO GENERAL PURPOSE HOSPITALS
- REPORT 3 - INDUSTRIAL PARK PROXIMITY ANALYSIS
- REPORT 4 - PROXIMITY OF AUTOMOBILE INJURY ACCIDENTS TO HOSPITALS
- REPORT 5 - PROXIMITY OF AIRPORTS WITH SCHEDULED SERVICE TO POPULATION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

STATEWIDE SYSTEM REFERENCE HANDBOOKS

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

FIGURE 1

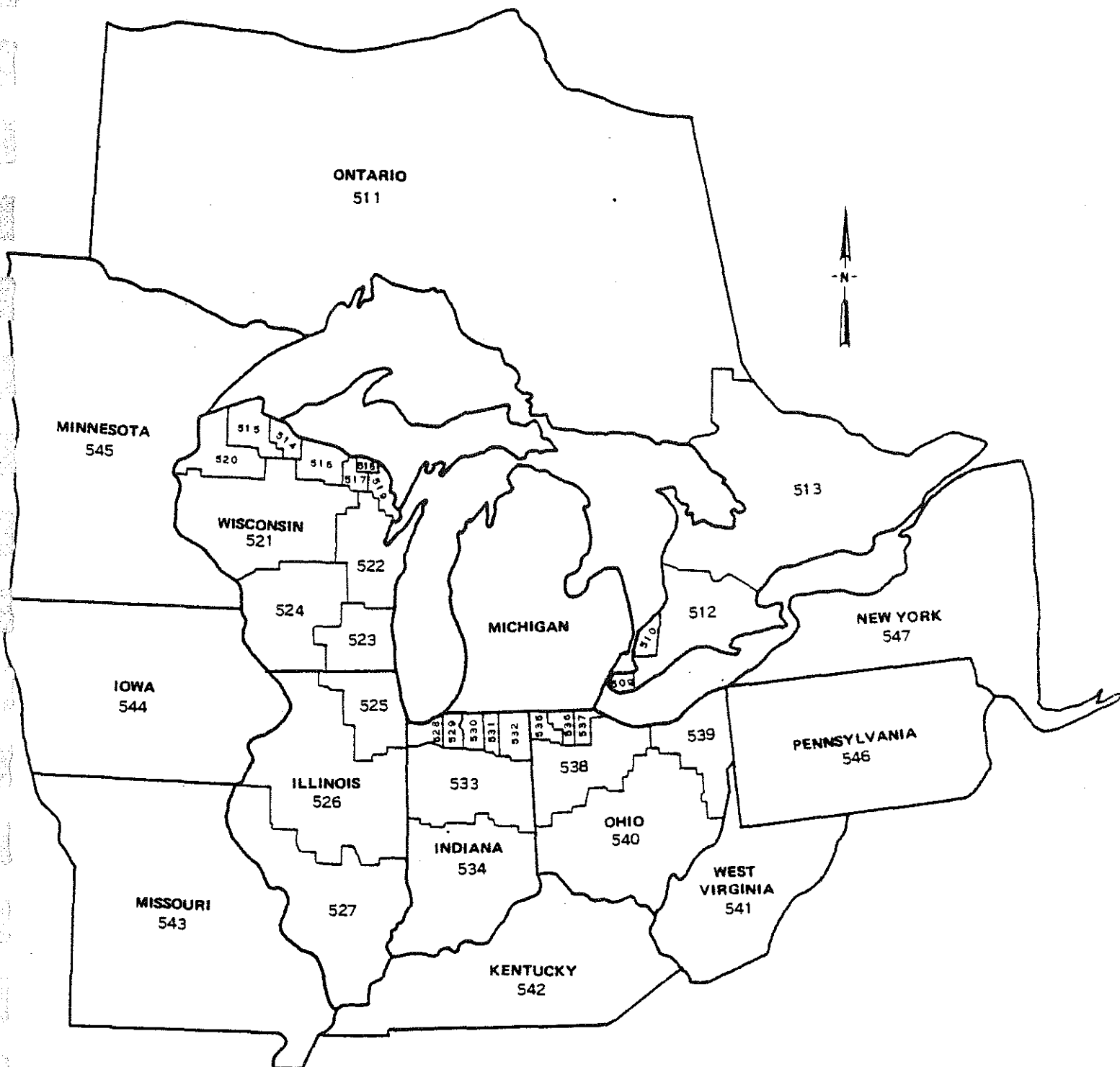




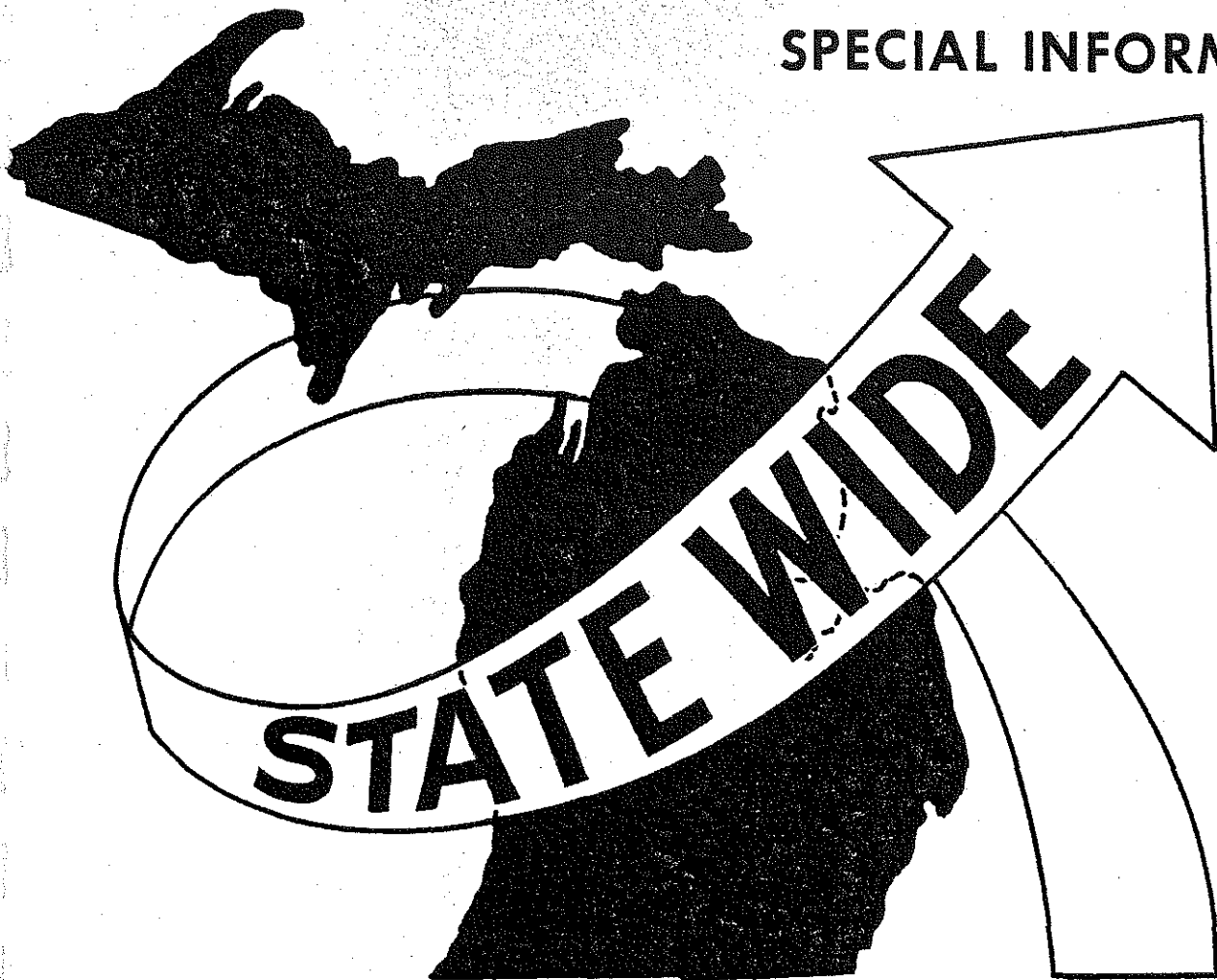
**547 ZONE
STATEWIDE TRANSPORTATION
MODELING SYSTEM
INSTATE ZONE MAP
MAY 1974**

MICHIGAN'S TRANSPORTATION MODELING SYSTEM

547 ZONE OUTSTATE ANALYSIS ZONES



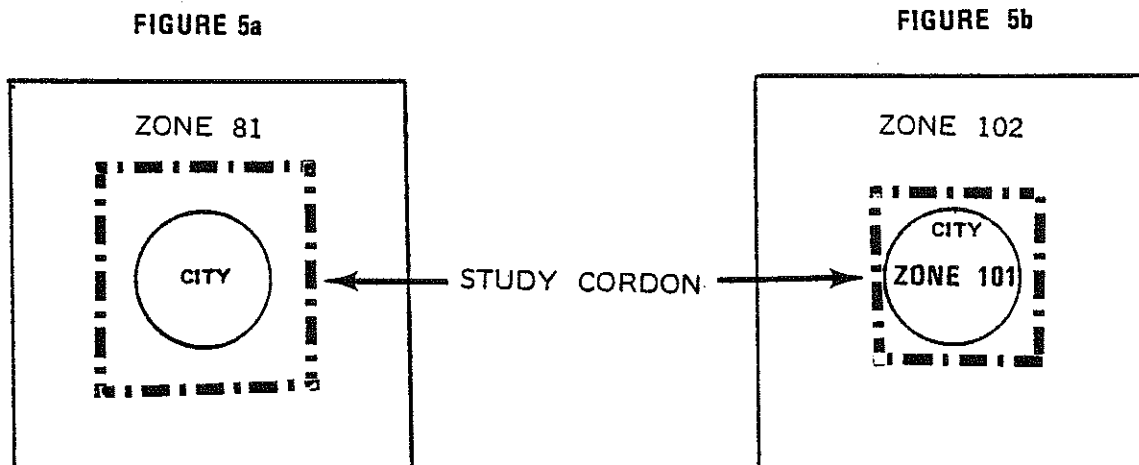
SPECIAL INFORMATION



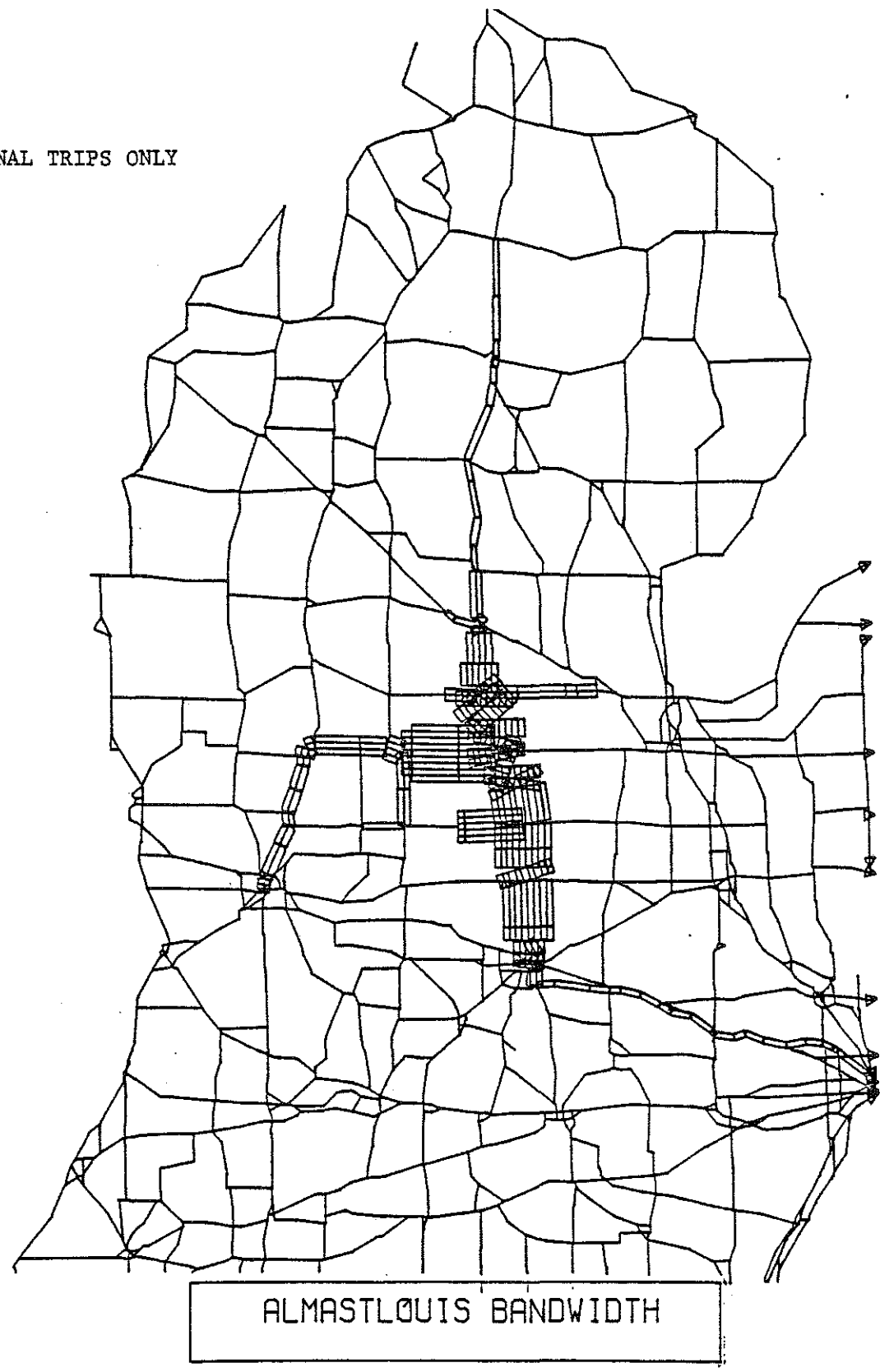
SPECIAL INFORMATION

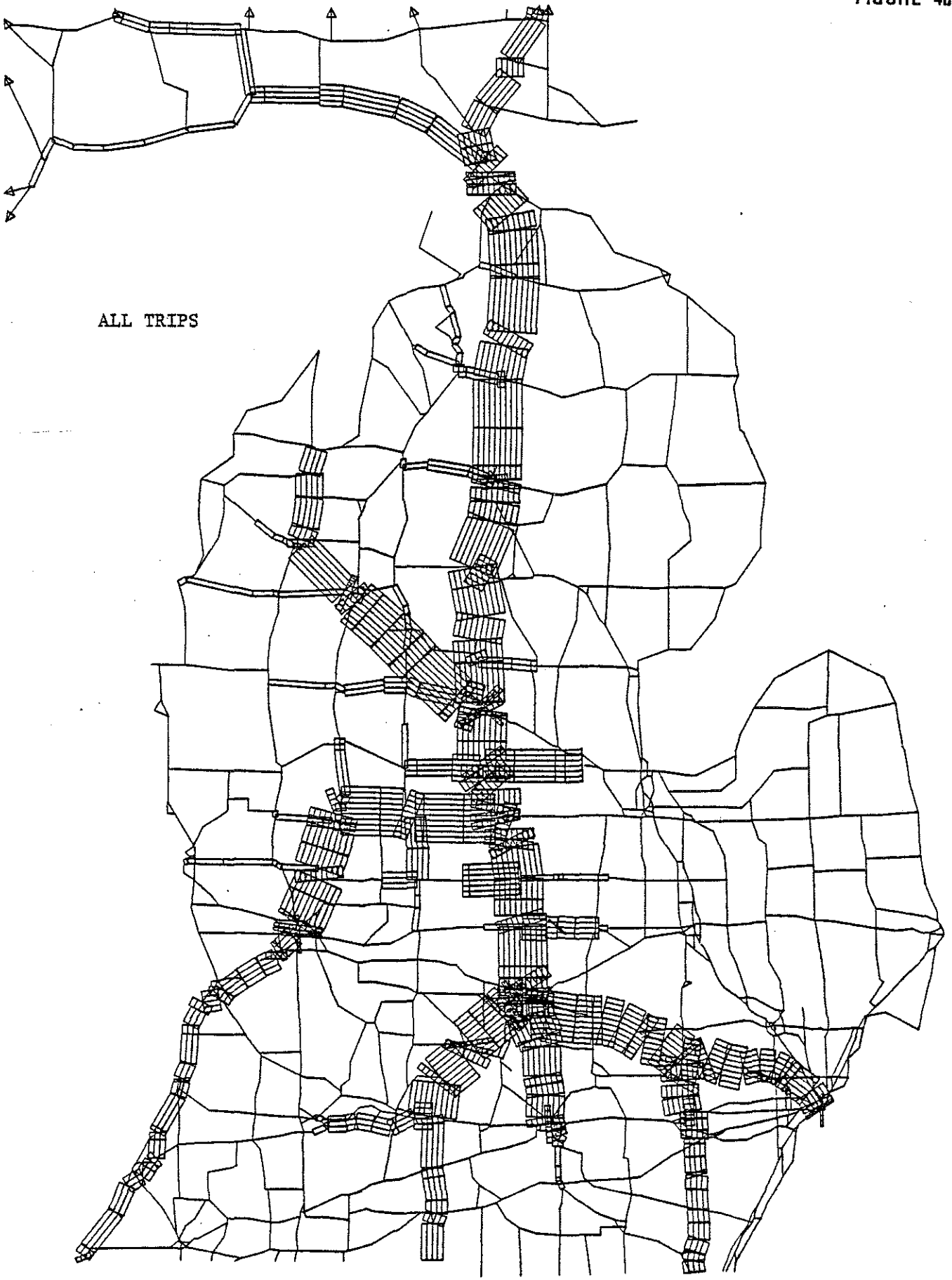
To properly evaluate the following handbook information, it is important to understand how the data is used. Each handbook has been set up to analyze the travel characteristics of minor O&D studies. It was necessary to use only terminal trips to analyze the travel impacts generated as a result of a specific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

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



TERMINAL TRIPS ONLY





ALL TRIPS

ALMASTLOUIS BANDWIDTH

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

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

The following is a brief explanation of the three areas:

General Purpose Summary Program (GPSP)

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

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

Trip Length Distribution (TLD)

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

1. Statewide
2. Regional
3. City

CHEBOYGAN

EXTERNAL ORIGIN-DESTINATION INTERVIEW

TERMINAL-TRIP SUMMARY TABLE

VEHICLE TYPE

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

TRIP PURPOSE

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

NUMBER OF TRIPS

NUMBER IN VEHICLE

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

VEHICLE GARAGED AT

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

TOTAL TRIPS = 11783

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%	36.0%	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	121
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.

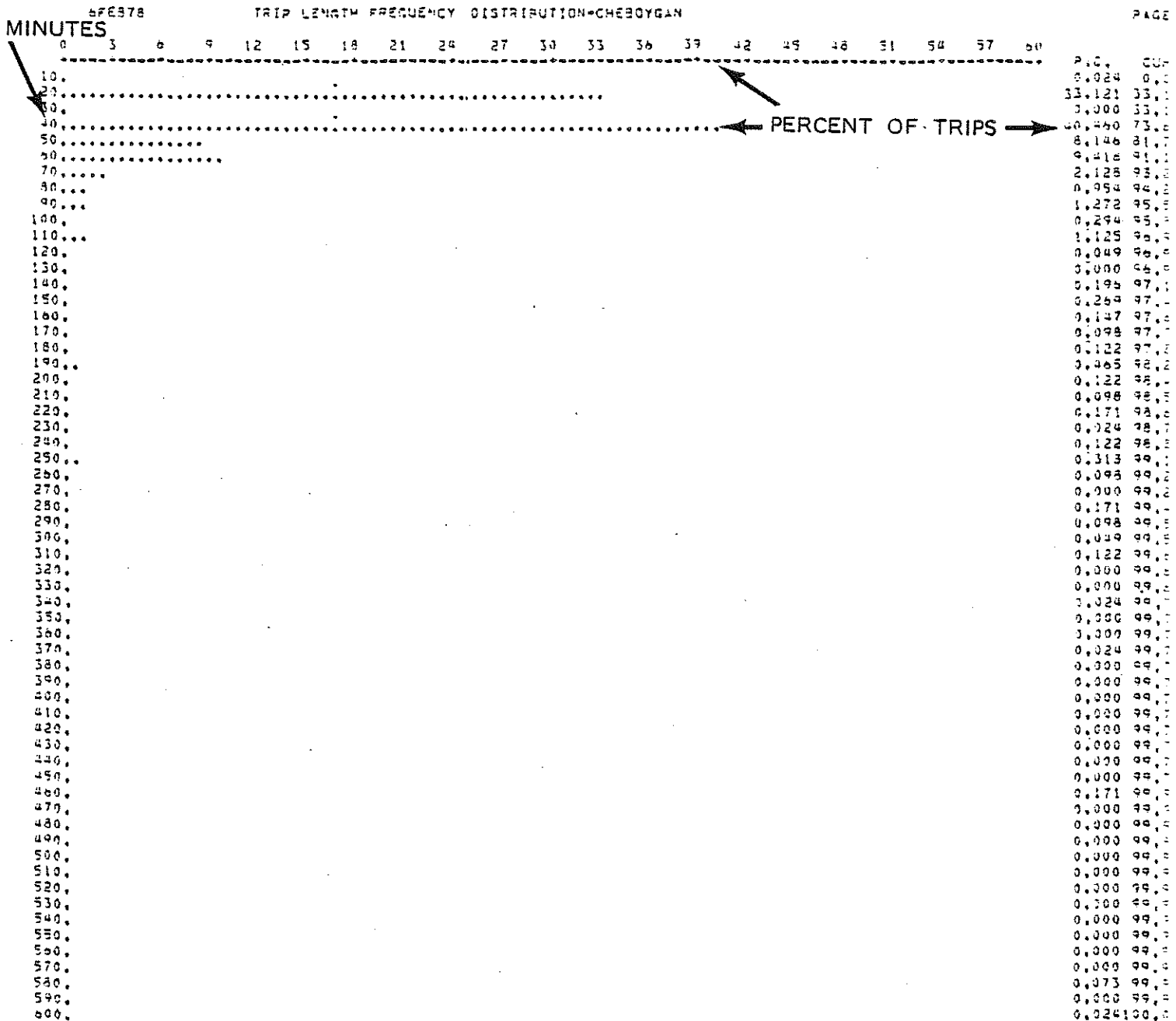
At the bottom left of the TLD, the "volume table number" designates the trip purpose:

- 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= 4028 SUM= 159647. MEAN= 39.653 VAR= 1534.962 SD

TOTAL TRIPS OVER 410 = 0
 TOTAL TRIPS OVER 255 = 0
 VOLUME TABLE NUMBER = 201 ← WORK TRIPS
 SKIM TREE NUMBER = 101

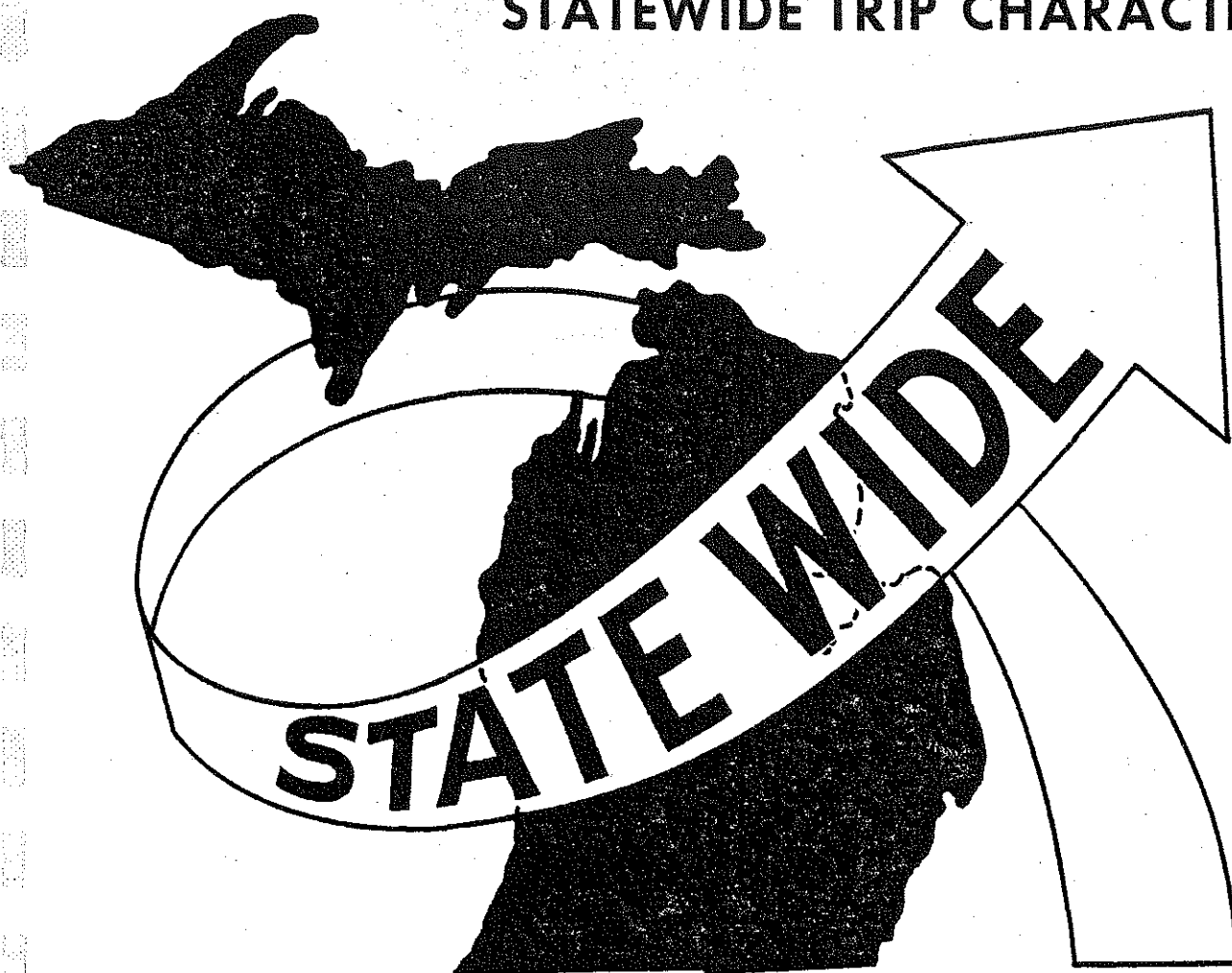
SD=42.8

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% 22203	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
STATE	78.9% 381860	0.9% 4247	14.6% 70806	0.3% 1546	3.7% 17922	1.6% 7884

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

MINOR
EXTERNAL ORIGIN-DESTINATION INTERVIEW
TERMINAL-TRIP SUMMARY TABLE

TRIP PURPOSE

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

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

MINOR

EXTERNAL ORIGIN-DESTINATION INTERVIEW

TERMINAL-TRIP SUMMARY TABLE

NUMBER IN VEHICLE

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

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

MINOR
EXTERNAL ORIGIN-DESTINATION INTERVIEW
TERMINAL-TRIP SUMMARY TABLE

VEHICLE GARAGED AT

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

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

MINOR

EXTERNAL ORIGIN-DESTINATION INTERVIEW

TERMINAL-TRIP SUMMARY TABLE FOR STATE

TRIP PURPOSE

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

TOTAL TERMINAL-TRIPS FOR ALL STUDIES IN REGION = 484264

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

MINOR

EXTERNAL ORIGIN=DESTINATION INTERVIEW

TERMINAL=TRIP SUMMARY TABLE FOR STATE

TRIP PURPOSE

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

TOTAL TERMINAL=TRIPS FOR ALL STUDIES IN REGION = 484264

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

1MAR78 TRIP LENGTH FREQUENCY DISTRIBUTION-TOT

TRIP LENGTH	FREQUENCY	P.C.	CUM.	ACTUAL
0	17	17.038	17.038	31497
1	18	18.697	35.735	59361
2	16	16.806	52.541	31474
3	13	13.858	66.399	25578
4	11	7.157	73.556	13401
5	9	3.848	77.404	7202
6	8	1.948	79.352	3044
7	7	1.501	80.853	2924
8	6	1.170	82.023	2192
9	5	0.637	82.660	1192
10	4	0.908	83.568	1701
11	3	0.591	84.159	1107
12	2	0.399	84.558	742
13	1	0.232	84.790	434
14	1	0.214	85.004	400
15	1	0.372	85.376	692
16	1	0.140	85.516	262
17	1	0.140	85.656	272
18	1	0.173	85.829	322
19	1	0.135	85.964	252
20	1	0.075	86.039	141
21	1	0.088	86.127	162
22	1	0.133	86.260	252
23	1	0.075	86.335	141
24	1	0.138	86.473	252
25	1	0.001	86.474	112
26	1	0.056	86.530	104
27	1	0.029	86.559	52
28	1	0.059	86.618	112
29	1	0.030	86.648	52
30	1	0.022	86.670	42
31	1	0.038	86.708	72
32	1	0.026	86.734	42
33	1	0.024	86.758	42
34	1	0.034	86.792	62
35	1	0.014	86.806	22
36	1	0.034	86.840	62
37	1	0.011	86.851	22
38	1	0.010	86.861	12
39	1	0.014	86.875	22
40	1	0.004	86.879	22
41	1	0.011	86.890	22
42	1	0.008	86.898	12
43	1	0.034	86.932	62
44	1	0.012	86.944	22
45	1	0.015	86.959	22
46	1	0.017	86.976	32
47	1	0.006	86.982	12
48	1	0.011	86.993	22
49	1	0.005	86.998	12
50	1	0.004	87.002	12
51	1	0.008	87.010	12
52	1	0.002	87.012	12
53	1	0.002	87.014	12
54	1	0.006	87.020	12
55	1	0.003	87.023	12
56	1	0.005	87.028	12
57	1	0.002	87.030	12
58	1	0.008	87.038	12
59	1	0.006	87.044	12
60	1	0.003	87.047	12
61	1	0.003	87.050	12
62	1	0.003	87.053	12
63	1	0.002	87.055	12
64	1	0.008	87.063	12
65	1	0.006	87.069	12
66	1	0.003	87.072	12
67	1	0.005	87.077	12
68	1	0.001	87.078	12
69	1	0.004	87.082	12
70	1	0.004	87.086	12
71	1	0.000	87.086	12
72	1	0.000	87.086	12
73	1	0.001	87.087	12
74	1	0.001	87.088	12
75	1	0.002	87.090	12
76	1	0.001	87.091	12
77	1	0.001	87.092	12
78	1	0.005	87.097	12
79	1	0.001	87.098	12
80	1	0.000	87.098	12
81	1	0.000	87.098	12
82	1	0.000	87.098	12
83	1	0.002	87.099	12
84	1	0.000	87.099	12
85	1	0.000	87.099	12
86	1	0.002	87.100	12
87	1	0.000	87.100	12

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

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

WORK TRIPS

1MART6 TRIP LENGTH FREQUENCY DISTRIBUTION-TOT

TRIP LENGTH	FREQUENCY	P.C.	CUM.	ACTUAL
0	19,028	19.028	19.028	749
2	35,341	54.369	73.397	1392
4	17,227	71.596	90.624	678
6	12,596	84.192	93.220	496
8	4,900	89.092	98.120	193
10	3,007	92.099	101.127	118
12	1,540	93.639	102.667	60
14	1,108	94.745	103.775	43
16	0.812	95.557	104.587	32
18	0.447	96.004	105.034	19
20	0.787	96.811	105.821	31
22	0.370	97.201	106.191	14
24	0.279	97.480	106.470	11
26	0.186	97.666	106.656	7
28	0.218	97.884	106.874	8
30	0.520	98.404	107.394	20
32	0.140	98.544	107.534	5
34	0.119	98.663	107.653	6
36	0.165	98.828	107.818	6
38	0.157	98.985	108.075	5
40	0.100	99.071	108.175	4
42	0.084	99.155	108.259	3
44	0.063	99.218	108.322	2
46	0.069	99.287	108.391	2
48	0.069	99.355	108.460	2
50	0.071	99.427	108.531	2
52	0.069	99.515	108.600	3
54	0.036	99.551	108.636	1
56	0.023	99.574	108.659	1
58	0.053	99.627	108.712	2
60	0.020	99.647	108.732	1
62	0.026	99.673	108.758	1
64	0.025	99.701	108.783	1
66	0.028	99.728	108.811	1
68	0.025	99.754	108.836	1
70	0.000	99.754	108.836	0
72	0.020	99.774	108.856	0
74	0.005	99.779	108.861	0
76	0.005	99.784	108.866	0
78	0.005	99.789	108.871	0
80	0.008	99.797	108.879	0
82	0.018	99.815	108.897	0
84	0.013	99.827	108.910	0
86	0.005	99.833	108.915	0
88	0.005	99.838	108.920	0
90	0.010	99.848	108.930	0
92	0.020	99.868	108.950	0
94	0.008	99.876	108.958	0
96	0.000	99.876	108.958	0
98	0.010	99.886	108.968	0
100	0.005	99.891	108.973	0
102	0.013	99.904	108.986	0
104	0.004	99.911	108.990	0
106	0.006	99.919	108.996	0
108	0.000	99.919	108.996	0
110	0.005	99.924	109.001	0
112	0.005	99.929	109.006	0
114	0.005	99.934	109.011	0
116	0.008	99.942	109.019	0
118	0.001	99.944	109.020	0
120	0.005	99.949	109.025	0
122	0.010	99.959	109.035	0
124	0.000	99.959	109.035	0
126	0.005	99.964	109.040	0
128	0.000	99.964	109.040	0
130	0.015	99.980	109.055	0
132	0.003	99.982	109.058	0
134	0.008	99.990	109.066	0
136	0.005	99.995	109.071	0
138	0.000	99.995	109.071	0
140	0.000	99.995	109.071	0
142	0.000	99.995	109.071	0
144	0.000	99.995	109.071	0
146	0.000	99.995	109.071	0
148	0.000	99.995	109.071	0
150	0.005100,000			

MINING VALUES ARE ALL ZERO
 NUMBER OF OBSERVATIONS* 39410 SUM* 1165781 MEAN* 29.581 VAR* 1678.348 SD* 40.968

L TRIPS OVER MAXP * 2
 L TRIPS OVER 245 * 0
 THE TABLE NUMBER * 202
 TREE NUMBER * 101

PERS. BUSINESS TRIPS

IMART8 TRIP LENGTH FREQUENCY DISTRIBUTION-TOT

TRIP LENGTH	FREQUENCY	P.C.	CUM.	ACTUAL
0			
2			
4			
6			
8			
10			
12			
14			
16			
18			
20			
22			
24			
26			
28			
30			
32			
34			
36			
38			
40			
10	20.889	20.889	2102
20	37.583	58.473	3782
30	15.472	73.944	1557
40	12.236	86.181	1231
50	4.405	90.586	483
60	2.457	93.044	247
70	0.927	94.971	93
80	1.850	96.821	108
90	0.554	97.375	55
100	0.263	97.638	26
110	0.862	98.500	86
120	0.288	98.788	29
130	0.281	99.069	28
140	0.215	99.284	21
150	0.064	99.348	6
160	0.199	99.547	20
170	0.063	99.610	6
180	0.125	99.735	12
190	0.180	99.915	18
200	0.106	100.021	10
210	0.095	100.116	9
220	0.067	100.183	6
230	0.178	100.361	17
240	0.090	100.451	9
250	0.093	100.544	9
260	0.201	100.745	20
270	0.075	100.820	7
280	0.049	100.869	4
290	0.023	100.892	2
300	0.079	100.971	7
310	0.063	101.034	6
320	0.022	101.056	2
330	0.044	101.100	4
340	0.010	101.110	1
350	0.013	101.123	1
360	0.010	101.133	1
370	0.042	101.175	4
380	0.105	101.280	10
390	0.022	101.302	2
400	0.011	101.313	1
410	0.040	101.353	4
420	0.012	101.365	1
430	0.008	101.373	0
440	0.023	101.396	2
450	0.018	101.414	1
460	0.017	101.431	1
470	0.001	101.432	0
480	0.003	101.435	0
490	0.008	101.443	0
500	0.013	101.456	1
510	0.001	101.457	0
520	0.011	101.468	1
530	0.006	101.474	0
540	0.002	101.476	0
550	0.008	101.484	0
560	0.003	101.487	0
570	0.003	101.490	0
580	0.003	101.493	0
590	0.000	101.493	0
600	0.001	101.494	0
610	0.001	101.495	0
620	0.003	101.498	0
630	0.000	101.498	0
640	0.000	101.498	0
650	0.002	101.499	0
660	0.000	101.499	0
670	0.004	101.503	0
680	0.000	101.503	0
690	0.002	101.505	0
700	0.001	101.506	0
710	0.000	101.506	0
720	0.000	101.506	0
730	0.000	101.506	0
740	0.000	101.506	0
750	0.000	101.506	0

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

L TRIPS OVER MAXP * 0
 L TRIPS OVER 255 * 0
 ME TABLE NUMBER * 203
 TREE NUMBER * 101

SHOPPING TRIPS

1MART8 TRIP LENGTH FREQUENCY DISTRIBUTION-TOT

TRIP LENGTH	FREQUENCY	P.C.	CUM.	ACTUAL
0			
10	5.003	5.003	119
20	6.715	11.718	182
30	5.592	17.310	117
40	12.167	29.477	285
50	3.342	32.819	78
60	7.038	39.857	160
70	2.565	42.422	53
80	5.507	47.929	115
90	4.105	52.034	86
100	1.830	53.864	38
110	3.280	57.144	98
120	1.778	58.922	37
130	2.207	61.129	46
140	1.754	62.883	36
150	0.882	63.765	14
160	2.532	66.297	53
170	1.440	67.737	30
180	1.411	69.148	29
190	1.874	71.022	39
200	1.383	72.405	29
210	1.545	73.950	32
220	0.858	74.808	13
230	1.520	76.328	32
240	1.235	77.563	25
250	1.210	78.773	25
260	1.769	80.542	37
270	1.492	82.034	31
280	0.987	83.021	20
290	0.853	83.874	17
300	1.125	85.000	23
310	0.968	85.968	20
320	0.806	86.774	16
330	1.087	87.861	22
340	0.234	88.095	5
350	0.462	88.557	9
360	0.319	88.876	6
370	0.420	89.296	8
380	0.277	89.573	5
390	0.319	89.892	6
400	0.290	90.182	6
410	0.267	90.449	5
420	0.466	90.915	10
430	0.305	91.220	6
440	1.025	92.245	21
450	0.467	92.712	9
460	0.191	92.903	4
470	0.343	93.246	7
480	0.324	93.570	6
490	0.200	93.770	4
500	0.178	93.948	3
510	0.234	94.182	5
520	0.391	94.573	8
530	0.038	94.611	1
540	0.391	95.002	8
550	0.180	95.182	4
560	0.138	95.320	3
570	0.143	95.463	3
580	0.033	95.496	1
590	0.110	95.606	2
600	0.024	95.630	1
610	0.243	95.873	5
620	0.065	95.938	1
630	0.091	96.029	1
640	0.029	96.058	1
650	0.024	96.082	1
660	0.018	96.100	1
670	0.200	96.300	4
680	0.010	96.290	1
690	0.119	96.409	2
700	0.057	96.466	1
710	0.010	96.476	1
720	0.029	96.505	1
730	0.057	96.562	1
740	0.057	96.619	1
750	0.415	97.034	9

MINING VALUES ARE ALL ZERO
 NO OF OBSERVATIONS= 21975 SUM= 2821726 MEAN= 134.528 VAR= 20258.672 SD= 142.333

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

VACATION TRIPS

1MART8 TRIP LENGTH FREQUENCY DISTRIBUTION-TOT

TRIP LENGTH	FREQUENCY	P.C.	CUM.	ACTUAL
0	17.917	17.917	1449
10	34.365	52.282	2782
20	15.558	67.840	1258
30	10.738	78.578	868
40	4.744	83.322	363
50	1.420	84.742	270
60	1.867	86.609	138
70	1.808	88.417	129
80	1.175	91.210	95
90	0.755	91.965	59
100	1.849	93.814	133
110	0.787	94.601	61
120	0.866	95.467	53
130	0.828	96.295	34
140	0.377	96.672	30
150	0.492	97.164	39
160	0.264	97.428	21
170	0.240	97.668	19
180	0.374	98.042	30
190	0.292	98.334	23
200	0.197	98.531	15
210	0.110	98.641	10
220	0.251	98.892	20
230	0.159	99.051	12
240	0.187	99.238	15
250	0.185	99.423	15
260	0.137	99.560	11
270	0.053	99.613	4
280	0.125	99.738	10
290	0.091	99.829	7
300	0.087	99.916	7
310	0.061	99.977	4
320	0.069	99.999	5
330	0.016	99.999	1
340	0.044	99.999	3
350	0.017	99.999	1
360	0.052	99.999	4
370	0.027	99.999	2
380	0.028	99.999	2
390	0.025	99.999	2
400	0.007	99.999	1
410	0.047	99.999	3
420	0.025	99.999	2
430	0.060	99.999	6
440	0.023	99.999	1
450	0.015	99.999	1
460	0.042	99.999	3
470	0.022	99.999	1
480	0.019	99.999	1
490	0.026	99.999	2
500	0.041	99.999	3
510	0.016	99.999	1
520	0.002	99.999	1
530	0.026	99.999	2
540	0.021	99.999	1
550	0.009	99.999	1
560	0.010	99.999	1
570	0.004	99.999	1
580	0.004	99.999	1
590	0.004	99.999	1
600	0.010	99.999	1
610	0.009	99.999	1
620	0.004	99.999	1
630	0.010	99.999	1
640	0.006	99.999	1
650	0.026	99.999	2
660	0.000	99.999	0
670	0.007	99.999	1
680	0.001	99.999	1
690	0.000	99.999	0
700	0.000	99.999	0
710	0.000	99.999	0
720	0.001	99.999	1
730	0.002	99.999	1
740	0.000	99.999	0
750	0.005	99.999	1
760	0.023	100.000	1

MISSING VALUES ARE ALL ZERO
 NUMBER OF OBSERVATIONS: 21968 SUM = 3028356 MEAN = 37.430 VAR = 3367.270 SD = 58.028
 L TRIPS OVER MAXP = 19
 L TRIPS OVER 255 = 0
 THE TABLE NUMBER = 205
 TREE NUMBER = 101

OTHER SOC. OR REC. TRIPS

14ART8 TRIP LENGTH FREQUENCY DISTRIBUTION-TOT

TRIP LENGTH	FREQUENCY	F.C.	CUM.	ACTUAL
0	20,480	20,480	20,480	1050
2	15,125	55,583	55,583	1800
4	15,978	71,561	71,561	8200
6	11,242	82,803	82,803	5700
8	5,050	87,853	87,853	2500
10	2,807	90,659	90,659	1400
12	1,513	91,972	91,972	800
14	1,190	93,162	93,162	400
16	0,861	94,005	94,005	200
18	0,510	94,516	94,516	100
20	0,795	95,310	95,310	50
22	0,871	96,181	96,181	20
24	0,547	96,728	96,728	10
26	0,251	96,979	96,979	5
28	0,259	97,238	97,238	2
30	0,545	97,784	97,784	1
32	0,146	97,932	97,932	1
34	0,179	98,111	98,111	1
36	0,208	98,319	98,319	1
38	0,105	98,424	98,424	1
40	0,105	98,530	98,530	1
42	0,082	98,611	98,611	1
44	0,156	98,767	98,767	1
46	0,107	98,874	98,874	1
48	0,175	99,050	99,050	1
50	0,109	99,159	99,159	1
52	0,105	99,264	99,264	1
54	0,067	99,331	99,331	1
56	0,082	99,392	99,392	1
58	0,065	99,437	99,437	1
60	0,027	99,464	99,464	1
62	0,029	99,494	99,494	1
64	0,058	99,552	99,552	1
66	0,019	99,572	99,572	1
68	0,025	99,597	99,597	1
70	0,014	99,610	99,610	1
72	0,031	99,642	99,642	1
74	0,019	99,661	99,661	1
76	0,010	99,671	99,671	1
78	0,014	99,684	99,684	1
80	0,016	99,700	99,700	1
82	0,019	99,720	99,720	1
84	0,021	99,741	99,741	1
86	0,019	99,760	99,760	1
88	0,012	99,772	99,772	1
90	0,008	99,799	99,799	1
92	0,021	99,821	99,821	1
94	0,019	99,840	99,840	1
96	0,012	99,852	99,852	1
98	0,016	99,870	99,870	1
100	0,018	99,887	99,887	1
102	0,006	99,893	99,893	1
104	0,006	99,899	99,899	1
106	0,006	99,905	99,905	1
108	0,006	99,910	99,910	1
110	0,006	99,914	99,914	1
112	0,008	99,922	99,922	1
114	0,000	99,922	99,922	1
116	0,002	99,924	99,924	1
118	0,006	99,932	99,932	1
120	0,010	99,942	99,942	1
122	0,000	99,942	99,942	1
124	0,002	99,944	99,944	1
126	0,014	99,957	99,957	1
128	0,000	99,957	99,957	1
130	0,012	99,969	99,969	1
132	0,000	99,969	99,969	1
134	0,002	99,971	99,971	1
136	0,010	99,981	99,981	1
138	0,000	99,981	99,981	1
140	0,004	99,984	99,984	1
142	0,008	99,992	99,992	1
144	0,002	99,998	99,998	1
146	0,000	100,000	100,000	1

INING VALUES ARE ALL ZERO
 EP OF OBSERVATIONS: 51145 SUM= 1622116 MEAN= 31.592 VAR= 2262.102 SD= 47.562

L TRIPS OVER 144P = 3
 L TRIPS OVER 265 = 0
 ME TABLE NUMBER = 206
 TREE NUMBER = 101

ALL OTHER TRIPS

INAR78 TRIP LENGTH FREQUENCY DISTRIBUTION-TOT

U	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	08021
20																					33.040	51.070	158793
30																					15.773	66.843	75798
40																					12.458	79.301	59868
50																					5.881	85.182	27302
60																					3.470	88.653	16070
70																					1.813	90.466	7750
80																					1.583	92.049	7512
90																					1.108	93.157	5315
100																					0.802	93.959	2891
110																					1.105	95.064	5308
120																					0.824	95.888	3000
130																					0.504	96.392	2420
140																					0.326	96.718	1587
150																					0.244	96.962	1173
160																					0.481	97.443	2310
170																					0.202	97.645	972
180																					0.214	97.859	1029
190																					0.288	98.147	1373
200																					0.207	98.354	990
210																					0.170	98.524	815
220																					0.114	98.638	549
230																					0.220	98.858	1057
240																					0.186	99.044	702
250																					0.182	99.226	876
260																					0.192	99.418	921
270																					0.144	99.562	692
280																					0.081	99.643	391
290																					0.097	99.740	460
300																					0.102	99.842	490
310																					0.083	99.925	399
320																					0.070	99.995	337
330																					0.087	99.998	417
340																					0.029	99.999	138
350																					0.046	99.999	233
360																					0.026	99.999	125
370																					0.034	99.999	260
380																					0.025	99.999	118
390																					0.029	99.999	137
400																					0.027	99.999	129
410																					0.017	99.999	80
420																					0.039	99.999	199
430																					0.026	99.999	123
440																					0.082	99.999	393
450																					0.028	99.999	123
460																					0.022	99.999	105
470																					0.033	99.999	157
480																					0.024	99.999	114
490																					0.019	99.999	91
500																					0.019	99.999	89
510																					0.021	99.999	102
520																					0.027	99.999	129
530																					0.038	99.999	28
540																					0.025	99.999	122
550																					0.015	99.999	72
560																					0.010	99.999	48
570																					0.010	99.999	46
580																					0.007	99.999	33
590																					0.008	99.999	36
600																					0.005	99.999	23
610																					0.015	99.999	74
620																					0.007	99.999	35
630																					0.006	99.999	31
640																					0.002	99.999	12
650																					0.008	99.999	36
660																					0.001	99.999	7
670																					0.013	99.999	63
680																					0.002	99.999	9
690																					0.008	99.999	46
700																					0.005	99.999	22
710																					0.001	99.999	3
720																					0.002	99.999	10
730																					0.003	99.999	16
740																					0.004	99.999	21
750																					0.028100.000	134	

MINING VALUES ARE ALL ZERO
 NO OF OBSERVATIONS= 480547

SUM= 17521382. MEAN= 36.461 VAR= 3294.507 SD= 57.398

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

TOTAL TRIPS

MINOR ORIGIN AND DESTINATION STUDIES

MEAN TRIP LENGTHS BY PURPOSE

REGION 1

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

REGION 2

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

REGION 3

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

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

REGION 4

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

REGION 5

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

REGION 7

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

REGION 8

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

REGION 9

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

REGION 10

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

REGION 11

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

REGION 12

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

REGION 13

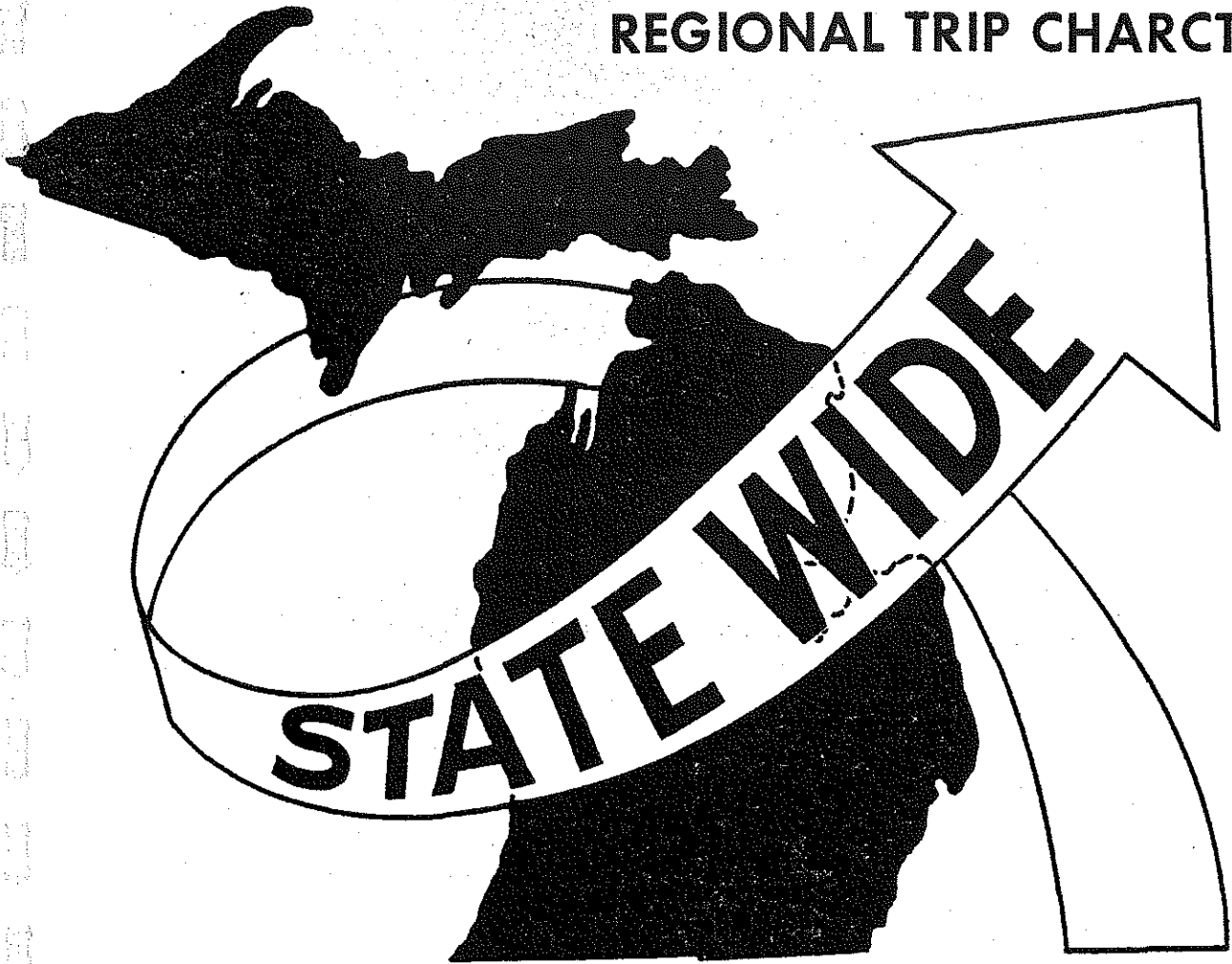
<u>TRIP PURPOSE</u>	<u>MINUTES</u>	<u>PERCENT OF TOTAL TRIPS</u>
1	42	30
2	35	7
3	24	24
4	179	7
5	40	21
6	37	12
ALL	46	

STATEWIDE AVERAGE

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

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REGIONAL TRIP CHARACTERISTICS



REGION 7

EXTERNAL ORIGIN-DESTINATION INTERVIEW

TERMINAL-TRIP SUMMARY TABLE

VEHICLE TYPE

CAR W/O TRLR	CAR W/ TRLR	PICK-UP W/O/TRLR	PICK-UP W/ TRLR	SINGLE-UNIT TRUCKS	COMBINATION TRUCKS
78.2%	0.8%	14.9%	0.3%	3.8%	2.0%
59205	587	11257	254	2898	1495

TRIP PURPOSE

WORK	PERS BIZ	SHOP	VACATION	SOC-REC	OTHER
39.1%	10.0%	20.8%	3.2%	16.1%	10.9%
29581	7549	15707	2422	12202	8233

NUMBER IN VEHICLE

1	2	3	4	5	6+
54.2%	25.9%	9.8%	5.7%	2.5%	2.0%
40990	19605	7382	4326	1857	1536

VEHICLE GARAGED AT

ORIGIN	DESTIN	OTHER
44.3%	35.2%	20.6%
33523	26615	15557

TOTAL TRIPS = 75696

MINOR

EXTERNAL ORIGIN-DESTINATION INTERVIEW
TERMINAL-TRIP SUMMARY TABLE FOR REGION 7

TRIP PURPOSE

# IN VEH.	WORK	PERS BIZ	SHOP	VACATION	SOC=REC	OTHER
1	80.5% 23959	46.9% 3566	37.6% 5955	8.6% 235	33.8% 4206	40.1% 3330
2	14.5% 4313	32.0% 2439	33.8% 5352	38.8% 1056	33.0% 4101	32.7% 2713
3	3.2% 963	11.1% 846	14.5% 2294	17.4% 474	14.6% 1810	13.8% 1143
4	1.2% 371	5.9% 448	8.3% 1313	19.0% 517	9.4% 1174	7.6% 633
5	0.4% 118	2.7% 208	3.3% 527	8.4% 229	4.5% 553	3.3% 272
6+	0.2% 56	1.4% 103	2.6% 416	7.8% 212	4.7% 584	2.5% 211
TOTAL	100% 29779	100% 7609	100% 15856	100% 2723	100% 12429	100% 8302

TOTAL TERMINAL-TRIPS FOR ALL STUDIES IN REGION = 76698

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 7

TRIP PURPOSE

VEH TYPE	WORK	PERS BIZ	SHOP	VACATION	SOC=REC	OTHER
CAR W/O TRLR	64.7% 19281	84.4% 6422	85.5% 13564	78.8% 2147	90.4% 11238	87.0% 7220
CAR W/ TRLR	0.3% 81	0.8% 58	0.6% 88	9.1% 248	0.9% 109	0.7% 62
PICK=UP W/O/TRLR	21.0% 6263	13.7% 1042	12.9% 2040	7.2% 195	7.9% 987	11.2% 927
PICK=UP W/ TRLR	0.5% 141	0.0% 4	0.3% 40	1.9% 52	0.3% 32	0.2% 13
SINGLE=UNIT TRUCKS	8.5% 2536	1.0% 79	0.7% 116	2.9% 79	0.4% 52	0.9% 75
COMBINATION TRUCKS	5.0% 1477	0.1% 4	0.1% 8	0.1% 3	0.1% 11	0.1% 5
TOTAL	100% 29779	100% 7609	100% 15856	100% 2723	100% 12429	100% 8302

TOTAL TERMINAL=TRIPS FOR ALL STUDIES IN REGION = 76698

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.

GNAR78 TRIP LENGTH FREQUENCY DISTRIBUTION-REG7

TRIP LENGTH	FREQUENCY	P.C.	CUM.	ACTUAL
0	0			
2	0			
4	0			
6	0			
8	0			
10	0			
12	0			
14	0			
16	0			
18	0			
20	0			
22	0			
24	0			
26	0			
28	0			
30	0			
32	0			
34	0			
36	0			
38	0			
40	0			
10	1	6.432	6.432	1
20	10	35.894	42.326	10
30	7	24.725	67.051	7
40	3	10.481	77.534	3
50	2	7.314	84.848	2
60	1	4.764	89.612	1
70	0	2.539	92.152	
80	0	1.054	94.001	
90	0	1.045	95.046	
100	0	0.923	95.969	
110	0	0.720	96.690	
120	0	0.514	97.204	
130	0	0.257	97.461	
140	0	0.309	97.849	
150	0	0.200	98.049	
160	0	0.480	98.529	
170	0	0.210	98.739	
180	0	0.096	98.837	
190	0	0.291	99.128	
200	0	0.200	99.327	
210	0	0.118	99.445	
220	0	0.081	99.527	
230	0	0.044	99.571	
240	0	0.047	99.618	
250	0	0.057	99.675	
260	0	0.000	99.675	
270	0	0.027	99.702	
280	0	0.020	99.723	
290	0	0.007	99.729	
300	0	0.047	99.777	
310	0	0.007	99.784	
320	0	0.007	99.790	
330	0	0.003	99.794	
340	0	0.037	99.831	
350	0	0.000	99.831	
360	0	0.000	99.831	
370	0	0.017	99.848	
380	0	0.000	99.848	
390	0	0.000	99.848	
400	0	0.000	99.848	
410	0	0.003	99.851	
420	0	0.014	99.865	
430	0	0.003	99.868	
440	0	0.007	99.875	
450	0	0.020	99.895	
460	0	0.047	99.943	
470	0	0.000	99.943	
480	0	0.007	99.949	
490	0	0.000	99.949	
500	0	0.007	99.949	
510	0	0.000	99.949	
520	0	0.000	99.949	
530	0	0.000	99.949	
540	0	0.016	99.959	
550	0	0.000	99.959	
560	0	0.017	99.976	
570	0	0.000	99.976	
580	0	0.000	99.976	
590	0	0.010	99.986	
600	0	0.007	99.993	
610	0	0.003	99.997	
620	0	0.000	99.997	
630	0	0.000	99.997	
640	0	0.000	99.997	
650	0	0.000	99.997	
660	0	0.000	99.997	
670	0	0.000	99.997	
680	0	0.000	99.997	
690	0	0.000	99.997	
700	0	0.000	99.997	
710	0	0.000	99.997	
720	0	0.000	99.997	
730	0	0.000	99.997	
740	0	0.000	99.997	
750	0	0.000	99.997	

REMAINING VALUES ARE ALL ZERO
NUMBER OF OBSERVATIONS= 29573 SUM= 977044 MEAN= 33.038 VAR= 1339.369 SD= 36.597

TOTAL TRIPS OVER MAXP = 1
TOTAL TRIPS OVER 255 = 0
OLUME TABLE NUMBER = 201
KIN TREE NUMBER = 101

6MAR78 TRIP LENGTH FREQUENCY DISTRIBUTION-REG7

TRIP LENGTH	FREQUENCY	P.C.	CUM.	ACTUAL
0	0	0.000	0.000	0
2	0	0.000	0.000	0
4	0	0.000	0.000	0
6	0	0.000	0.000	0
8	0	0.000	0.000	0
10	0	0.000	0.000	0
12	0	0.000	0.000	0
14	0	0.000	0.000	0
16	0	0.000	0.000	0
18	0	0.000	0.000	0
20	0	0.000	0.000	0
22	0	0.000	0.000	0
24	0	0.000	0.000	0
26	0	0.000	0.000	0
28	0	0.000	0.000	0
30	0	0.000	0.000	0
32	0	0.000	0.000	0
34	0	0.000	0.000	0
36	0	0.000	0.000	0
38	0	0.000	0.000	0
40	0	0.000	0.000	0
10	7	9.989	9.989	7
20	30	39.852	49.841	30
30	14	19.422	69.263	14
40	8	11.429	80.694	8
50	4	6.253	86.937	4
60	2	3.935	90.872	2
70	1	1.921	92.793	1
80	0	1.166	93.959	0
90	0	1.020	94.979	0
100	0	0.755	95.734	0
110	0	0.437	96.171	0
120	0	0.649	96.820	0
130	0	0.291	97.112	0
140	0	0.344	97.456	0
150	0	0.305	97.761	0
160	0	0.358	98.119	0
170	0	0.371	98.490	0
180	0	0.172	98.662	0
190	0	0.397	99.059	0
200	0	0.344	99.404	0
210	0	0.212	99.616	0
220	0	0.146	99.762	0
230	0	0.613	99.775	0
240	0	0.000	99.775	0
250	0	0.040	99.815	0
260	0	0.013	99.828	0
270	0	0.025	99.854	0
280	0	0.000	99.854	0
290	0	0.000	99.854	0
300	0	0.000	99.854	0
310	0	0.000	99.854	0
320	0	0.000	99.854	0
330	0	0.000	99.854	0
340	0	0.026	99.881	0
350	0	0.000	99.881	0
360	0	0.000	99.881	0
370	0	0.013	99.894	0
380	0	0.000	99.894	0
390	0	0.000	99.894	0
400	0	0.000	99.894	0
410	0	0.000	99.894	0
420	0	0.000	99.894	0
430	0	0.040	99.934	0
440	0	0.000	99.934	0
450	0	0.000	99.934	0
460	0	0.013	99.947	0
470	0	0.026	99.974	0
480	0	0.000	99.974	0
490	0	0.000	99.974	0
500	0	0.000	99.974	0
510	0	0.000	99.974	0
520	0	0.000	99.974	0
530	0	0.000	99.974	0
540	0	0.026	100.000	0

REMAINING VALUES ARE ALL ZERO
 NUMBER OF OBSERVATIONS= 7548 SUM= 235398 MEAN= 31.187 VAR= 1244.890 SD= 35.283

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

6MAR78

TRIP LENGTH FREQUENCY DISTRIBUTION-REG7

PAGE 4

	0	3	6	9	12	15	18	21	24	27	30	33	36	39	42	45	48	51	54	57	60	P.C.	CUM.	ACTUAL	
10.....																							10.349	10.348	1
20.....																							43.832	54.181	1
30.....																							20.627	74.807	1
40.....																							11.756	86.563	1
50.....																							6.056	92.619	
60.....																							2.356	94.975	
70.....																							1.299	96.275	
80.....																							0.732	97.007	
90.....																							0.427	97.434	
100.....																							0.331	97.765	
110.....																							0.248	98.013	
120.....																							0.325	98.338	
130.....																							0.089	98.427	
140.....																							0.166	98.593	
150.....																							0.076	98.669	
160.....																							0.172	98.841	
170.....																							0.096	98.937	
180.....																							0.146	99.083	
190.....																							0.134	99.217	
200.....																							0.236	99.452	
210.....																							0.159	99.612	
220.....																							0.076	99.688	
230.....																							0.032	99.720	
240.....																							0.032	99.752	
250.....																							0.043	99.796	
260.....																							0.019	99.815	
270.....																							0.006	99.822	
280.....																							0.025	99.847	
290.....																							0.009	99.847	
300.....																							0.025	99.873	
310.....																							0.036	99.879	
320.....																							0.013	99.892	
330.....																							0.006	99.898	
340.....																							0.000	99.898	
350.....																							0.013	99.911	
360.....																							0.009	99.911	
370.....																							0.019	99.930	
380.....																							0.009	99.930	
390.....																							0.013	99.943	
400.....																							0.006	99.949	
410.....																							0.000	99.949	
420.....																							0.038	99.987	
430.....																							0.000	99.987	
440.....																							0.000	99.987	
450.....																							0.000	99.987	
460.....																							0.000	99.987	
470.....																							0.000	99.987	
480.....																							0.000	99.987	
490.....																							0.000	99.987	
500.....																							0.000	99.987	
510.....																							0.000	99.987	
520.....																							0.000	99.987	
530.....																							0.013	100.000	

REMAINING VALUES ARE ALL ZERO
 NUMBER OF OBSERVATIONS= 15703 SUM= 415707. MEAN= 26.473 VAR= 840.900 SD= 28.99

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

6HAR78 TRIP LENGTH FREQUENCY DISTRIBUTION-REG7

0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	P.C.	CUM.	ACTUAL		
10.....																						4.061	4.061		
20.....																							10.278	14.339	
30.....																							9.242	23.581	
40.....																							7.915	31.496	
50.....																							5.056	36.552	
60.....																							3.067	39.619	
70.....																							2.238	41.857	
80.....																							3.150	45.006	
90.....																							3.647	48.653	
100.....																							5.346	53.999	
110.....																							2.031	56.030	
120.....																							5.512	61.542	
130.....																							1.989	63.531	
140.....																							3.481	67.012	
150.....																							2.279	69.291	
160.....																							3.854	73.145	
170.....																							2.652	75.798	
180.....																							1.906	77.704	
190.....																							3.481	81.185	
200.....																							2.901	84.386	
210.....																							4.683	89.069	
220.....																							0.705	89.774	
230.....																							1.202	90.976	
240.....																							2.155	92.131	
250.....																							1.077	93.208	
260.....																							0.663	93.871	
270.....																							0.373	94.244	
280.....																							0.332	94.576	
290.....																							0.332	94.907	
300.....																							0.249	95.156	
310.....																							0.249	95.405	
320.....																							0.290	95.695	
330.....																							0.166	95.861	
340.....																							0.373	96.234	
350.....																							0.207	96.441	
360.....																							0.083	96.524	
370.....																							0.207	96.731	
380.....																							0.000	96.731	
390.....																							0.000	96.731	
400.....																							0.000	96.731	
410.....																							0.290	97.021	
420.....																							0.000	97.021	
430.....																							0.041	97.062	
440.....																							0.000	97.062	
450.....																							0.083	97.145	
460.....																							0.000	97.145	
470.....																							0.124	97.269	
480.....																							0.000	97.269	
490.....																							0.000	97.269	
500.....																							0.000	97.269	
510.....																							0.041	97.310	
520.....																							0.000	97.310	
530.....																							0.083	97.393	
540.....																							0.000	97.393	
550.....																							0.166	97.559	
560.....																							0.000	97.559	
570.....																							0.000	97.559	
580.....																							0.000	97.559	
590.....																							0.249	97.808	
600.....																							0.000	97.808	
610.....																							0.166	97.974	
620.....																							0.000	97.974	
630.....																							0.373	98.347	
640.....																							0.000	98.347	
650.....																							0.041	98.388	
660.....																							0.000	98.388	
670.....																							0.000	98.388	
680.....																							0.000	98.388	
690.....																							0.000	98.388	
700.....																							0.000	98.388	
710.....																							0.000	98.388	
720.....																							0.041	98.429	
730.....																							0.000	98.429	
740.....																							0.000	98.429	
750.....																							0.000	98.429	

EIGHTH VALUES ARE ALL ZERO
 NUMBER OF OBSERVATIONS= 2413 SUM= 278502 MEAN= 115.417 VAR= 13314.123 SD= 115.38

DIAL TRIPS OVER MAXP = 21
 DIAL TRIPS OVER 255 = 0
 PLUME TABLE NUMBER = 204
 RTH TREE NUMBER = 101

6MAR78 TRIP LENGTH FREQUENCY DISTRIBUTION-REG7

	P.C.	CUM.	ACTUAL
0			
2			
4			
6			
8			
10			
12			
14			
16			
18			
20			
22			
24			
26			
28			
30			
32			
34			
36			
38			
40			
10			
20			
30			
40			
50			
60			
70			
80			
90			
100			
110			
120			
130			
140			
150			
160			
170			
180			
190			
200			
210			
220			
230			
240			
250			
260			
270			
280			
290			
300			
310			
320			
330			
340			
350			
360			
370			
380			
390			
400			
410			
420			
430			
440			
450			
460			
470			
480			
490			
500			
510			
520			
530			
540			
550			
560			
570			
580			
590			
600			
610			
620			
630			
640			
650			
660			
670			
680			
690			
700			
710			
720			
730			
740			
REMAINING VALUES ARE ALL ZERO			
NUMBER OF OBSERVATIONS=	12200	SUM=	466788.
		MEAN=	38.261
		VAR=	2264.259
		SD=	47.584
TOTAL TRIPS OVER MAXP = 0			
TOTAL TRIPS OVER 255 = 0			
BLUME TABLE NUMBER = 205			
KIM TREE NUMBER = 101			

6MAR78

TRIP LENGTH FREQUENCY DISTRIBUTION-REG7

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	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.....																							6.694	6.694	
20.....																							39.289	45.983	1
30.....																							22.157	68.135	1
40.....																							10.054	78.189	
50.....																							7.607	85.796	
60.....																							3.165	88.961	
70.....																							1.887	90.847	
80.....																							1.193	92.040	
90.....																							0.901	92.941	
100.....																							1.109	94.048	
110.....																							0.669	94.718	
120.....																							2.264	96.981	
130.....																							0.438	97.420	
140.....																							0.389	97.809	
150.....																							0.353	98.162	
160.....																							0.402	98.564	
170.....																							0.219	98.783	
180.....																							0.258	98.941	
190.....																							0.341	99.282	
200.....																							0.288	99.550	
210.....																							0.024	99.574	
220.....																							0.097	99.671	
230.....																							0.037	99.708	
240.....																							0.337	99.744	
250.....																							0.000	99.744	
260.....																							0.012	99.757	
270.....																							0.012	99.769	
280.....																							0.000	99.769	
290.....																							0.024	99.793	
300.....																							0.012	99.805	
310.....																							0.000	99.805	
320.....																							0.000	99.805	
330.....																							0.024	99.830	
340.....																							0.000	99.830	
350.....																							0.000	99.830	
360.....																							0.000	99.830	
370.....																							0.037	99.866	
380.....																							0.000	99.866	
390.....																							0.000	99.866	
400.....																							0.024	99.890	
410.....																							0.024	99.915	
420.....																							0.012	99.927	
430.....																							0.012	99.939	
440.....																							0.024	99.963	
450.....																							0.000	99.963	
460.....																							0.000	99.963	
470.....																							0.024	99.988	
480.....																							0.000	99.988	
490.....																							0.000	99.988	
500.....																							0.000	99.988	
510.....																							0.012	100.000	
REMAINING VALUES ARE ALL ZERO																									
NUMBER OF OBSERVATIONS= 8216																									
SUM= 272065.																									
MEAN= 33.114																									
VAR= 1305.753																									
SD= 36.135																									
TOTAL TRIPS OVER MAXP = 0																									
TOTAL TRIPS OVER 255 = 0																									
VOLUME TABLE NUMBER = 206																									
MIN TREE NUMBER = 101																									

6MAR78

TRIP LENGTH FREQUENCY DISTRIBUTION-REG7

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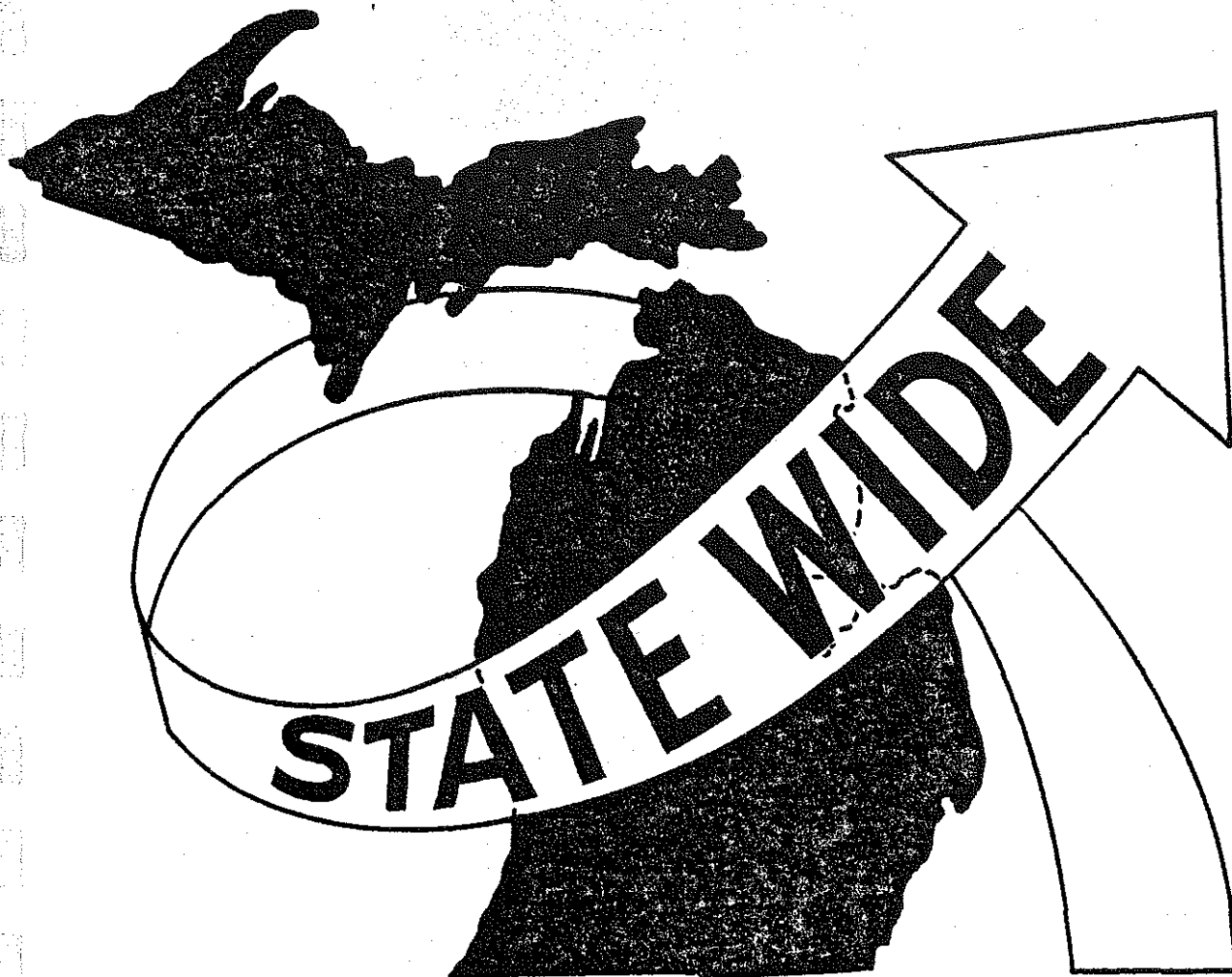
TRIP LENGTH	FREQUENCY	P.C.	CUM.	ACTUAL
0	0			
2	0			
4	0			
6	0			
8	0			
10	0			
12	0			
14	0			
16	0			
18	0			
20	0			
22	0			
24	0			
26	0			
28	0			
30	0			
32	0			
34	0			
36	0			
38	0			
40	0			
10	5	7.739	7.739	5
20	28	37.537	45.276	28
30	16	21.969	67.245	16
40	8	10.787	78.032	8
50	5	6.655	84.687	5
60	2	3.722	88.409	2
70	1	2.091	90.500	1
80	1	1.441	91.941	1
90	1	1.060	92.999	1
100	0	1.159	94.158	
110	0	0.638	94.796	
120	0	1.055	95.851	
130	0	0.297	96.148	
140	0	0.545	96.693	
150	0	0.311	97.004	
160	0	0.504	97.508	
170	0	0.316	97.824	
180	0	0.221	98.045	
190	0	0.415	98.460	
200	0	0.369	98.829	
210	0	0.328	99.157	
220	0	0.111	99.268	
230	0	0.085	99.353	
240	0	0.106	99.459	
250	0	0.081	99.540	
260	0	0.037	99.577	
270	0	0.030	99.607	
280	0	0.024	99.631	
290	0	0.019	99.650	
300	0	0.034	99.684	
310	0	0.013	99.697	
320	0	0.016	99.713	
330	0	0.013	99.726	
340	0	0.029	99.755	
350	0	0.017	99.772	
360	0	0.003	99.775	
370	0	0.022	99.797	
380	0	0.004	99.801	
390	0	0.004	99.805	
400	0	0.013	99.818	
410	0	0.013	99.831	
420	0	0.032	99.863	
430	0	0.004	99.867	
440	0	0.007	99.874	
450	0	0.015	99.889	
460	0	0.021	99.910	
470	0	0.009	99.919	
480	0	0.003	99.922	
490	0	0.000	99.922	
500	0	0.001	99.923	
510	0	0.007	99.930	
520	0	0.000	99.930	
530	0	0.009	99.939	
540	0	0.004	99.943	
550	0	0.005	99.948	
560	0	0.008	99.956	
570	0	0.001	99.957	
580	0	0.012	99.969	
590	0	0.001	99.970	
600	0	0.012	99.982	
610	0	0.003	99.985	
620	0	0.009	99.994	
630	0	0.000	99.994	
640	0	0.017	99.996	
650	0	0.000	99.996	
660	0	0.001	99.996	
670	0	0.000	99.996	
680	0	0.000	99.996	
690	0	0.000	99.996	
700	0	0.000	99.996	
710	0	0.001	99.997	
720	0	0.001	99.998	
730	0	0.000	99.998	
740	0	0.003	99.999	
750	0	0.029	100.000	

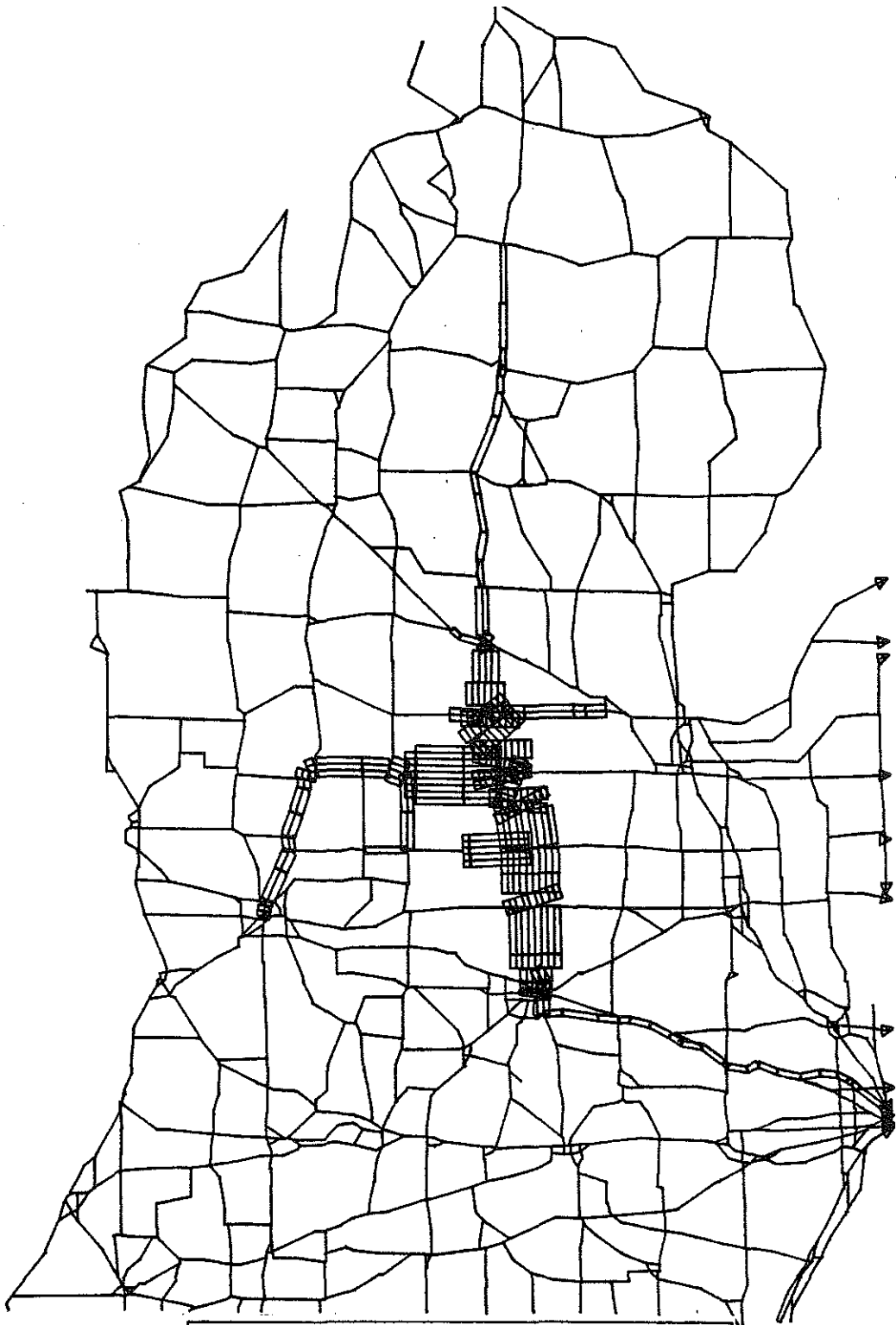
REMAINING VALUES ARE ALL ZERO

NUMBER OF OBSERVATIONS= 75653 SUM= 2645504. MEAN= 34.969 VAR= 1980.334 SD= 44.501

TOTAL TRIPS OVER MAXP = 22
 TOTAL TRIPS OVER 255 = 0
 VOLUME TABLE NUMBER = 207
 KIN TREE NUMBER = 101

**CITY TRIP CHARACTERISTICS
BY ALPHA NAME**





ALMASTLOUIS BANDWIDTH

ALMASTLOUIS

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
76.5% 17746	0.5% 109	16.2% 3755	0.3% 60	3.5% 802	3.2% 734

TRIP PURPOSE

WORK	PERS BIZ	SHOP	VACATION	SOC-REC	OTHER
46.4% 10766	7.9% 1829	18.3% 4256	1.0% 237	14.5% 3354	11.9% 2764

NUMBER IN VEHICLE

1	2	3	4	5	6+
59.8% 13881	23.4% 5437	8.8% 2047	4.6% 1066	2.0% 458	1.4% 318

VEHICLE GARAGED AT

ORIGIN	DESTIN	OTHER
47.2% 10949	37.8% 8778	15.0% 3480

TOTAL TRIPS = 23206

MINOR

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

TRIP PURPOSE

# IN VEH.	WORK	PERS BIZ	SHOP	VACATION	SOC-REC	OTHER
1	81.7% 8796	52.1% 952	36.1% 1536	12.0% 28	38.0% 1275	46.8% 1293
2	13.7% 1471	28.3% 517	32.6% 1386	39.9% 95	34.3% 1150	29.6% 819
3	3.0% 328	10.2% 187	15.3% 649	17.0% 40	13.8% 461	13.8% 381
4	1.1% 119	5.1% 93	8.9% 379	20.4% 48	7.7% 259	6.1% 168
5	0.3% 32	2.5% 46	4.6% 196	4.1% 10	3.5% 118	2.0% 57
6+	0.2% 20	1.9% 34	2.6% 109	6.7% 16	2.7% 90	1.7% 47
TOTAL	100% 10766	100% 1829	100% 4256	100% 237	100% 3354	100% 2764

TOTAL TERMINAL-TRIPS FOR ALMASTLOUIS = 23206

MINOR

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

TRIP PURPOSE

VEH TYPE	WORK	PERS BIZ	SHOP	VACATION	SOC-REC	OTHER
CAR W/O TRLR	64.9% 6988	84.8% 1551	85.1% 3624	84.1% 199	90.5% 3033	85.0% 2350
CAR W/ TRLR	0.2% 22	0.1% 1	0.4% 18	9.7% 23	0.6% 22	0.9% 24
PICK-UP W/O/TRLR	21.1% 2272	14.2% 259	13.4% 572	4.1% 10	8.4% 281	13.0% 361
PICK-UP W/ TRLR	0.3% 36	0.1% 2	0.2% 11	0.7% 2	0.2% 5	0.2% 5
SINGLE-UNIT TRUCKS	6.7% 718	0.9% 16	0.7% 29	1.4% 3	0.3% 11	0.9% 25
COMBINATION TRUCKS	6.8% 729	0.0% 0	0.1% 4	0.0% 0	0.0% 2	0.0% 0
TOTAL	100% 10766	100% 1829	100% 4256	100% 237	100% 3354	100% 2764

TOTAL TERMINAL-TRIPS FOR ALMASTLOUIS = 23206

7FEB78 TRIP LENGTH FREQUENCY DISTRIBUTION-ALMASTLOUIS

	0	3	6	9	12	15	18	21	24	27	30	33	36	39	42	45	48	51	54	57	60	P.C.	CUM.	
10.																							0.279	0.279
20.																							42.646	42.925
30.																							22.271	65.196
40.																							9.096	74.292
50.																							5.110	79.402
60.																							8.195	87.596
70.																							3.857	91.453
80.																							2.090	93.524
90.																							0.762	94.286
100.																							1.041	95.327
110.																							1.542	96.869
120.																							0.149	97.018
130.																							0.232	97.250
140.																							0.083	97.733
150.																							0.252	97.965
160.																							0.957	98.922
170.																							0.111	99.034
180.																							0.046	99.080
190.																							0.204	99.285
200.																							0.195	99.480
210.																							0.056	99.535
220.																							0.037	99.573
230.																							0.019	99.591
240.																							0.019	99.610
250.																							0.000	99.628
260.																							0.000	99.628
270.																							0.000	99.628
280.																							0.000	99.628
290.																							0.000	99.628
300.																							0.121	99.749
310.																							0.019	99.768
320.																							0.000	99.768
330.																							0.000	99.768
340.																							0.102	99.870
350.																							0.000	99.870
360.																							0.000	99.870
370.																							0.000	99.870
380.																							0.000	99.870
390.																							0.000	99.870
400.																							0.000	99.870
410.																							0.000	99.870
420.																							0.000	99.870
430.																							0.009	99.879
440.																							0.000	99.879
450.																							0.056	99.935
460.																							0.028	99.963
470.																							0.000	99.963
480.																							0.000	99.963
490.																							0.000	99.963
500.																							0.000	99.963
510.																							0.000	99.963
520.																							0.000	99.963
530.																							0.000	99.963
540.																							0.000	99.963
550.																							0.000	99.963
560.																							0.037	100.000

REMAINING VALUES ARE ALL ZERO
 NUMBER OF OBSERVATIONS= 10763 . SUM= 383415. MEAN= 35.623 VAR= 1266.132 SD= 35.44

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

7FEB78

TRIP LENGTH FREQUENCY DISTRIBUTION-ALHASTLOUIS

PAGE

0	3	6	9	12	15	18	21	24	27	30	33	36	39	42	45	48	51	54	57	60	P.C.	CUM.																				
10																						0.710	0.710																			
20																						50.410	51.120																			
30																						19.490	70.617																			
40																						0.520	70.137																			
50																						5.060	65.117																			
60																						7.316	62.155																			
70																						2.185	64.320																			
80																						1.438	95.958																			
90																						1.202	97.160																			
100																						0.104	97.320																			
110																						0.765	98.088																			
120																						0.055	98.143																			
130																						0.104	98.307																			
140																						0.109	98.416																			
150																						0.546	98.962																			
160																						0.457	99.399																			
170																						0.218	99.618																			
180																						0.000	99.618																			
190																						0.055	99.672																			
200																						0.109	99.782																			
210																						0.000	99.782																			
220																						0.109	99.891																			
230																						0.000	99.891																			
240																						0.000	99.891																			
250																						0.000	99.891																			
260																						0.000	99.891																			
270																						0.000	99.891																			
280																						0.000	99.891																			
290																						0.000	99.891																			
300																						0.000	99.891																			
310																						0.000	99.891																			
320																						0.000	99.891																			
330																						0.000	99.891																			
340																						0.000	99.891																			
350																						0.000	99.891																			
360																						0.000	99.891																			
370																						0.000	99.891																			
380																						0.000	99.891																			
390																						0.000	99.891																			
400																						0.000	99.891																			
410																						0.000	99.891																			
420																						0.000	99.891																			
430																						0.000	99.891																			
440																						0.000	99.891																			
450																						0.000	99.891																			
460																						0.000	99.891																			
MAINING VALUES ARE ALL ZERO																																										0.109100.000
NUMBER OF OBSERVATIONS	1631																																									
SUM	56292.																																									
MEAN	30.784																																									
VAR	812.490																																									
SD																																										
TOTAL TRIPS OVER MAXP	0																																									
TOTAL TRIPS OVER 255	0																																									
TIME TABLE NUMBER	202																																									
TIME TREE NUMBER	101																																									

7FEB78

TRIP LENGTH FREQUENCY DISTRIBUTION-ALMASTLOUIS

PAGE

	0	3	6	9	12	15	18	21	24	27	30	33	36	39	42	45	48	51	54	57	60	P.C.	CUM.	
10..																							0.011	0.011
20.....																							52.832	53.443
30.....																							20.141	73.584
40.....																							11.445	85.029
50.....																							5.852	90.482
60.....																							5.840	96.122
70.....																							1.622	97.744
80.....																							0.729	98.472
90.....																							0.259	98.731
100.....																							0.235	98.966
110.....																							0.306	99.271
120.....																							0.098	99.369
130.....																							0.047	99.417
140.....																							0.071	99.488
150.....																							0.141	99.629
160.....																							0.141	99.770
170.....																							0.000	99.770
180.....																							0.000	99.770
190.....																							0.071	99.841
200.....																							0.000	99.841
210.....																							0.000	99.841
220.....																							0.000	99.841
230.....																							0.000	99.841
240.....																							0.071	99.912
250.....																							0.000	99.912
260.....																							0.000	99.912
270.....																							0.000	99.912
280.....																							0.000	99.912
290.....																							0.000	99.912
300.....																							0.094	100.000

REMAINING VALUES ARE ALL ZERO
 NUMBER OF OBSERVATIONS# 4255 SUM# 115325 MEAN# 27.103 VAR# 409.536 SD#

TOTAL TRIPS OVER MAXP # 0
 TOTAL TRIPS OVER 255 # 0
 TIME TABLE NUMBER # 203
 TIME TABLE NUMBER # 101

7FEB78

TRIP LENGTH FREQUENCY DISTRIBUTION-ALMASTLOUIS

TRIP LENGTH	FREQUENCY	P.C.	CUM.
0	0	0.000	0.000
5	0	0.000	0.000
10	0	0.000	0.000
15	0	0.000	0.000
20	0	0.000	0.000
25	0	0.000	0.000
30	0	0.000	0.000
35	0	0.000	0.000
40	0	0.000	0.000
45	0	0.000	0.000
50	0	0.000	0.000
55	0	0.000	0.000
60	0	0.000	0.000
65	0	0.000	0.000
70	0	0.000	0.000
75	0	0.000	0.000
80	0	0.000	0.000
85	0	0.000	0.000
90	0	0.000	0.000
95	0	0.000	0.000
100	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

MAINING VALUES ARE ALL ZERO
 NUMBER OF OBSERVATIONS = 235 SUM = 37672 MEAN = 160.306 VAR = 22641.906 SD = 15

TAL TRIPS OVER MAXP = 2
 TAL TRIPS OVER 255 = 0
 LUME TABLE NUMBER = 204
 IM TREE NUMBER = 101

7FEB78

TRIP LENGTH FREQUENCY DISTRIBUTION-ALMASTLOUIS

PAGE 6

TRIP LENGTH	FREQUENCY	P.C.	CUM.
0	0	0.566	0.566
3	0	0.566	0.566
6	0	0.566	0.566
9	0	0.566	0.566
12	0	0.566	0.566
15	0	0.566	0.566
18	0	0.566	0.566
21	0	0.566	0.566
24	0	0.566	0.566
27	0	0.566	0.566
30	0	0.566	0.566
33	0	0.566	0.566
36	0	0.566	0.566
39	0	0.566	0.566
42	0	0.566	0.566
45	0	0.566	0.566
48	0	0.566	0.566
51	0	0.566	0.566
54	0	0.566	0.566
57	0	0.566	0.566
60	0	0.566	0.566
10	0	0.566	0.566
20	0	0.566	0.566
30	0	0.566	0.566
40	0	0.566	0.566
50	0	0.566	0.566
60	0	0.566	0.566
70	0	0.566	0.566
80	0	0.566	0.566
90	0	0.566	0.566
100	0	0.566	0.566
110	0	0.566	0.566
120	0	0.566	0.566
130	0	0.566	0.566
140	0	0.566	0.566
150	0	0.566	0.566
160	0	0.566	0.566
170	0	0.566	0.566
180	0	0.566	0.566
190	0	0.566	0.566
200	0	0.566	0.566
210	0	0.566	0.566
220	0	0.566	0.566
230	0	0.566	0.566
240	0	0.566	0.566
250	0	0.566	0.566
260	0	0.566	0.566
270	0	0.566	0.566
280	0	0.566	0.566
290	0	0.566	0.566
300	0	0.566	0.566
310	0	0.566	0.566
320	0	0.566	0.566
330	0	0.566	0.566
340	0	0.566	0.566
350	0	0.566	0.566
360	0	0.566	0.566
370	0	0.566	0.566
380	0	0.566	0.566
390	0	0.566	0.566
400	0	0.566	0.566
410	0	0.566	0.566
420	0	0.566	0.566
430	0	0.566	0.566
440	0	0.566	0.566
450	0	0.566	0.566
460	0	0.566	0.566
470	0	0.566	0.566
480	0	0.566	0.566
490	0	0.566	0.566
500	0	0.566	0.566
510	0	0.566	0.566
520	0	0.566	0.566
530	0	0.566	0.566
540	0	0.566	0.566
550	0	0.566	0.566
560	0	0.566	0.566
570	0	0.566	0.566
580	0	0.566	0.566
590	0	0.566	0.566
600	0	0.566	0.566
610	0	0.566	0.566
620	0	0.566	0.566
630	0	0.566	0.566
640	0	0.566	0.566
650	0	0.566	0.566
660	0	0.566	0.566
670	0	0.566	0.566
680	0	0.566	0.566
690	0	0.566	0.566
700	0	0.566	0.566
710	0	0.566	0.566

MINING VALUES ARE ALL ZERO
 NUMBER OF OBSERVATIONS= 3358 SUM= 118728 MEAN= 35.357 VAR= 1758.121 SD= 41.9

ALL TRIPS OVER MAXP = 0
 ALL TRIPS OVER 255 = 0
 JME TABLE NUMBER = 205
 TREE NUMBER = 191

7FEB78

TRIP LENGTH FREQUENCY DISTRIBUTION-ALMASTLOUIS

PAGE 7

	0	3	6	9	12	15	18	21	24	27	30	33	36	39	42	45	48	51	54	57	60	P.C.	CUM.	
10..																							0.435	0.435
20..																							50.199	50.634
30..																							23.506	74.140
40..																							9.055	83.194
50..																							4.185	87.380
60..																							5.940	93.300
70..																							2.246	95.545
80..																							0.889	96.414
90..																							0.543	96.958
100..																							0.543	97.501
110..																							0.905	98.406
120..																							0.109	98.515
130..																							0.072	98.587
140..																							0.507	99.095
150..																							0.181	99.276
160..																							0.362	99.638
170..																							0.072	99.710
180..																							0.000	99.710
190..																							0.109	99.819
200..																							0.072	99.891
210..																							0.000	99.891
220..																							0.036	99.928
230..																							0.000	99.928
240..																							0.000	99.928
250..																							0.000	99.928
260..																							0.000	99.928
270..																							0.000	99.928
280..																							0.000	99.928
290..																							0.000	99.928
300..																							0.036	99.964
310..																							0.000	99.964
320..																							0.000	99.964
330..																							0.000	99.964
340..																							0.000	99.964
350..																							0.000	99.964
360..																							0.000	99.964
370..																							0.000	99.964
380..																							0.000	99.964
390..																							0.000	99.964
400..																							0.000	99.964
410..																							0.000	99.964
420..																							0.000	99.964
430..																							0.000	99.964
440..																							0.036	100.000
BINNING VALUES ARE ALL ZERO																								
SER OF OBSERVATIONS# 2761																								
SUM# 80556																								
MEAN# 29.177																								
VAR# 605.716																								
SD#																								
AL TRIPS OVER MAXP = 0																								
AL TRIPS OVEN 255 = 0																								
JME TABLE NUMBER = 206																								
M TREE NUMBER = 101																								

7FEB78

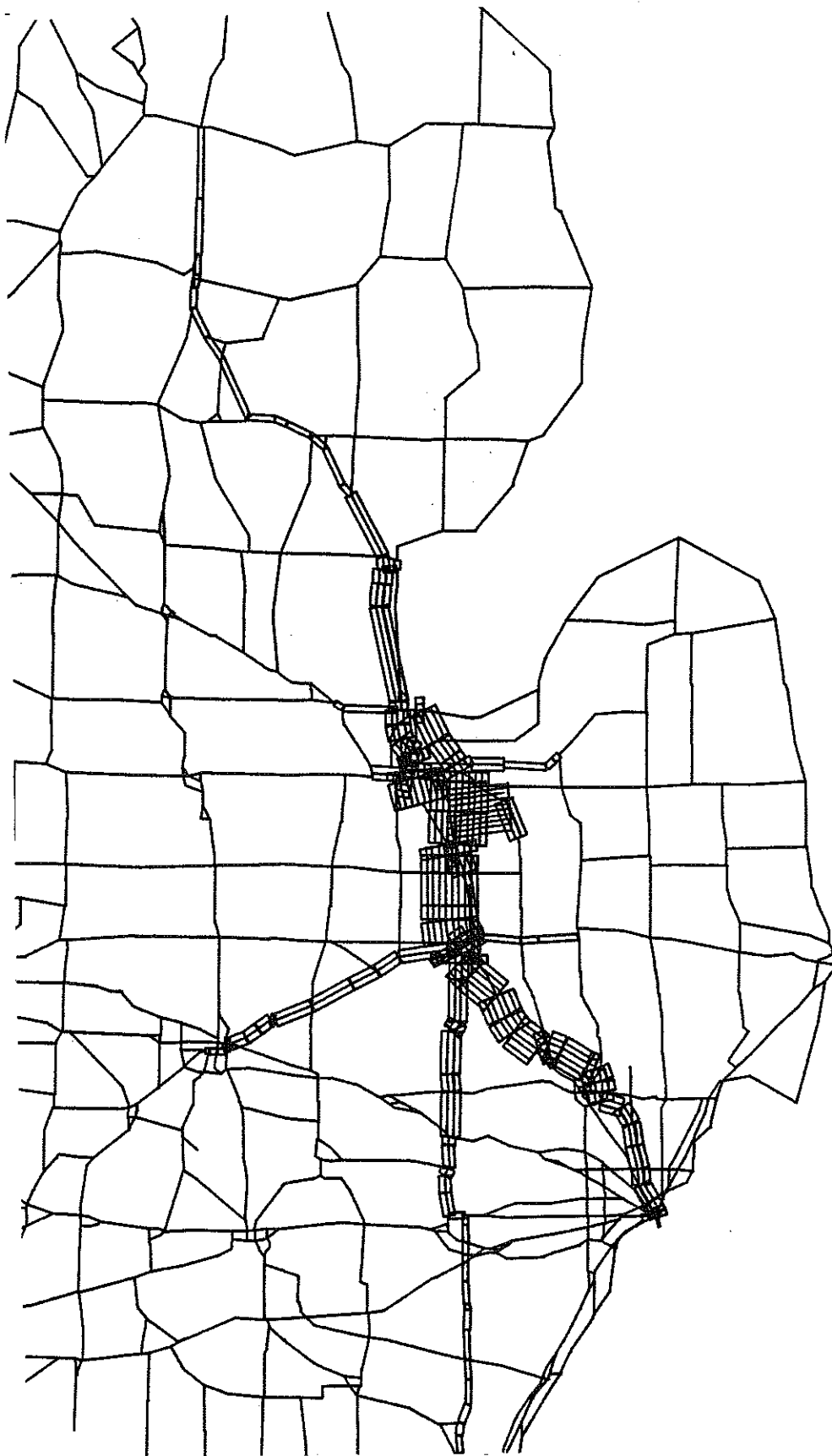
TRIP LENGTH FREQUENCY DISTRIBUTION-ALHASTLOUIS

PAGE 6

TRIP LENGTH	P.C.	CUM.
0		
3		
6		
9		
12		
15		
18		
21		
24		
27		
30		
33		
36		
39		
42		
45		
48		
51		
54		
57		
60		
10.		
20.	0.431	0.431
30.	46.218	46.649
40.	21.368	68.017
50.	9.395	77.412
60.	5.038	82.451
70.	7.215	89.665
80.	3.099	92.764
90.	1.595	94.359
100.	0.728	95.083
110.	0.750	95.832
120.	1.199	97.026
130.	0.138	97.164
140.	0.203	97.367
150.	0.888	97.815
160.	0.319	98.134
170.	0.638	98.772
180.	0.198	98.970
190.	0.022	98.992
200.	0.172	99.164
210.	0.121	99.285
220.	0.086	99.371
230.	0.069	99.483
240.	0.026	99.509
250.	0.022	99.536
260.	0.047	99.578
270.	0.000	99.578
280.	0.013	99.591
290.	0.000	99.591
300.	0.001	99.681
310.	0.030	99.711
320.	0.028	99.737
330.	0.000	99.737
340.	0.045	99.802
350.	0.000	99.802
360.	0.000	99.802
370.	0.000	99.802
380.	0.013	99.815
390.	0.000	99.815
400.	0.000	99.815
410.	0.000	99.815
420.	0.026	99.841
430.	0.013	99.853
440.	0.000	99.853
450.	0.026	99.879
460.	0.022	99.901
470.	0.000	99.901
480.	0.000	99.901
490.	0.000	99.901
500.	0.000	99.901
510.	0.000	99.901
520.	0.000	99.901
530.	0.000	99.901
540.	0.000	99.901
550.	0.017	99.918
560.	0.017	99.935
570.	0.000	99.935
580.	0.000	99.935
590.	0.000	99.935
600.	0.000	99.935
610.	0.017	99.953
620.	0.000	99.953
630.	0.034	99.987
640.	0.000	99.987
650.	0.000	99.987
660.	0.000	99.987
670.	0.000	99.987
680.	0.000	99.987
690.	0.000	99.987
700.	0.000	99.987
710.	0.000	99.991
720.	0.000	99.991
730.	0.000	99.991
740.	0.000	99.991
750.	0.000	99.991

MINING VALUES ARE ALL ZERO
NUMBER OF OBSERVATIONS= 23203 SUM= 791990. MEAN= 34.133 VAR= 1467.939 SD= 38.17

AL TRIPS OVER MAXP = 2
AL TRIPS OVER 255 = 0
TIME TABLE NUMBER = 207
M TREE NUMBER = 101



FRANKENMUTH BANDWIDTH

FRANKENMUTH

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
84.0%	0.6%	10.3%	0.4%	3.1%	1.6%
9576	68	1172	44	356	182

TRIP PURPOSE

WORK	PERS BIZ	SHOP	VACATION	SOC-REC	OTHER
41.6%	7.1%	13.8%	6.0%	17.9%	13.6%
4745	807	1572	684	2041	1549

NUMBER IN VEHICLE

1	2	3	4	5	6+
52.1%	25.8%	9.7%	7.2%	2.9%	2.3%
5937	2938	1100	825	332	267

VEHICLE GARAGED AT

ORIGIN	DESTIN	OTHER
45.2%	35.3%	19.5%
5150	4026	2223

TOTAL TRIPS = 11399

MINOR

EXTERNAL ORIGIN-DESTINATION INTERVIEW

TERMINAL-TRIP SUMMARY TABLE FOR FRANKENMUTH

TRIP PURPOSE

# IN VEH.	WORK	PERS BIZ	SHOP	VACATION	SOC-REC	OTHER
1	84.4% 4007	49.5% 399	38.6% 607	3.4% 23	27.1% 553	22.5% 348
2	11.9% 564	33.4% 269	31.8% 500	45.3% 310	34.3% 700	38.4% 595
3	2.2% 102	8.9% 72	17.0% 267	14.6% 100	14.9% 304	16.4% 255
4	1.0% 49	3.9% 31	8.5% 133	22.1% 151	12.5% 256	13.1% 203
5	0.4% 20	3.6% 29	2.2% 35	7.5% 52	6.0% 123	4.8% 75
6+	0.1% 3	0.8% 6	1.9% 30	7.1% 48	5.2% 106	4.7% 73
TOTAL	100% 4745	100% 807	100% 1572	100% 684	100% 2041	100% 1549

TOTAL TERMINAL-TRIPS FOR FRANKENMUTH = 11399

MINOR

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

TRIP PURPOSE

VEH TYPE	WORK	PERS BIZ	SHOP	VACATION	SOC-REC	OTHER
CAR W/O TRLR	73.4% 3484	87.6% 707	89.2% 1402	83.8% 574	94.8% 1935	95.2% 1475
CAR W/ TRLR	0.0% 1	0.6% 5	0.3% 5	6.6% 45	0.3% 6	0.4% 6
PICK-UP W/O/TRLR	15.7% 746	10.9% 88	10.0% 157	4.8% 33	4.4% 90	3.8% 58
PICK-UP W/ TRLR	0.4% 21	0.0% 0	0.3% 4	2.0% 14	0.3% 5	0.0% 0
SINGLE-UNIT TRUCKS	6.7% 317	0.9% 7	0.3% 5	2.3% 16	0.1% 2	0.6% 9
COMBINATION TRUCKS	3.7% 176	0.0% 0	0.0% 0	0.4% 3	0.2% 4	0.0% 0
TOTAL	100% 4745	100% 807	100% 1572	100% 684	100% 2041	100% 1549

TOTAL TERMINAL-TRIPS FOR FRANKENMUTH = 11399

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TRIP LENGTH FREQUENCY DISTRIBUTION-FRANKENMUTH

TRIP LENGTH	FREQ	P.C.	CUM.
0		
4		
8		
12		
16		
20		
24		
28		
32		
36		
40		
44		
48		
52		
56		
60		
64		
68		
72		
76		
80		
10	0.907	0.907
20	9.791	10.607
30	64.003	74.610
40	10.396	85.006
50	7.328	92.335
60	1.666	94.001
70	0.148	94.149
80	0.637	94.786
90	0.484	95.270
100	0.391	95.661
110	0.427	96.088
120	1.371	97.459
130	0.257	97.716
140	0.784	98.500
150	0.127	98.627
160	0.190	98.817
170	0.169	98.986
180	0.300	99.286
190	0.257	99.543
200	0.127	99.670
210	0.167	99.837
220	0.042	99.879
230	0.047	99.926
240	0.127	99.953
250	0.000	99.953
260	0.000	99.953
270	0.300	99.953
280	0.021	99.974
290	0.000	99.974
300	0.221	99.974
310	0.000	99.974
320	0.000	99.974
330	0.021	99.976
340	0.000	99.976
350	0.300	99.976
360	0.000	99.976
370	0.105	99.871
380	0.000	99.871
390	0.300	99.871
400	0.000	99.871
410	0.000	99.871
420	0.300	99.871
430	0.000	99.871
440	0.000	99.871
450	0.300	99.871
460	0.000	99.871
470	0.000	99.871
480	0.300	99.871
490	0.000	99.871
500	0.000	99.871
510	0.000	99.871
520	0.000	99.871
530	0.000	99.871
540	0.000	99.871
550	0.000	99.871
560	0.000	99.871
570	0.000	99.871
580	0.000	99.871
590	0.063	99.934
600	0.342	99.970
610	0.021	100.000

REMAINING VALUES ARE ALL ZERO
 NUMBER OF OBSERVATIONS= 4742

SUM= 149487. MEAN= 31.524 VAR= 1153.719 SD= 33.81

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

9FEB78

TRIP LENGTH FREQUENCY DISTRIBUTION-FRANKENMUTH

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.	
10..																							0.743	0.743
20.....																							13.243	13.985
30.....																							64.975	78.960
40.....																							6.931	85.891
50.....																							4.455	90.347
60.....																							1.733	92.079
70..																							0.495	92.574
80..																							0.743	93.317
90..																							0.495	93.812
100....																							2.723	96.535
110..																							0.495	97.030
120...																							1.485	98.515
130..																							0.248	98.762
140..																							0.000	98.762
150..																							0.000	98.762
160..																							J.371	99.134
170..																							0.124	99.257
180..																							0.000	99.257
190..																							0.000	99.257
200..																							0.248	99.505
210..																							0.000	99.505
220..																							0.000	99.505
230..																							0.000	99.505
240..																							0.000	99.505
250..																							0.000	99.505
260..																							0.000	99.505
270..																							0.000	99.505
280..																							0.000	99.505
290..																							0.000	99.505
300..																							0.000	99.505
310..																							0.000	99.505
320..																							0.000	99.505
330..																							0.000	99.505
340..																							0.000	99.505
350..																							0.248	99.752
360..																							0.000	99.752
370..																							0.000	99.752
380..																							0.124	99.876
390..																							0.000	99.876
400..																							0.000	99.876
410..																							0.000	99.876
420..																							0.000	99.876
430..																							0.000	99.876
440..																							0.000	99.876
450..																							0.000	99.876

REMAINING VALUES ARE ALL ZERO
 NUMBER OF OBSERVATIONS= 808 SUM= 25399. MEAN= 31.434 VAR= 1135.981 SD= 33.556

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

9FEB78 TRIP LENGTH FREQUENCY DISTRIBUTION-FRANKENMUTH

TRIP LENGTH	FREQUENCY	P-C.	CUM.
0	1.590	1.590
4	11.323	12.913
8	68.321	81.234
12	7.761	88.995
16	4.453	93.448
20	0.636	94.084
24	0.636	94.720
28	0.445	95.165
32	0.636	95.802
36	0.763	96.565
40	0.509	97.074
44	1.590	98.664
48	0.191	98.855
52	0.000	98.855
56	0.127	98.982
60	0.364	99.346
64	0.064	99.410
68	0.127	99.537
72	3.254	99.491
76	0.127	99.618
80	0.364	99.682
84	0.000	99.682
88	0.127	99.809
92	0.000	99.809
96	0.000	99.809
100	0.000	99.809
104	0.000	99.809
108	0.000	99.809
112	0.000	99.809
116	0.000	99.809
120	0.000	99.809
124	0.000	99.809
128	0.000	99.809
132	0.000	99.809
136	0.000	99.809
140	0.000	99.809
144	0.000	99.809
148	0.000	99.809
152	0.000	99.809
156	0.000	99.809
160	0.000	99.809
164	0.000	99.809
168	0.000	99.809
172	0.000	99.809
176	0.000	99.809
180	0.000	99.809
184	0.000	99.809
188	0.000	99.809
192	0.000	99.809
196	0.000	99.809
200	0.000	99.809
204	0.000	99.809
208	0.000	99.809
212	0.000	99.809
216	0.000	99.809
220	0.000	99.809
224	0.000	99.809
228	0.000	99.809
232	0.000	99.809
236	0.000	99.809
240	0.000	99.809
244	0.000	99.809
248	0.000	99.809
252	0.000	99.809
256	0.000	99.809
260	0.000	99.809
264	0.000	99.809
268	0.000	99.809
272	0.000	99.809
276	0.000	99.809
280	0.000	99.809
284	0.000	99.809
288	0.000	99.809
292	0.000	99.809
296	0.000	99.809
300	0.000	99.809
304	0.000	99.809
308	0.000	99.809
312	0.000	99.809
316	0.000	99.809
320	0.000	99.809
324	0.000	99.809
328	0.000	99.809
332	0.000	99.809
336	0.000	99.809
340	0.000	99.809
344	0.000	99.809
348	0.000	99.809
352	0.000	99.809
356	0.000	99.809
360	0.000	99.809
364	0.000	99.809
368	0.000	99.809
372	0.000	99.809

REMAINING VALUES ARE ALL ZERO
 NUMBER OF OBSERVATIONS= 1572 SUM= 45660 MEAN= 29.046 VAR= 737.681 SD= 27.142

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

9FEB78

TRIP LENGTH FREQUENCY DISTRIBUTION-FRANKENMUTH

TRIP LENGTH	FREQUENCY	P.C.	CUM.
0		
10	0.146	0.146
20	0.729	0.875
30	9.767	10.641
40	5.685	16.327
50	4.082	20.408
60	2.478	22.886
70	1.166	24.052
80	3.644	27.697
90	3.938	31.633
100	9.038	40.671
110	2.624	43.294
120	13.848	57.143
130	3.499	60.641
140	2.770	63.411
150	2.770	66.181
160	5.394	71.574
170	2.041	73.615
180	1.458	75.073
190	3.799	78.863
200	6.851	85.714
210	1.603	87.318
220	0.437	87.755
230	0.729	88.484
240	5.977	94.461
250	1.029	95.481
260	0.000	95.481
270	0.000	95.481
280	0.146	95.627
290	0.000	95.627
300	0.000	95.627
310	0.292	95.918
320	0.000	95.918
330	0.330	96.248
340	0.437	96.685
350	0.000	96.685
360	0.079	96.764
370	0.437	97.201
380	0.000	97.201
390	0.000	97.201
400	0.000	97.201
410	1.029	98.230
420	0.000	98.230
430	0.000	98.230
440	0.000	98.230
450	0.000	98.230
460	0.292	98.522
470	0.000	98.522
480	0.146	98.668
490	0.000	98.668
500	0.000	98.668
510	0.000	98.668
520	0.000	98.668
530	0.000	98.668
540	0.000	98.668
550	0.000	98.668
560	0.000	98.668
570	0.000	98.668
580	0.000	98.668
590	0.000	98.668
600	0.729	99.397
610	0.000	99.397
620	0.000	99.397
630	0.000	99.397
640	0.000	99.397
650	0.000	99.397
660	0.000	99.397
670	0.000	99.397
680	0.000	99.397
690	0.000	99.397
700	0.000	99.397
710	0.000	99.397
720	0.000	99.397
730	0.146	99.543
740	0.000	99.543
750	0.000	99.543

REMAINING VALUES ARE ALL ZERO
 NUMBER OF OBSERVATIONS= 686 SUM= 91390 MEAN= 133.222 VAR= 12087.255 SD= 109.483

TOTAL TRIPS OVER MAXP = 6
 TOTAL TRIPS OVER 255 = 0
 VOLUME TABLE NUMBER = 204
 SKIN TREE NUMBER = 101

9FEB78

TRIP LENGTH FREQUENCY DISTRIBUTION-FRANKENMUTH

PAGE

	0	3	6	9	12	15	18	21	24	27	30	33	36	39	42	45	48	51	54	57	60	P.C.	CUM.	
10..																							0.685	0.685
20.....																							8.579	9.193
30.....																							64.019	53.203
40.....																							8.460	61.663
50.....																							9.193	70.856
60.....																							1.760	72.616
70.....																							1.369	73.985
80.....																							1.614	75.599
90.....																							1.516	77.115
100.....																							6.112	83.227
110.....																							1.565	84.792
120.....																							8.020	92.812
130.....																							0.733	93.545
140.....																							1.027	94.572
150.....																							0.587	95.159
160.....																							1.271	96.430
170.....																							0.782	97.213
180.....																							0.142	97.555
190.....																							0.191	97.946
200.....																							1.176	99.122
210.....																							0.244	99.267
220.....																							0.196	99.462
230.....																							0.098	99.560
240.....																							0.147	99.707
250.....																							0.147	99.853
260.....																							0.000	99.853
270.....																							0.000	99.853
280.....																							0.000	99.853
290.....																							0.000	99.853
300.....																							0.000	99.853
310.....																							0.000	99.853
320.....																							0.000	99.853
330.....																							0.000	99.853
340.....																							0.000	99.853
350.....																							0.000	99.853
360.....																							0.000	99.853
370.....																							0.000	99.853
380.....																							0.000	99.853
390.....																							0.000	99.853
400.....																							0.000	99.853
410.....																							0.000	99.853
420.....																							0.000	99.853
430.....																							0.000	99.853
440.....																							0.000	99.853
450.....																							0.091	100.000

REMAINING VALUES ARE ALL ZERO
 NUMBER OF OBSERVATIONS= 2045 SUM= 104906. MEAN= 51.299 VAR= 2237.244 SO=

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

9FEB78

TRIP LENGTH FREQUENCY DISTRIBUTION-FRANKENMUTH

PAGE 7

	0	3	6	9	12	15	18	21	24	27	30	33	36	39	42	45	48	51	54	57	60	P.C.	CUM.	
10..																							0.711	0.711
20..																							9.567	10.278
30..																							40.914	51.196
40..																							5.753	56.949
50..																							12.928	69.877
60..																							2.657	72.537
70..																							1.228	73.756
80..																							1.817	75.566
90..																							1.616	77.182
100..																							4.072	81.254
110..																							1.487	82.741
120..																							10.213	92.954
130..																							1.551	94.505
140..																							0.776	95.281
150..																							0.776	96.057
160..																							0.971	97.027
170..																							0.517	97.544
180..																							0.259	97.802
190..																							0.388	98.190
200..																							0.971	99.160
210..																							0.000	99.160
220..																							0.259	99.418
230..																							0.000	99.418
240..																							0.000	99.418
250..																							0.194	99.612
260..																							0.000	99.612
270..																							0.000	99.612
280..																							0.000	99.612
290..																							0.000	99.612
300..																							0.000	99.612
310..																							0.000	99.612
320..																							0.000	99.612
330..																							0.000	99.612
340..																							0.000	99.612
350..																							0.000	99.612
360..																							0.000	99.612
370..																							0.129	99.741
380..																							0.000	99.741
390..																							0.000	99.741
400..																							0.000	99.741
410..																							0.129	99.871
420..																							0.000	99.871
430..																							0.000	99.871
440..																							0.000	99.871
450..																							0.000	99.871
460..																							0.000	99.871
470..																							0.129	100.000

REMAINING VALUES ARE ALL ZERO
 NUMBER OF OBSERVATIONS= 1547

SUM= 80922. MEAN= 52.359 VAR= 2391.225 SD= 49

TOTAL TRIPS OVER MAXP = 0
 TOTAL TRIPS OVER 255 = 0
 VOLUME TABLE NUMBER = 396
 SKIN TREE NUMBER = 101

9FEB78

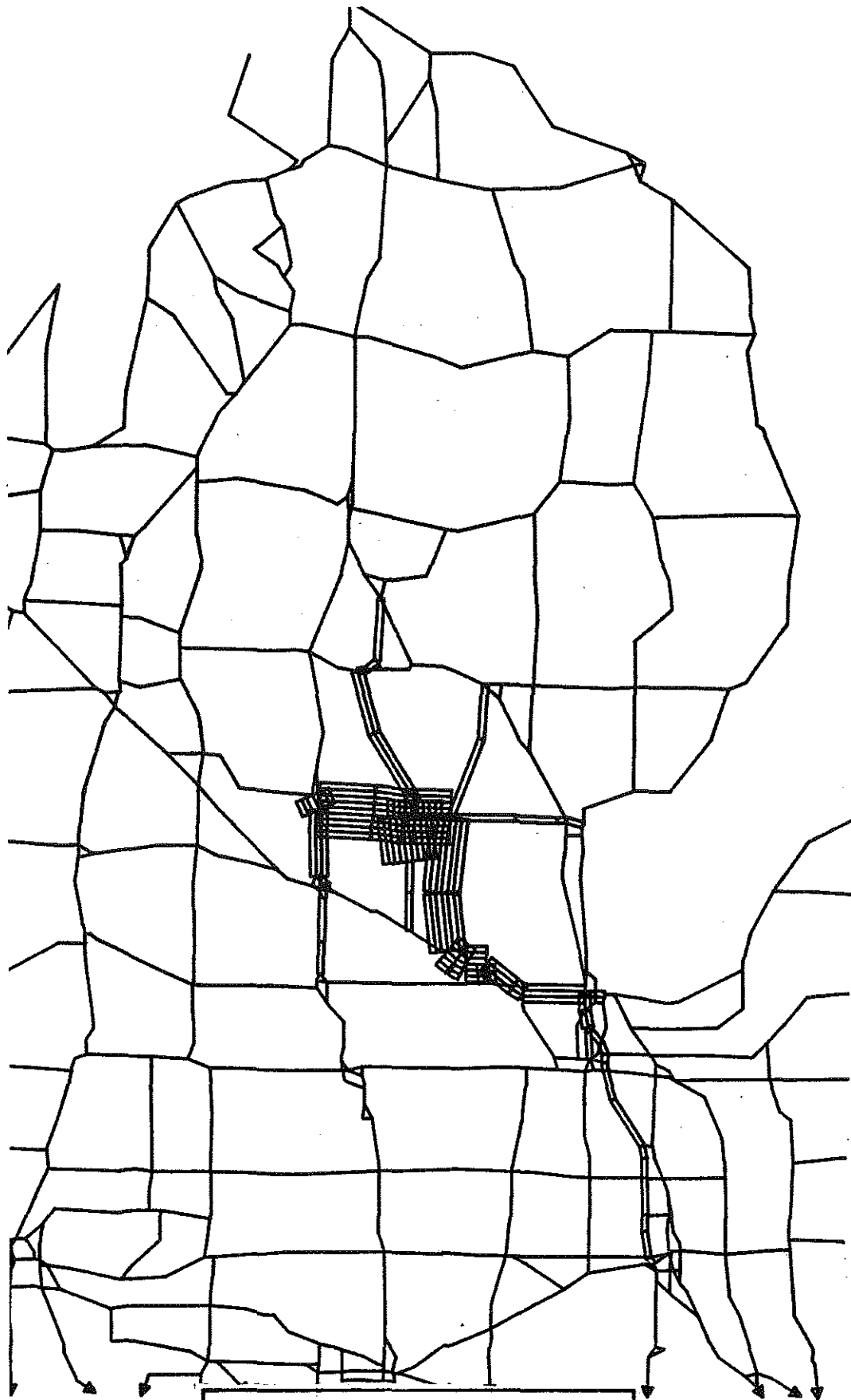
TRIP LENGTH FREQUENCY DISTRIBUTION-FRANKE MOUTH

PAGE

0	3	6	9	12	15	18	21	24	27	30	33	36	39	42	45	48	51	54	57	60	P.C.	CUM.	
10..																						0.877	0.877
20.....																						9.404	10.281
30.....																						54.684	64.965
40.....																						6.528	71.491
50.....																						7.711	81.202
60.....																						1.724	82.926
70..																						0.667	83.596
80...																						1.132	84.728
90...																						1.044	85.772
100.....																						2.904	88.675
110.....																						0.921	89.596
120.....																						4.553	94.149
130..																						0.702	94.851
140..																						0.491	95.342
150..																						0.447	95.789
160..																						0.798	96.588
170..																						0.421	97.009
180..																						0.202	97.211
190..																						0.491	97.702
200..																						0.827	98.526
210..																						0.175	98.702
220..																						0.114	98.816
230..																						0.096	98.912
240..																						0.465	99.377
250..																						0.788	99.465
260..																						0.000	99.465
270..																						0.318	99.482
280..																						0.000	99.482
296..																						0.009	99.491
303..																						0.026	99.518
313..																						0.000	99.518
320..																						3.009	99.526
330..																						0.044	99.570
340..																						0.000	99.570
350..																						0.000	99.570
360..																						0.114	99.684
370..																						0.000	99.684
380..																						0.000	99.684
390..																						0.000	99.684
400..																						0.000	99.684
410..																						0.000	99.684
420..																						0.000	99.684
430..																						0.000	99.684
440..																						0.000	99.684
450..																						0.000	99.684
460..																						0.000	99.684
470..																						0.000	99.684
480..																						0.000	99.684
490..																						0.000	99.684
500..																						0.000	99.684
510..																						0.000	99.684
520..																						0.000	99.684
530..																						0.000	99.684
540..																						0.000	99.684
550..																						0.000	99.684
560..																						0.000	99.684
570..																						0.000	99.684
580..																						0.000	99.684
590..																						0.000	99.684
600..																						0.000	99.684
610..																						0.000	99.684
620..																						0.000	99.684
630..																						0.000	99.684
640..																						0.000	99.684
650..																						0.000	99.684
660..																						0.000	99.684
670..																						0.000	99.684
680..																						0.000	99.684
690..																						0.000	99.684
700..																						0.000	99.684
710..																						0.000	99.684
720..																						0.000	99.684
730..																						0.000	99.684
740..																						0.000	99.684
750..																						0.000	99.684

REMAINING VALUES ARE ALL ZERO
 NUMBER OF OBSERVATIONS= 11400 SUM= 497764 MEAN= 43.664 VAR= 2718.686 SD=

TOTAL TRIPS OVER MAXP = 6
 TOTAL TRIPS OVER 255 = 3
 VOLUME TABLE NUMBER = 207
 SKTH TREE NUMBER = 101



GLADWIN BANDWIDTH

GLADWIN

EXTERNAL ORIGIN=DESTINATION INTERVIEW

TERMINAL=TRIP SUMMARY TABLE

VEHICLE TYPE

-----	CAR W/O TRLR	CAR W/ TRLR	PICK-UP W/O/TRLR	PICK-UP W/ TRLR	SINGLE-UNIT TRUCKS	COMBINATION TRUCKS
	78.3%	0.7%	16.0%	0.2%	3.7%	1.2%
	6962	62	1420	17	329	105

TRIP PURPOSE

-----	WORK	PERS BIZ	SHOP	VACATION	SOC=REC	OTHER
	31.1%	19.1%	26.6%	3.5%	12.0%	7.7%
	2769	1695	2365	315	1067	684

NUMBER IN VEHICLE

-----	1	2	3	4	5	6+
	50.0%	28.7%	11.3%	5.5%	2.3%	2.1%
	4444	2556	1008	491	209	186

VEHICLE GARAGED AT

-----	ORIGIN	DESTIN	OTHER
	43.8%	34.6%	21.6%
	3898	3077	1920

TOTAL TRIPS = 8895

MINOR

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

TRIP PURPOSE

# IN VEH.	WORK	PERS BIZ	SHOP	VACATION	SOC-REC	OTHER
1	77.1% 2134	44.2% 748	34.8% 823	13.9% 44	37.3% 398	43.5% 297
2	16.9% 467	31.4% 531	38.1% 901	32.6% 103	31.4% 335	32.0% 219
3	3.5% 97	12.6% 213	15.8% 374	17.9% 56	15.6% 167	14.8% 101
4	2.0% 56	6.6% 113	6.4% 150	20.0% 63	6.7% 72	5.5% 37
5	0.2% 6	3.7% 62	2.7% 63	7.5% 24	3.4% 36	2.6% 18
6+	0.3% 9	1.6% 27	2.3% 54	8.1% 26	5.5% 58	1.7% 12
TOTAL	100% 2769	100% 1695	100% 2365	100% 315	100% 1067	100% 684

TOTAL TERMINAL-TRIPS FOR GLADWIN = 8895

MINOR
EXTERNAL ORIGIN-DESTINATION INTERVIEW
TERMINAL-TRIP SUMMARY TABLE FOR GLADWIN

TRIP PURPOSE

VEH TYPE	WORK	PERS BIZ	SHCP	VACATION	SOC-REC	OTHER
CAR W/O TRLR	65.5% 1813	83.5% 1416	84.4% 1997	76.9% 242	88.9% 949	79.7% 545
CAR W/ TRLR	0.2% 6	0.9% 15	0.1% 2	7.4% 23	0.9% 9	0.9% 6
PICK-UP W/O/TRLR	20.8% 576	14.3% 243	14.6% 344	12.6% 40	9.2% 99	17.3% 119
PICK-UP W/ TRLR	0.4% 10	0.0% 0	0.1% 2	0.7% 2	0.1% 1	0.3% 2
SINGLE-UNIT TRUCKS	9.4% 261	1.3% 22	0.8% 20	2.5% 8	0.7% 7	1.6% 11
COMBINATION TRUCKS	3.7% 103	0.0% 0	0.0% 0	0.0% 0	0.1% 1	0.2% 1
TOTAL	100% 2769	100% 1695	100% 2365	100% 315	100% 1067	100% 684

TOTAL TERMINAL-TRIPS FOR GLADWIN = 8895

7FEB78

TRIP LENGTH FREQUENCY DISTRIBUTION-GLADWIN

PAGE 2

	0	3	6	9	12	15	18	21	24	27	30	33	36	39	42	45	48	51	54	57	60	P.C.	CUM.	ACT		
10																						23.955	23.955		
20																						42.939	66.895	
30																					0.108	67.003	
40																				9.726	76.729	
50																			7.925	84.654	
60																		6.772	91.427	
70																	2.181	93.588	
80																2.918	96.506	
90															0.756	97.262	
100														0.288	97.550	
110													0.072	97.622	
120												0.396	98.019	
130											0.360	98.379	
140										0.288	98.667	
150									0.324	98.991	
160								0.216	99.207	
170							0.288	99.496	
180						0.180	99.676	
190					0.180	99.856	
200				0.072	99.928	
210			0.072	100.000	

REMAINING VALUES ARE ALL ZERO
 NUMBER OF OBSERVATIONS= 2776 SUM= 76170 MEAN= 26.718 VAR= 742.653 SD= 27.
 TOTAL TRIPS OVER MAXP = 0
 TOTAL TRIPS OVER 255 = 0
 VOLUME TABLE NUMBER = 201
 SKIN TREE NUMBER = 101

7FEB78

TRIP LENGTH FREQUENCY DISTRIBUTION-GLADWIN

	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																						26.855	26.855		
20																							44.741	73.616	
30																							0.000	73.616	
40																							10.601	84.217	
50																							4.594	88.810	
60																							5.045	93.855	
70																							1.355	95.210	
80																							0.982	96.192	
90																							0.118	96.290	
100																							0.000	96.290	
110																							0.412	96.702	
120																							0.236	96.938	
130																							0.648	97.585	
140																							0.000	97.585	
150																							0.294	97.880	
160																							0.236	98.115	
170																							0.648	98.763	
180																							0.118	98.881	
190																							0.786	99.667	
200																							0.000	99.667	
210																							0.118	99.784	
220																							0.000	99.784	
230																							0.000	99.784	
240																							0.000	99.784	
250																							0.000	99.784	
260																							0.000	99.784	
270																							0.118	99.902	
280																							0.000	99.902	
290																							0.000	99.902	
300																							0.000	99.902	
310																							0.000	99.902	
320																							0.000	99.902	
330																							0.000	99.902	
340																							0.000	99.902	
350																							0.000	99.902	
360																							0.000	99.902	
370																							0.000	99.902	
380																							0.000	99.902	
390																							0.000	99.902	
400																							0.000	99.902	
410																							0.000	99.902	
420																							0.000	99.902	
430																							0.000	99.902	
440																							0.000	99.902	
450																							0.000	99.902	
460																							0.000	99.902	
470																							0.000	99.902	
480																							0.000	99.902	
490																							0.000	99.902	
500																							0.000	99.902	
510																							0.000	99.902	
520																							0.000	99.902	
530																							0.000	99.902	
540																							0.118	100.000	

REMAINING VALUES ARE ALL ZERO

NUMBER OF OBSERVATIONS= 1698 SUM= 42712 MEAN= 25.154 VAR= 1217.456 SD= 34

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

7FEB76

TRIP LENGTH FREQUENCY DISTRIBUTION-GLADWIN

PAGE 4

TRIP LENGTH	FREQUENCY	P.C.	CUM. ACT
0			
3			
6			
9			
12			
15			
18			
21			
24			
27			
30			
33			
36			
39			
42			
45			
48			
51			
54			
57			
60			
10		28.644	28.644
20		56.950	85.594
30		0.127	85.720
40		7.098	92.818
50		2.112	94.930
60		2.450	97.381
70		0.422	97.803
80		0.929	98.733
90		0.042	98.775
100		0.042	98.817
110		0.465	99.282
120		0.084	99.366
130		0.000	99.366
140		0.000	99.366
150		0.000	99.366
160		0.042	99.409
170		0.000	99.409
180		0.084	99.493
190		0.084	99.578
200		0.127	99.704
210		0.127	99.831
220		0.000	99.831
230		0.000	99.831
240		0.000	99.831
250		0.084	99.916
260		0.000	99.916
270		0.000	99.916
280		0.000	99.916
290		0.000	99.916
300		0.000	99.916
310		0.000	99.916
320		0.000	99.916
330		0.000	99.916
340		0.000	99.916
350		0.000	99.916
360		0.000	99.916
370		0.000	99.916
380		0.000	99.916
390		0.000	99.916
400		0.000	99.916
410		0.000	99.916
420		0.000	99.916
430		0.000	99.916
440		0.000	99.916
450		0.000	99.916
460		0.000	99.916
470		0.000	99.916
480		0.000	99.916
490		0.000	99.916
500		0.000	99.916
510		0.000	99.916
520		0.000	99.916
530		0.084	100.000

REMAINING VALUES ARE ALL ZERO

NUMBER OF OBSERVATIONS= 2567 SUM= 43462 MEAN= 16.962 VAR= 580.861 SD= 24.1

TOTAL TRIPS OVER MAXP = 0

TOTAL TRIPS OVER 255 = 0

VOLUME TABLE NUMBER = 203

SKIN TREE NUMBER = 101

7FEB78

TRIP LENGTH FREQUENCY DISTRIBUTION-GLAOWIN

TRIP LENGTH	FREQUENCY	P.C.	CUM.	AC
0	24.528	24.528	
10	24.214	48.742	
20	0.629	49.371	
30	6.408	55.779	
40	7.233	63.012	
50	2.830	65.842	
60	1.572	67.414	
70	3.459	70.873	
80	1.258	72.131	
90	0.629	72.760	
100	2.201	74.961	
110	2.316	77.277	
120	0.943	78.220	
130	0.629	78.849	
140	2.201	81.050	
150	2.830	83.880	
160	0.943	84.823	
170	1.774	86.597	
180	5.031	91.628	
190	1.258	92.886	
200	0.000	92.886	
210	0.629	93.515	
220	0.000	93.515	
230	0.314	93.829	
240	0.000	93.829	
250	0.000	93.829	
260	0.000	93.829	
270	0.000	93.829	
280	0.000	93.829	
290	0.000	93.829	
300	0.000	93.829	
310	0.000	93.829	
320	0.000	93.829	
330	0.000	93.829	
340	0.000	93.829	
350	0.314	94.143	
360	0.000	94.143	
370	0.000	94.143	
380	0.000	94.143	
390	0.000	94.143	
400	0.000	94.143	
410	0.000	94.143	
420	0.000	94.143	
430	0.000	94.143	
440	0.000	94.143	
450	0.000	94.143	
460	0.000	94.143	
470	0.000	94.143	
480	0.000	94.143	
490	0.000	94.143	
500	0.000	94.143	
510	0.000	94.143	
520	0.000	94.143	
530	0.629	94.772	
540	0.000	94.772	
550	0.000	94.772	
560	0.000	94.772	
570	0.000	94.772	
580	0.000	94.772	
590	0.000	94.772	
600	0.000	94.772	
610	0.000	94.772	
620	0.000	94.772	
630	0.000	94.772	
640	0.000	94.772	
650	0.000	94.772	
660	0.000	94.772	
670	0.000	94.772	
680	0.000	94.772	
690	0.000	94.772	
700	0.000	94.772	
710	0.000	94.772	
720	0.000	94.772	
730	0.000	94.772	
740	0.000	94.772	
750	1.258	100.000	

REMAINING VALUES ARE ALL ZERO
 NUMBER OF OBSERVATIONS= 318 SUM= 23166 MEAN= 72.849 VAR= 12256.198 SD= 110

TOTAL TRIPS OVER MAXP = 4
 TOTAL TRIPS OVER 255 = 0
 VOLUME TABLE NUMBER = 204
 SKIM TREE NUMBER = 101

7FEB78 TRIP LENGTH FREQUENCY DISTRIBUTION=GLADWIN

	0	3	6	9	12	15	18	21	24	27	30	33	36	39	42	45	48	51	54	57	60	F.C.	CUM.	AC																						
10	.....																						27,887	27,887																					
20	.....																						41,490	69,377																					
30	.....																						1,972	71,349																					
40	.....																						15,211	86,561																					
50	.....																						3,568	90,129																					
60	.....																						2,629	92,758																					
70	.....																						2,147	94,905																					
80	.....																						1,596	96,501																					
90	.....																						0,000	96,501																					
100	.....																						0,000	96,501																					
110	.....																						0,098	96,599																					
120	.....																						0,939	97,538																					
130	.....																						0,000	97,538																					
140	.....																						0,000	97,538																					
150	.....																						0,751	98,289																					
160	.....																						0,098	98,387																					
170	.....																						0,282	98,669																					
180	.....																						0,188	98,857																					
190	.....																						0,751	100,000																					
REMAINING VALUES ARE ALL ZERO																																														
NUMBER OF OBSERVATIONS											1065	SUM	26465.	MEAN	24,850	VAR	764,915						SD	27																						
TOTAL TRIPS OVER MAXP	= 0																																													
TOTAL TRIPS OVER 255	= 0																																													
VOLUME TABLE NUMBER	= 205																																													
SKIN TREE NUMBER	= 101																																													

7FEB78

TRIP LENGTH FREQUENCY DISTRIBUTION-GLADWIN

PAGE 7

	0	3	6	9	12	15	18	21	24	27	30	33	36	39	42	45	48	51	54	57	60	P.C.	CUM.	ACT					
10																					30.175	30.175						
20																					50.292	80.466						
30																					0.292	80.758						
40																					10.058	90.816						
50																					3.353	94.169						
60																					3.207	97.376						
70																					0.729	98.105						
80																					0.729	98.834						
90																					0.000	98.834						
100																					0.000	98.834						
110																					0.437	99.271						
120																					0.292	99.563						
130																					0.000	99.563						
140																					0.000	99.563						
150																					0.000	99.563						
160																					0.000	99.563						
170																					0.000	99.563						
180																					0.000	99.563						
190																					0.146	99.708						
200																					0.000	99.708						
210																					0.000	99.708						
220																					0.000	99.708						
230																					0.000	99.708						
240																					0.000	99.708						
250																					0.000	99.708						
260																					0.000	99.708						
270																					0.000	99.708						
280																					0.000	99.708						
290																					0.000	99.708						
300																					0.000	99.708						
310																					0.000	99.708						
320																					0.000	99.708						
330																					0.292	100.000						
REMAINING VALUES ARE ALL ZERO																													
NUMBER OF OBSERVATIONS	686																					SUM	13286.	MEAN	19.366	VAR	502.937	SD	22.
TOTAL TRIPS OVER MAXP	= 0																												
TOTAL TRIPS OVER 255	= 0																												
VOLUME TABLE NUMBER	= 206																												
SKIN TREE NUMBER	= 101																												

7FEB78

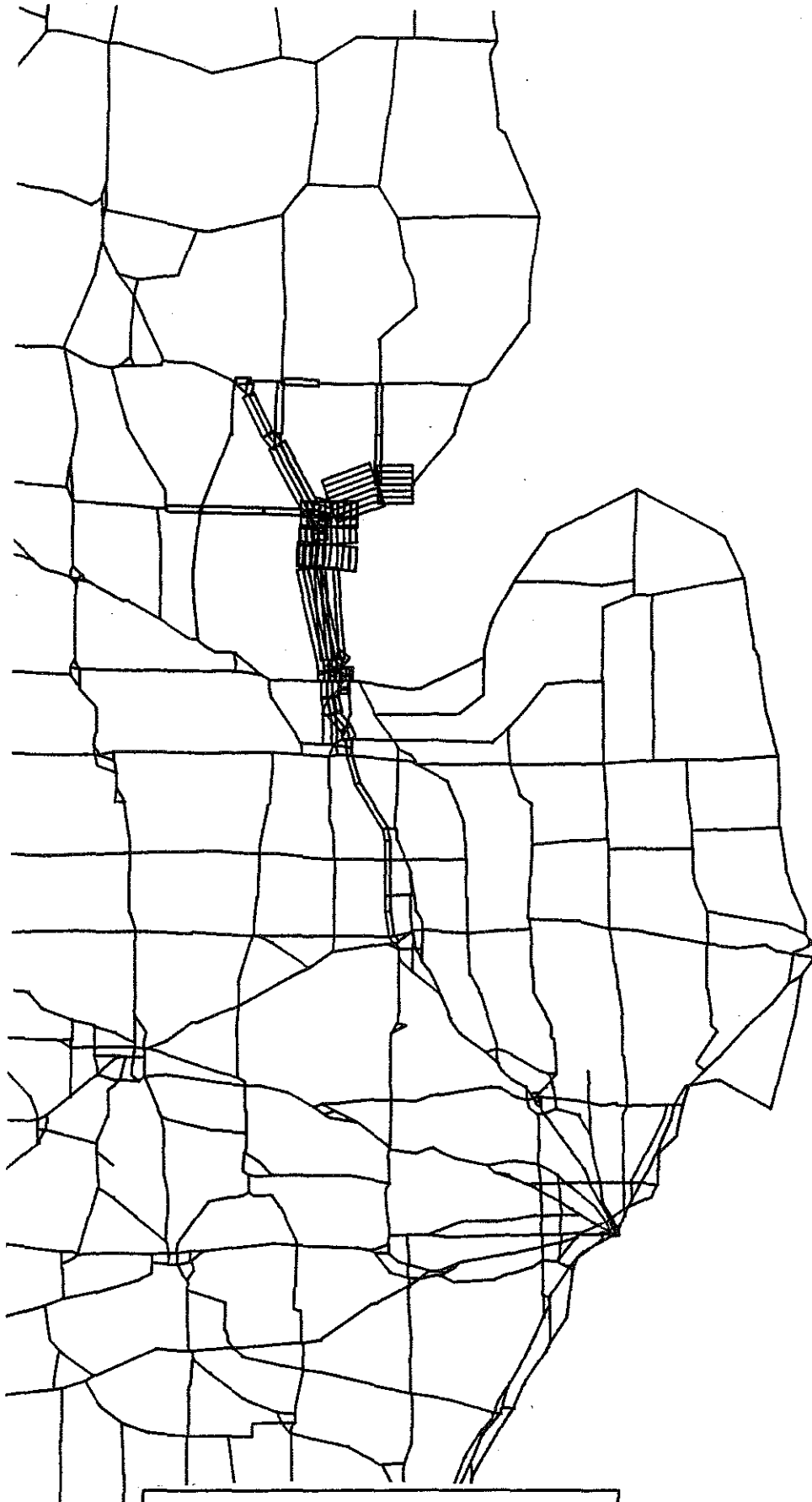
TRIP LENGTH FREQUENCY DISTRIBUTION-GLADWIN

PAGE 8

0	3	6	9	12	15	18	21	24	27	30	33	36	39	42	45	48	51	54	57	60	P.C.	CUM.	ACT	
10																					25.723	25.723		
20																						47.338	73.061	
30																						0.348	73.409	
40																						9.764	83.173	
50																						4.888	88.062	
60																						4.486	92.548	
70																						1.437	94.085	
80																						1.704	95.789	
90																						0.314	96.103	
100																						0.123	96.226	
110																						0.348	96.574	
120																						0.415	96.989	
130																						0.269	97.258	
140																						0.112	97.370	
150																						0.337	97.707	
160																						0.224	97.931	
170																						0.303	98.234	
180																						0.250	98.484	
190																						0.514	98.998	
200																						0.101	99.100	
210																						0.085	99.185	
220																						0.022	99.207	
230																						0.000	99.207	
240																						0.034	99.241	
250																						0.000	99.241	
260																						0.000	99.241	
270																						0.056	99.297	
280																						0.000	99.297	
290																						0.022	99.319	
300																						0.000	99.319	
310																						0.000	99.319	
320																						0.000	99.319	
330																						0.022	99.341	
340																						0.000	99.341	
350																						0.011	99.352	
360																						0.000	99.352	
370																						0.000	99.352	
380																						0.000	99.352	
390																						0.000	99.352	
400																						0.000	99.352	
410																						0.000	99.352	
420																						0.000	99.352	
430																						0.000	99.352	
440																						0.000	99.352	
450																						0.000	99.352	
460																						0.000	99.352	
470																						0.000	99.352	
480																						0.000	99.352	
490																						0.000	99.352	
500																						0.000	99.352	
510																						0.000	99.352	
520																						0.000	99.352	
530																						0.067	99.419	
540																						0.000	99.419	
550																						0.000	99.419	
560																						0.000	99.419	
570																						0.000	99.419	
580																						0.000	99.419	
590																						0.000	99.419	
600																						0.000	99.419	
610																						0.000	99.419	
620																						0.000	99.419	
630																						0.000	99.419	
640																						0.000	99.419	
650																						0.000	99.419	
660																						0.000	99.419	
670																						0.000	99.419	
680																						0.000	99.419	
690																						0.000	99.419	
700																						0.000	99.419	
710																						0.000	99.419	
720																						0.000	99.419	
730																						0.000	99.419	
740																						0.000	99.419	
750																						0.045	100.000	

REMAINING VALUES ARE ALL ZERO
 NUMBER OF OBSERVATIONS= 6910 SUM= 223259 MEAN= 25.057 VAR= 1285.152 SD= 35.8

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



STANDISH BANDWIDTH

STANDISH

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
77.2%	0.6%	14.9%	0.2%	5.7%	1.5%
6045	46	1163	12	445	116

TRIP PURPOSE

WORK	PERS BIZ	SHOP	VACATION	SOC=REC	OTHER
39.1%	12.2%	21.7%	1.3%	14.8%	10.8%
3059	958	1699	105	1161	845

NUMBER IN VEHICLE

1	2	3	4	5	6+
57.2%	25.1%	9.2%	4.8%	2.1%	1.5%
4480	1966	720	376	168	117

VEHICLE GARAGED AT

ORIGIN	DESTIN	OTHER
47.2%	33.8%	19.0%
3694	2647	1487

TOTAL TRIPS = 7828

MINOR

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

TRIP PURPOSE

# IN VEH.	WORK	PERS BIZ	SHCP	VACATION	SOC-REC	OTHER
1	77.2% 2362	47.7% 457	45.0% 764	14.0% 15	40.5% 471	48.7% 412
2	15.9% 485	32.8% 314	29.4% 500	41.5% 44	31.6% 367	30.4% 257
3	3.9% 119	9.9% 95	13.3% 226	18.0% 19	15.1% 175	10.1% 85
4	1.9% 58	7.1% 68	6.6% 112	7.2% 8	7.0% 81	5.8% 49
5	0.8% 24	1.6% 15	3.0% 52	13.8% 15	3.1% 36	3.2% 27
6+	0.4% 11	0.9% 8	2.6% 45	5.5% 6	2.7% 32	1.8% 16
TOTAL	100% 3059	100% 958	100% 1699	100% 105	100% 1161	100% 845

TOTAL TERMINAL-TRIPS FOR STANDISH = 7828

MINOR

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

TRIP PURPOSE

VEH TYPE	WORK	PERS BIZ	SHOP	VACATION	SOC-REC	OTHER
CAR W/O TRLR	64.9% 1985	82.8% 793	82.8% 1407	82.3% 87	90.8% 1055	85.0% 718
CAR W/ TRLR	0.3% 10	0.7% 7	0.7% 12	7.1% 7	0.7% 8	0.3% 3
PICK-UP W/O/TRLR	17.5% 536	14.5% 139	15.9% 271	9.4% 10	8.2% 95	13.4% 113
PICK-UP W/ TRLR	0.2% 6	0.0% 0	0.2% 4	1.1% 1	0.1% 1	0.0% 0
SINGLE-UNIT TRUCKS	13.4% 410	1.8% 17	0.4% 7	0.0% 0	0.2% 2	1.1% 9
COMBINATION TRUCKS	3.7% 112	0.2% 2	0.0% 0	0.0% 0	0.1% 1	0.2% 2
TOTAL	100% 3059	100% 958	100% 1699	100% 105	100% 1161	100% 845

TOTAL TERMINAL-TRIPS FOR STANDISH = 7828

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TRIP LENGTH FREQUENCY DISTRIBUTION-STANDISH

PAGE 2

	0	3	6	9	12	15	18	21	24	27	30	33	36	39	42	45	48	51	54	57	60	P.C.	CUM.	ACT		
10																							23.066	23.066		
20																								42.062	65.728	
30																								7.023	73.552	
40																								0.078	80.229	
50																								13.290	93.519	
60																								1.178	94.697	
70																								0.229	94.926	
80																								0.655	95.581	
90																								1.378	96.956	
100																								0.262	97.218	
110																								0.065	97.283	
120																								0.520	97.807	
130																								0.000	97.807	
140																								0.556	98.363	
150																								0.166	98.527	
160																								0.458	98.985	
170																								0.098	99.083	
180																								0.033	99.116	
190																								0.033	99.149	
200																								0.196	99.345	
210																								0.000	99.345	
220																								0.000	99.345	
230																								0.098	99.444	
240																								0.000	99.444	
250																								0.000	99.444	
260																								0.000	99.444	
270																								0.000	99.444	
280																								0.098	99.542	
290																								0.000	99.542	
300																								0.000	99.542	
310																								0.000	99.542	
320																								0.000	99.542	
330																								0.000	99.542	
340																								0.000	99.542	
350																								0.000	99.542	
360																								0.000	99.542	
370																								0.000	99.542	
380																								0.000	99.542	
390																								0.000	99.542	
400																								0.000	99.542	
410																								0.033	99.574	
420																								0.065	99.640	
430																								0.000	99.640	
440																								0.000	99.640	
450																								0.000	99.640	
460																								0.262	99.902	
470																								0.000	99.902	
480																								0.000	99.902	
490																								0.000	99.902	
500																								0.000	99.902	
510																								0.000	99.902	
520																								0.000	99.902	
530																								0.000	99.902	
540																								0.098	100.000	

REMAINING VALUES ARE ALL ZERO
 NUMBER OF OBSERVATIONS= 1055 SUM= 79470 MEAN= 26.013 VAR= 1503.213 SD= 39.

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

7FEB78 TRIP LENGTH FREQUENCY DISTRIBUTION-STANDISH

	0	3	6	9	12	15	18	21	24	27	30	33	36	39	42	45	48	51	54	57	60	P.C.	CUM.	AC
10																					18.580	18.580	
20																					54.593	73.173	
30																					84.455	81.828	
40																					4.288	85.908	
50																					7.203	93.111	
60																					0.426	93.737	
70																					0.108	93.841	
80																					0.439	94.781	
90																					1.357	96.138	
100																					0.000	96.138	
110																					0.313	96.451	
120																					2.192	98.643	
130																					0.209	98.852	
140																					0.209	99.061	
150																					0.000	99.061	
160																					0.313	99.374	
170																					0.000	99.374	
180																					0.209	99.582	
190																					0.000	99.582	
200																					0.209	99.791	
210																					0.000	99.791	
220																					0.000	99.791	
230																					0.108	99.896	
240																					0.000	99.896	
250																					0.108100.000		

REMAINING VALUES ARE ALL ZERO
 NUMBER OF OBSERVATIONS= 958 SUM= 22027 MEAN= 22.993 VAR= 763.696 SD= 27

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

7FEB78

TRIP LENGTH FREQUENCY DISTRIBUTION-STANDISH

PAGE 4

0	3	6	9	12	15	18	21	24	27	30	33	36	39	42	45	48	51	54	57	60	P.C.	CUM.	AC	
10																						27.396	27.396	
20																						52.675	80.071	
30																						4.997	85.068	
40																						2.822	87.890	
50																						9.327	97.217	
60																						0.353	97.590	
70																						0.059	97.648	
80																						0.647	98.295	
90																						0.647	98.942	
100																						0.000	98.942	
110																						0.000	98.942	
120																						0.000	98.942	
130																						0.000	98.942	
140																						0.000	98.942	
150																						0.118	99.059	
160																						0.118	99.177	
170																						0.000	99.177	
180																						0.174	99.353	
190																						0.000	99.353	
200																						0.118	99.471	
210																						0.298	99.765	
220																						0.000	99.765	
230																						0.000	99.765	
240																						0.000	99.765	
250																						0.000	99.765	
260																						0.000	99.765	
270																						0.000	99.765	
280																						0.000	99.765	
290																						0.000	99.765	
300																						0.000	99.765	
310																						0.000	99.765	
320																						0.000	99.765	
330																						0.000	99.765	
340																						0.000	99.765	
350																						0.118	99.882	
360																						0.000	99.882	
370																						0.000	99.882	
380																						0.000	99.882	
390																						0.118	100.000	

REMAINING VALUES ARE ALL ZERO
 NUMBER OF OBSERVATIONS= 1701 SUM= 31873 MEAN= 18.736 VAR= 694.494 SD= 26

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

7FEB78

TRIP LENGTH FREQUENCY DISTRIBUTION-BTANDISH

TRIP LENGTH	FREQUENCY	P.C.	CUM.	ACT
0	4.082	4.082	
10	27.551	31.633	
20	0.000	31.633	
30	1.020	32.653	
40	9.184	41.837	
50	3.061	44.898	
60	4.082	48.980	
70	4.082	53.061	
80	3.061	56.122	
90	1.020	57.143	
100	2.041	59.184	
110	4.082	63.265	
120	1.020	64.286	
130	4.082	68.367	
140	7.143	75.510	
150	15.306	90.816	
160	0.000	90.816	
170	4.082	94.898	
180	0.000	94.898	
190	0.000	94.898	
200	1.020	95.918	
210	0.000	95.918	
220	0.000	95.918	
230	1.020	96.939	
240	1.020	97.959	
250	0.000	97.959	
260	0.000	97.959	
270	0.000	97.959	
280	0.000	97.959	
290	0.000	97.959	
300	0.000	97.959	
310	0.000	97.959	
320	0.000	97.959	
330	0.000	97.959	
340	0.000	97.959	
350	0.000	97.959	
360	0.000	97.959	
370	0.000	97.959	
380	0.000	97.959	
390	0.000	97.959	
400	0.000	97.959	
410	0.000	97.959	
420	0.000	97.959	
430	0.000	97.959	
440	0.000	97.959	
450	0.000	97.959	
460	0.000	97.959	
470	0.000	97.959	
480	0.000	97.959	
490	0.000	97.959	
500	0.000	97.959	
510	0.000	97.959	
520	0.000	97.959	
530	0.000	97.959	
540	0.000	97.959	
550	0.000	97.959	
560	0.000	97.959	
570	0.000	97.959	
580	0.000	97.959	
590	1.020	98.980	
600	0.000	98.980	
610	0.000	98.980	
620	0.000	98.980	
630	0.000	98.980	
640	0.000	98.980	
650	1.020	100.000	

REMAINING VALUES ARE ALL ZERO
 NUMBER OF OBSERVATIONS = 98 SUM = 9193 MEAN = 93.806 VAR = 9760.490 SD = 98.8

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

7FEB78

TRIP LENGTH FREQUENCY DISTRIBUTION-STANDISH

PAGE 6

	0	3	6	9	12	15	18	21	24	27	30	33	36	39	42	45	48	51	54	57	60	P.C.	CUM.	ACT	
10																							28,387	28,387	
20																							48,404	76,790	
30																							5,436	82,226	
40																							1,710	83,936	
50																							6,299	90,235	
60																							0,949	91,184	
70																							0,863	92,047	
80																							0,173	92,219	
90																							2,137	94,356	
100																							0,000	94,356	
110																							0,086	94,442	
120																							0,608	95,050	
130																							0,000	95,050	
140																							0,518	95,568	
150																							0,000	95,568	
160																							0,431	95,999	
170																							0,173	96,172	
180																							0,318	96,490	
190																							0,173	96,663	
200																							0,000	96,663	
210																							0,000	96,663	
220																							0,000	96,663	
230																							0,348	97,011	
240																							0,000	97,011	
250																							0,000	97,011	
260																							0,000	97,011	
270																							0,000	97,011	
280																							0,000	97,011	
290																							0,000	97,011	
300																							0,000	97,011	
310																							0,000	97,011	
320																							0,000	97,011	
330																							0,000	97,011	
340																							0,000	97,011	
350																							0,431	97,442	
360																							0,000	97,442	
370																							0,000	97,442	
380																							0,000	97,442	
390																							0,086	97,528	
400																							0,000	97,528	
410																							0,000	97,528	
420																							0,000	97,528	
430																							0,000	97,528	
440																							0,608	98,136	
450																							0,000	98,136	
460																							0,000	98,136	
470																							0,000	98,136	
480																							0,086	98,222	
490																							0,000	98,222	
500																							0,000	98,222	
510																							0,086	98,308	
520																							0,000	98,308	
530																							0,086	98,394	

REMAINING VALUES ARE ALL ZERO
 NUMBER OF OBSERVATIONS 1159 SUM 28523 MEAN 24,610 VAR 1968,281 STD 44

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

7FEB78 TRIP LENGTH FREQUENCY DISTRIBUTION-STANDISH

	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	.....																					25.355	25.355					
20	.....																					46.919	72.275					
30	.....																					7.701	79.976					
40	.....																					5.532	85.508					
50	.....																					10.782	96.290					
60	.....																					0.829	97.119					
70	.....																					0.474	97.593					
80	.....																					0.000	97.593					
90	.....																					0.592	98.185					
100	.....																					0.118	98.303					
110	.....																					0.000	98.303					
120	.....																					0.355	98.658					
130	.....																					0.000	98.658					
140	.....																					0.000	98.658					
150	.....																					0.829	99.487					
160	.....																					0.592	100.079					
170	.....																					0.118	100.197					
REMAINING VALUES ARE ALL ZERO																													
NUMBER OF OBSERVATIONS	644																					SUM	17600.	MEAN	20.853	VAR	507.832	SD	22.5
TOTAL TRIPS OVER MAXP	= 0																												
TOTAL TRIPS OVER 255	= 0																												
VOLUME TABLE NUMBER	= 206																												
SKIM TREE NUMBER	= 101																												

7FEB78

TRIP LENGTH FREQUENCY DISTRIBUTION-STANDISH

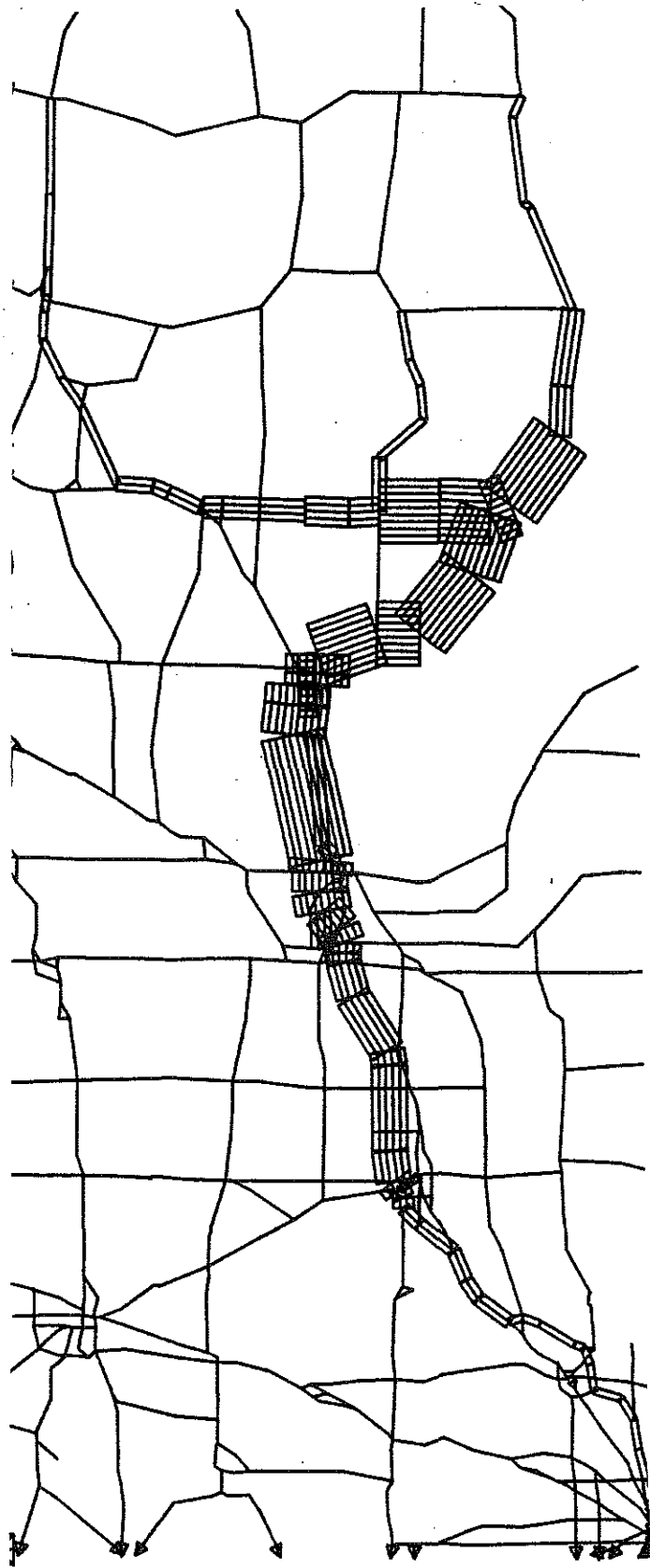
PAGE 8

	0	3	6	9	12	15	18	21	24	27	30	33	36	39	42	45	48	51	54	57	60	P.C.	CUM.	ACT.	
10																							24.491	24.491	
20																							47.191	71.683	
30																							6.820	78.503	
40																							4.888	83.391	
50																							10.326	93.717	
60																							0.883	94.600	
70																							0.335	94.935	
80																							0.589	95.524	
90																							1.267	96.791	
100																							0.128	96.919	
110																							0.102	97.021	
120																							0.653	97.674	
130																							0.038	97.712	
140																							0.371	98.083	
150																							0.269	98.352	
160																							0.561	98.913	
170																							0.077	99.002	
180																							0.205	99.207	
190																							0.036	99.243	
200																							0.141	99.384	
210																							0.064	99.448	
220																							0.000	99.448	
230																							0.115	99.563	
240																							0.013	99.576	
250																							0.000	99.576	
260																							0.000	99.576	
270																							0.000	99.576	
280																							0.038	99.614	
290																							0.000	99.614	
300																							0.000	99.614	
310																							0.000	99.614	
320																							0.000	99.614	
330																							0.000	99.614	
340																							0.000	99.614	
350																							0.000	99.614	
360																							0.000	99.614	
370																							0.000	99.614	
380																							0.000	99.614	
390																							0.038	99.652	
400																							0.000	99.652	
410																							0.013	99.665	
420																							0.026	99.691	
430																							0.000	99.691	
440																							0.000	99.691	
450																							0.000	99.691	
460																							0.102	99.793	
470																							0.011	99.804	
480																							0.000	99.804	
490																							0.000	99.804	
500																							0.013	99.817	
510																							0.000	99.817	
520																							0.000	99.817	
530																							0.013	99.830	
540																							0.038	99.868	
550																							0.000	99.868	
560																							0.000	99.868	
570																							0.000	99.868	
580																							0.000	99.868	
590																							0.013	99.881	
600																							0.000	99.881	
610																							0.000	99.881	
620																							0.000	99.881	
630																							0.000	99.881	
640																							0.000	99.881	
650																							0.013	100.000	

REMAINING VALUES ARE ALL ZERO
NUMBER OF OBSERVATIONS= 7815

SUM= 188686 MEAN= 24.144 VAR= 1402.773 SD= 37.

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



TAWAS BANDWIDTH

TAWAS

EXTERNAL ORIGIN=DESTINATION INTERVIEW

TERMINAL=TRIP SUMMARY TABLE

VEHICLE TYPE

-----	CAR W/O TRLR	CAR W/ TRLR	PICK-UP W/O/TRLR	PICK-UP W/ TRLR	SINGLE-UNIT TRUCKS	COMBINATION TRUCKS
	81.1% 9810	1.5% 182	12.0% 1456	0.5% 62	4.0% 481	0.9% 106

TRIP PURPOSE

-----	WORK	PERS BIZ	SHOP	VACATION	SOC=REC	OTHER
	30.3% 3669	9.1% 1100	23.2% 2803	6.7% 809	23.6% 2851	7.1% 864

NUMBER IN VEHICLE

-----	1	2	3	4	5	6+
	47.0% 5681	28.2% 3407	10.8% 1309	7.2% 875	3.3% 404	3.5% 421

VEHICLE GARAGED AT

-----	ORIGIN	DESTIN	OTHER
	39.4% 4771	31.9% 3863	28.6% 3463

TOTAL TRIPS = 12097

MINOR

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

TRIP PURPOSE

# IN VEH.	WORK	PERS BIZ	SHGP	VACATION	SOC-REC	OTHER
1	78.9% 2896	45.5% 500	36.8% 1032	10.0% 81	30.0% 855	36.7% 317
2	16.0% 585	33.9% 373	33.9% 951	34.2% 277	32.4% 923	34.5% 298
3	3.5% 127	11.4% 125	13.1% 368	18.2% 147	15.2% 432	12.7% 110
4	1.2% 45	5.8% 63	9.4% 262	18.4% 149	10.1% 288	7.8% 68
5	0.3% 13	2.1% 23	3.6% 102	9.7% 79	5.4% 155	3.7% 32
6+	0.1% 3	1.5% 16	3.1% 88	9.5% 77	7.0% 199	4.5% 39
TOTAL	100% 3669	100% 1100	100% 2803	100% 809	100% 2851	100% 864

TOTAL TERMINAL-TRIPS FOR TAWAS = 12097

MINOR

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

TRIP PURPOSE

VEH TYPE	WORK	PERS BIZ	SHOP	VACATION	SOC-REC	OTHER
CAR W/O TRLR	62.8% 2302	87.7% 965	90.0% 2524	79.5% 643	90.9% 2591	90.8% 784
CAR W/ TRLR	0.4% 16	1.4% 16	0.7% 21	9.5% 77	1.6% 45	0.8% 7
PICK-UP W/O/TRLR	23.0% 843	9.8% 108	7.9% 222	4.9% 40	6.4% 184	6.8% 59
PICK-UP W/ TRLR	1.1% 40	0.0% 0	0.2% 5	1.0% 8	0.2% 7	0.2% 1
SINGLE-UNIT TRUCKS	10.0% 368	1.0% 11	1.0% 27	5.1% 41	0.8% 22	1.4% 12
COMBINATION TRUCKS	2.7% 99	0.0% 0	0.1% 3	0.0% 0	0.1% 4	0.0% 0
TOTAL	100% 3669	100% 1100	100% 2803	100% 809	100% 2851	100% 864

TOTAL TERMINAL-TRIPS FOR TAWAS = 12097

6FEB78

TRIP LENGTH FREQUENCY DISTRIBUTION-TAMAS

PAGE 2

0	2	4	6	8	10	12	14	16	18	20	22	24	26	28	30	32	34	36	38	40	P.C.	CUM.	
10																						12.007	12.007
20																						25.565	37.571
30																						20.964	58.535
40																						21.454	79.989
50																						3.784	83.773
60																						3.185	86.959
70																						1.171	88.130
80																						2.151	90.280
90																						3.430	93.711
100																						2.124	95.834
110																						0.381	96.216
120																						0.136	96.352
130																						0.272	96.624
140																						0.790	97.414
150																						0.082	97.495
160																						0.136	97.631
170																						0.327	97.958
180																						0.245	98.203
190																						0.436	98.639
200																						0.218	98.857
210																						0.626	99.483
220																						0.000	99.483
230																						0.109	99.592
240																						0.000	99.592
250																						0.163	99.755
260																						0.000	99.755
270																						0.000	99.755
280																						0.054	99.809
290																						0.000	99.809
300																						0.000	99.809
310																						0.000	99.809
320																						0.027	99.837
330																						0.000	99.837
340																						0.000	99.837
350																						0.000	99.837
360																						0.000	99.837
370																						0.000	99.837
380																						0.000	99.837
390																						0.000	99.837
400																						0.000	99.837
410																						0.000	99.837
420																						0.254	99.891
430																						0.000	99.891
440																						0.000	99.891
450																						0.000	99.891
460																						0.000	99.891
470																						0.000	99.891
480																						0.000	99.891
490																						0.000	99.891
500																						0.000	99.891
510																						0.000	99.891
520																						0.000	99.891
530																						0.000	99.891
540																						0.000	99.891
550																						0.000	99.891
560																						0.000	99.891

REMAINING VALUES ARE ALL ZERO
 NUMBER OF OBSERVATIONS= 3673 SUM= 132766 MEAN= 36.146 VAR= 1531.622 SD=

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

6FE070

TRIP LENGTH FREQUENCY DISTRIBUTION-TAWAS

PAGE 3

0	2	4	6	8	10	12	14	16	18	20	22	24	26	28	30	32	34	36	38	40	P.C.	CUM.	A	
10.....																						9.182	9.182	
20.....																						23.819	33.000	
30.....																						19.091	52.091	
40.....																						25.727	77.818	
50.....																						3.727	81.545	
60.....																						3.273	84.818	
70.....																						0.636	85.455	
80.....																						1.909	87.364	
90.....																						2.182	89.545	
100.....																						2.636	92.182	
110.....																						0.182	92.364	
120.....																						0.091	92.455	
130.....																						0.091	92.545	
140.....																						1.636	94.182	
150.....																						0.636	94.818	
160.....																						0.545	95.364	
170.....																						0.818	96.182	
180.....																						0.818	96.999	
190.....																						1.000	97.999	
200.....																						1.273	99.182	
210.....																						0.364	99.545	
220.....																						0.000	99.545	
230.....																						0.000	99.545	
240.....																						0.182	99.727	
250.....																						0.000	99.727	
260.....																						0.000	99.727	
270.....																						0.000	99.727	
280.....																						0.000	99.727	
290.....																						0.000	99.727	
300.....																						0.000	99.727	
310.....																						0.000	99.727	
320.....																						0.000	99.727	
330.....																						0.000	99.727	
340.....																						0.000	99.727	
350.....																						0.000	99.727	
360.....																						0.000	99.727	
370.....																						0.000	99.727	
380.....																						0.000	99.727	
390.....																						0.000	99.727	
400.....																						0.000	99.727	
410.....																						0.000	99.727	
420.....																						0.273	100.000	

REMAINING VALUES ARE ALL ZERO

NUMBER OF OBSERVATIONS= 1100 SUM= 46450. MEAN= 42.227 VAR= 2244.556 SD= 47

TOTAL TRIPS OVER MAXP = 0
 TOTAL TRIPS OVER 255 = 0
 VOLUME TABLE NUMBER = 232
 SKIM TREE NUMBER = 101

6FEB78 TRIP LENGTH FREQUENCY DISTRIBUTION-TAMAS

TRIP LENGTH	FREQUENCY	P.C.	CUM. A.
0		
2		
4		
6		
8		
10		
12		
14		
16		
18		
20		
22		
24		
26		
28		
30		
32		
34		
36		
38		
40		
10	15.319	15.319
20	31.493	46.812
30	17.207	64.019
40	25.900	89.918
50	2.250	92.168
60	1.140	93.308
70	0.891	94.229
80	1.031	95.262
90	1.669	96.931
100	0.606	97.536
110	0.000	97.536
120	0.249	97.786
130	0.107	97.893
140	0.606	98.499
150	0.007	98.506
160	0.249	98.755
170	0.143	98.898
180	0.143	99.041
190	0.000	99.041
200	0.356	99.397
210	0.606	99.999
220	0.000	99.999
230	0.000	99.999
240	0.000	99.999
250	0.178	99.999
260	0.071	99.999
270	0.000	99.999
280	0.143	99.999
290	0.000	99.999
300	0.000	99.999
310	0.000	99.999
320	0.000	99.999
330	0.000	99.999
340	0.000	99.999
350	0.000	99.999
360	0.000	99.999
370	0.000	99.999
380	0.000	99.999
390	0.000	99.999
400	0.000	99.999
410	0.000	99.999
420	0.214	100.000

REMAINING VALUES ARE ALL ZERO
 NUMBER OF OBSERVATIONS= 2807 SUM= 82745. MEAN= 29.478 VAR= 1204.093 SD= 3

TOTAL TRIPS OVER HAMP = 0
 TOTAL TRIPS OVER 255 = 0
 VOLUME TABLE NUMBER = 233
 SKIN TREE NUMBER = 101

6FEB78

TRIP LENGTH FREQUENCY DISTRIBUTION-TAWAS

	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	P.C.	CUM.	
10.....																							1.840	1.840
20.....																							11.656	13.497
30.....																							13.865	27.362
40.....																							12.515	39.877
50.....																							2.822	42.699
60.....																							1.227	43.926
70.....																							1.963	45.890
80.....																							2.331	48.221
90.....																							4.908	53.129
100.....																							7.239	60.368
110.....																							0.982	61.350
120.....																							1.104	62.454
130.....																							1.150	63.604
140.....																							6.258	70.061
150.....																							1.595	71.656
160.....																							0.491	72.147
170.....																							2.577	74.724
180.....																							1.840	76.564
190.....																							1.718	78.282
200.....																							1.477	79.755
210.....																							10.429	90.184
220.....																							0.859	91.043
230.....																							0.859	91.902
240.....																							0.982	92.883
250.....																							1.840	94.724
260.....																							0.859	95.583
270.....																							0.245	95.828
280.....																							0.368	96.196
290.....																							0.736	96.933
300.....																							0.368	97.301
310.....																							0.000	97.301
320.....																							0.000	97.301
330.....																							0.368	97.669
340.....																							0.245	97.914
350.....																							0.491	98.405
360.....																							0.245	98.650
370.....																							0.245	98.896
380.....																							0.000	98.896
390.....																							0.000	98.896
400.....																							0.000	98.896
410.....																							0.000	98.896
420.....																							0.000	98.896
430.....																							0.000	98.896
440.....																							0.000	98.896
450.....																							0.000	98.896
460.....																							0.000	98.896
470.....																							0.245	99.141
480.....																							0.000	99.141
490.....																							0.000	99.141
500.....																							0.000	99.141
510.....																							0.000	99.141
520.....																							0.000	99.141
530.....																							0.000	99.141
540.....																							0.000	99.141
550.....																							0.000	99.141
560.....																							0.000	99.141
570.....																							0.000	99.141
580.....																							0.000	99.141
590.....																							0.000	99.141
600.....																							0.000	99.141
610.....																							0.000	99.141
620.....																							0.000	99.141
630.....																							0.491	99.632
640.....																							0.000	99.632
650.....																							0.000	99.632
660.....																							0.000	99.632
670.....																							0.000	99.632
680.....																							0.000	99.632
690.....																							0.000	99.632
700.....																							0.000	99.632
710.....																							0.000	99.632
720.....																							0.000	99.632
730.....																							0.000	99.632
740.....																							0.000	99.632
750.....																							0.000	99.632

REMAINING VALUES ARE ALL ZERO
 NUMBER OF OBSERVATIONS= 815 SUM= 86616. MEAN= 106.277 VAR= 10119.075 SD= 101.075

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

6FE878

TRIP LENGTH FREQUENCY DISTRIBUTION-TAMAS

PAGE 6

TRIP LENGTH	FREQUENCY	P.C.	CUM.
10	9.372	9.372
20	33.134	42.506
30	15.725	58.231
40	17.866	76.097
50	2.738	78.835
60	2.317	81.151
70	1.404	82.555
80	1.367	83.924
90	3.299	87.224
100	3.791	91.014
110	0.246	91.260
120	0.562	91.822
130	0.140	91.962
140	2.492	94.454
150	0.421	94.875
160	0.211	95.086
170	0.316	95.402
180	0.527	95.928
190	0.667	96.595
200	0.732	97.297
210	1.790	99.087
220	0.140	99.228
230	0.070	99.298
240	0.035	99.333
250	0.140	99.473
260	0.035	99.509
270	0.000	99.509
280	0.000	99.509
290	0.070	99.579
300	0.035	99.614
310	0.000	99.614
320	0.000	99.614
330	0.035	99.649
340	0.000	99.649
350	0.035	99.684
360	0.000	99.684
370	0.000	99.684
380	0.000	99.684
390	0.000	99.684
400	0.000	99.684
410	0.000	99.684
420	0.140	99.824
430	0.000	99.824
440	0.000	99.824
450	0.000	99.824
460	0.000	99.824
470	0.000	99.824
480	0.000	99.824
490	0.000	99.824
500	0.000	99.824
510	0.000	99.824
520	0.000	99.824
530	0.000	99.824
540	0.000	99.824
550	0.000	99.824
560	0.000	99.824
570	0.000	99.824
580	0.000	99.824
590	0.000	99.824
600	0.000	99.824
610	0.070	99.895
620	0.000	99.895
630	0.035	99.930
640	0.000	99.930
650	0.000	99.930
660	0.000	99.930
670	0.000	99.930
680	0.000	99.930
690	0.000	99.930
700	0.000	99.930
710	0.000	99.930
720	0.000	99.930
730	0.000	99.930
740	0.000	99.930
750	0.070	100.000

REMAINING VALUES ARE ALL ZERO
 NUMBER OF OBSERVATIONS= 2849 SUM= 121662 MEAN= 42.701 VAR= 3052.601 SD= 55

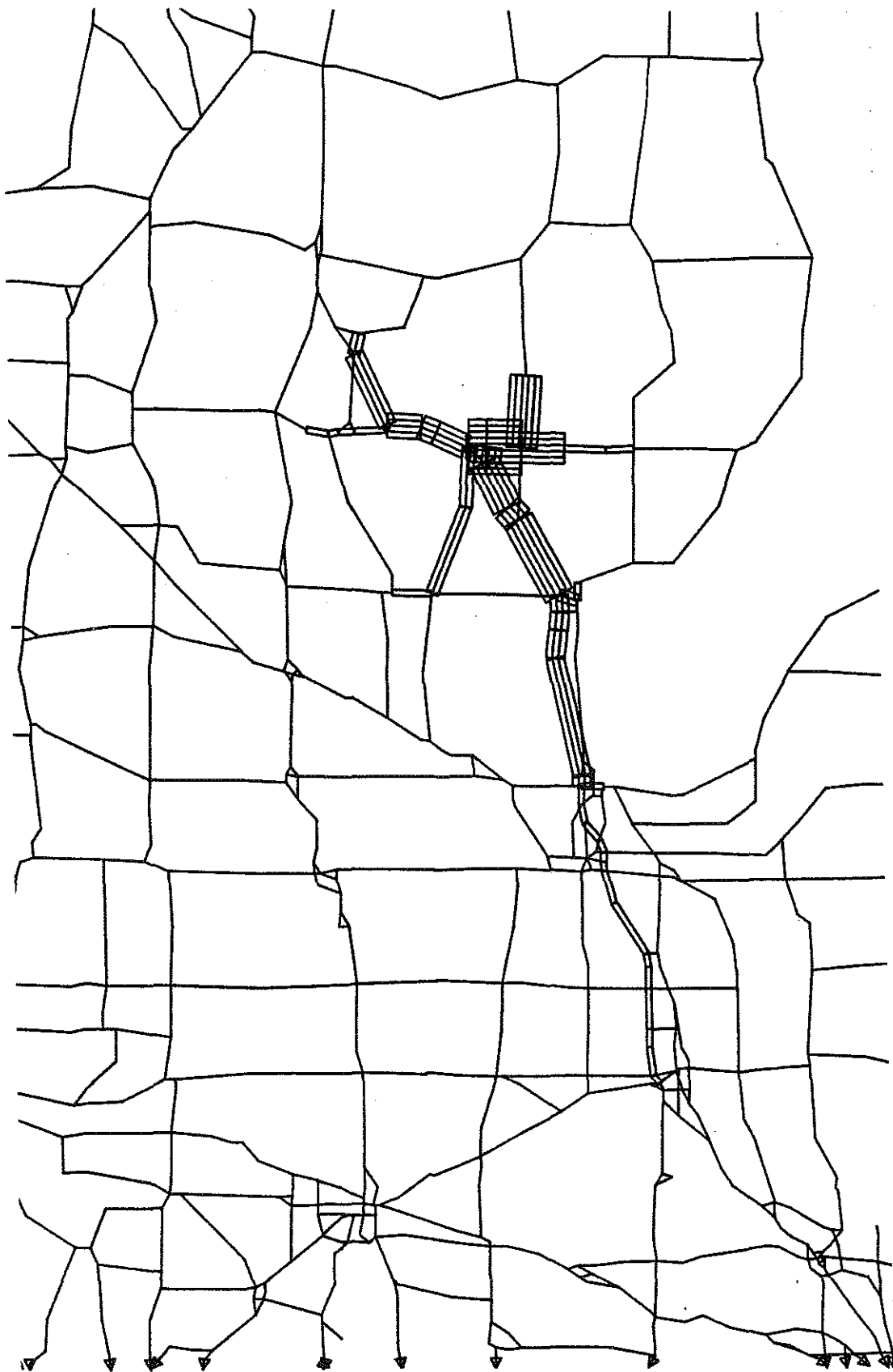
TOTAL TRIPS OVER MAXP = 0
 TOTAL TRIPS OVER 255 = 1
 VOLUME TABLE NUMBER = 205
 SKIM TREE NUMBER = 101

6FEB78 TRIP LENGTH FREQUENCY DISTRIBUTION-TAMAS

TRIP LENGTH	FREQUENCY	P.C.	CUM.
0		
2		
4		
6		
8		
10		
12		
14		
16		
18		
20		
22		
24		
26		
28		
30		
32		
34		
36		
38		
40		
10	12.326	12.326
20	27.674	40.000
30	17.907	57.907
40	25.930	83.837
50	3.837	87.674
60	1.395	89.070
70	0.698	89.767
80	1.512	91.279
90	2.674	93.953
100	1.395	95.349
110	0.349	95.698
120	0.698	96.395
130	0.581	96.977
140	0.581	97.558
150	0.349	97.907
160	0.000	97.907
170	0.233	98.140
180	0.116	98.256
190	0.349	98.605
200	0.581	99.186
210	0.233	99.419
220	0.000	99.419
230	0.000	99.419
240	0.000	99.419
250	0.000	99.419
260	0.000	99.419
270	0.000	99.419
280	0.000	99.419
290	0.233	99.651
300	0.000	99.651
310	0.000	99.651
320	0.000	99.651
330	0.000	99.651
340	0.000	99.651
350	0.000	99.651
360	0.000	99.651
370	0.000	99.651
380	0.000	99.651
390	0.000	99.651
400	0.000	99.651
410	0.000	99.651
420	0.116	99.767
430	0.000	99.767
440	0.233	100.000

REMAINING VALUES ARE ALL ZERO
 NUMBER OF OBSERVATIONS= 860 SUM= 29674. MEAN= 34.505 VAR= 1659.117 SD= 40

TOTAL TRIPS OVER MAXP = 3
 TOTAL TRIPS OVER 255 = 0
 VOLUME TABLE NUMBER = 206
 SKIM TREE NUMBER = 191



WBRANCH BANDWIDTH

WBRANCH

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
73.9% 9066	1.0% 120	18.7% 2291	0.5% 59	3.9% 484	2.0% 251

TRIP PURPOSE

WORK	PERS BIZ	SHOP	VACATION	SOC=REC	OTHER
37.3% 4573	9.5% 1161	24.5% 3011	2.2% 271	14.1% 1728	12.4% 1527

NUMBER IN VEHICLE

1	2	3	4	5	6+
53.5% 6567	26.9% 3300	9.8% 1197	5.6% 693	2.3% 287	1.9% 228

VEHICLE GARAGED AT

ORIGIN	DESTIN	OTHER
41.2% 5061	34.4% 4226	24.3% 2985

TOTAL TRIPS = 12271

MINOR

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

TRIP PURPOSE

# IN VEH.	WORK	PERS BIZ	SHCP	VACATION	SOC-REC	OTHER
1	79.4% 3632	42.5% 494	38.5% 1159	6.0% 16	35.9% 620	42.3% 647
2	15.2% 694	35.2% 409	34.8% 1049	41.7% 113	31.1% 538	32.6% 497
3	4.0% 182	12.4% 144	12.9% 388	19.5% 53	13.5% 234	12.9% 197
4	0.9% 40	6.1% 71	8.4% 252	15.5% 42	10.8% 186	6.6% 101
5	0.4% 19	2.7% 32	2.5% 77	10.0% 27	4.1% 71	4.0% 61
6+	0.1% 7	1.0% 11	2.9% 88	7.2% 20	4.6% 79	1.5% 23
TOTAL	100% 4573	100% 1161	100% 3011	100% 271	100% 1728	100% 1527

TOTAL TERMINAL-TRIPS FOR WBRANCH = 12271

MINOR

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

TRIP PURPOSE

VEH TYPE	WORK	PERS BIZ	SHOP	VACATION	SOC-REC	OTHER
CAR W/O TRLR	57.3% 2620	81.3% 944	82.7% 2490	82.3% 223	87.0% 1503	84.3% 1287
CAR W/ TRLR	0.6% 27	1.1% 13	1.0% 31	7.7% 21	0.8% 13	1.0% 15
PICK-UP W/O/TRLR	26.7% 1219	16.8% 195	14.9% 448	8.0% 22	11.4% 197	13.8% 210
PICK-UP W/ TRLR	0.6% 27	0.1% 1	0.5% 15	0.9% 3	0.5% 8	0.3% 4
SINGLE-UNIT TRUCKS	9.5% 435	0.4% 5	0.9% 27	1.0% 3	0.4% 7	0.5% 8
COMBINATION TRUCKS	5.4% 245	0.2% 2	0.0% 1	0.0% 0	0.0% 0	0.2% 2
TOTAL	100% 4573	100% 1161	100% 3011	100% 271	100% 1728	100% 1527

TOTAL TERMINAL-TRIPS FOR WBRANCH = 12271

21FEB78

TRIP LENGTH FREQUENCY DISTRIBUTION-WBRANCH

PAGE 2

	0	3	6	9	12	15	18	21	24	27	30	33	36	39	42	45	48	51	54	57	60	P.C.	CUM.	AC	
10.																							0.000	0.000	
20.																							47.065	47.065	
30.																							19.018	66.075	
40.																							8.018	74.091	
50.																							10.753	84.845	
60.																							2.385	87.210	
70.																							4.882	92.072	
80.																							2.453	94.525	
90.																							0.350	94.875	
100.																							0.438	95.313	
110.																							0.197	95.510	
120.																							0.858	96.368	
130.																							0.418	96.781	
140.																							0.110	96.890	
150.																							0.241	97.131	
160.																							0.110	97.240	
170.																							0.418	97.657	
180.																							0.197	97.854	
190.																							0.657	98.511	
200.																							0.350	98.861	
210.																							0.022	98.883	
220.																							0.394	99.277	
230.																							0.048	99.321	
240.																							0.131	99.452	
250.																							0.197	99.650	
260.																							0.000	99.650	
270.																							0.175	99.825	
280.																							0.000	99.825	
290.																							0.048	99.869	
300.																							0.000	99.869	
310.																							0.000	99.869	
320.																							0.022	99.890	
330.																							0.000	99.890	
340.																							0.000	99.890	
350.																							0.000	99.890	
360.																							0.000	99.890	
370.																							0.000	99.890	
380.																							0.000	99.890	
390.																							0.000	99.890	
400.																							0.000	99.890	
410.																							0.000	99.890	
420.																							0.000	99.890	
430.																							0.000	99.890	
440.																							0.048	99.934	
450.																							0.000	99.934	
460.																							0.000	99.934	
470.																							0.000	99.934	
480.																							0.048	99.978	
490.																							0.000	99.978	
500.																							0.000	99.978	
510.																							0.000	99.978	
520.																							0.000	99.978	
530.																							0.000	99.978	
540.																							0.000	99.978	
550.																							0.000	99.978	
560.																							0.000	99.978	
570.																							0.000	99.978	
580.																							0.000	99.978	
590.																							0.000	99.978	
600.																							0.000	99.978	
610.																							0.000	99.978	
620.																							0.000	99.978	
630.																							0.000	99.978	
640.																							0.000	99.978	
650.																							0.000	99.978	
660.																							0.000	99.978	
670.																							0.000	99.978	
680.																							0.000	99.978	
690.																							0.000	99.978	
700.																							0.000	99.978	
710.																							0.000	99.978	
720.																							0.000	99.978	
730.																							0.000	99.978	
740.																							0.000	99.978	
750.																							0.000	99.978	

REMAINING VALUES ARE ALL ZERO
NUMBER OF OBSERVATIONS 4566 SUM 157863 MEAN 34.574 VAR 1615.316 SD 40

TOTAL TRIPS OVER MAXP 1
TOTAL TRIPS OVER 255 0
VOLUME TABLE NUMBER 201
SKIM TREE NUMBER 101

81F876 TRIP LENGTH FREQUENCY DISTRIBUTION-WBRANCH

TRIP LENGTH	FREQUENCY	P.C.	CUM.	ACTU
0				
2				
4				
6				
8				
10				
12				
14				
16				
18				
20				
22				
24				
26				
28				
30				
32				
34				
36				
38				
40				
10.		0.000	0.000	
20.		34.635	34.635	
30.		25.438	60.073	
40.		12.674	72.747	
50.		12.500	85.247	
60.		1.736	86.983	
70.		0.076	87.059	
80.		0.321	87.380	
90.		1.042	88.422	
100.		0.260	88.682	
110.		0.260	88.942	
120.		0.868	89.810	
130.		0.260	90.070	
140.		0.367	90.437	
150.		0.087	90.524	
160.		0.260	90.784	
170.		0.321	91.105	
180.		0.608	91.713	
190.		0.608	92.321	
200.		0.781	93.102	
210.		0.000	93.102	
220.		0.434	93.536	
230.		0.000	93.536	
240.		0.000	93.536	
250.		0.000	93.536	
260.		0.087	93.623	

REMAINING VALUES ARE ALL ZERO
 NUMBER OF OBSERVATIONS 1152 SUM 42490 MEAN 36.856 VAR 1236.566 SD 35.15

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

ZIF876 TRIP LENGTH FREQUENCY DISTRIBUTION-ORANPH

PAGE 4

TRIP LENGTH	FREQUENCY	P.C.	CUM.	ACTU
0		0.000	0.000	
3		0.000	0.000	
6		0.000	0.000	
9		0.000	0.000	
12		0.000	0.000	
15		0.000	0.000	
18		0.000	0.000	
21		0.000	0.000	
24		0.000	0.000	
27		0.000	0.000	
30		0.000	0.000	
33		0.000	0.000	
36		0.000	0.000	
39		0.000	0.000	
42		0.000	0.000	
45		0.000	0.000	
48		0.000	0.000	
51		0.000	0.000	
54		0.000	0.000	
57		0.000	0.000	
60		0.000	0.000	
10		0.000	0.000	
20		40.285	40.285	
30		20.558	60.844	
40		9.797	70.640	
50		12.529	83.170	
60		0.800	83.970	
70		2.946	86.915	
80		0.500	87.415	
90		0.133	87.548	
100		0.400	87.948	
110		0.233	88.181	
120		0.555	88.736	
130		0.200	88.936	
140		0.200	89.136	
150		0.033	89.170	
160		0.167	89.337	
170		0.267	89.604	
180		0.400	90.004	
190		0.367	90.371	
200		0.066	90.437	
210		0.067	90.504	
220		0.400	90.904	
230		0.100	91.004	
240		0.000	91.004	
250		0.067	91.071	
260		0.033	91.104	
270		0.033	91.137	
280		0.000	91.137	
290		0.000	91.137	
300		0.000	91.137	
310		0.000	91.137	
320		0.067	91.204	
330		0.033	91.237	
340		0.000	91.237	
350		0.000	91.237	
360		0.000	91.237	
370		0.033	91.270	
380		0.000	91.270	
390		0.000	91.270	
400		0.033	91.304	

REMAINING VALUES ARE ALL ZERO
 NUMBER OF OBSERVATIONS# 3001 SUM# 96642 MEAN# 32.203 VAR# 1249.008 SD# 35.1

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

21FEB78

TRIP LENGTH FREQUENCY DISTRIBUTION-NBRANCH

	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	P.C.	CUM.	AC	
10																							0.000	0.000	
20																							10.305	10.305	
30																							11.069	21.374	
40																							4.015	25.389	
50																							4.779	30.168	
60																							4.489	34.658	
70																							3.817	38.475	
80																							3.725	42.200	
90																							0.743	42.943	
100																							0.382	43.325	
110																							0.743	44.068	
120																							3.725	47.793	
130																							0.382	48.175	
140																							1.145	49.320	
150																							0.382	49.702	
160																							4.489	54.191	
170																							4.198	58.389	
180																							1.908	60.297	
190																							9.924	70.221	
200																							2.290	72.511	
210																							1.145	73.656	
220																							0.743	74.399	
230																							2.672	77.071	
240																							0.000	77.071	
250																							0.382	77.453	
260																							1.145	78.598	
270																							1.527	80.125	
280																							0.382	80.507	
290																							0.000	80.507	
300																							0.000	80.507	
310																							0.000	80.507	
320																							0.382	80.889	
330																							0.000	80.889	
340																							0.000	80.889	
350																							0.000	80.889	
360																							0.000	80.889	
370																							0.000	80.889	
380																							0.000	80.889	
390																							0.000	80.889	
400																							0.000	80.889	
410																							0.000	80.889	
420																							0.000	80.889	
430																							0.000	80.889	
440																							0.000	80.889	
450																							0.000	80.889	
460																							0.000	80.889	
470																							0.000	80.889	
480																							0.000	80.889	
490																							0.000	80.889	
500																							0.000	80.889	
510																							0.382	81.271	
520																							0.000	81.271	
530																							0.000	81.271	
540																							0.000	81.271	
550																							0.000	81.271	
560																							0.000	81.271	
570																							0.000	81.271	
580																							0.000	81.271	
590																							0.000	81.271	
600																							0.000	81.271	
610																							0.000	81.271	
620																							0.000	81.271	
630																							0.000	81.271	
640																							0.000	81.271	
650																							0.000	81.271	
660																							0.000	81.271	
670																							0.000	81.271	
680																							0.000	81.271	
690																							0.000	81.271	
700																							0.000	81.271	
710																							0.000	81.271	
720																							0.000	81.271	
730																							0.000	81.271	
740																							0.000	81.271	
750																							0.000	81.271	
REMAINING VALUES ARE ALL ZERO																									
NUMBER OF OBSERVATIONS= 262																									
SUM= 30525																									
MEANS 116,508																									
VAR= 15400,435																									
SD= 124																									
TOTAL TRIPS OVER MAXP * 6																									
TOTAL TRIPS OVER 255 * 0																									
VOLUME TABLE NUMBER * 204																									
*KIM TREE NUMBER * 101																									

21FEB78

TRIP LENGTH FREQUENCY DISTRIBUTION-MBRANCH

PAGE 6

	0	3	6	9	12	15	18	21	24	27	30	33	36	39	42	45	48	51	54	57	60	P.C.	CUM.	ACTU	
10																							0.000	0.000	
20																							02.582	42.582	
30																							25.653	68.195	
40																							7.487	75.682	
50																							10.041	85.723	
60																							1.683	87.406	
70																							2.728	90.133	
80																							0.987	91.120	
90																							0.580	91.701	
100																							0.638	92.339	
110																							0.348	92.687	
120																							1.393	94.080	
130																							0.178	94.258	
140																							0.178	94.436	
150																							0.290	94.726	
160																							0.438	95.164	
170																							6.522	95.679	
180																							0.758	96.437	
190																							1.103	97.540	
200																							1.161	98.701	
210																							0.058	98.955	
220																							0.232	99.187	
230																							0.000	99.187	
240																							0.116	99.304	
250																							0.058	99.362	
260																							0.058	99.420	
270																							0.116	99.536	
280																							0.000	99.536	
290																							0.000	99.536	
300																							0.000	99.536	
310																							0.000	99.536	
320																							0.058	99.594	
330																							0.058	99.652	
340																							0.000	99.652	
350																							0.000	99.652	
360																							0.000	99.652	
370																							0.000	99.652	
380																							0.000	99.652	
390																							0.000	99.652	
400																							0.000	99.652	
410																							0.000	99.652	
420																							0.000	99.652	
430																							0.000	99.652	
440																							0.000	99.652	
450																							0.000	99.652	
460																							0.000	99.652	
470																							0.000	99.652	
480																							0.000	99.652	
490																							0.000	99.652	
500																							0.000	99.652	
510																							0.174	99.826	
520																							0.000	99.826	
530																							0.000	99.826	
540																							0.000	99.826	
550																							0.000	99.826	
560																							0.058	99.884	
570																							0.058	99.942	
580																							0.058	100.000	

REMAINING VALUES ARE ALL ZERO
NUMBER OF OBSERVATIONS= 1723 SUM= 66444 MEAN= 38.563 VAR= 2618.673 SD= 51.17

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

21FEB78

TRIP LENGTH FREQUENCY DISTRIBUTION-HBRANCH

PAGE 7

	0	3	6	9	12	15	18	21	24	27	30	33	36	39	42	45	48	51	54	57	60	P.C.	CUM.	ACTU	
10.																							0.000	0.000	
20.																							47.101	47.101	
30.																							20.883	67.984	
40.																							9.881	77.866	
50.																							10.738	88.603	
60.																							0.922	89.526	
70.																							1.887	91.412	
80.																							1.845	93.257	
90.																							0.395	93.652	
100.																							0.000	93.652	
110.																							0.066	93.718	
120.																							0.922	94.640	
130.																							0.329	94.970	
140.																							0.086	95.056	
150.																							0.132	95.187	
160.																							0.198	95.385	
170.																							0.329	95.714	
180.																							0.527	96.241	
190.																							0.988	97.229	
200.																							0.000	97.229	
210.																							0.000	97.229	
220.																							0.198	97.427	
230.																							0.198	97.625	
240.																							0.000	97.625	
250.																							0.000	97.625	
260.																							0.066	97.691	
270.																							0.066	97.757	
280.																							0.000	97.757	
290.																							0.000	97.757	
300.																							0.000	97.757	
310.																							0.000	97.757	
320.																							0.000	97.757	
330.																							0.000	97.757	
340.																							0.000	97.757	
350.																							0.000	97.757	
360.																							0.000	97.757	
370.																							0.066	97.823	
380.																							0.000	97.823	
390.																							0.000	97.823	
400.																							0.132	97.954	
410.																							0.000	97.954	
420.																							0.000	97.954	
430.																							0.000	97.954	
440.																							0.000	97.954	
450.																							0.000	97.954	
460.																							0.000	97.954	
470.																							0.000	97.954	
480.																							0.000	97.954	
490.																							0.000	97.954	
500.																							0.000	97.954	
510.																							0.066	100.000	

REMAINING VALUES ARE ALL ZERO

NUMBER OF OBSERVATIONS= 1518 SUM= 50027. MEAN= 32.956 VAR= 1487.197 SD= 38.5

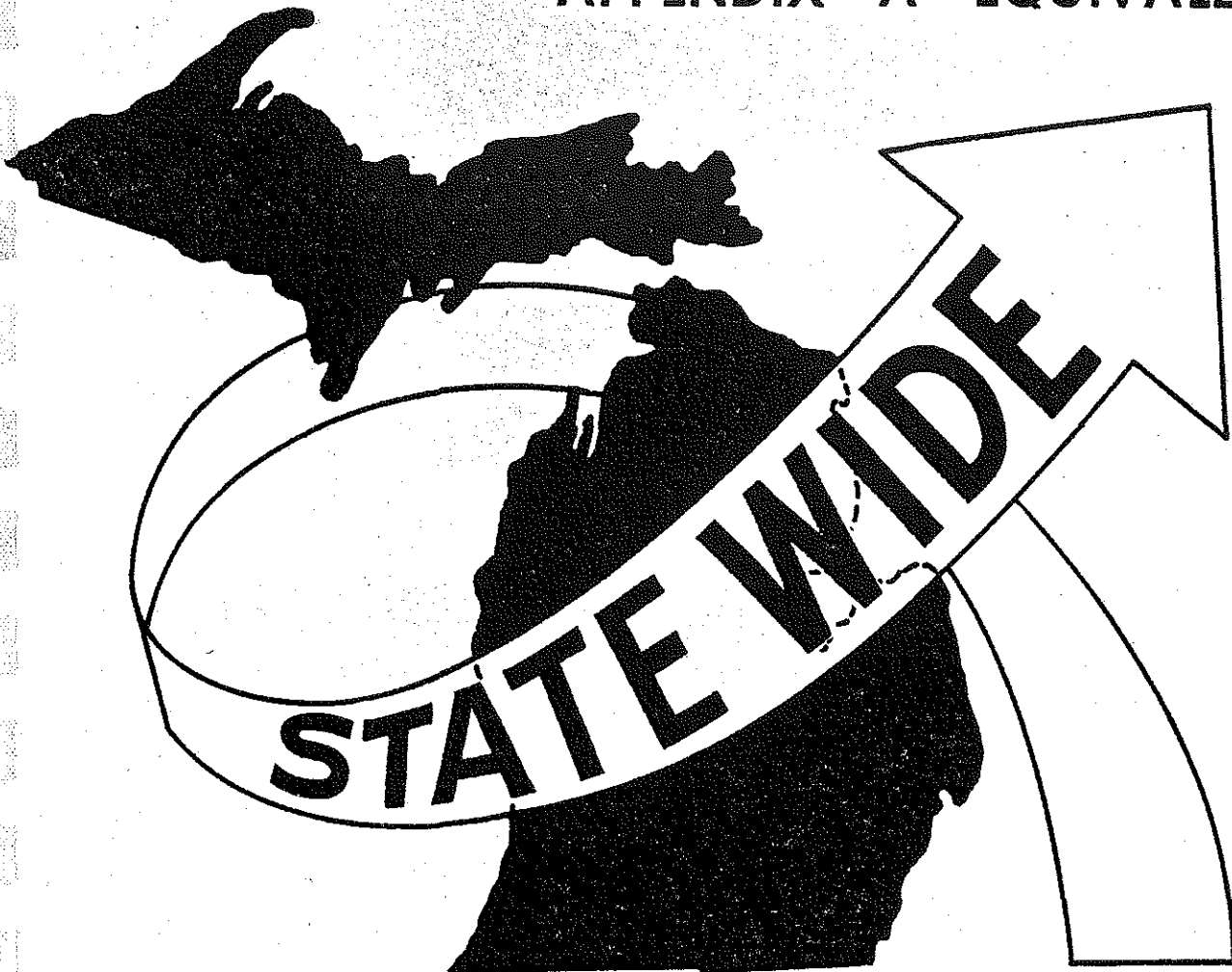
TOTAL TRIPS OVER MAXP * 0
TOTAL TRIPS OVER 255 * 0
VOLUME TABLE NUMBER * 206
SKIM TREE NUMBER * 101

ZIFB76 TRIP LENGTH FREQUENCY DISTRIBUTION-HBRANCH

TRIP LENGTH	FREQUENCY	P.C.	CUM.	ACTU
0				
3				
6				
9				
12				
15				
18				
21				
24				
27				
30				
33				
36				
39				
42				
45				
48				
51				
54				
57				
60				
10		0.000	0.000	
20		43.790	43.790	
30		21.877	65.767	
40		9.049	74.816	
50		11.209	86.025	
60		1.735	87.760	
70		4.064	91.824	
80		1.374	93.205	
90		0.408	93.614	
100		0.385	94.199	
110		0.229	94.428	
120		0.941	95.369	
130		0.303	95.672	
140		0.180	95.852	
150		0.172	96.024	
160		0.409	96.433	
170		0.475	96.907	
180		0.442	97.349	
190		0.684	98.033	
200		0.581	98.614	
210		0.057	98.671	
220		0.360	99.031	
230		0.123	99.154	
240		0.065	99.219	
250		0.106	99.325	
260		0.057	99.383	
270		0.131	99.514	
280		0.008	99.522	
290		0.016	99.538	
300		0.000	99.538	
310		0.000	99.538	
320		0.041	99.579	
330		0.025	99.604	
340		0.000	99.604	
350		0.000	99.604	
360		0.000	99.604	
370		0.014	99.620	
380		0.000	99.620	
390		0.000	99.620	
400		0.025	99.645	
410		0.000	99.645	
420		0.000	99.645	
430		0.000	99.645	
440		0.016	99.661	
450		0.000	99.661	
460		0.000	99.661	
470		0.000	99.661	
480		0.014	99.677	
490		0.000	99.677	
500		0.000	99.677	
510		0.041	99.718	
520		0.000	99.718	
530		0.000	99.718	
540		0.000	99.718	
550		0.000	99.718	
560		0.008	99.726	
570		0.008	99.735	
580		0.008	99.743	
590		0.000	99.743	
600		0.000	99.743	
610		0.000	99.743	
620		0.000	99.743	
630		0.000	99.743	
640		0.000	99.743	
650		0.000	99.743	
660		0.000	99.743	
670		0.000	99.743	
680		0.000	99.743	
690		0.000	99.743	
700		0.000	99.743	
710		0.000	99.743	
720		0.000	99.743	
730		0.000	99.743	
740		0.000	99.743	
750		0.057	100.000	

REMAINING VALUES ARE ALL ZERO
 NUMBER OF OBSERVATIONS= 12222 SUM= 443959 MEAN= 36.325 VAR= 2055.997 SD= 45.
 TOTAL TRIPS OVER MAXP = 7
 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, MILLEN, MITCHELL.
003 ALGER	MUNISING(CITY).
004 ALGER	BURT, MUNISING.
005 ALGER	LIMESTONE, MATHIAS, ONOTA, ROCK RIVER.
006 ALGER	AU TRAIN, GRAND ISLAND.
007 ALLEGAN	ALLEGAN, CHESHIRE, TROWBRIDGE, VALLEY.
008 ALLEGAN	CASCO, CLYDE, GANGES, LEE.
009 ALLEGAN	GUNPLAIN, OTSEGO.
010 ALLEGAN	FILLMORE, HEATH, MANLIUS, MONTEREY, OVERISEL, SALEM.
011 ALLEGAN	LAKETOWN, SAUGATUCK.
012 ALLEGAN	DORR, HOPKINS, LEIGHTON, MARTIN, WATSON, WAYLAND.
013 ALPENA	ALPENA(CITY).
014 ALPENA	ALPENA, SANBORN.
015 ALPENA	GREEN, LONG RAPIDS, MAPLE RIDGE, OSSINEKE, WELLINGTON, WILSON.
016 ANTRIM	CHESTONIA, JORDAN, MANCELONA, STAR, WARNER.
017 ANTRIM	BANKS, CENTRAL LAKE, ECHO, TORCH LAKE.
018 ANTRIM	CUSTER, ELK RAPIDS, FOREST HOME, HELENA, KEARNEY, MILTON.
019 ARENAC	LINCOLN, STANDISH.
020 ARENAC	AU GRES, SIMS, TURNER, WHITNEY.
021 ARENAC	ADAMS, ARENAC, CLAYTON, DEEP RIVER, MASON, MOFFATT.
022 BARAGA	ARVON, LANSE.
023 BARAGA	BARAGA.
024 BARAGA	COVINGTON, SPURF.
025 BARRY	HASTINGS(CITY).
026 BARRY	CARLTON, CASTLETON, HASTINGS, IRVING, RUTLAND, WOODLAND.
027 BARRY	ASSYRIA, BALTIMORE, BARRY, HOPE, JOHNSTOWN, MAPLE GROVE.
028 BARRY	ORANGEVILLE, PRAIRIEVILLE, THORNAPPLE, YANKEE SPRINGS.
029 BAY	BAY CITY.
030 BAY	BANGOR.
031 BAY	BEAVER, KAWKAWLIN, MONITOR, WILLIAMS.
032 BAY	FRANKENLUST, HAMPTON, MERRITT, PORTSMOUTH.
033 BAY	FRASER, GARFIELD, GIBSON, MT. FOREST, PINCONNING.
034 BENZIE	CRYSTAL LAKE, LAKE.
035 BENZIE	BENZONIA, BLAINE, GILMORE, JOYFIELD, WELDON.
036 BENZIE	ALMIRA, COLFAX, HOMESTEAD, INLAND, PLATTE.
037 BERRIEN	BENTON HARBOR(CITY), ST. JOE(CITY).
038 BERRIEN	BARODA, LAKE, DRONOKO.
039 BERRIEN	BENTON, HAGAR, ST. JOSEPH.
040 BERRIEN	BAINBRIDGE, COLOMA, WATERVLIET.
041 BERRIEN	BERRIEN, PIPESTONE.
042 BERRIEN	BERTRAND, BUCHANAN, GALIEN, WEESAW.
043 BERRIEN	CHIKAMING, NEW BUFFALO, THREE OAKS.
044 BERRIEN	LINCOLN, ROYALTON, SODUS.
045 BERRIEN	NILES(CITY).
046 BERRIEN	NILES.
047 BERRIEN	BUCHANAN(CITY).

048 BRANCH	COLDWATER(CITY).
049 BRANCH	BATAVIA, MATTESON, SHERWOOD.
050 BRANCH	BETHEL, BRONSON, GILEAD, NORLE.
051 BRANCH	BUTLER, QUINCY.
052 BRANCH	ALGANSEE, CALIFORNIA, KINDERHOOK, OVID.
053 BRANCH	GIRARD, UNION.
054 BRANCH	COLDWATER.
055 CALHOUN	BATTLE CREEK(CITY).
056 CALHOUN	ALBION, HOMER.
057 CALHOUN	ATHENS, BURLINGTON, LEROY, NEWTON.
058 CALHOUN	BATTLE CREEK.
059 CALHOUN	BEDFORD.
060 CALHOUN	CLARENCE, CLARENDON, ECKFORD, LEE, MARENGO,
061 CALHOUN	CONVIS, 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, DRUMWONG, RABER.
087 CHIPPEWA	KINROSS, RUDYARD, TROUT LAKE.
088 CHIPPEWA	BAY MILLS, DAFTER, SUPERIOR.
089 CLARE	GRANT, SHERIDAN.
090 CLARE	ARTHUR, FRANKLIN, FROST, HAMILTON, HATTON, HAYES.
091 CLARE	FREEMAN, GARFIELD, GREENWOOD, LINCOLN, REDDING, SUMMERFIELD, SURREY, WINTERFIELD.
092 CLINTON	ST. JOHNS(CITY).
093 CLINTON	BATH.
094 CLINTON	BENGAL, BINGHAM, ESSEX.
095 CLINTON	DALLAS, LEBANON, WESTPHALIA.
096 CLINTON	DUPLAIN, GREENRUSH.
097 CLINTON	EAGLE, RILEY, WATERTOWN.
098 CLINTON	OLIVE, VICTOR.
099 CLINTON	OVID.
100 CLINTON	DEWITT.

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

153 GRAND TRAVERSE EAST BAY, FIFE LAKE, PARADISE, UNION.
 154 GRAND TRAVERSE GRANT, MAYFIELD.
 155 GRAND TRAVERSE ACME, WHITEWATER.

156 GRATIOT ALMA(CITY).
 157 GRATIOT ARCADE, EMERSON, HAMILTON, LAFAYETTE, NORTH STAR, NEW HAVEN,
 NEWARK, SUMNER.

158 GRATIOT BETHANY, PINE RIVER, SFVILLE, WHEELER.
 159 GRATIOT ELBA, FULTON, NORTH SHADE, WASHINGTON.
 160 GRATIOT ITHACA(CITY).

161 HILLSDALE HILLSDALE(CITY).
 162 HILLSDALE ALLEN, FAYETTE.
 163 HILLSDALE AMBOY, RANSOM, WRIGHT.
 164 HILLSDALE CAMBRIA, HILLSDALE, WOODBRIDGE.
 165 HILLSDALE CAMDEN, READING.
 166 HILLSDALE JEFFERSON, PITTSFORD.
 167 HILLSDALE LITCHFIELD, MOSCOW, SCIPO.
 168 HILLSDALE ADAMS, SOMERSET, WHEATLAND.

169 HOUGHTON HOUGHTON(CITY).
 170 HOUGHTON CALUMET, OSCEOLA, SCHOOLCRAFT.
 171 HOUGHTON CHASSELL, TORCH LAKE
 172 HOUGHTON DUNGAN, LAIRD.
 173 HOUGHTON FRANKLIN, HANCOCK, QUINCY.
 174 HOUGHTON PORTAGE.
 175 HOUGHTON ADAMS, ELM RIVER, STANTON.

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

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

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

370 OAKLAND	HOLLY, ROSE.
371 OAKLAND	GROVELAND, SPRINGFIELD.
372 OAKLAND	BRANDON, INDEPENDENCE.
373 OAKLAND	OAKLAND, ORION.
374 OAKLAND	ADDISON, OXFORD.
375 OAKLAND	
376 OCEANA	BENONA, CLAYBANKS, SHELBY.
377 OCEANA	COLFAX, CRYSTAL, ELBRIDGE, HART, LEAVITT, WEARE.
378 OCEANA	FERRY, GRANT, GREENWOOD, NEWFIELD, OTTO.
379 OCEANA	GOLDEN, PENTWATER.
380 OGEMAW	EDWARDS, HORTON, OGEMAW, WEST BRANCH.
381 OGEMAW	CUMMING, FOSTER, GOODAR, HILL, KLACKING, ROSE.
382 OGEMAW	CHURCHILL, LOGAN, MILLS, RICHLAND.
383 ONTONAGON	ONTONAGON.
384 ONTONAGON	BOHEMIA, GREENLAND, ROCKLAND.
385 ONTONAGON	HAIGHT, INTERIOR, MCMILLAN, STANNARD.
386 ONTONAGON	BERGLAND, CARP LAKE, MATCHWOOD.
387 OSCEOLA	HERSEY, RICHMOND.
388 OSCEOLA	EVART, ORIENT, OSCEOLA, SYLVAN.
389 OSCEOLA	HARTWICK, HIGHLAND, MARION, MIDDLE BRANCH.
390 OSCEOLA	BURDELL, CEDAR, LEROY, LINCOLN, ROSE LAKE, SHERMAN.
391 OSCODA	BIG CREEK, CLINTON, COMINS, ELMER, GREENWOOD, MENTOR.
392 OTSEGO	GAYLORD(CITY).
393 OTSEGO	BAGLEY, CHARLTON, CHESTER, HAYES, OTSEGO LAKE.
394 OTSEGO	CORWITH, DOVER, ELMIRA, LIVINGSTON.
395 OTTAWA	HOLLAND(CITY).
396 OTTAWA	CHESTER, TALLMADGE, WRIGHT.
397 OTTAWA	CROCKERY, POLKTON.
398 OTTAWA	GEORGETOWN, JAMESTOWN.
399 OTTAWA	SPRING LAKE.
400 OTTAWA	GRAND HAVEN, OLIVE, PORT SHELDON, ROBINSON.
401 OTTAWA	ALLENDALE, BLENDON
402 OTTAWA	HOLLAND, PARK.
403 OTTAWA	ZEELAND.
404 PRESQUE ISLE	BELKNAP, BISMARCK, METZ, MOLTKE, ROGERS.
405 PRESQUE ISLE	ALLIS, BEARINGER, CASE, NORTH ALLIS, OCQUEOC.
406 PRESQUE ISLE	KRAKOW, POSEN, PRESQUE ISLE, PULAWSKI.
407 ROSCOMMON	DENTON, GERRISH, LAKE, LYON, MARKEY, ROSCOMMON.
408 ROSCOMMON	AU SABLE, BACKUS, HIGGINS, NESTER, 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 DWOSSO(CITY).
434 SHIAWASSEE BENNINGTON, SCIOTA.
435 SHIAWASSEE BURNS, VERNON.
436 SHIAWASSEE CALEDONIA.
437 SHIAWASSEE FAIRFIELD, MIDDLEBURY, DWOSSO.
438 SHIAWASSEE HAZELTON, VENICE.
439 SHIAWASSEE NEW HAVEN, RUSH.
440 SHIAWASSEE ANTRIM, SHIAWASSEE.
441 SHIAWASSEE PERRY, WOODHULL.

442 ST CLAIR FORT GRATIOT, PORT HURON.
443 ST CLAIR CASCO, CHINA, EAST CHINA, IRA.
444 ST CLAIR CLAY, COTTRELLVILLE.
445 ST CLAIR KIMBALL.
446 ST CLAIR COLUMBUS, ST CLAIR.
447 ST CLAIR BURTCHVILLE, CLYDE, GRANT.
448 ST CLAIR BROCKWAY, GREENWOOD.
449 ST CLAIR BERLIN, EMMETT, RILEY.
450 ST CLAIR KENOCKEE, WALES.
451 ST CLAIR LYNN, MUSSEY.

452 ST JOSEPH STURGIS.
453 ST JOSEPH COLON, NOTTAWA.
454 ST JOSEPH CONSTANTINE, FLORENCE, SHEPHERD.
455 ST JOSEPH FABIUS, FLOWERFIELD, LOCKPORT, PARK.
456 ST JOSEPH LEONIDAS, MENDON.
457 ST JOSEPH MOTTVILLE, WHITE PIGEON.
458 ST JOSEPH BURR OAK, FAWN RIVER.
459 ST JOSEPH THREE RIVERS(CITY).

460 TUSCOLA CARO.
461 TUSCOLA ALMER, ELLINGTON, NOVESTA.
462 TUSCOLA ARBELA, MILLINGTON.
463 TUSCOLA INDIANFIELDS, JUNIATA.
464 TUSCOLA DAYTON, KINGSTON, KOYLTON, WELLS.
465 TUSCOLA DENMARK, TUSCOLA.
466 TUSCOLA ELKLAND, ELMWOOD.
467 TUSCOLA FAIRGROVE, GILFORD.
468 TUSCOLA FREMONT, VASSAR, WATERTOWN.
469 TUSCOLA VASSAR(CITY).
470 TUSCOLA AKRON, COLUMBIA, WISNER.

471 VAN BUREN SOUTH HAVEN(CITY).
472 VAN BUREN ANTWERP, DECATUR, PORTER.
473 VAN BUREN ARLINGTON, HARTFORD, LAWRENCE.
474 VAN BUREN BANGOR, COLUMBIA, GENEVA.
475 VAN BUREN BLOOMINGDALE, PINE GROVE.
476 VAN BUREN COVERT, SOUTH HAVEN.
477 VAN BUREN HAMILTON, KEELER.
478 VAN BUREN ALMENA, PAW PAW, WAVERLY.

479 WASHTENAW ANN ARBOR(CITY).
480 WASHTENAW ANN ARBOR.
481 WASHTENAW PITTSFIELD

482	WASHTENAW	SCIO, WEBSTER.
483	WASHTENAW	YPSILANTI(CITY).
484	WASHTENAW	YPSILANTI.
485	WASHTENAW	SUPERIOR.
486	WASHTENAW	AUGUSTA, YOPK.
487	WASHTENAW	LODI, SALINE.
488	WASHTENAW	BRIDGEWATER, FREEDOM, SHARON.
489	WASHTENAW	MANCHESTER.
490	WASHTENAW	LIMA, SYLVAN.
491	WASHTENAW	DEXTER, LYNOON.
492	WASHTENAW	NORTHFIELD, SALEM.
493	WAYNE	DETROIT(PART 1 OF 3), EAST OF LIVERNOIS, WEST OF JOHN R, SOUTH AND WEST OF EAST GRAND BLVD.
494	WAYNE	DEARBORN(CITY).
495	WAYNE	DETROIT(PART 2 OF 3), WEST OF LIVERNOIS, NORTH OF TIREMAN.
496	WAYNE	DETROIT (PART 3 OF 3), EAST OF JOHN R, EAST OF OAKLAND, NORTH AND EAST OF EAST GRAND BLVD.
497	WAYNE	ALLEN PARK(CITY), ECORSE(CITY), LINCOLN PARK(CITY), MELVINDALE(CITY), RIVER ROUGE(CITY), SOUTHGATE(CITY), WYANDOTTE(CITY).
498	WAYNE	TAYLOR(CITY).
499	WAYNE	BROWNSTOWN, GROSSE ISLF, HURON.
500	WAYNE	ROMULUS, SUMPTER, VAN BUREN.
501	WAYNE	CANTON.
502	WAYNE	NORTHVILLE, PLYMOUTH.
503	WAYNE	GROSSE PTE(CITY), GROSSE PTF FARMS(CITY), GROSSE PTE PARK(CITY), GROSSE PTE SHORES(CITY) GROSSE PTE WOODS(CITY), HARPER WOODS(CITY).
504	WAYNE	REDFORD.
505	WEXFORD	CADILLAC(CITY).
506	WEXFORD	BOON, CHERRY GROVE, CLAM LAKE, HARING, HENDERSON, SOUTH BRANCH, SELMA, SLAGLE.
507	WEXFORD	ANTIOCH, 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, DUTAGAMIF, SHAWANO, SHEBOYGAN, WAUPACA,
 WINNEBAGO.
 523 WISCONSIN DANE, DODGE, JEFFERSON, KENOSHA, MILWAUKEE, OZAUKEE, RACINE,
 ROCK, WALWORTH, WASHINGTON, WAUKESHA.
 524 WISCONSIN ADAMS, COLUMBIA, CRAWFORD, GRANT, GREEN, GREEN LAKE, IOWA,
 JUNEAU, LA CROSSE, LAFAYETTE, MARQUETTE, MONROE, RICHLAND,
 SAUK, VERNON, WAUSHARA.
 525 ILLINOIS BOONE, COOK, DE KALB, DU PAGE, GRUNDY, KANE, KENDALL, LAKE,
 MCHENRY, WILL, WINNEBAGO.
 526 ILLINOIS BUREAU, CARROLL, CHAMPAIGN, CHRISTIAN, COLES, DE WITT,
 DOUGLAS, EDGAR, FORD, FULTON, HENDERSON, HENRY, IROQUOIS,
 JO DAVIESS, KANKAKEE, KNOX, LA SALLE, LEE, LIVINGSTON,
 LOGAN, MACON, MARSHALL, MASON, MCLFAN, MENARD, MERCER,
 MOULTRIE, OGLE, PEORIA, PIATT, PUTNAM, ROCK ISLAND,
 SANGAMON, STARK, STEPHENSON, TAZEWELL, VERMILION, WARREN,
 WHITESIDE, WOODFORD.
 527 ILLINOIS ADAMS, ALEXANDER, BOND, BROWN, CALHOUN, CASS, CLARK, CLAY,
 FAYETTE, FRANKLIN, GALLATIN, GREENE, HAMILTON, HANCOCK,
 CLINTON, CRAWFORD, CUMBERLAND, EDWARDS, EFFINGHAM,
 HARDIN, JACKSON, JASPER, JEFFERSON, JERSEY, JOHNSON,
 LAWRENCE, MACOUPIN, MADISON, MARION, MASSAC, MCDONOUGH,
 MONROE, MONTGOMERY, MORGAN, PERRY, PIKE, POPE, PULASKI,
 RANDOLPH, RICHLAND, SALINE, SCHUYLER, SCOTT, SHELBY,
 ST CLAIR, UNION, WABASH, WASHINGTON, WAYNE, WHITE,
 WILLIAMSON.
 528 INDIANA LAKE, PORTER.
 529 INDIANA LAPORTE, STARKE.
 530 INDIANA MARSHALL, ST JOSEPH.
 531 INDIANA ELKHART, KOSCIUSKO.
 532 INDIANA ALLEN, DE KALB, LAGRANGE, NOBLE, STEUBEN, WHITLEY.
 533 INDIANA ADAMS, BENTON, BLACKFORD, BOONE, CARROLL, CASS, CLINTON,
 DELAWARE, FOUNTAIN, FULTON, GRANT, HENRY, HOWARD,
 HUNTINGTON, JASPER, JAY, MADISON, MIAMI, MONTGOMERY, NEWTON,
 PULASKI, RANDOLPH, TIPPECANOE, TIPTON, WABASH, WARREN,
 WAYNE, WELLS, WHITE.
 534 INDIANA BARTHOLOMEW, BROWN, CLARK, CLAY, CRAWFORD, DAVIESS,
 DEARBORN, DECATUR, DUBOIS, FAYETTE, FLOYD, FRANKLIN, GIBSON,
 GREENE, HAMILTON, HANCOCK, HARRISON, HENDRICKS, JACKSON,
 JEFFERSON, JENNINGS, JOHNSON, KNOX, LAWRENCE, MARION,
 MARTIN, MONROE, MORGAN, OHIO, ORANGE, OWEN, PARKE, PERRY,
 PIKE, POSEY, PUTNAM, RIPLEY, RUSH, SCOTT, SHELBY, SPENCER,
 SULLIVAN, SWITZERLAND, UNION, VANDERBURGH, VERMILLION, VIGO,
 WARRICK, WASHINGTON.
 535 OHIO DEFIANCE, WILLIAMS.
 536 OHIO FULTON, HENRY.
 537 OHIO LUCAS, WOOD.
 538 OHIO ALLEN, AUGLAIZE, CRAWFORD, DARKE, ERIE, HANCOCK, HARDIN,
 HURON, LOGAN, MARION, MERCER, OTTAWA, PAULDING, PUTNAM,
 SANDUSKY, SENECA, SHELBY, VAN WERT, WYANDOT.
 539 OHIO ASHTABULA, BELMONT, CARROLL, COLUMBIANA, COSHOCTON,
 CUYAHOGA, DELAWARE, FAIRFIELD, FRANKLIN, GEauga, HAMILTON,
 HARRISON, JACKSON, JEFFERSON, LAKE, LORAIN, MAHONING,
 MEDINA, PORTAGE, STARK, SUMMIT, TRUMBULL, WARREN,
 WASHINGTON.
 540 OHIO ADAMS, ASHLAND, ATHENS, BROWN, BUTLER, CHAMPAIGN, CLARK,
 CLERMONT, CLINTON, FAYETTE, GALLIA, GREENE, GUERNSEY,
 HIGHLAND, HOCKING, HOLMES, KNOX, LAWRENCE, LICKING, MADISON,
 MEIGS, MIAMI, MONROE, MONTGOMERY, MORGAN, MORROW, MUSKINGUM,
 NOBLE, PERRY, PICKAWAY, PIKE, PREBLE, RICHLAND, ROSS,
 SCIOTO, TUSCARAWAS, UNION, VINTON, WAYNE.

ZONE

STATE

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