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# MICHIGAN DEPARTMENT OF STATE HIGHWAYS AND TRANSPORTATION

CHEBOYGAN 1972  
EXTERNAL  
ORIGIN DESTINATION  
SURVEY

FACTUAL DATA REPORT

Northeast Analysis Unit



MICHIGAN DEPARTMENT  
OF  
STATE HIGHWAYS AND TRANSPORTATION

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DEPARTMENT OF STATE HIGHWAYS

STATE HIGHWAYS BUILDING - POST OFFICE DRAWER K - LANSING, MICHIGAN 48904

JOHN P. WOODFORD, STATE HIGHWAY DIRECTOR

March 8, 1974

Sam F. Cryderman  
Deputy Director  
Bureau of Transportation Planning  
Michigan Department of State Highways  
and Transportation  
Lansing, Michigan

Dear Mr. Cryderman:

Documented in this report are the results of the 1972 Cheboygan External Origin Destination Survey. Included are tables, maps and summaries of data obtained during the survey.

This report was prepared by Transportation Analyst Robert M. Kirkbride with the assistance of Michael DeMott. Both are under the supervision of Maynard A. Christensen of the Northeast Analysis Unit.

Sincerely,

Keith E. Bushnell, Engineer  
Transportation Survey and Analysis



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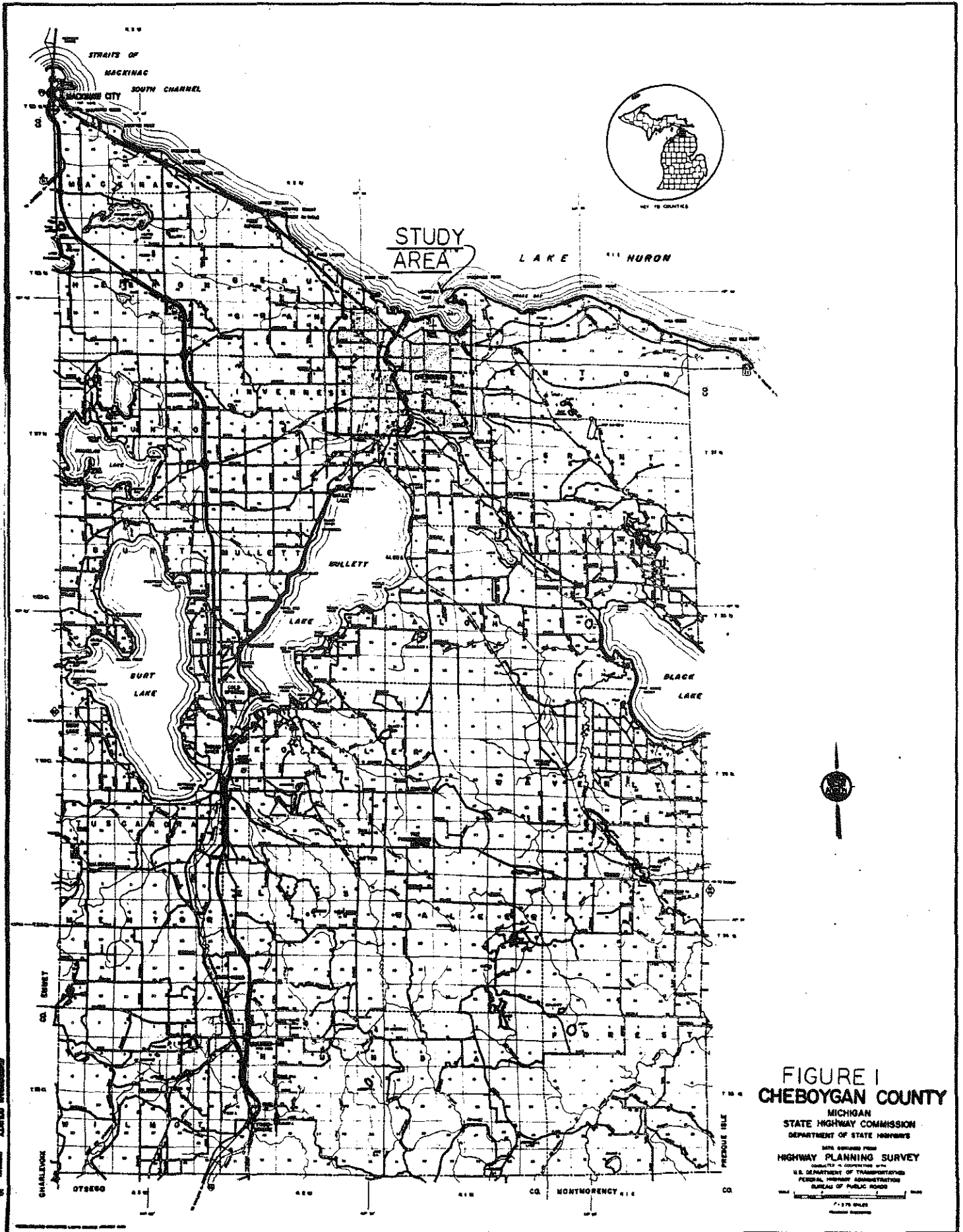


## SURVEY AREA

Cheboygan, with a 1970 population of 5,553 serves as the county seat of Cheboygan County as well as the hub of activity for the county. Located at the top of lower Michigan within 20 miles of the Mackinaw Bridge and 272 miles north of Detroit, the city plays an important role in the recreation and vacation industry of the area.

With over 50,000 acres of rivers and lakes nearby, including three of the largest inland lakes in the state it is not surprising that the area is a popular vacation spot.

The main highways of the area (M-33, M-27 and US-23) provide service for the city in most every direction. The most important route is US-23 which provides service along the scenic Lake Huron coastline and to the Mackinaw Bridge.



**FIGURE I**  
**CHEBOYGAN COUNTY**  
 MICHIGAN  
 STATE HIGHWAY COMMISSION  
 DEPARTMENT OF STATE HIGHWAYS  
 DATA OBTAINED FROM  
**HIGHWAY PLANNING SURVEY**  
 CONDUCTED IN COOPERATION WITH  
 U.S. DEPARTMENT OF TRANSPORTATION  
 FEDERAL HIGHWAY ADMINISTRATION  
 BUREAU OF PUBLIC ROADS  
 1:250,000  
 (Vertical Scale)

TABLE 1

CHEBOYGAN

EXTERNAL ORIGIN DESTINATION SURVEY

EXTERNAL STATIONS

<u>Station No.</u>	<u>Location</u>
1	US-23 NW, 1 MI. NW OF CHEBOYGAN WCL
2	US-23 E, W. OF ALPENA RD.
3	BLACK RIVER RD., SE OF BUTLER RD.
4	M-33, AT CHEBOYGAN RIVER BRIDGE
5	M-27, SW OF M-33
6	WING RD., S. OF RIGSVILLE RD.
7	RIGSVILLE RD., E. OF INVERNESS RD.
8	COURT, E. OF INVERNESS RD.

TABLE 2  
 CHEBOYGAN  
 EXTERNAL ORIGIN DESTINATION SURVEY

INTERNAL ANALYSIS ZONES

<u>Zone</u>	<u>Abbreviation</u>	<u>Description</u>
9	AIRP	AIRPORT
10	NWTWP	NORTHWEST TOWNSHIP
11	WLRES	WEST LAKE RESIDENTIAL
12	IND	INDUSTRIAL
13	WRES	WEST RESIDENTIAL
14	CBD	CENTRAL BUSINESS DISTRICT
15	ELRES	EAST LAKE RESIDENTIAL
16	DUSPK	DAY USE STATE PARK
17	ETWP	EAST TOWNSHIP
18	TOOL	DETROIT TAP AND TOOL CO.
19	NERES	NORTHEAST RESIDENTIAL
20	REC	RECREATION CENTER
21	CHAR	CHARMIN PAPER PRODUCTS
22	SWTWP	SOUTHWEST TOWNSHIP
23	HOSP	HOSPITAL
24	SERES	SOUTHEAST RESIDENTIAL

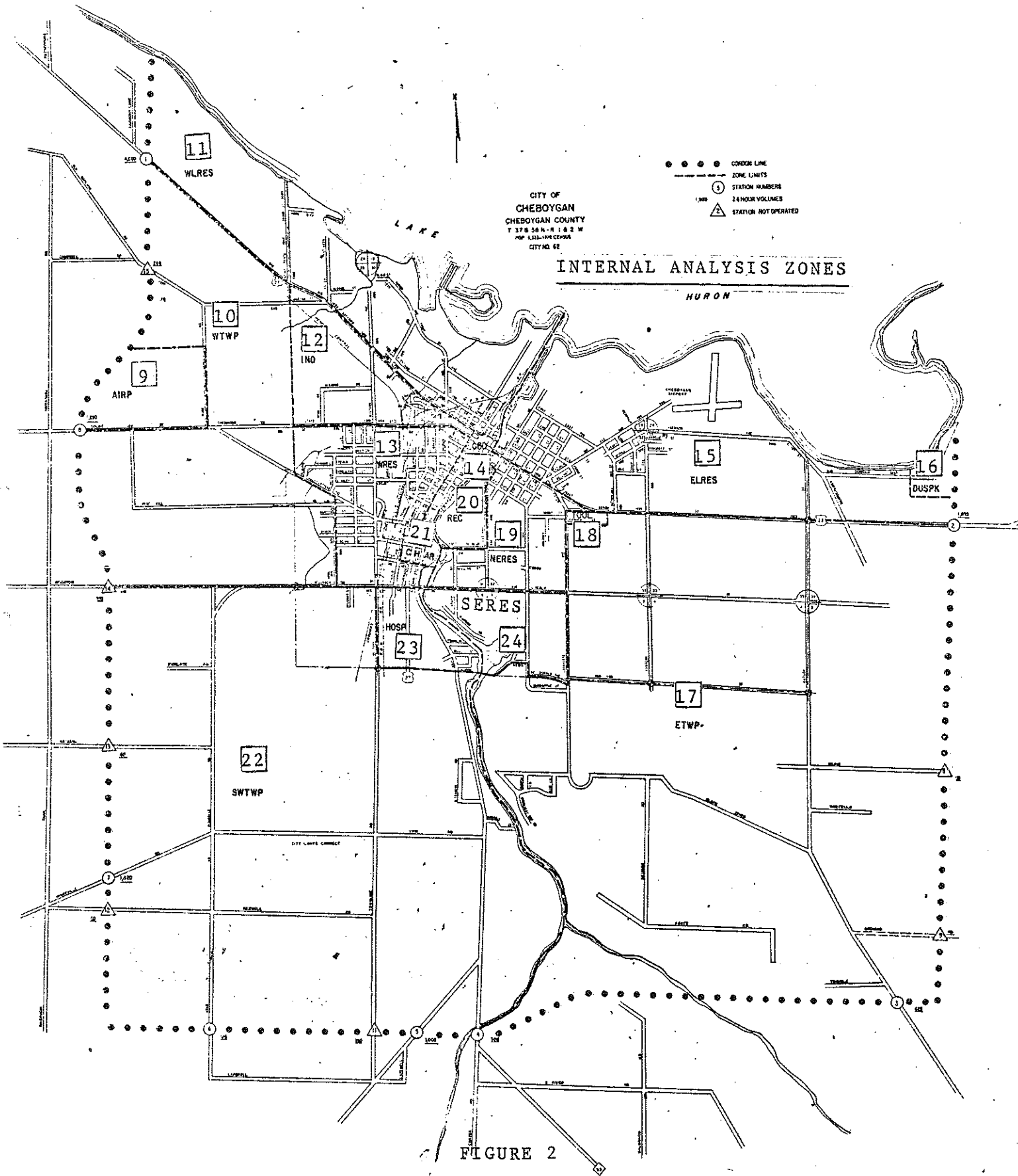


FIGURE 2

## TERMINOLOGY AND DEFINITIONS

Cordon Line	An imaginary line around the area under study.
External Station	A point on a highway at the limits of the study area (Cordon Line) where drivers of vehicles are stopped and interviewed.
Study Area	The area enclosed by the Cordon Line.
Origin	The place where a trip begins.
Destination	The place where a trip ends.
Origin-Destination Zone	(Analysis Zone) a basic subdivision of the study area having a single or dominant land use, designated as such for purposes of tabulation and analysis.
Trip	One-way travel between an Origin and Destination.
Terminal Trip	A trip with one end outside the study area. (Beginning or ending at one of the internal analysis zones.)
Through Trip	A trip passing through the study area. (Both ends of the trip outside the Cordon Line.)

## FIELD PROCEDURE

Field work for the Cheboygan External Origin Destination Survey was conducted during July, 1972. The purpose of the survey was to gather data regarding the movement of individuals by motor vehicle through, into, and out of the study area.

Interview stations were established on all important routes leading into Cheboygan. In all, eight stations were operated. Each station was operated for fourteen hours. During the hours of operation, vehicles were stopped and drivers interviewed regarding the origin, destination and purpose of the trip. Manual Vehicle Classification counts were taken in conjunction with interviews and the remainder of a 24 hour day.

Both inbound and outbound vehicles were interviewed and responses recorded at each station for each hour period by direction.

In addition, the study area was subdivided into analysis zones based generally on homogenous land uses. Each trip inbound or outbound from these zones was recorded according to a previously assigned unique abbreviation.

Sample interview forms for both interviews and Manual Vehicle Classification appear in Appendix B.

## ALL STATIONS

Interviews were conducted for the Cheboygan External Origin on a July, 1972 weekday. A total of 19,485 vehicles passed through the stations. Of this number, 12,475 were stopped and interviewed yielding an areawide interview rate of 64%. Due to conventions of computer programs used to process and expand interview data, as explained in footnotes to Table 3, trips as discussed in ensuing paragraphs of this report will be somewhat understated.

After expansion, for all stations, there were 19,135 vehicle trips. As can be seen in Table 3, over 80% or 15,633 vehicle trips passed through the four state trunkline stations (Stations 1, 2, 4 and 5). The other four stations located on county roads, constituted the remainder.

Traffic was categorized as terminal or through, with the former constituting 70.41% and the latter 29.59% of all station vehicle trips. However, since a through trip is counted also at the station of entrance or exit, in order to determine total trips, it was necessary to half factor all through trips to adjust for this double counting. When considered in this light, terminal trips account for 82.53% and through trips 17.47%.

The two primary internal zones of origin and/or destination for terminal trips were zone 14 (CBD) and zone 23 (HOSP). The former constituted 25.36% of all station terminal trips and the latter 21.24%. Table 4 presents a list of all station terminal trips by zone with Figure 3 displaying the study area with terminal trips superimposed.



Through trips will be treated in individual station analysis.

Table 5, which shows the trip lengths of all trips determined through the survey, indicates that the average trip length was 1 hour and 15 minutes. The longest trip was 14 hours and 20 minutes. It is to be noted that through trips were half-factored for reasons previously discussed.

The distribution of trip ends at all stations by county is shown in Figure 4. More than 79% of all origin and/or destination trip ends occurred within Cheboygan County itself. If the three northernmost counties were considered 85.93% of all trip ends would be accounted for. There were 1,824 trip ends in the upper peninsula with the major concentration in Chippewa and Mackinac Counties. The U.P. in total accounted for 5% of all trip ends. Out of state travel accounted for slightly over 1% of all trip ends.

In conjunction with station interviewing, machine traffic counts were taken at selected locations throughout the study area. A schematic showing traffic volumes at these points is presented in Figure 5.

TABLE 3

## ALL STATIONS

Station	24-Hour <sup>1</sup> Traffic Counts	14-Hour Interviews	Percent Interviewed	Trips <sup>2</sup>
1	4023	2478	61.6	3974
2	2397	1753	73.1	2395
3	689	562	81.6	593
4	5136	2995	58.3	5077
5	4221	2322	55.0	4187
6	377	244	64.7	352
7	1152	983	85.3	1121
8	1490	1138	76.4	1436
TOTAL	19485	12475	64.0	19135

Station	Total Trips	Percent of Total	Terminal	%	Through	%
1	3947	20.77	2132	53.65	1842	46.35
2	2395	12.52	1103	46.05	1292	53.95
3	593	3.10	520	87.69	73	12.31
4	5077	26.53	3829	75.42	1248	24.58
5	4187	21.88	3407	81.37	780	18.63
6	352	1.84	301	85.51	51	14.49
7	1121	5.86	946	84.39	175	15.61
8	1436	7.50	1234	85.93	202	14.07
TOTAL	19135	100.00	13472	70.41	5663	29.59
TRIPS	16324		13472	82.53	2852 <sup>3</sup>	17.47

<sup>1</sup>24-hour traffic counts do not include motorcycle and bus trips. Since these vehicle types were not interviewed they were removed from this column. Bus and motorcycle trips counted at each station are listed below:

1	2	3	4	5	6	7	8	TOTAL
<u>41</u>	<u>23</u>	<u>10</u>	<u>46</u>	<u>41</u>	<u>5</u>	<u>17</u>	<u>10</u>	<u>193</u>

<sup>2</sup>Due to the conventions of certain computer programs, expanded vehicle trips do not necessarily correspond with 24-hour traffic counts.

<sup>3</sup>A through trip is counted both at the station of entrance and exit. To adjust for this double counting it was necessary to half-factor through trip records.

TABLE 4

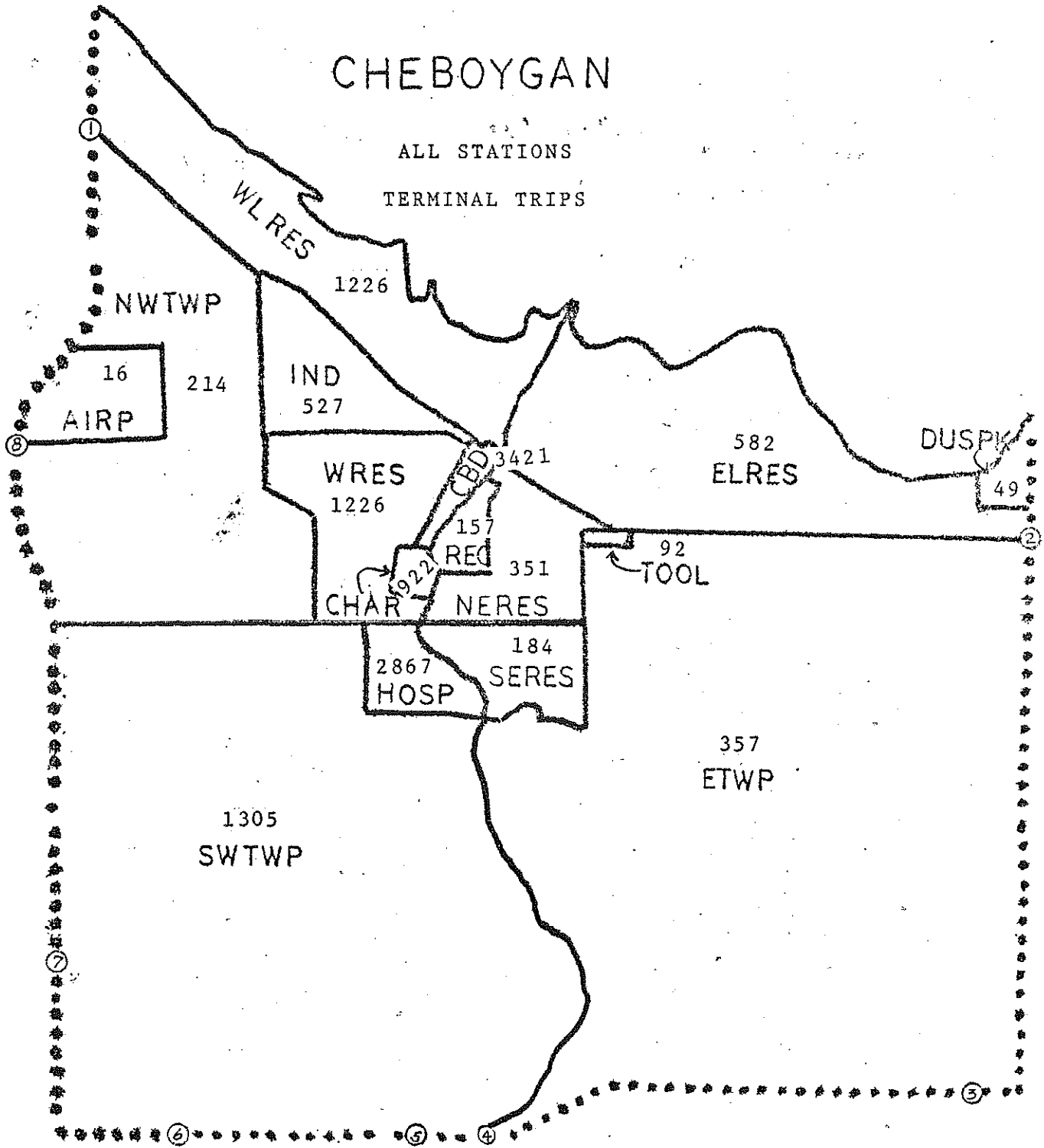
TOTAL AREA  
ALL STATIONS

TERMINAL TRIPS

<u>Zone</u>	<u>Origin</u>	<u>Destination</u>	<u>Total</u>	<u>Percent of Total</u>
9	10	6	16	.12
10	118	96	214	1.59
11	618	608	1226	9.08
12	266	261	527	3.91
13	651	575	1226	9.08
14	1625	1796	3421	25.36
15	318	264	582	4.31
16	15	34	49	.36
17	210	147	357	2.65
18	43	49	92	.68
19	176	175	351	2.60
20	56	101	157	1.16
21	468	454	922	6.83
22	621	684	1305	9.67
23	1459	1408	2867	21.24
24	83	101	184	1.31
TOTAL	6737	6759	13496	100.0

# CHEBOYGAN

ALL STATIONS  
TERMINAL TRIPS



Total Terminal Trips = 13496

FIGURE 3

TABLE 5

TOTAL AREA  
ALL STATIONS  
TRIP LENGTHS

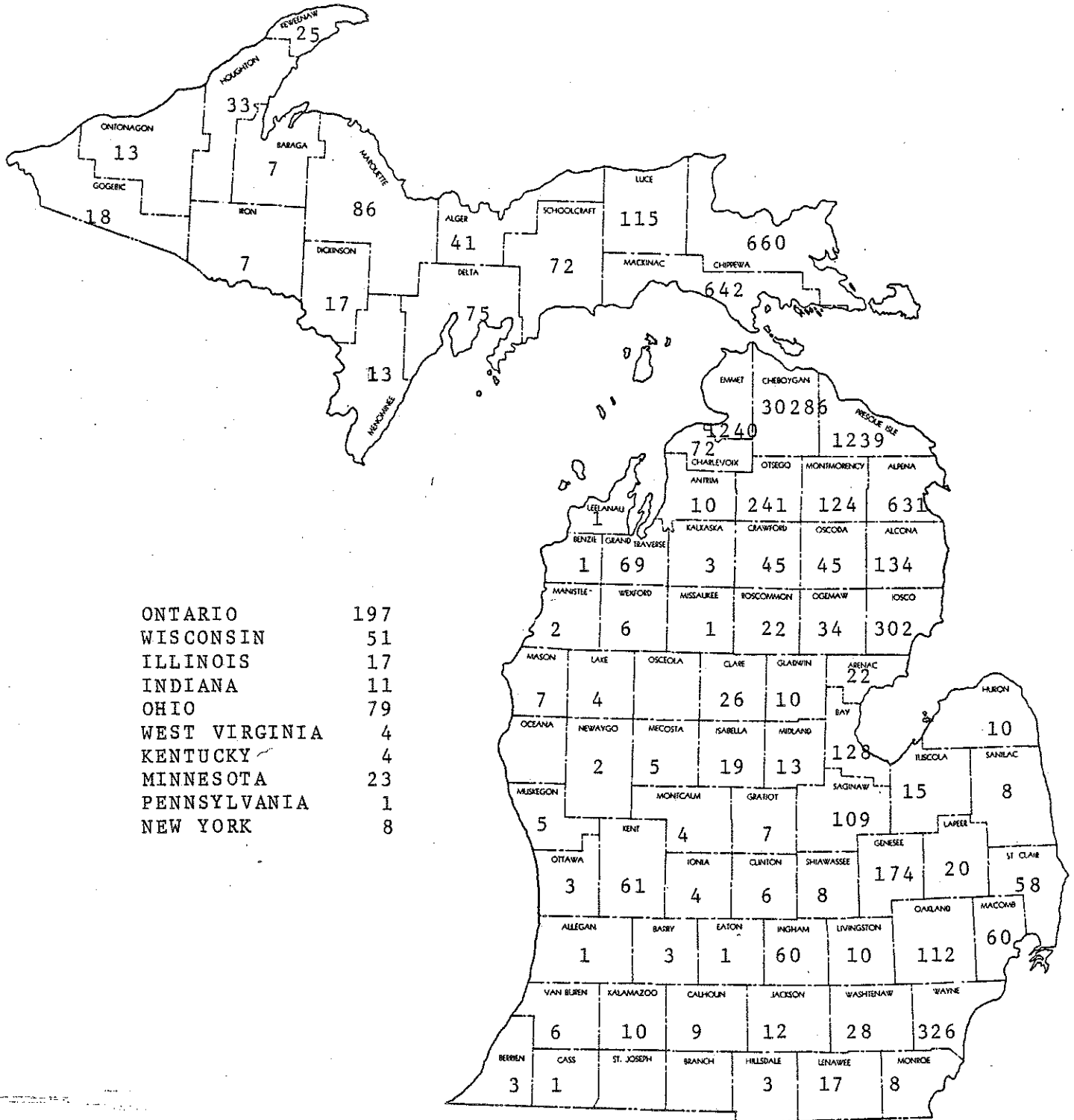
<u>Minutes</u>	<u>Trips</u>	<u>Percent of Total</u>
0 - 20	4342	29.51
20 - 40	4817	32.70
40 - 60	2544	17.27
60 - 90	653	4.43
90 - 120	304	2.06
120 - 180	569	3.86
180 - 240	357	2.42
240 - 300	328	2.23
300 - 360	369	2.51
360 - 860	450	3.01
TOTAL	*14733	100.0

Longest Trip Length = 14 Hours 20 Minutes

Average Trip Length = 1 Hour 15 Minutes

\*Total area trips were half-factored to adjust for double counting at the station of exit or entrance for through trips.

CHEBOYGAN  
EXTERNAL ORIGIN DESTINATION SURVEY  
ALL STATIONS  
DISTRIBUTION OF TRIP ENDS  
BY COUNTY



Total Trip Ends 38128  
Total Trips 19064

FIGURE 4

CHEBOYGAN  
 EXTERNAL ORIGIN DESTINATION STUDY  
 AUGUST 1972  
 24 HOUR TRAFFIC COUNTS

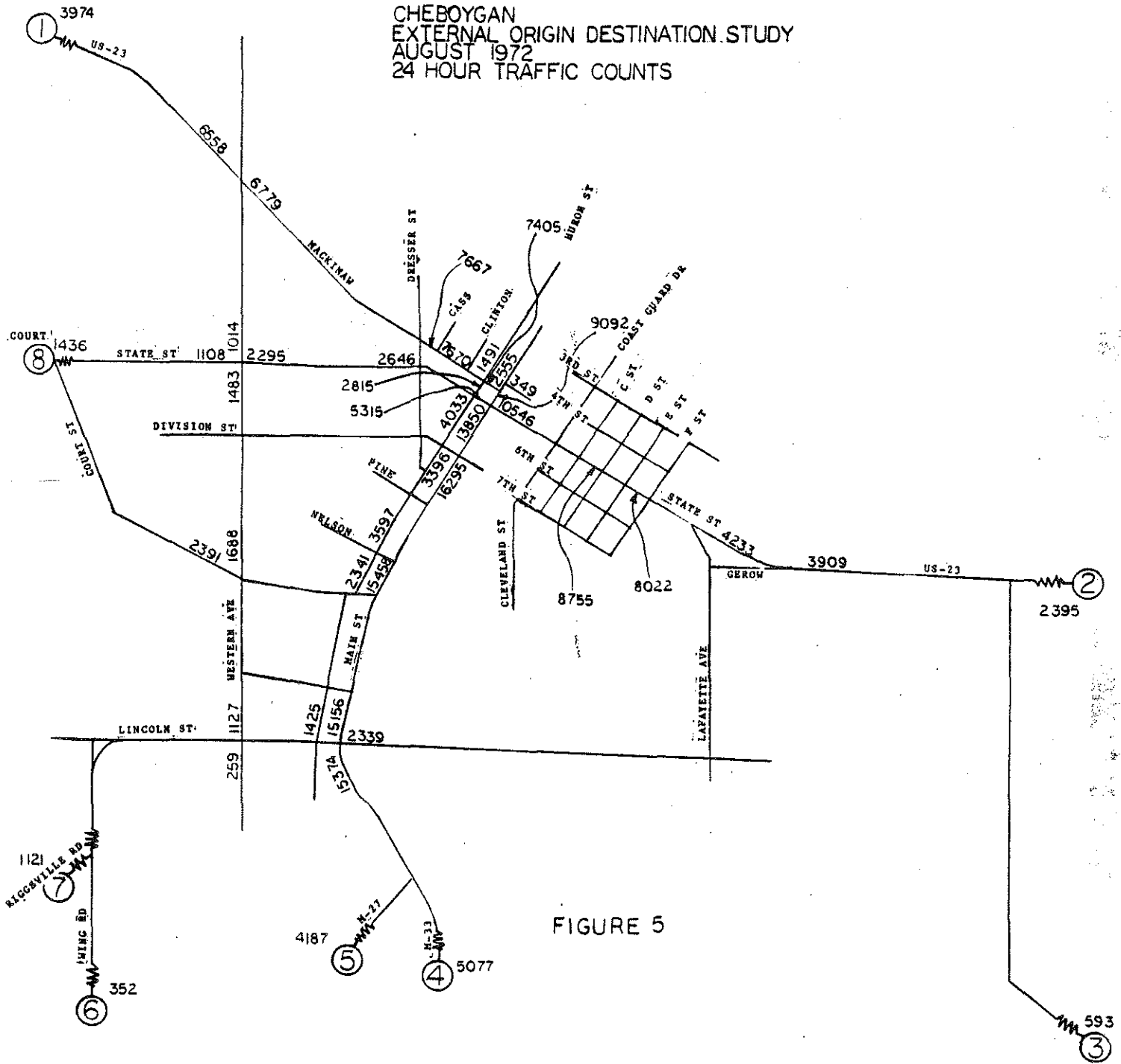


FIGURE 5

## STATION 1

Station 1 was located on US-23 northwest of the Cheboygan City limits. There were 3,974 vehicle trips which passed through the station representing nearly 21% of trips for all stations. Of the trips at this point, 53.65% were terminal and 46.35% through.

Table 6 presents a breakdown of these trips by vehicle type and purpose. More than 83% of all trips were made using passenger cars with almost 7% by panel or pickup truck. Vacation trips accounted for 30.2% of all trips with work and other social recreation following at 23.4% and 22.8% respectively.

Over 67% of the terminal trips began or ended in one of four internal zones. Zone 14 (CBD) accounted for 24.65%, zone 23 (HOSP) 17.45%, zone 11 (WLRES) 14.31% and zone 13 (WRES) 10.99%. It is to be noted that zone 23 (HOSP) in addition to the Community Hospital contains a varied and significant number of commercial activities. Table 7 provides a list of all terminal trips by internal zone with Figure 6 graphically displaying the interchange of these trips.

Since US-23 is the primary state trunkline route for Cheboygan, it is not surprising to note that the most significant interchange of through trips at Station 1 occurred with Station 2 (the other US-23 station). More than 56% of through trips at this location entered or left the study area at Station 2. The other state trunkline stations accounted for an additional 37.4%. Table 8 lists all through trips at this station with Figure 7 graphically showing the interchanges.



The average trip length was relatively long at 2 hours and 14 minutes with the longest trip at 14 hours and 20 minutes. As can be seen from Table 9 more than 48% of all trips were within 40 minutes of Station 1.

Cheboygan County, as can be seen in Figure 8, had the greatest concentration of trip ends. This county alone accounted for 69.23% of all Station 1 trip ends. The four counties fronting Lake Huron to the southeast contributed 8.03%. Trip ends in the upper peninsula accounted for another 12.09% and outstate trips 2.36%.

In all, nearly 92% of all trip ends are accounted for in these areas. The remainder are distributed throughout the state situated principally in the east central and southeastern counties.

TABLE 6

## STATION 1

US-23  
1 MILE N.W. OF CHEBOYGAN N. CITY LIMITS

## TRIPS BY VEHICLE TYPE AND PURPOSE

<u>Vehicle Type</u>	<u>Vehicles</u>	<u>Percent of Total</u>	<u>Terminal Trips</u>	<u>%</u>	<u>Through</u>	<u>%</u>
Passenger Car	3305	83.16	1804	54.58	1501	45.42
Passenger Car with Trailer	152	3.82	18	11.84	134	88.16
Panel or Pickup	276	6.94	196	71.01	80	28.99
Panel or Pickup with Trailer	21	.52	3	14.29	18	85.71
Other Single Unit Trucks	140	3.54	65	46.43	75	53.57
Combinations and Trucks with Trailers	80	2.02	46	57.50	34	42.50
TOTAL	3974	100.0	2132	53.65	1842	46.35

<u>Trip Purpose</u>	<u>Vehicles</u>	<u>Percent of Total</u>	<u>Terminal Trips</u>	<u>%</u>	<u>Through</u>	<u>%</u>
Work	930	23.40	722	77.63	208	22.37
Personal Business	126	3.18	110	87.30	16	12.70
Shopping	590	14.82	575	97.46	15	2.54
Vacation	1200	30.20	158	13.17	1042	86.83
Other Soc.-Rec.	906	22.80	395	43.60	511	56.40
All Other	222	5.60	172	77.48	50	22.52
TOTAL	3974	100.0	2132	53.65	1842	46.35

## TABLE 7

## STATION 1

US-23  
1 MILE N.W. OF CHEBOYGAN N. CITY LIMITS

TERMINAL TRIPS

<u>Zone</u>	<u>Origin</u>	<u>Destination</u>	<u>Total</u>	<u>Percent of Total</u>
9	0	0	0	0
10	18	8	26	1.22
11	145	161	306	14.31
12	63	57	120	5.61
13	123	112	235	10.99
14	267	260	527	24.65
15	74	58	132	6.17
16	1	3	4	.19
17	22	19	41	1.92
18	0	1	1	.05
19	30	44	74	3.46
20	3	10	13	.61
21	74	56	130	6.08
22	47	79	126	5.89
23	161	212	373	17.45
24	13	17	30	1.40
TOTAL	1041	1097	2138	100.0

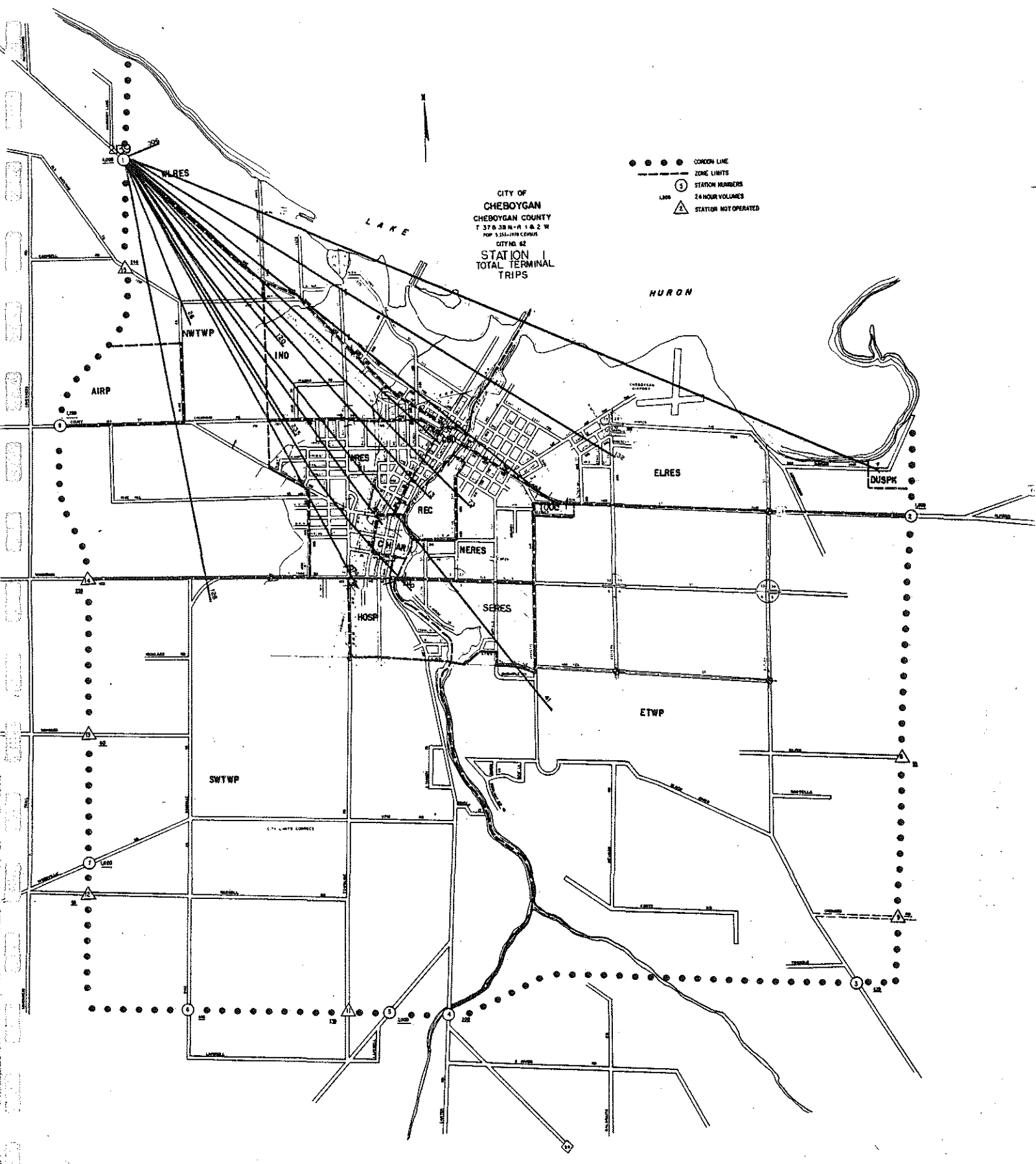


FIGURE 6

## TABLE 8

## STATION 1

US-23

1 MILE N.W. OF CHEBOYGAN N. CITY LIMITS

THROUGH TRIPS TO ALL OTHER STATIONS

<u>Station</u>	<u>Trips</u>	<u>Percent of Total</u>
2	1036	56.42
3	66	3.60
4	364	19.83
5	323	17.59
6	0	0
7	33	1.80
8	14	.76
TOTAL	1836	100.00

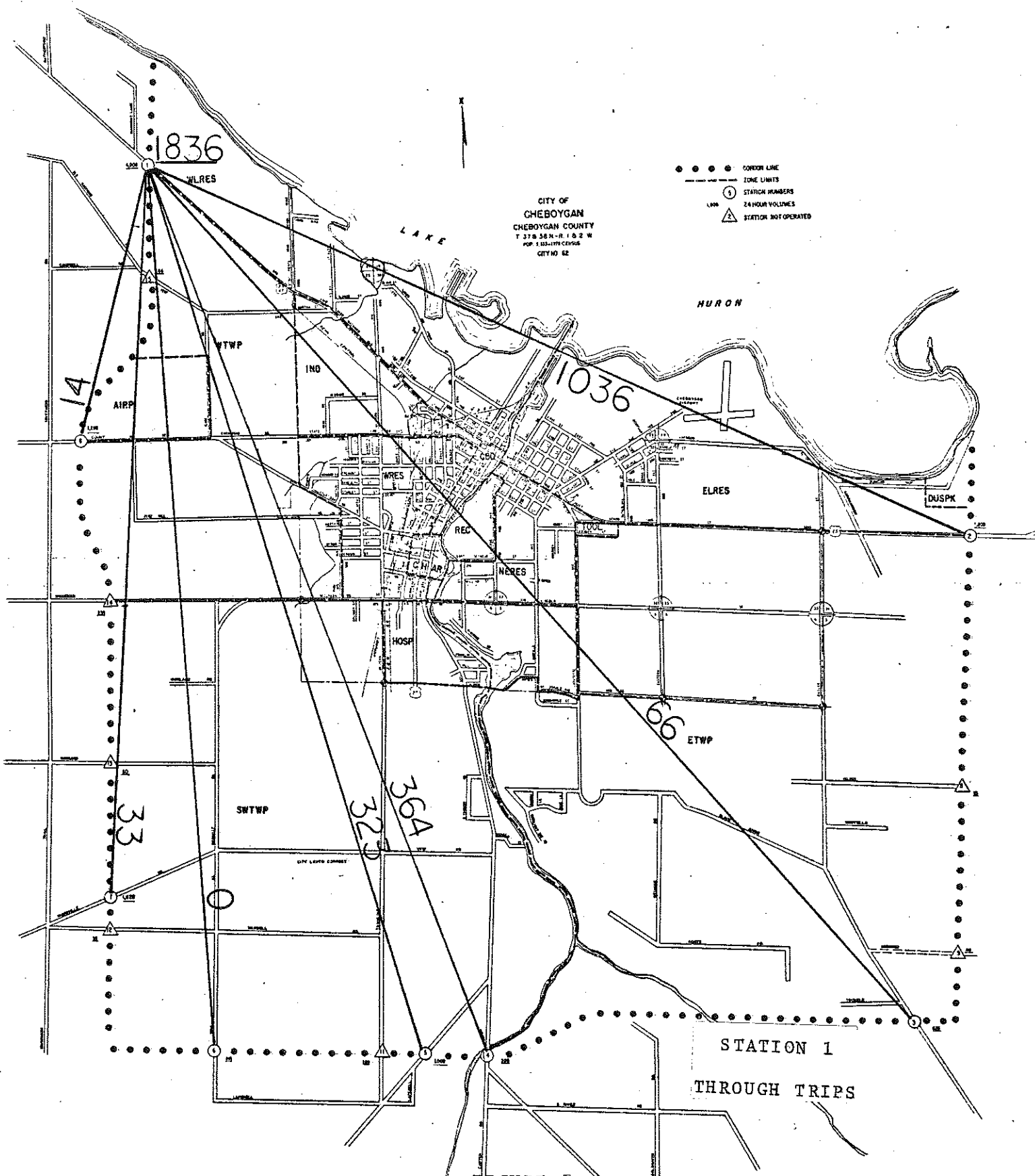


FIGURE 7

## TABLE 9

## STATION 1

US-23  
1 MILE N.W. OF CHEBOYGAN W. CITY LIMITS

## TRIP LENGTHS

<u>Minutes</u>	<u>Trips</u>	<u>Percent of Total</u>
0 - 20	279	6.98
20 - 40	1647	41.16
40 - 60	347	8.68
60 - 90	212	5.30
90 - 120	121	3.03
120 - 180	376	9.40
180 - 240	272	6.80
240 - 300	154	3.85
300 - 360	199	4.98
360 - 420	135	3.38
420 - 860	257	6.44
TOTAL	3999	100.0

Longest Trip Length = 14 Hours 20 Minutes

Average Trip Length = 2 Hours 14 Minutes

CHEBOYGAN  
EXTERNAL ORIGIN DESTINATION SURVEY  
STATION 1  
US-23

1 MILE N.W. OF CHEBOYGAN W. CITY LIMITS  
DISTRIBUTION OF TRIP ENDS  
BY COUNTY

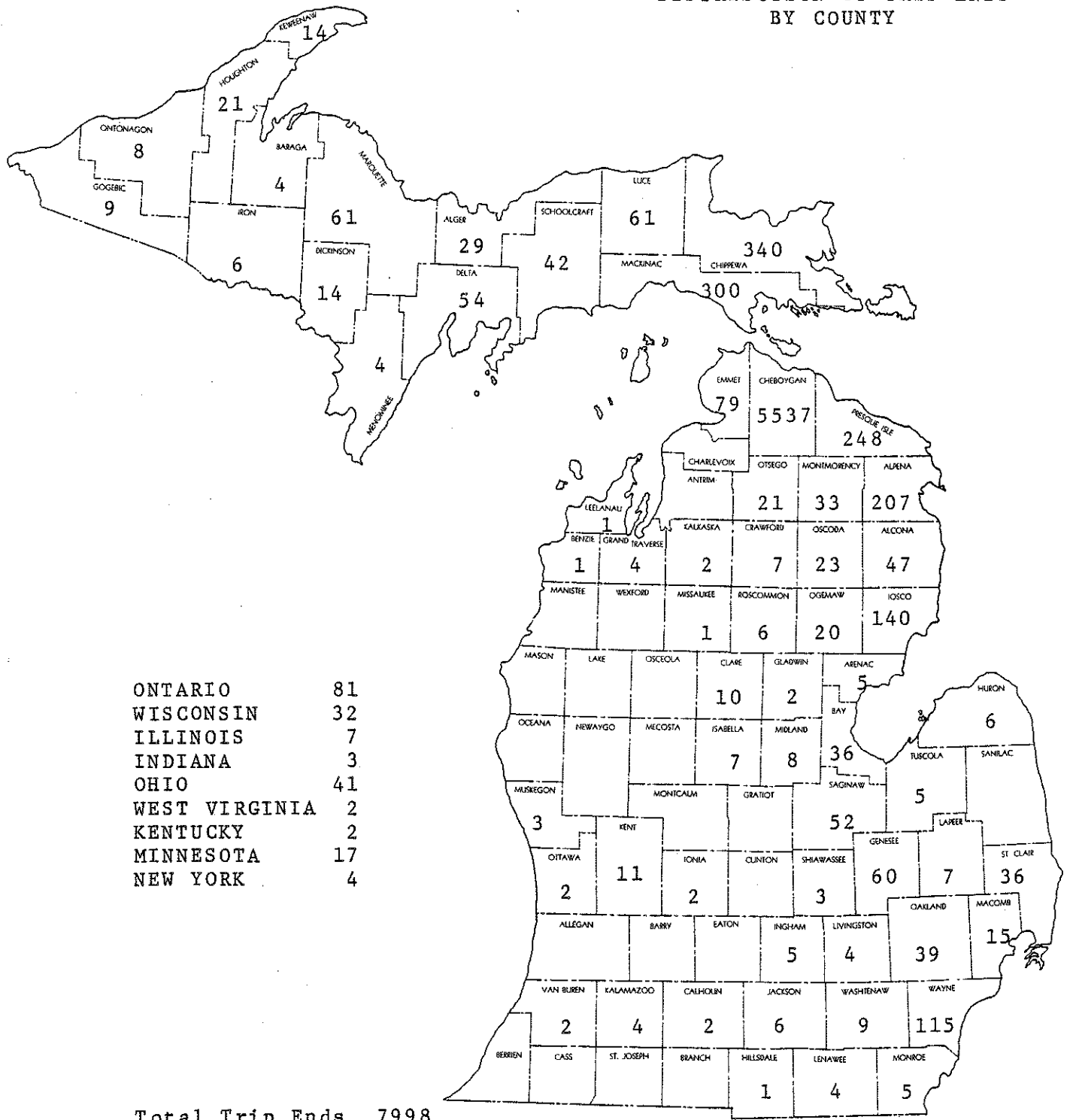


FIGURE 8



## STATION 2

This station was located on US-23 east of the city and west of Alpena Road. The 2,395 vehicles passing through this location constituted 12.52% of all station trips. Almost 54% of the trips were through with the remaining 46% being terminal.

A breakdown of these trips by vehicle type and purpose is presented in Table 10. More than 77% of all trips were made with passenger cars. An additional 11% by panel or pickup truck. The greatest single trip purpose was vacation constituting 33.9% of all trips. Nearly all of these trips were through in nature. Other social recreation and work followed at 23.5% and 23.3%, respectively.

Over 62% of terminal trips were concentrated in four zones. Zone 11 (WLRES) accounted for 11.74%, zone 13 (WRES) 11.47%, zone 14 (CBD) 25.85, and zone 23 (HOSP) 13.46%. Table 11 provides a list of all terminal trips by internal zone with Figure 9 displaying the interchange of these trips.

The great majority (85%) of through trips at the station either entered or left the study area at Station 2. Table 12 lists through trips at this location. M-33 and M-27 stations accounted for an additional 3.74% and 6.3% respectively. Figure 10 displays the interchange of these trips.

Trip lengths were similar to those determined at Station 1. The average trip length was 2 hours and 29 minutes with the longest trip at 14 hours and 10 minutes. Table 13 lists all trips by increments of time.

Displayed in Figure 11 is the distribution of trip ends by county. Over 54% of these ends are concentrated within Cheboygan County. An additional 22.4% are accounted for by those counties fronting Lake Huron to the southeast. The upper peninsula contributed 10.8% and outstate trips 2.7%. In all, over 90% of all trip ends occurred in these areas. The remainder were widespread throughout the rest of the state.

TABLE 10

## STATION 2

US-23  
W. OF ALPENA ROAD

## TRIPS BY VEHICLE TYPE AND PURPOSE

<u>Vehicle Type</u>	<u>Vehicles</u>	<u>Percent of Total</u>	<u>Terminal Trips</u>	<u>%</u>	<u>Through</u>	<u>%</u>
Passenger Car	1854	77.39	869	46.87	985	53.13
Passenger Car with Trailer	108	4.50	12	11.11	96	88.89
Panel or Pickup	263	11.00	167	63.50	96	36.50
Panel or Pickup with Trailer	19	.81	5	26.32	14	73.68
Other Single Unit Trucks	102	4.26	41	40.20	61	59.80
Combinations and Trucks with Trailers	49	2.04	9	18.37	40	81.63
TOTAL	2395	100.0	1103	46.05	1292	53.95

<u>Trip Purpose</u>	<u>Vehicles</u>	<u>Percent of Total</u>	<u>Terminal Trips</u>	<u>%</u>	<u>Through</u>	<u>%</u>
Work	558	23.30	372	66.67	186	33.33
Personal Business	99	4.12	71	71.72	28	28.28
Shopping	282	11.79	267	94.68	15	5.32
Vacation	811	33.85	67	8.26	744	91.74
Other Soc.-Rec.	563	23.50	265	47.07	298	52.93
All Other	82	3.44	61	74.39	21	25.61
TOTAL	2395	100.0	1103	46.05	1292	53.95

TABLE 11

STATION 2  
US-23  
W. OF ALPENA ROAD

TERMINAL TRIPS

<u>Zone</u>	<u>Origin</u>	<u>Destination</u>	<u>Total</u>	<u>Percent of Total</u>
9	0	1	1	.09
10	5	10	15	1.36
11	75	55	130	11.74
12	36	31	67	6.05
13	63	64	127	11.47
14	137	149	286	25.85
15	48	52	100	9.03
16	10	13	23	2.08
17	23	13	36	3.25
18	0	0	0	0
19	17	25	42	3.79
20	5	6	11	.99
21	25	28	53	4.79
22	35	28	63	5.69
23	84	65	149	13.46
24	3	1	4	.36
TOTAL	566	541	1107	100.0

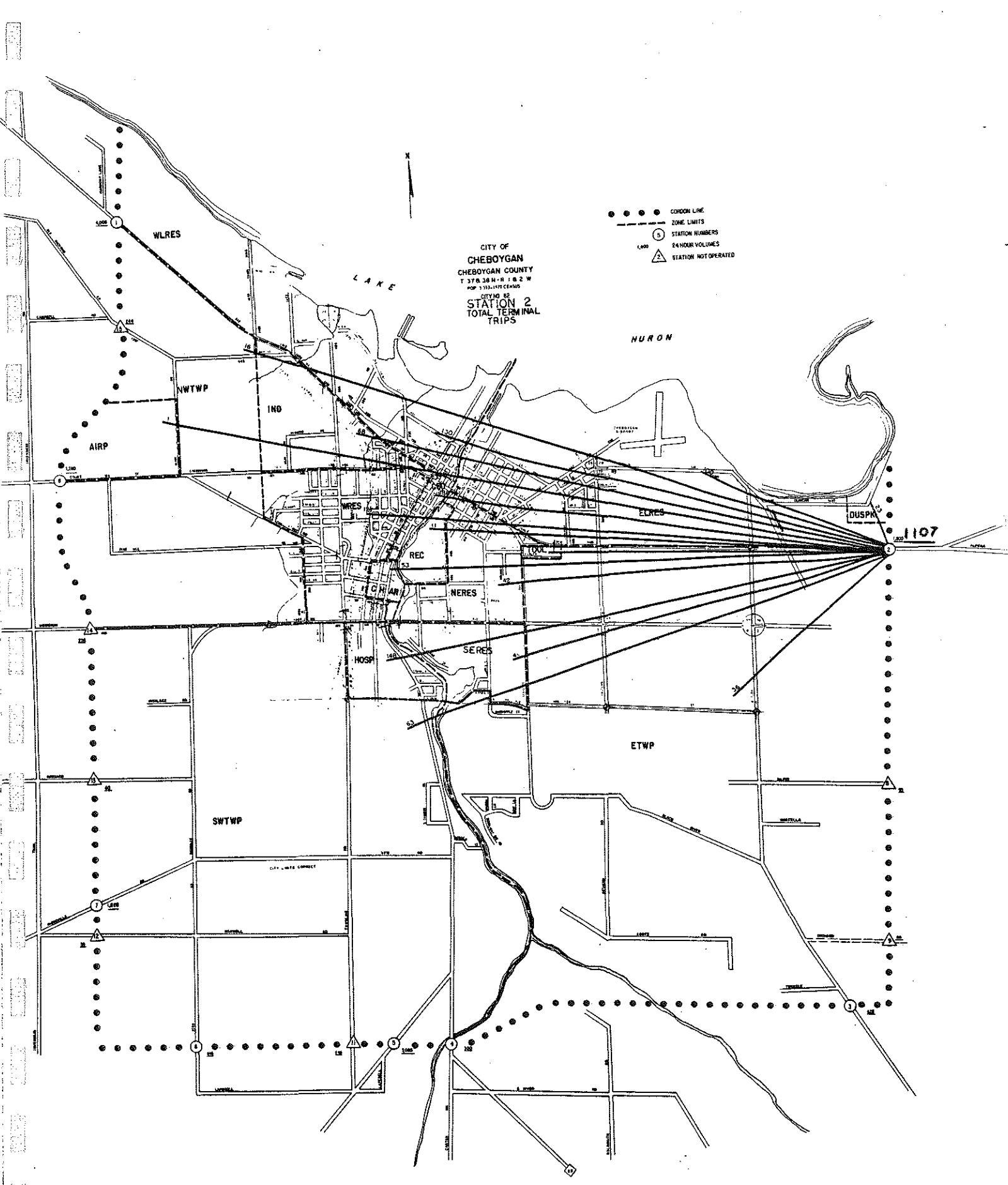


FIGURE 9

## TABLE 12

STATION 2

US-23  
W. OF ALPENA ROADTHROUGH TRIPS TO ALL OTHER STATIONS

<u>Station</u>	<u>Trips</u>	<u>Percent of Total</u>
1	1098	85.44
3	14	1.09
4	48	3.74
5	81	6.30
6	2	.16
7	12	.93
8	30	2.34
TOTAL	1285	100.0

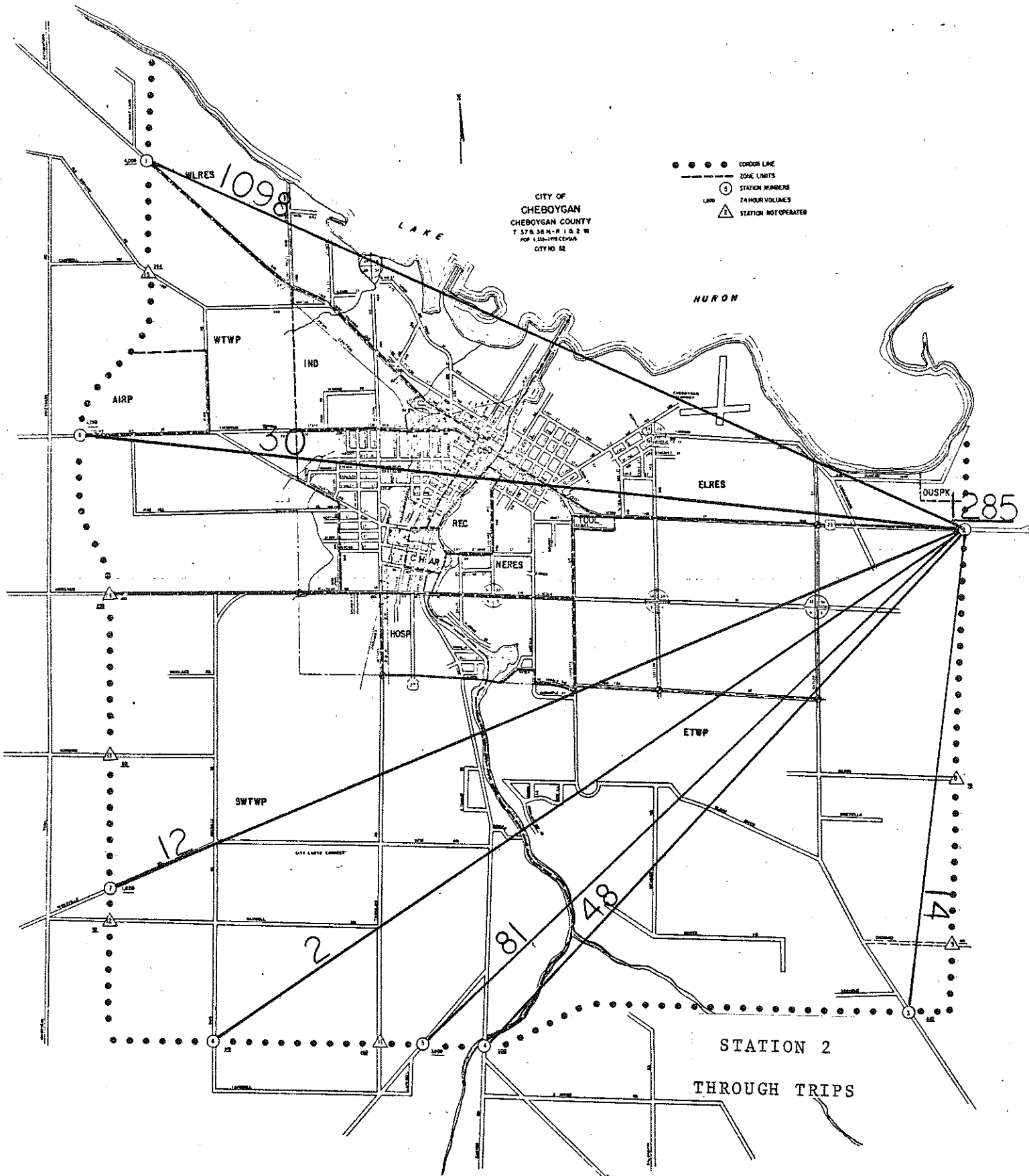


FIGURE 10

## TABLE 13

## STATION 2

US-23  
W. OF ALPENA ROAD

## TRIP LENGTHS

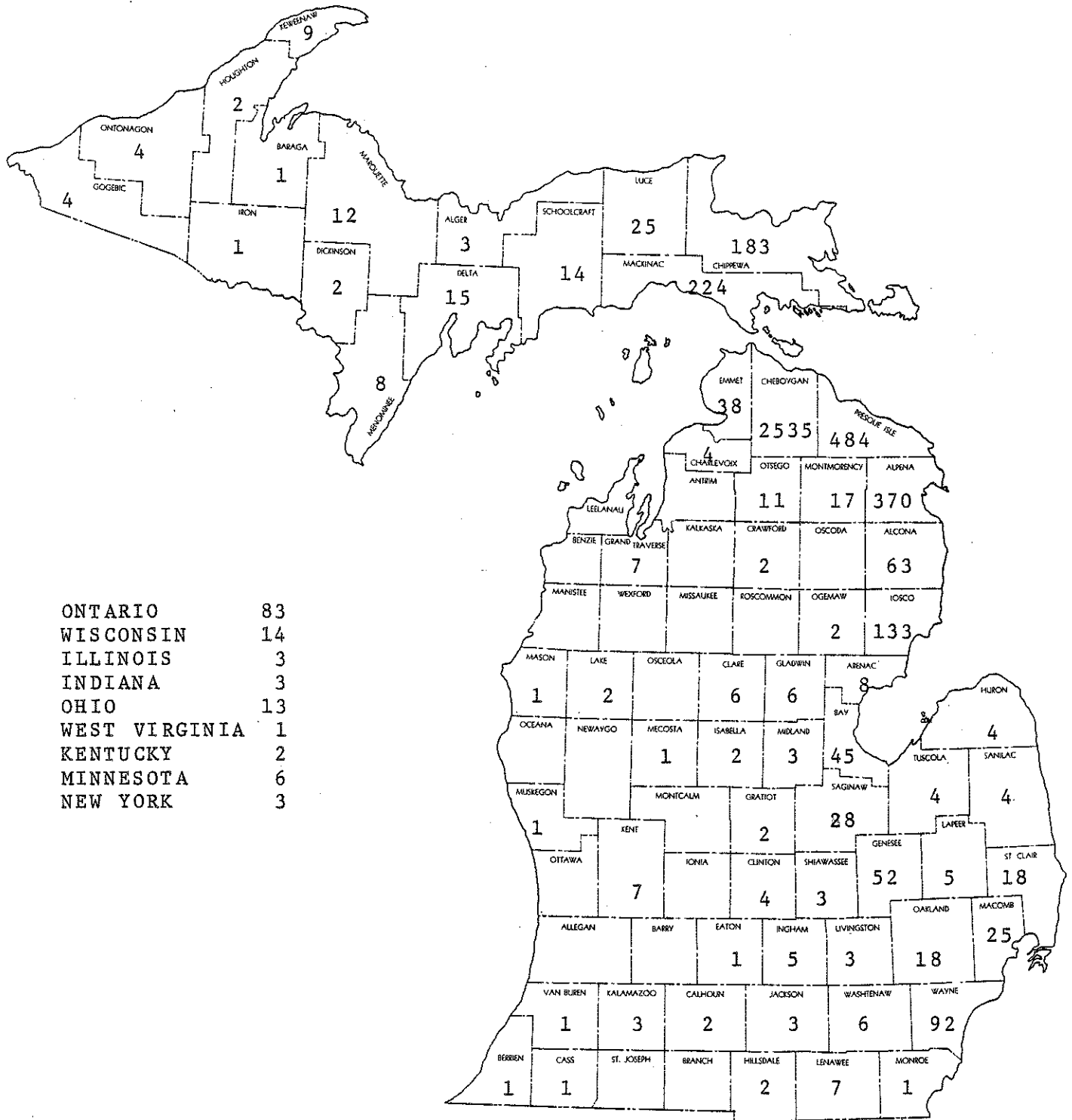
<u>Minutes</u>	<u>Trips</u>	<u>Percent of Total</u>
0 - 20	642	27.45
20 - 40	10	.43
40 - 60	245	10.48
60 - 90	221	9.45
90 - 120	207	8.85
120 - 180	295	12.61
180 - 240	221	9.45
240 - 300	142	6.07
300 - 360	159	6.80
360 - 850	197	8.41
TOTAL	2339	100.0

Longest Trip Length = 14 Hours 10 Minutes

Average Trip Length = 2 Hours 29 Minutes



CHEBOYGAN  
EXTERNAL ORIGIN DESTINATION SURVEY  
STATION 2  
US-23 W. OF ALPENA ROAD  
DISTRIBUTION OF TRIP ENDS BY COUNTY



Total Trip Ends 4678  
Total Trips 2339

FIGURE 11

### STATION 3

Station 3 was located on Black River Road, a low volume county road southeast of Butler Road. There were 593 vehicle trips passing through the station representing only 3.1% of all station trips. Of the total trips at this point 87.69 were terminal and 12.31% through.

About 74% of all trips at the station were made by passenger car with panel or pickup truck constituting the bulk of all remaining trips at 21.05%. Table 14 presents a breakdown of all trips by vehicle type as well as by purpose. Shopping and work trips combined equaled 59.91% of all trips. Other social recreation was 24.64%.

Table 15 presents a list of terminal trips and the internal zones of origin and/or destination. As can be seen, 4 zones accounted for nearly 57% of this type of trip. Zone 11 (WLRES) accounted for 10.97%, zone 14 (CBD) 21.93%, zone 17 (ETWP) 13.47%, and zone 23 (HOSP) 10.38%. Figure 12 shows the interchange of these trips to each zone.

The great bulk of through trips at the station either entered or left the study area at Stations 1 or 2. More than 79% of through trips made this interchange. Table 16 lists all through trips at this location. Figure 13 presents these interchanges graphically.

An analysis of trip lengths at the station indicates that 76.19% of all trips occurred within 20 minutes of the station. In addition, as can be seen in Table 17, the average trip length was 30 minutes and the longest trip 9 hours.

Virtually all trip ends occurred within Cheboygan County. The map displayed as Figure 14 indicates that of the 1,176 trip ends, 1,126 were within the county.

TABLE 14

## STATION 3

BLACK RIVER ROAD  
S.E. OF BUTLER ROAD

## TRIPS BY VEHICLE TYPE AND PURPOSE

<u>Vehicle Type</u>	<u>Vehicles</u>	<u>Percent of Total</u>	<u>Terminal Trips</u>	<u>%</u>	<u>Through</u>	<u>%</u>
Passenger Car	437	73.66	385	88.10	52	11.90
Passenger Car with Trailer	8	1.45	5	62.50	3	37.50
Panel or Pickup	125	21.05	113	90.40	12	9.60
Panel or Pickup with Trailer	9	1.50	7	77.78	2	22.22
Other Single Unit Trucks	9	1.50	8	88.89	1	11.11
Combinations and Trucks with Trailers	5	.84	2	40.00	3	60.00
TOTAL	593	100.0	520	87.69	73	12.31

<u>Trip Purpose</u>	<u>Vehicles</u>	<u>Percent of Total</u>	<u>Terminal Trips</u>	<u>%</u>	<u>Through</u>	<u>%</u>
Work	216	36.42	198	91.67	18	8.33
Personal Business	42	7.04	41	97.62	1	2.38
Shopping	139	23.49	134	96.40	5	3.60
Vacation	23	3.80	8	34.78	15	65.22
Other Soc.-Rec.	146	24.64	114	78.08	32	21.92
All Other	27	4.61	25	92.59	2	7.41
TOTAL	593	100.0	520	87.69	73	8.33

TABLE 15

## STATION 3

BLACK RIVER ROAD  
S.E. OF BUTLER ROAD

TERMINAL TRIPS

<u>Zone</u>	<u>Origin</u>	<u>Destination</u>	<u>Total</u>	<u>Percent of Total</u>
9	1	3	4	.77
10	4	5	9	1.73
11	33	24	57	10.97
12	5	9	14	2.69
13	14	11	25	4.81
14	44	70	114	21.93
15	24	17	41	7.88
16	3	5	8	1.54
17	38	32	70	13.47
18	1	9	10	1.92
19	10	8	18	3.46
20	1	5	6	1.15
21	15	16	31	5.96
22	10	17	27	5.19
23	32	22	54	10.38
24	16	16	32	6.15
TOTAL	251	269	520	100.0

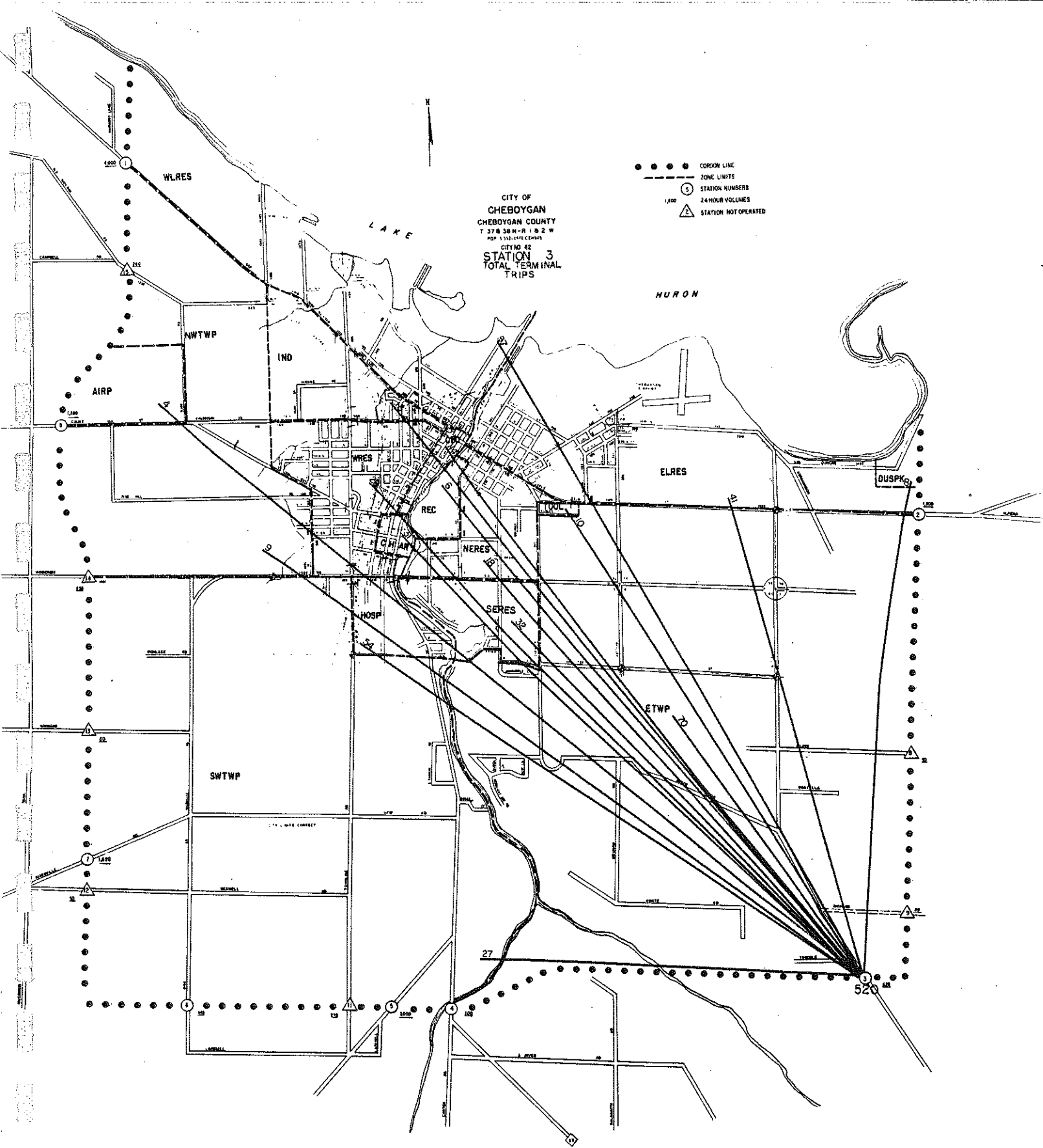


FIGURE 12

TABLE 16

STATION 3

BLACK RIVER ROAD  
S.E. OF BUTLER ROAD

THROUGH TRIPS TO ALL OTHER STATIONS

<u>Station</u>	<u>Trips</u>	<u>Percent of Total</u>
1	33	45.20
2	25	34.25
4	0	0
5	3	4.11
6	0	0
7	1	1.37
8	11	15.07
TOTAL	73	100.0

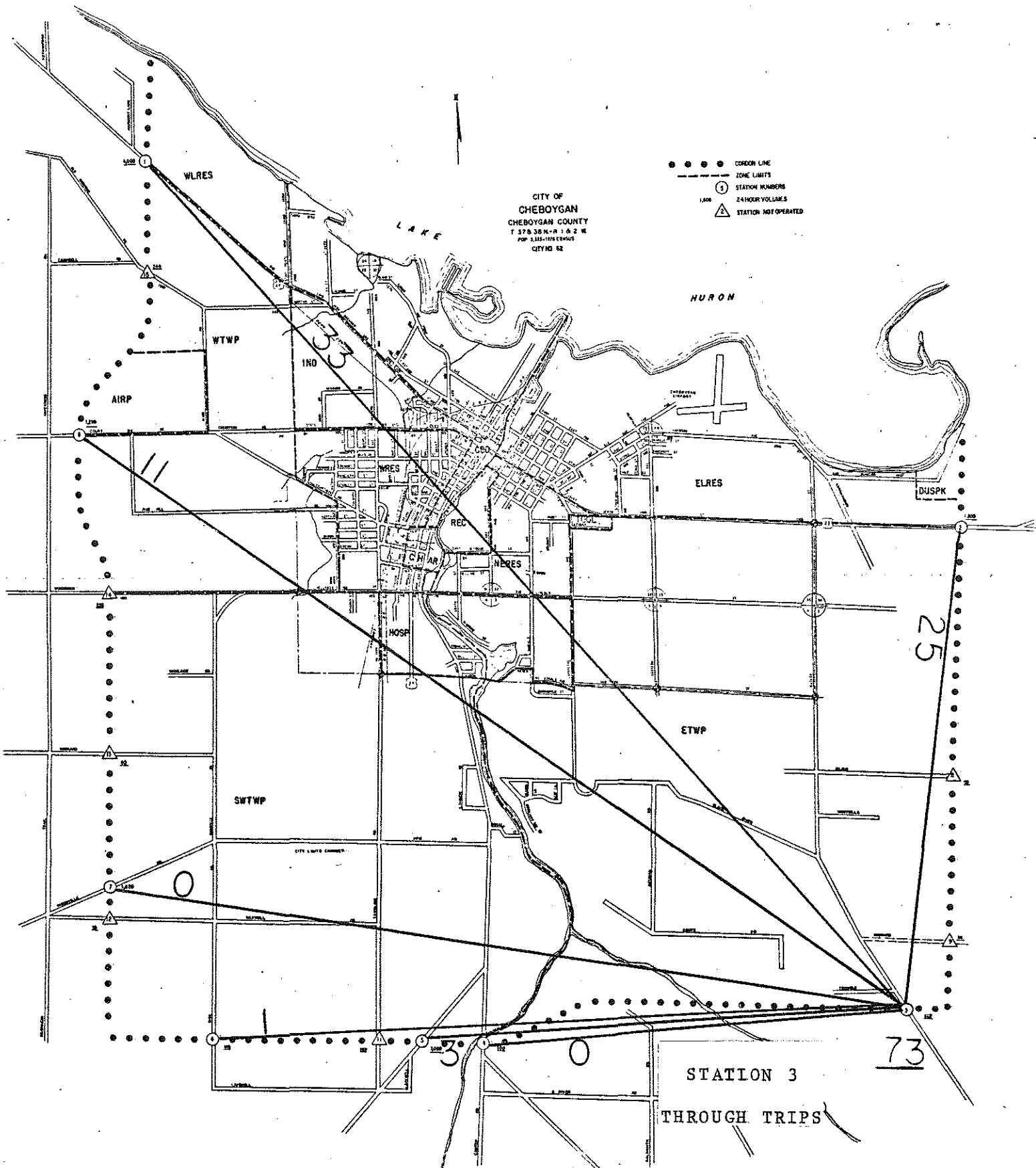


FIGURE 13



TABLE 17

## STATION 3

BLACK RIVER ROAD  
S.E. OF BUTLER ROAD

## TRIP LENGTHS

<u>Minutes</u>	<u>Trips</u>	<u>Percent of Total</u>
0 - 20	448	76.19
20 - 40	14	2.38
40 - 60	107	18.20
60 - 90	5	.85
90 - 540	14	2.38
TOTAL	588	100.0

Longest Trip Length = 9 Hours

Average Trip Length = 30 Minutes



#### STATION 4

This station was located on M-33 at the Cheboygan River Bridge. Trips at this location (5,077) represent 26.53% of all station trips. Of this total 75.42% were terminal and 24.58% through.

Shown in Table 18 is a breakdown of all trips by vehicle type and purpose. Over 80% of all trips were made by passenger car with an additional 13.17% by panel or pickup truck. Work trips constituted the single greatest purpose at 29.91%. Shopping trips followed closely at 28.54%. Combined, these two purposes account for 58.45% of all trips.

Terminal trips at 3,829 comprised 75.42% of all trips at this location. Over 56% of these trips either began or ended in one or the other primary shopping areas of the city. Zone 14 (CBD) accounted for 30.73% and zone 23 (HOSP) 25.83%. All terminal trips at the station are listed in Table 19 with Figure 15 displaying the interchanges of these trips graphically.

Table 20 lists through trips (1,248) at Station 4. Two stations were the primary stations of exit or entrance. Station 1 (US-23NW) at 46.4% had the greatest impact with Station 5 (M-27) at 37.02%. Shown in Figure 17 is a schematic illustrating the interchange of these trips.

The average trip length at this location was 50 minutes with the longest trip being 11 hours 40 minutes. Shown in Table 21 are all trips by increments in time. Over half of all trips occurred within 20 minutes of the station with 87.8% of an hour or less in duration.

As might be expected, from the trip length discussion, most trip ends (88.79%) occurred within Cheboygan County. The map shown as Figure 18, indicates this and shows that the three northern most counties of the lower peninsula account for over 94% of all trip ends.

TABLE 18

## STATION 4

M-33  
AT CHEBOYGAN RIVER BRIDGE

## TRIPS BY VEHICLE TYPE AND PURPOSE

<u>Vehicle Type</u>	<u>Vehicles</u>	<u>Percent of Total</u>	<u>Terminal Trips</u>	<u>%</u>	<u>Through</u>	<u>%</u>
Passenger Car	4071	80.19	3104	76.25	967	23.75
Passenger Car with Trailer	130	2.56	50	38.46	80	61.54
Panel or Pickup	669	13.17	530	79.22	139	20.78
Panel or Pickup with Trailer	22	.43	16	72.73	6	27.27
Other Single Unit Trucks	136	2.68	95	69.85	41	30.15
Combinations and Trucks with Trailers	49	.97	34	69.39	15	30.61
TOTAL	5077	100.0	3829	75.42	1248	24.58

<u>Trip Purpose</u>	<u>Vehicles</u>	<u>Percent of Total</u>	<u>Terminal Trips</u>	<u>%</u>	<u>Through</u>	<u>%</u>
Work	1519	29.91	1209	79.59	310	20.41
Personal Business	295	5.82	255	86.44	40	13.56
Shopping	1449	28.54	1403	96.83	46	3.17
Vacation	593	11.69	112	18.89	481	81.11
Other Soc.-Rec.	884	17.41	578	65.38	306	34.62
All Other	337	6.63	272	80.71	65	19.29
TOTAL	5077	100.0	3829	75.42	1248	24.58

TABLE 19

## STATION 4

M-33  
AT CHEBOYGAN RIVER BRIDGE

TERMINAL TRIPS

<u>Zone</u>	<u>Origin</u>	<u>Destination</u>	<u>Total</u>	<u>Percent of Total</u>
9	4	1	5	.14
10	32	22	54	1.44
11	100	115	215	5.65
12	50	47	97	2.56
13	153	131	284	7.45
14	542	633	1175	30.73
15	52	47	99	2.62
16	0	5	5	.14
17	74	36	110	2.90
18	7	12	19	.07
19	44	41	85	2.25
20	18	29	47	1.26
21	132	120	252	6.61
22	157	185	342	8.96
23	519	469	988	25.83
24	22	30	52	1.39
TOTAL	1906	1923	3829	100.0

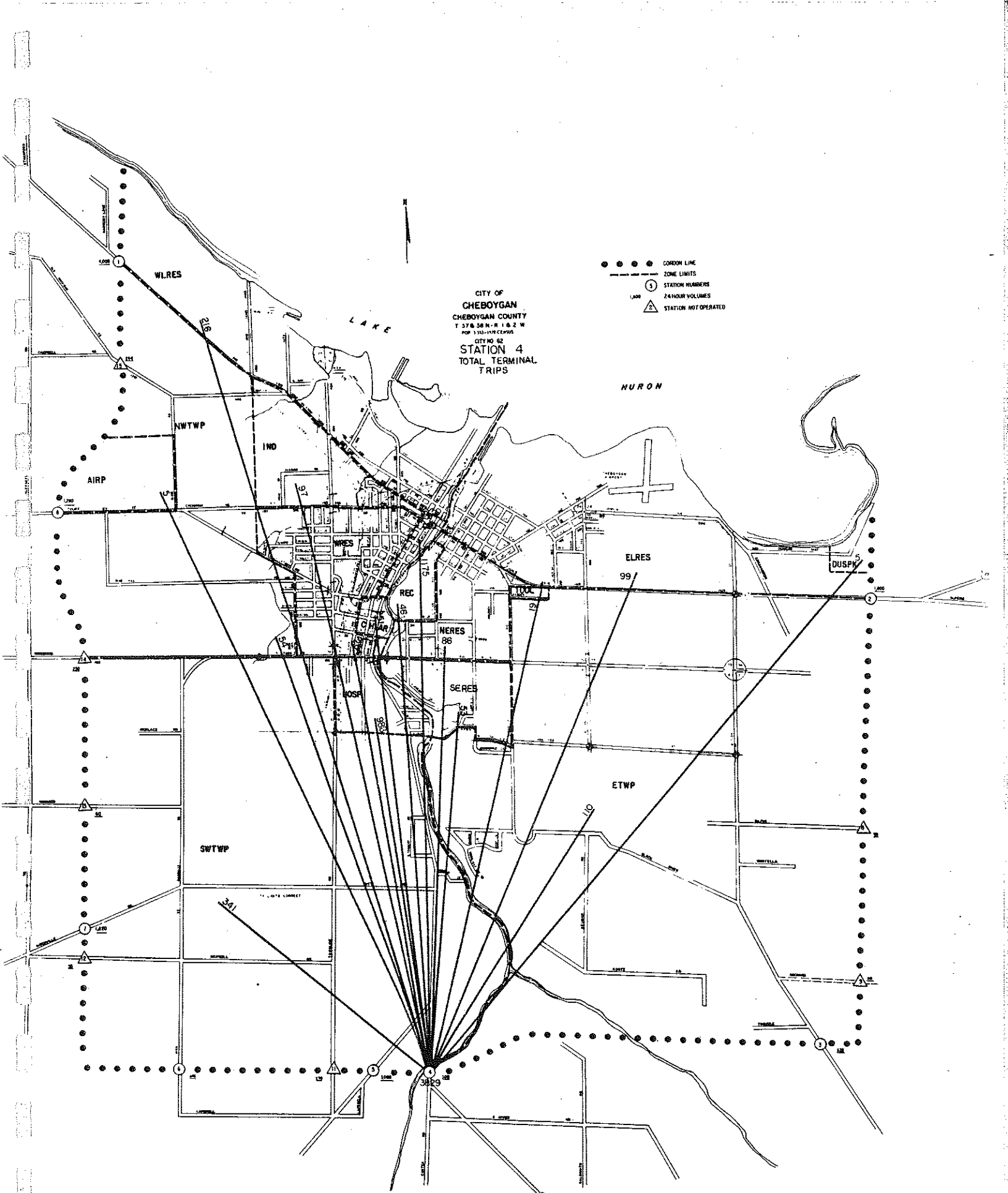


FIGURE 15

TABLE 20

STATION 4

M-33  
AT CHEBOYGAN RIVER BRIDGETHROUGH TRIPS TO ALL OTHER STATIONS

<u>Station</u>	<u>Trips</u>	<u>Percent of Total</u>
1	579	46.40
2	54	4.33
3	11	.88
5	462	37.02
6	2	.16
7	110	8.81
8	30	2.40
TOTAL	1248	100.00



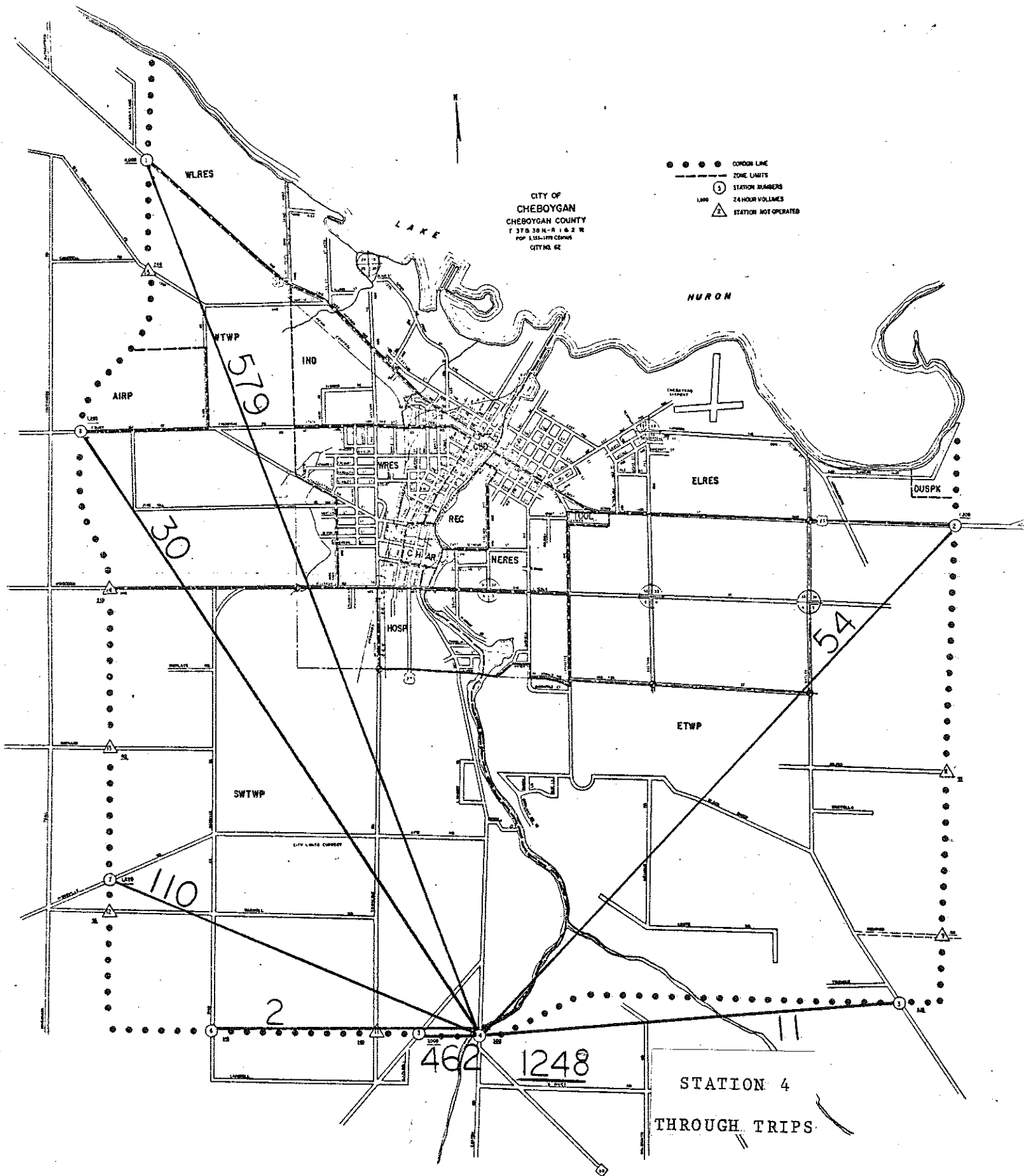


FIGURE 16

## TABLE 21

## STATION 4

M-33

AT CHEBOYGAN RIVER BRIDGE

## TRIP LENGTHS

<u>Minutes</u>	<u>Trips</u>	<u>Percent of Total</u>
0 - 20	2572	50.65
20 - 40	609	11.99
40 - 60	1279	25.19
60 - 90	177	3.49
90 - 120	66	1.30
120 - 700	375	7.38
TOTAL	5078	100.0

Longest Trip Length = 11 Hours 40 Minutes

Average Trip Length = 50 Minutes



## STATION 5

Station 5 was located on M-27 southwest of M-33. Trips at this location (4,187) represented 21.88% of all station trips. Terminal trips constituted 81.37% of the total and through trips 18.63%.

A breakdown of all trips by vehicle type and purpose is listed in Table 22. Combined, passenger cars and panel and/or pickup trucks accounted for 92.61% of all vehicle trips. The former contributed 81.04% and the latter 11.57%. The largest single trip purpose category was work at 34.95% followed by shopping (26.55%) and other social recreation (17.14%).

The Cheboygan CBD and HOSP zones (14 and 23) constituted the origin or destination end of Station 5 terminal trips for 49.38% of the total. Zone 14 accounted for 23.69% and zone 23 an additional 25.68%. All terminal trips by internal analysis zone is presented in Table 23 and displayed graphically in Figure 18.

Through trips, as shown in Table 24, interchange primarily with the other 3 state trunkline stations. Station 1 (US-23NW) accounted for 39.53%, Station 2 (US-23E) 13.48% and Station 4 (M-27) 32.72%. Figure 19 displays, graphically, the interchange of these trips.

Trip lengths for Station 5 are listed in Table 25. As shown, the average trip length was 1 hour and 11 minutes with the longest trip being 12 hours. More than 84% of all trips had a duration of 1 hour or less.

An analysis of the distribution of trip ends by county (see Figure 20) reveals that 87.92% of all trip ends occurred within Cheboygan County. When considered with trip ends to or from adjacent counties, nearly 93% of all trip ends are accounted for. The remainder are fairly widely dispersed throughout the state.

TABLE 22

## STATION 5

M-27  
S.W. OF M-33

## TRIPS BY VEHICLE TYPE AND PURPOSE

<u>Vehicle Type</u>	<u>Vehicles</u>	<u>Percent of Total</u>	<u>Terminal Trips</u>	<u>%</u>	<u>Through</u>	<u>%</u>
Passenger Car	3393	81.04	2793	82.32	600	17.68
Passenger Car with Trailer	72	1.71	28	38.89	44	61.11
Panel or Pickup	484	11.57	408	84.30	76	15.70
Panel or Pickup with Trailer	20	.49	9	45.00	11	55.00
Other Single Unit Trucks	148	3.54	112	75.68	36	24.32
Combinations and Trucks with Trailers	70	1.66	57	81.43	14	18.57
TOTAL	4187	100.0	3407	81.37	780	18.63

<u>Trip Purpose</u>	<u>Vehicles</u>	<u>Percent of Total</u>	<u>Terminal Trips</u>	<u>%</u>	<u>Through</u>	<u>%</u>
Work	1463	34.95	1251	85.51	212	14.49
Personal Business	303	7.23	291	96.04	12	3.96
Shopping	1112	26.55	1075	96.67	37	3.33
Vacation	317	7.57	88	27.76	229	72.24
Other Soc.-Rec.	717	17.14	470	65.55	247	34.45
All Other	275	6.56	232	84.36	43	15.64
TOTAL	4187	100.0	3407	81.37	780	18.63

TABLE 23

## STATION 5

M-27  
S.W. OF M-33TERMINAL TRIPS

<u>Zone</u>	<u>Origin</u>	<u>Destination</u>	<u>Total</u>	<u>Percent of Total</u>
9	1	0	1	.03
10	32	22	54	1.58
11	145	139	284	8.32
12	55	63	118	3.46
13	133	111	244	7.15
14	390	419	809	23.69
15	67	49	116	3.40
16	0	7	7	.21
17	32	34	66	1.93
18	22	13	35	1.03
19	37	26	63	1.85
20	16	32	48	1.41
21	125	122	247	7.23
22	196	208	404	11.83
23	451	426	877	25.68
24	17	24	41	1.20
TOTAL	1719	1695	3414	100.0

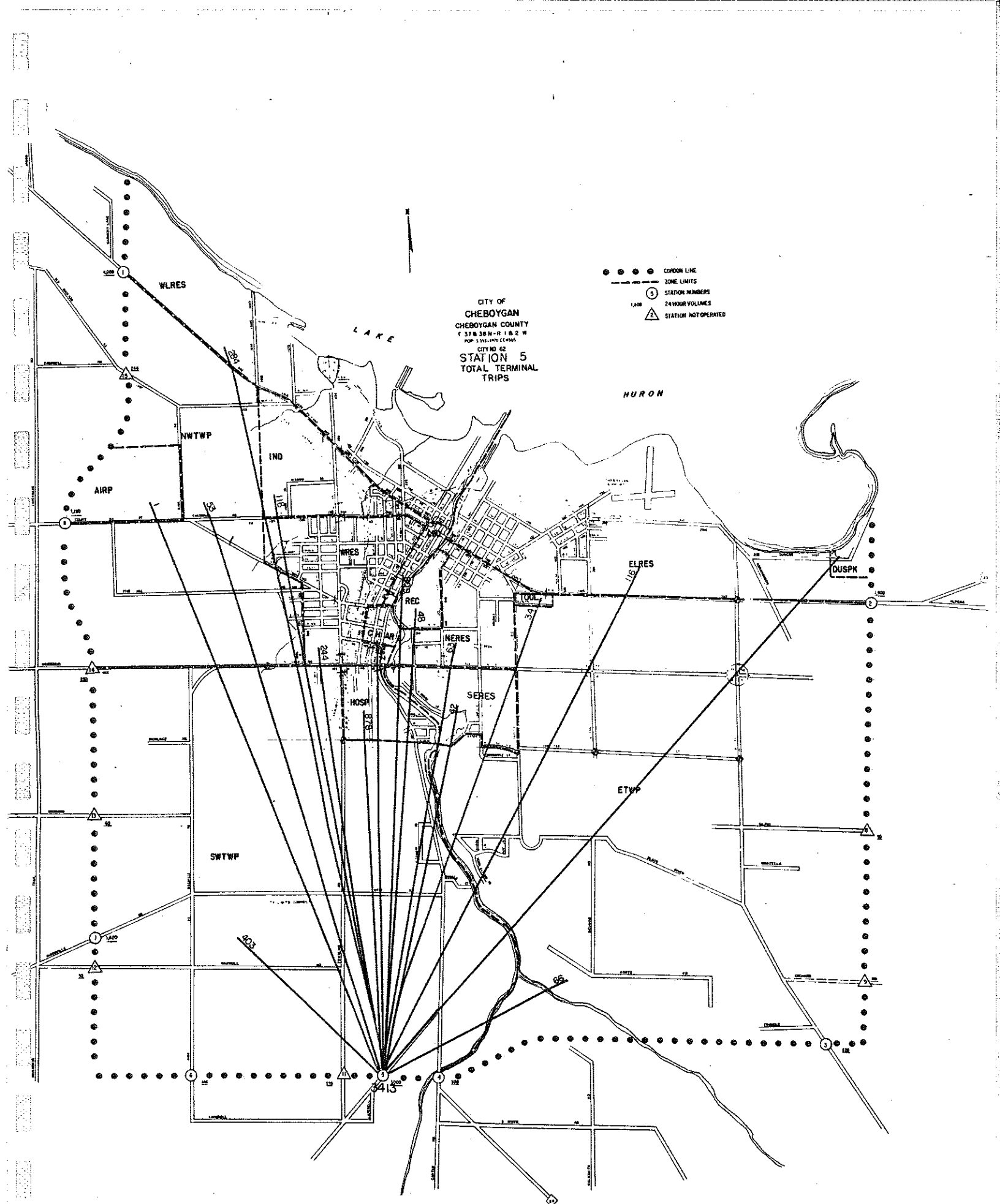


FIGURE 18



## TABLE 24

STATION 5

M-27  
S.W. OF M-33THROUGH TRIPS TO ALL OTHER STATIONS

<u>Station</u>	<u>Trips</u>	<u>Percent of Total</u>
1	302	39.53
2	103	13.48
3	43	5.63
4	250	32.72
6	11	1.44
7	33	4.32
8	22	2.88
TOTAL	764	100.00

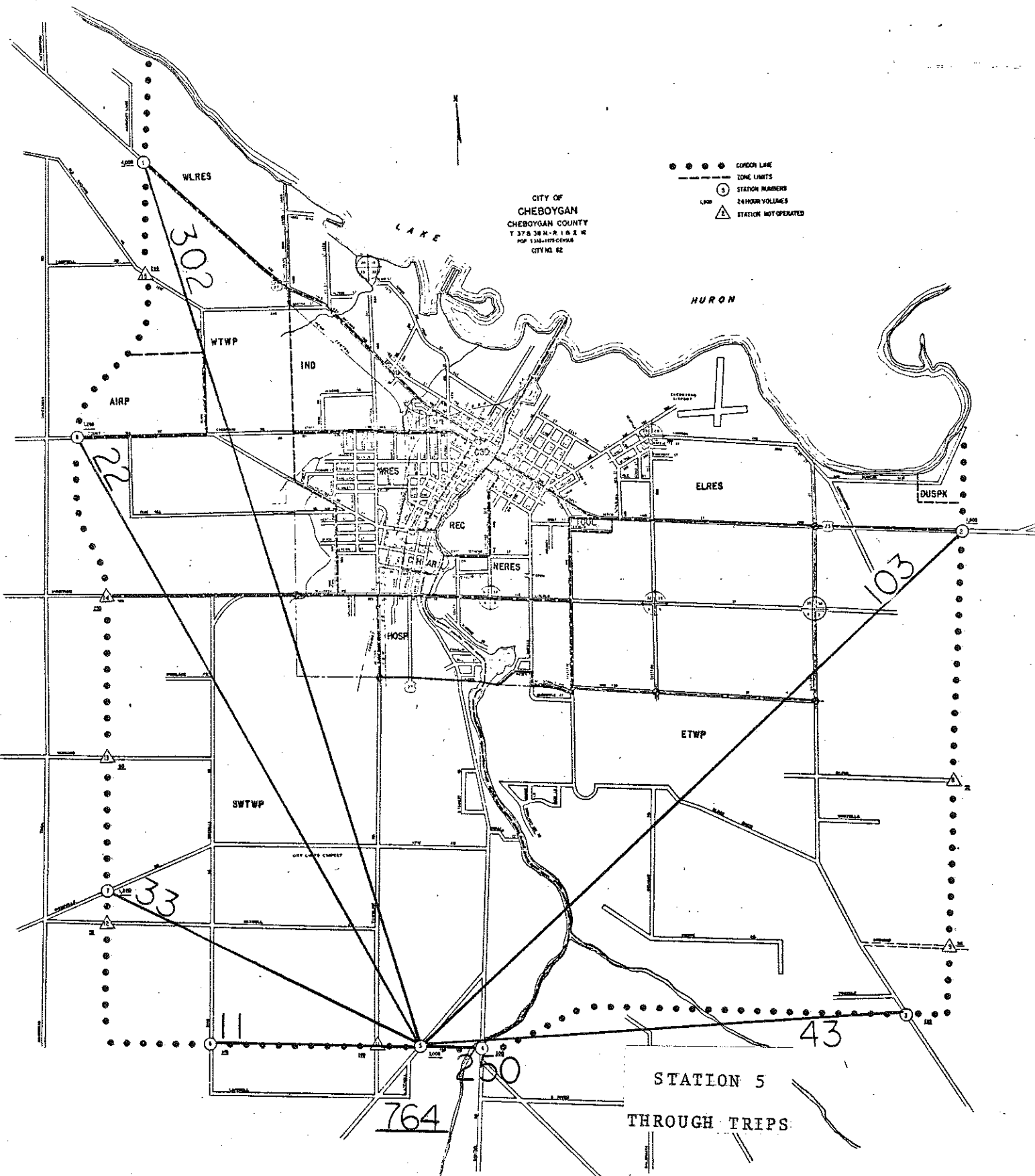


FIGURE 19

TABLE 25

STATION 5

M-27  
S.W. OF M-33

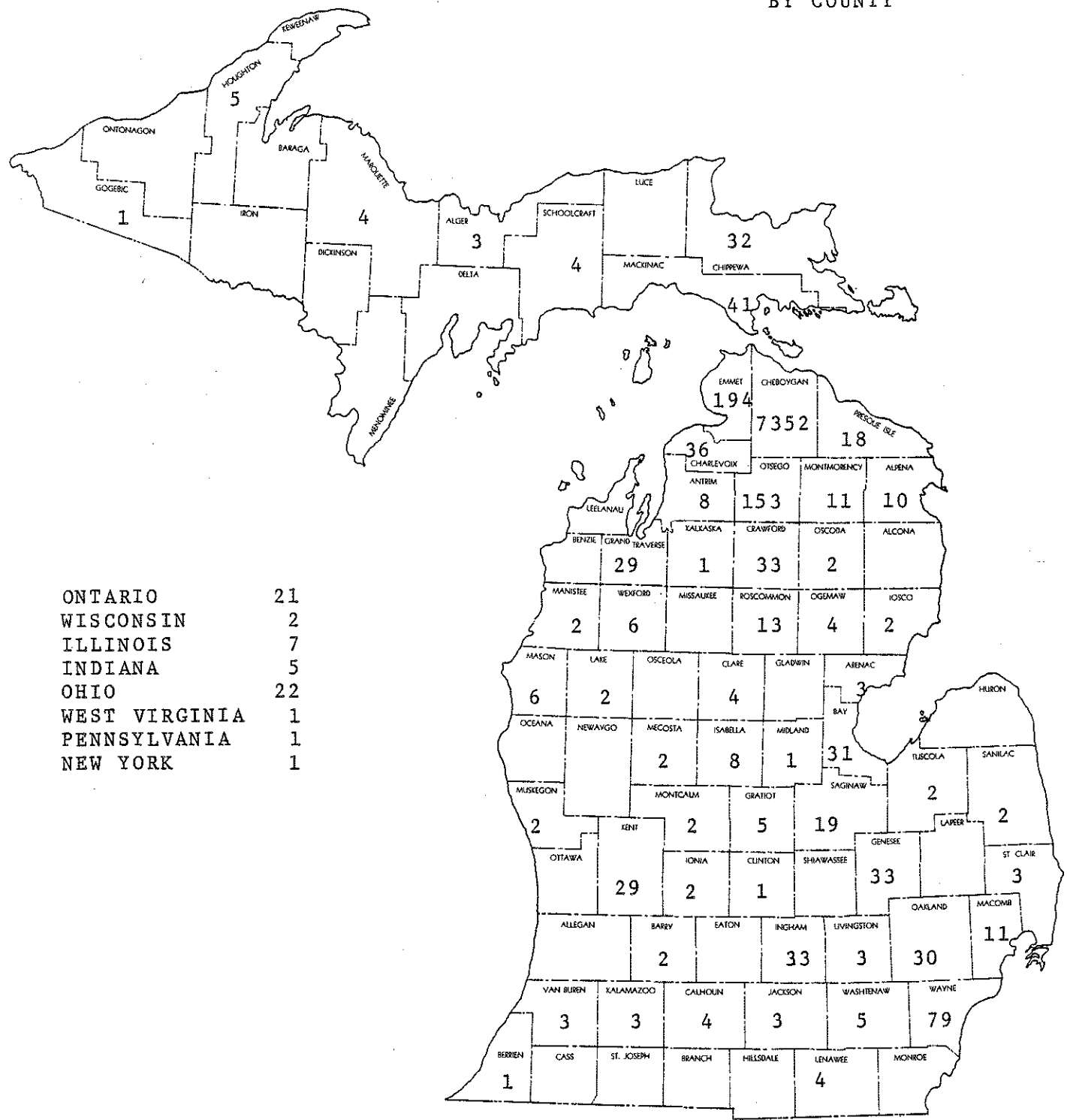
TRIP LENGTHS

<u>Minutes</u>	<u>Trips</u>	<u>Percent of Total</u>
0 - 20	395	9.45
20 - 40	2506	59.94
40 - 60	615	14.71
60 - 90	142	3.40
90 - 120	55	1.32
120 - 180	73	1.75
180 - 240	68	1.63
240 - 300	120	2.87
300 - 720	207	4.93
TOTAL	4181	100.0

Longest Trip Length = 12 Hours

Average Trip Length = 1 Hour 11 Minutes

CHEBOYGAN  
 EXTERNAL ORIGIN DESTINATION SURVEY  
 STATION 5  
 M-27 S.W. OF M-33  
 DISTRIBUTION OF TRIP ENDS  
 BY COUNTY



ONTARIO	21
WISCONSIN	2
ILLINOIS	7
INDIANA	5
OHIO	22
WEST VIRGINIA	1
PENNSYLVANIA	1
NEW YORK	1

Total Trip Ends = 8362  
 Total Trips = 4181

FIGURE 20

## STATION 6

Station 6, located on Wing Road south of Riggsville Road, exhibited the lowest traffic volume (352) of any of the Cheboygan external stations. Traffic at this point constituted only 1.84% of all station vehicle trips. The great majority of trips were terminal (85.51%) with the remainder being through trips.

A breakdown of these trips by vehicle type and purpose is provided as Table 26. Nearly 98% of all trips were made by passenger car or panel or pickup truck. The former constituted 75.94%, the latter 21.83%. Nearly half (49.44%) were for the purpose of work which other social recreation followed at 22.12%.

More than 39.7% of terminal trips either began or ended at zone 22 (SWTWP). As can be seen in Table 27 other zones of significance include zone 13 (WRES) at 10.2% and zone 14 (CBD) at 14.15%. Terminal trip interchanges are illustrated in Figure 21.

Only 48 through trips passed through station 5, 39 of which either entered or left the area via station 7 or 8. Table 28 lists these through trips with Figure 22 displaying graphically the interchanges by station.

As might be expected because of low volumes and trip purposes of a rather local nature, trip lengths, too, are relatively short. As shown in Table 29, the average trip length was 36 minutes and the longest trip at 5 hours and 20 minutes. Virtually all trips (96.29%) have a duration of 1 hour or less.

Trip ends by county, shown in Figure 23, are located in only 4 counties. Cheboygan County alone accounts for 96.3%.

An examination of Figure 24 very clearly shows the totally local nature of the facility.

TABLE 26

## STATION 6

WING ROAD  
S. OF RIGGSVILLE ROAD

## TRIPS BY VEHICLE TYPE AND PURPOSE

<u>Vehicle Type</u>	<u>Vehicles</u>	<u>Percent of Total</u>	<u>Terminal Trips</u>	<u>%</u>	<u>Through</u>	<u>%</u>
Passenger Car	267	75.94	222	83.15	45	16.85
Passenger Car with Trailer	0	0	0	0	0	0
Panel or Pickup	77	21.83	71	92.21	6	7.79
Panel or Pickup with Trailer	4	1.10	4	100.0	0	0
Other Single Unit Trucks	1	.28	1	100.0	0	0
Combinations and Trucks with Trailers	3	.85	3	100.0	0	0
TOTAL	352	100.0	301	85.51	51	14.49

<u>Trip Purpose</u>	<u>Vehicles</u>	<u>Percent of Total</u>	<u>Terminal Trips</u>	<u>%</u>	<u>Through</u>	<u>%</u>
Work	174	49.44	152	87.36	22	12.64
Personal Business	20	5.58	20	100.0	0	0
Shopping	45	12.74	42	93.33	3	6.67
Vacation	1	.42	0	0	1	100.0
Other Soc.-Rec.	78	22.12	58	74.36	20	25.64
All Other	34	9.70	29	85.29	5	14.71
TOTAL	352	100.0	301	85.51	51	14.49

TABLE 27

## STATION 6

WING ROAD  
S. OF RIGGSVILLE ROADTERMINAL TRIPS

<u>Zone</u>	<u>Origin</u>	<u>Destination</u>	<u>Total</u>	<u>Percent of Total</u>
9	0	0	0	0
10	0	0	0	0
11	13	13	26	8.55
12	12	7	19	6.25
13	15	16	31	10.20
14	18	25	43	14.15
15	2	4	6	1.97
16	0	0	0	0
17	2	0	2	.66
18	2	1	3	.99
19	4	3	7	2.30
20	2	1	3	.99
21	11	9	20	6.58
22	65	56	121	39.79
23	12	9	21	6.91
24	2	0	2	.66
TOTAL	160	144	304	100.0



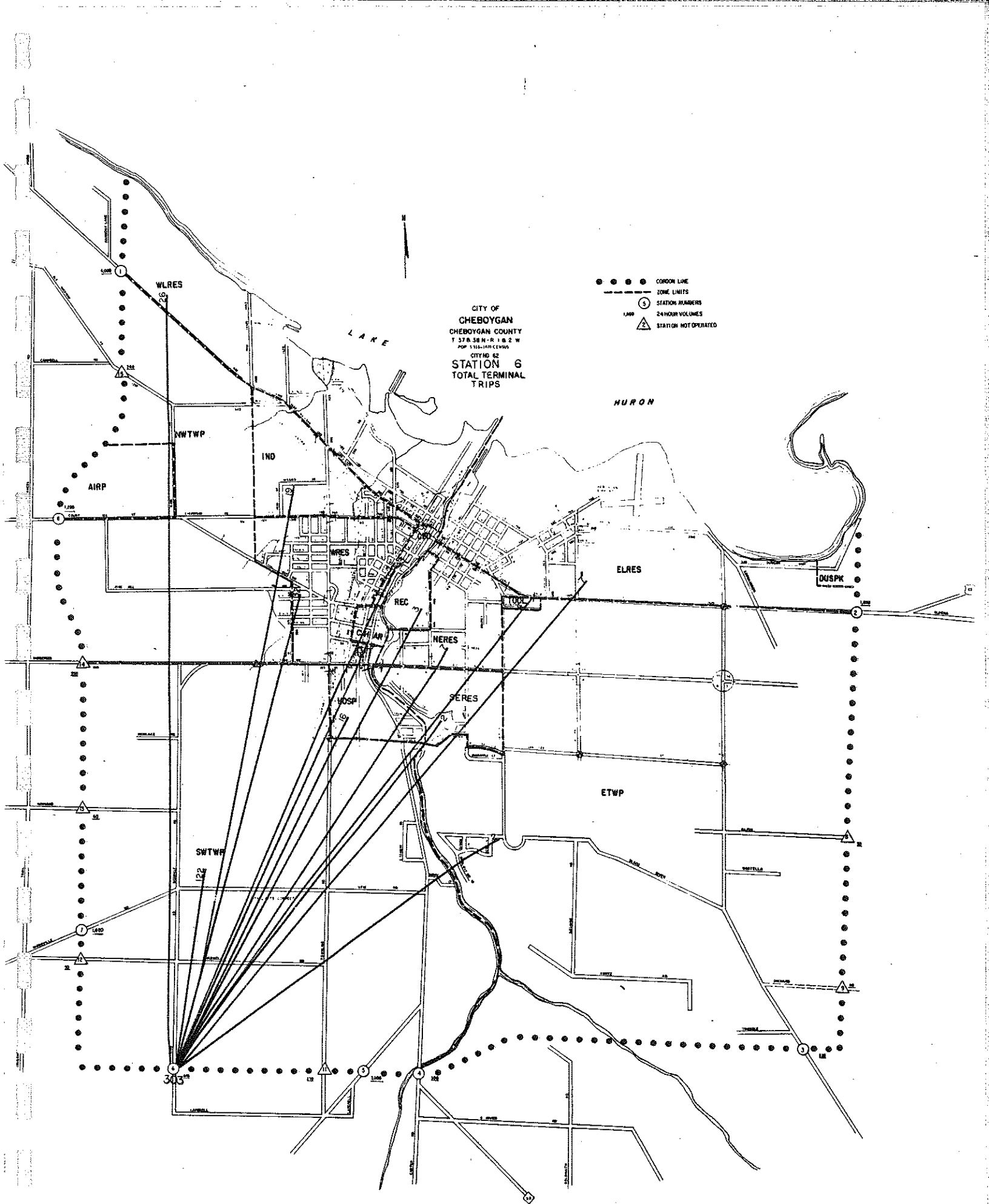


FIGURE 21

TABLE 28

STATION 6

WING ROAD  
S. OF RIGGSVILLE ROAD

THROUGH TRIPS TO ALL OTHER STATIONS

<u>Station</u>	<u>Trips</u>	<u>Percent of Total</u>
1	5	10.42
2	4	8.33
3	0	0
4	0	0
5	0	0
7	28	58.33
8	11	22.92
TOTAL	48	100.00

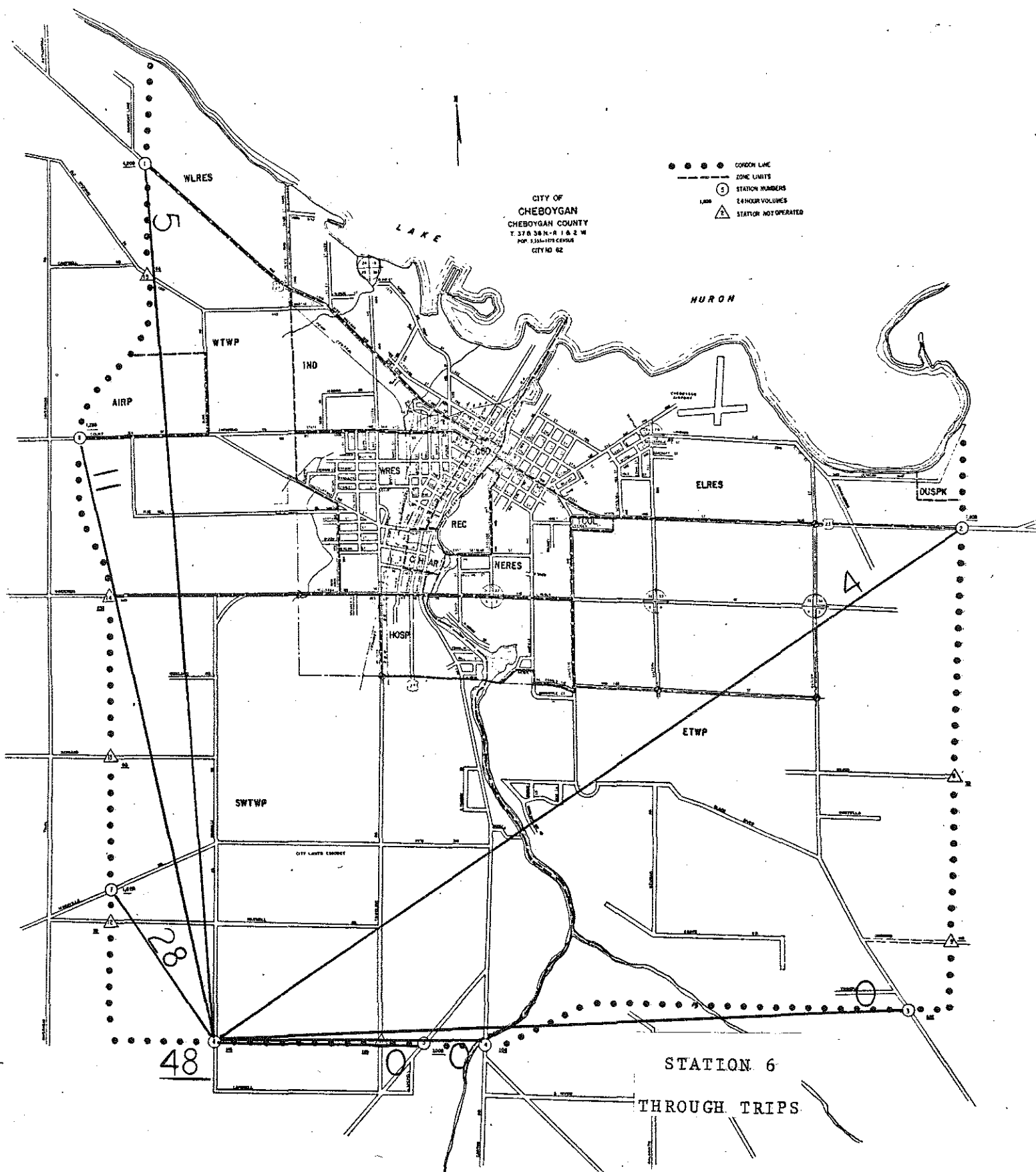


FIGURE 22

TABLE 29

STATION 6

WING ROAD  
S. OF RIGGSVILLE ROAD

TRIP LENGTHS

<u>Minutes</u>	<u>Trips</u>	<u>Percent of Total</u>
0 - 20	133	37.89
20 - 40	174	49.57
40 - 60	31	8.83
60 - 90	12	3.42
90 - 320	1	.29
TOTAL	351	100.0

Longest Trip Length = 5 Hours 20 Minutes

Average Trip Length = 36 Minutes

CHEBOYGAN  
 EXTERNAL ORIGIN DESTINATION SURVEY  
 STATION 6  
 WING ROAD S. OF RIGGSVILLE ROAD  
 DISTRIBUTION OF TRIP ENDS  
 BY COUNTY



Total Trip Ends = 702

Total Trips = 351

FIGURE 23

## STATION 7

Station 7 was located on Riggsville Road east of Inverness Road southwest of Cheboygan. Traffic at this location (1,121) constituted 5.86% of all station traffic. Vehicle trips were categorized as terminal or through with the former accounting for 84.39% and the latter 15.61%.

A breakdown of these trips by vehicle type and purpose is presented as Table 30. As can be seen 93.65% of all vehicle trips were made by passenger car or panel or pickup truck. The former constituted 78.01% and the latter 15.64%. In excess of 80% of all trips are for the purpose of work, shopping or other social recreation. Work was the largest category at 40.91%.

Of the 948 terminal trips more than 66.7% have an origin or destination in one of four internal zones. As can be seen in Table 31, the two primary shopping zones, zone 14 (CBD) and zone 23 (HOSP) contributed 18.67% and 18.24% respectively. The other two significant zones were zone 13 (WRES) at 13.19% and zone 22 (SWTWP) at 18.24%. Figure 24 displays the interchange of terminal trips by internal analysis zone.

Table 32 lists through trips at this station. Most trips (72.83%) either entered or left the study area via one of the state trunkline stations. US-23 stations collectively accounted for 30.06% of the through trips while Station 4 (M-33) and Station 5 (M-27) accounted for 34.1% and 17.34% respectively. Figure 25 illustrates the interchange by station of Station 7 through trips.

The average trip length at this station was 58 minutes with the longest trip at 6 hours 30 minutes. In addition to the above, Table 33 presents the lengths of all trips. More than 88.7% of all trips had a duration of 1 hour or less.

Shown in Figure 26 is the distribution of trip ends by county for all trips at this location. In excess of 78% of all ends are concentrated in Cheboygan County itself. When considered with trip ends in adjacent counties virtually all trip ends are accounted for (97.07%).

TABLE 30

## STATION 7

RIGGSVILLE ROAD  
E. OF INVERNESS ROAD

## TRIPS BY VEHICLE TYPE AND PURPOSE

<u>Vehicle Type</u>	<u>Vehicles</u>	<u>Percent of Total</u>	<u>Terminal Trips</u>	<u>%</u>	<u>Through</u>	<u>%</u>
Passenger Car	875	78.01	746	85.26	129	14.44
Passenger Car with Trailer	15	1.38	13	86.67	2	13.33
Panel or Pickup	175	15.64	142	81.14	33	18.86
Panel or Pickup with Trailer	7	.61	6	85.71	1	14.29
Other Single Unit Trucks	31	2.76	24	77.42	7	22.58
Combinations and Trucks with Trailers	18	1.60	15	83.33	3	16.67
TOTAL	1121	100.0	946	84.39	175	15.61

<u>Trip Purpose</u>	<u>Vehicles</u>	<u>Percent of Total</u>	<u>Terminal Trips</u>	<u>%</u>	<u>Through</u>	<u>%</u>
Work	459	40.91	386	84.10	73	15.90
Personal Business	90	8.00	80	88.89	10	11.11
Shopping	213	19.00	201	94.37	12	5.63
Vacation	24	2.14	16	66.67	8	33.33
Other Soc.-Rec.	230	20.56	176	76.52	54	23.48
All Other	105	9.39	87	82.86	18	17.14
TOTAL	1121	100.0	946	84.39	175	15.61



TABLE 31

## STATION 7

RIGGSVILLE ROAD  
E. OF INVERNESS ROADTERMINAL TRIPS

<u>Zone</u>	<u>Origin</u>	<u>Destination</u>	<u>Total</u>	<u>Percent of Total</u>
9	4	0	4	.42
10	9	12	21	2.22
11	39	42	81	8.54
12	13	18	31	3.27
13	70	55	125	13.19
14	96	81	177	18.67
15	29	13	42	4.43
16	1	0	1	.11
17	5	2	7	.74
18	2	4	6	.63
19	22	16	38	4.01
20	2	6	8	.84
21	29	37	66	6.96
22	83	75	158	16.67
23	86	87	173	18.24
24	4	6	10	1.06
TOTAL	494	454	948	100.0

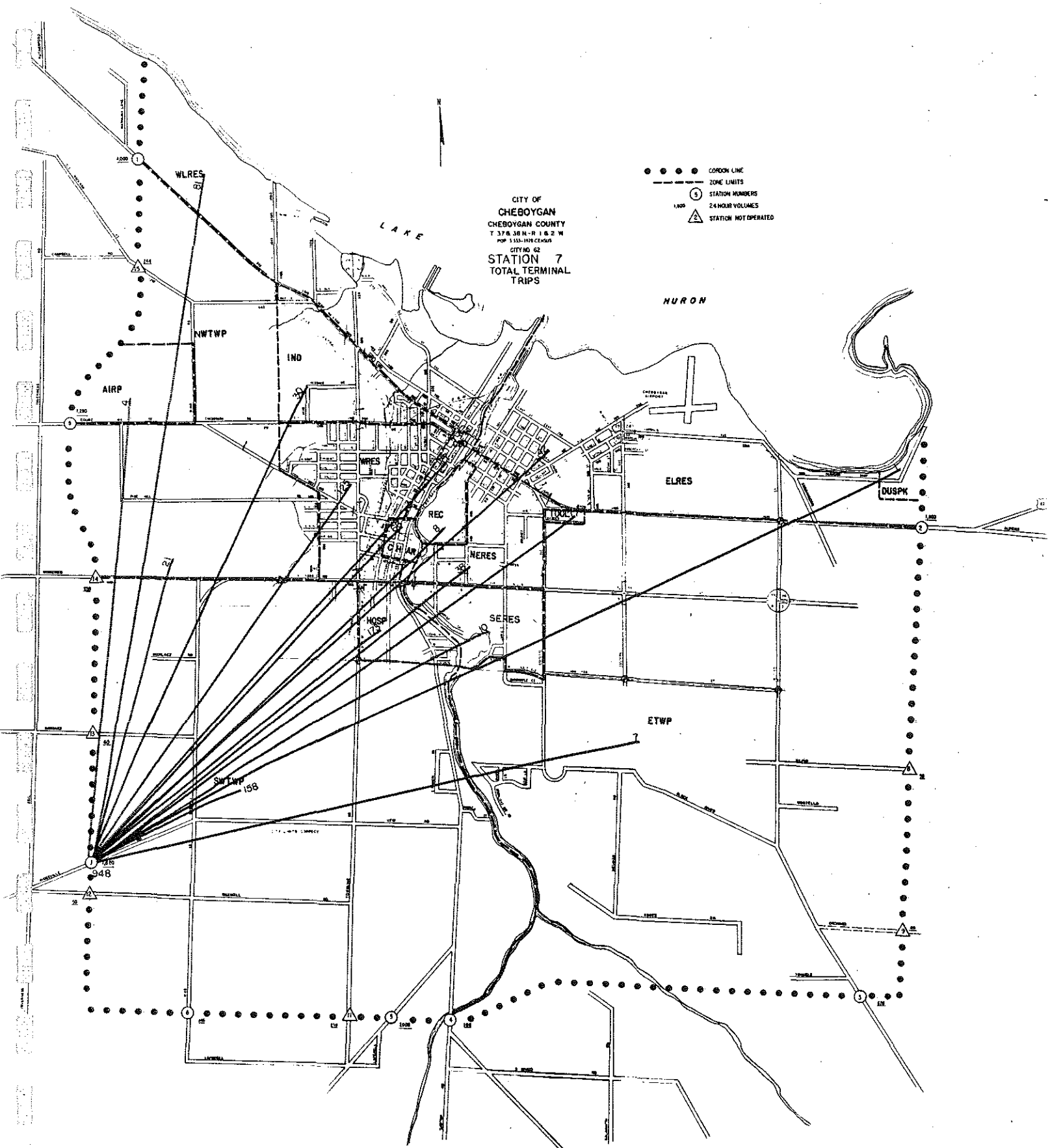


FIGURE 24

## TABLE 32

## STATION 7

RIGGSVILLE ROAD  
E. OF INVERNESS ROADTHROUGH TRIPS TO ALL OTHER STATIONS

<u>Station</u>	<u>Trips</u>	<u>Percent of Total</u>
1	20	11.56
2	32	18.50
3	11	6.36
4	59	34.10
5	30	17.34
6	15	8.67
8	6	3.47
TOTAL	178	100.00

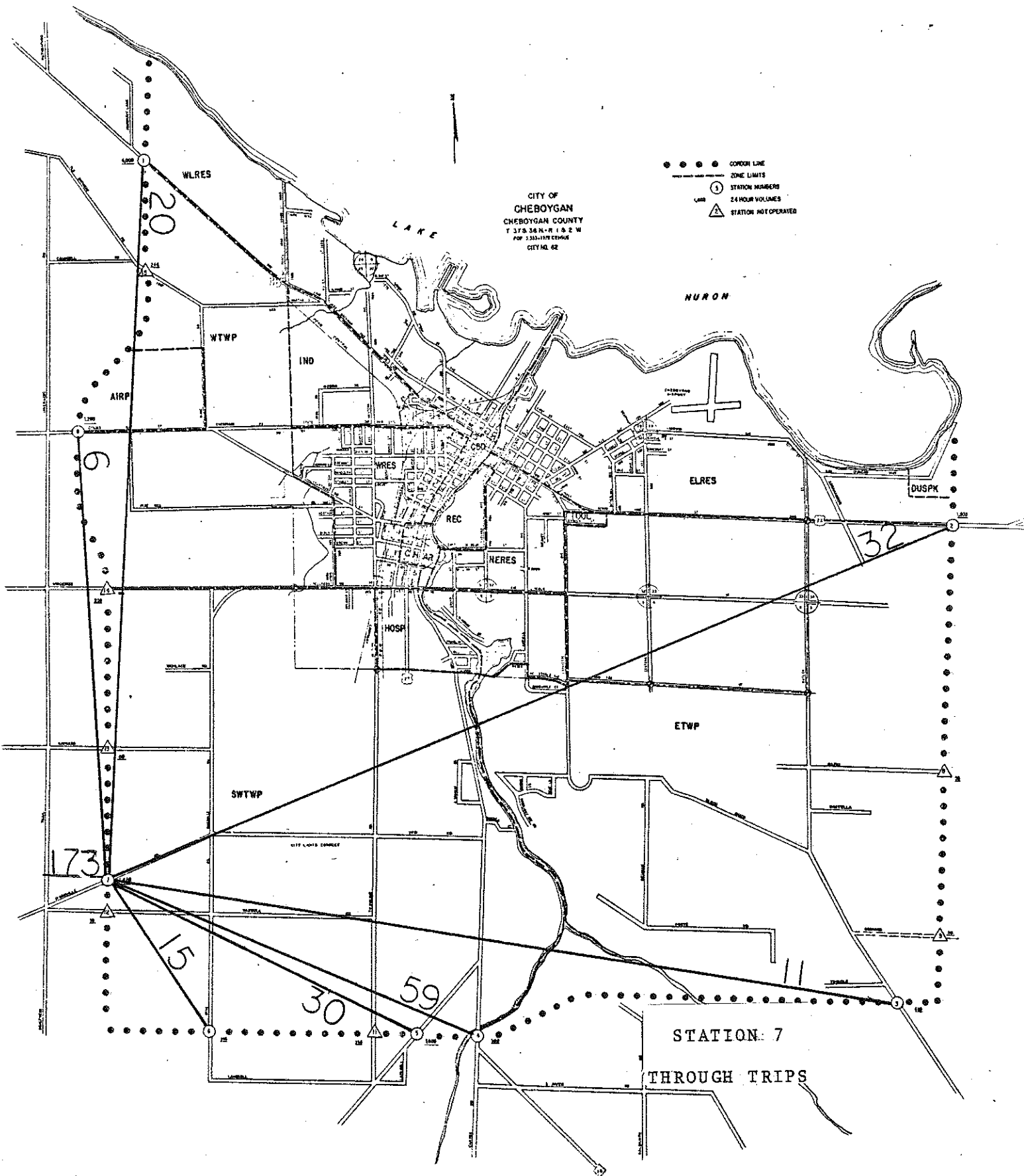


FIGURE 25

## TABLE 33

## STATION 7

RIGGSVILLE ROAD  
E. OF INVERNESS ROAD

## TRIP LENGTHS

<u>Minutes</u>	<u>Trips</u>	<u>Percent of Total</u>
0 - 20	148	13.36
20 - 40	442	39.89
40 - 60	393	35.47
60 - 90	60	5.42
90 - 390	65	5.86
TOTAL	1108	100.0

Longest Trip Length = 6 Hours 30 Minutes

Average Trip Length = 58 Minutes



## STATION 8

Station 8 was located on Court Street east of Inverness Road west of Cheboygan. Traffic volumes (1,436) represented 7.5% of all station traffic. More than 85.9% of all vehicle trips were terminal in nature with the remainder being through.

Virtually all trips were made by passenger car or panel or pickup truck (96.75%) with the former constituting 80.01% and the latter 16.74%. This along with other vehicle type breakdowns appears in Table 34. Also included are trip purposes. Work, shopping and other social recreation collectively constitute 83.39% of the total. Work accounted for 34.18%, shopping 29.97% and other social recreation 19.24%.

Table 35 lists terminal trips by internal zone. Four zones combined constituted 65.05% of all terminal trips. The primary shopping zones contributed 42.23% while zone 11 (WLRES) accounted for 10.28% and zone 13 (WRES) 12.54%. These interchanges by zone are illustrated in Figure 27.

The primary through trip interchanges occurred between the station and the four state trunkline stations. Table 36 lists Station 8 through trips and the stations of entrance or exit. As can be seen, the two US-23 stations (1 and 2) represent 33.5%. M-33 and M-27 contributed 32.5% and 25.5% respectively. These interchanges are graphically displayed in Figure 28.

As can be seen in Table 37, nearly 91% of all trips had a duration of one hour or less. The average trip length was 55 minutes and the longest trip was 12 hours.

Figure 29 displays the distribution of trip ends by county of all the trips that passed through Station 8. More than 81% had an origin and/or destination end within Cheboygan County. When considered collectively with the adjacent counties, virtually all trip ends (97.57%) are accounted for.



TABLE 34

## STATION 8

COURT  
E. OF INVERNESS ROAD

## TRIPS BY VEHICLE TYPE AND PURPOSE

<u>Vehicle Type</u>	<u>Vehicles</u>	<u>Percent of Total</u>	<u>Terminal Trips</u>	<u>%</u>	<u>Through</u>	<u>%</u>
Passenger Car	1149	80.01	991	86.25	158	13.75
Passenger Car with Trailer	8	.57	5	62.50	3	37.50
Panel or Pickup	240	16.74	201	83.75	39	16.25
Panel or Pickup with Trailer	13	.92	11	84.62	2	15.38
Other Single Unit Trucks	12	.80	12	100.0	0	0
Combinations and Trucks with Trailers	14	.96	14	100.0	0	0
TOTAL	1436	100.0	1234	85.93	202	14.07

<u>Trip Purpose</u>	<u>Vehicles</u>	<u>Percent of Total</u>	<u>Terminal Trips</u>	<u>%</u>	<u>Through</u>	<u>%</u>
Work	491	34.18	431	87.78	60	12.22
Personal Business	96	6.70	91	94.79	5	5.21
Shopping	430	29.97	404	93.95	26	6.05
Vacation	75	5.21	41	54.67	34	45.33
Other Soc.-Rec.	277	19.24	206	74.37	71	25.63
All Other	67	4.70	61	91.04	6	8.96
TOTAL	1436	100.0	1234	85.93	202	14.07

TABLE 35

## STATION 8

COURT  
E. OF INVERNESS ROADTERMINAL TRIPS

<u>Zone</u>	<u>Origin</u>	<u>Destination</u>	<u>Total</u>	<u>Percent of Total</u>
9	0	1	1	.08
10	18	17	35	2.83
11	68	59	127	10.28
12	32	29	61	4.94
13	80	75	155	12.54
14	131	159	290	23.46
15	22	24	46	3.72
16	0	1	1	.08
17	14	11	25	2.02
18	9	9	18	1.46
19	12	12	24	1.94
20	9	12	21	1.70
21	57	66	123	9.95
22	28	36	64	5.18
23	114	118	232	18.77
24	6	7	13	1.05
TOTAL	600	636	1236	100.0

CITY OF  
CHEBOYGAN  
CHEBOYGAN COUNTY  
T 37° 38' N - R 13° 2' W  
S 3334 - 4000 - 5000  
CITY NO 62  
STATION 8  
TOTAL TERMINAL  
TRIPS

- ● ● ● CORDON LINE
- - - - ZONE LIMITS
- ⑤ STATION NUMBERS
- 1,800 24 HOUR VOLUMES
- ▲ STATION NOT OPERATED

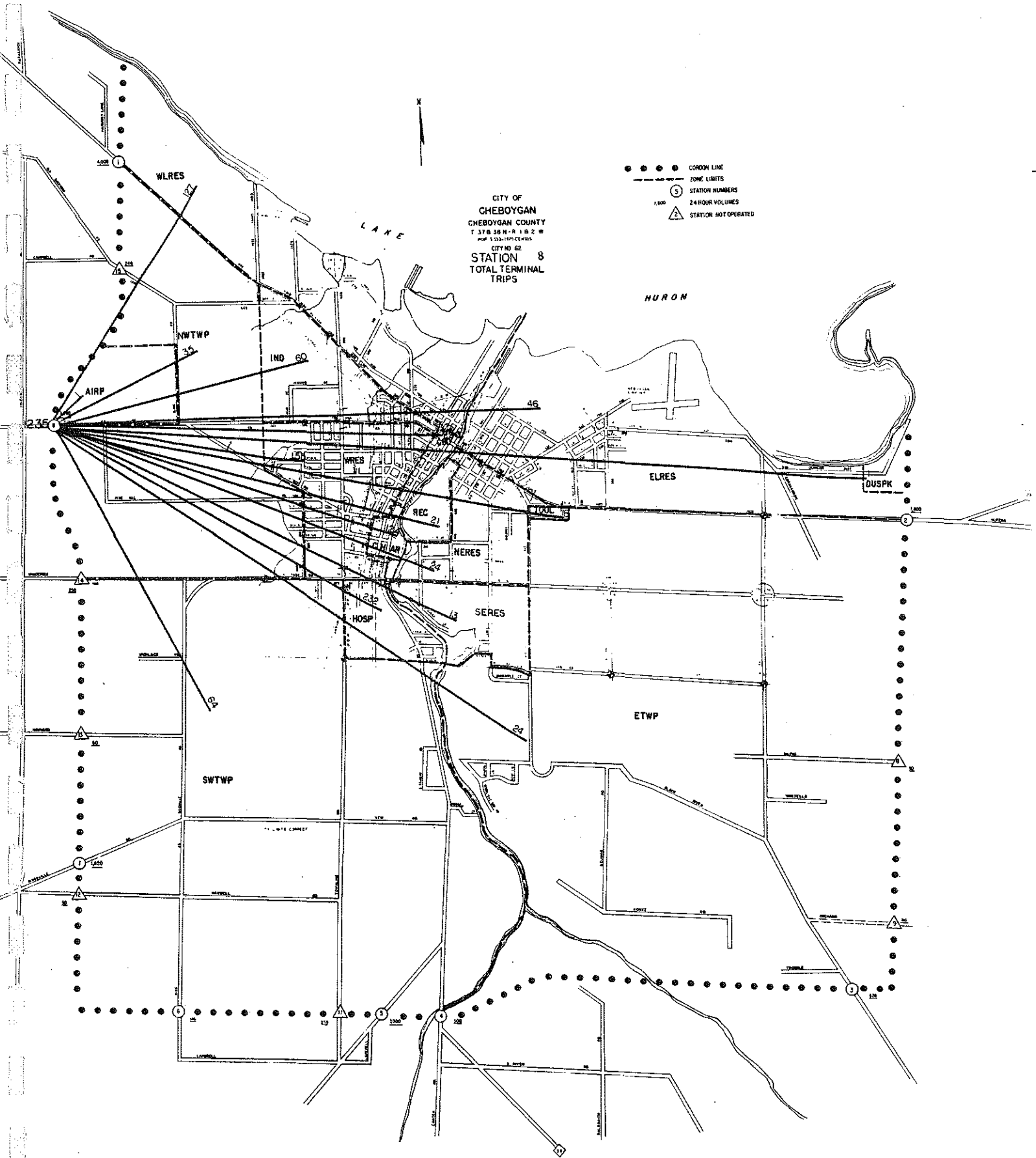


FIGURE 27

## TABLE 36

STATION 8

COURT  
E. OF INVERNESS ROADTHROUGH TRIPS TO ALL OTHER STATIONS

<u>Station</u>	<u>Trips</u>	<u>Percent of Total</u>
1	24	12.00
2	43	21.50
3	13	6.50
4	65	32.50
5	51	25.50
6	1	.50
7	3	1.50
TOTAL	200	100.00

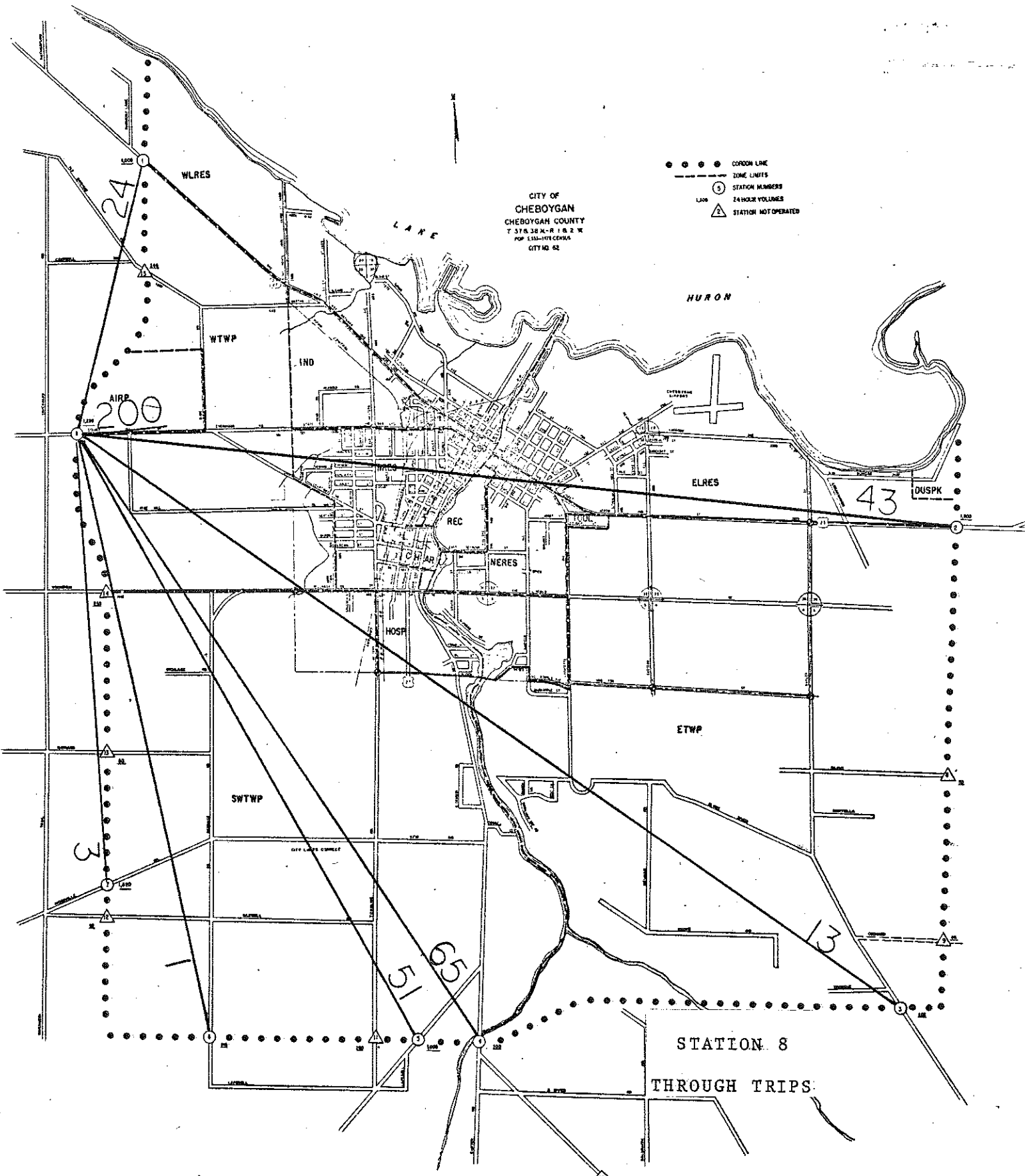


FIGURE 28

TABLE 37

STATION 8

COURT  
E. OF INVERNESS ROAD

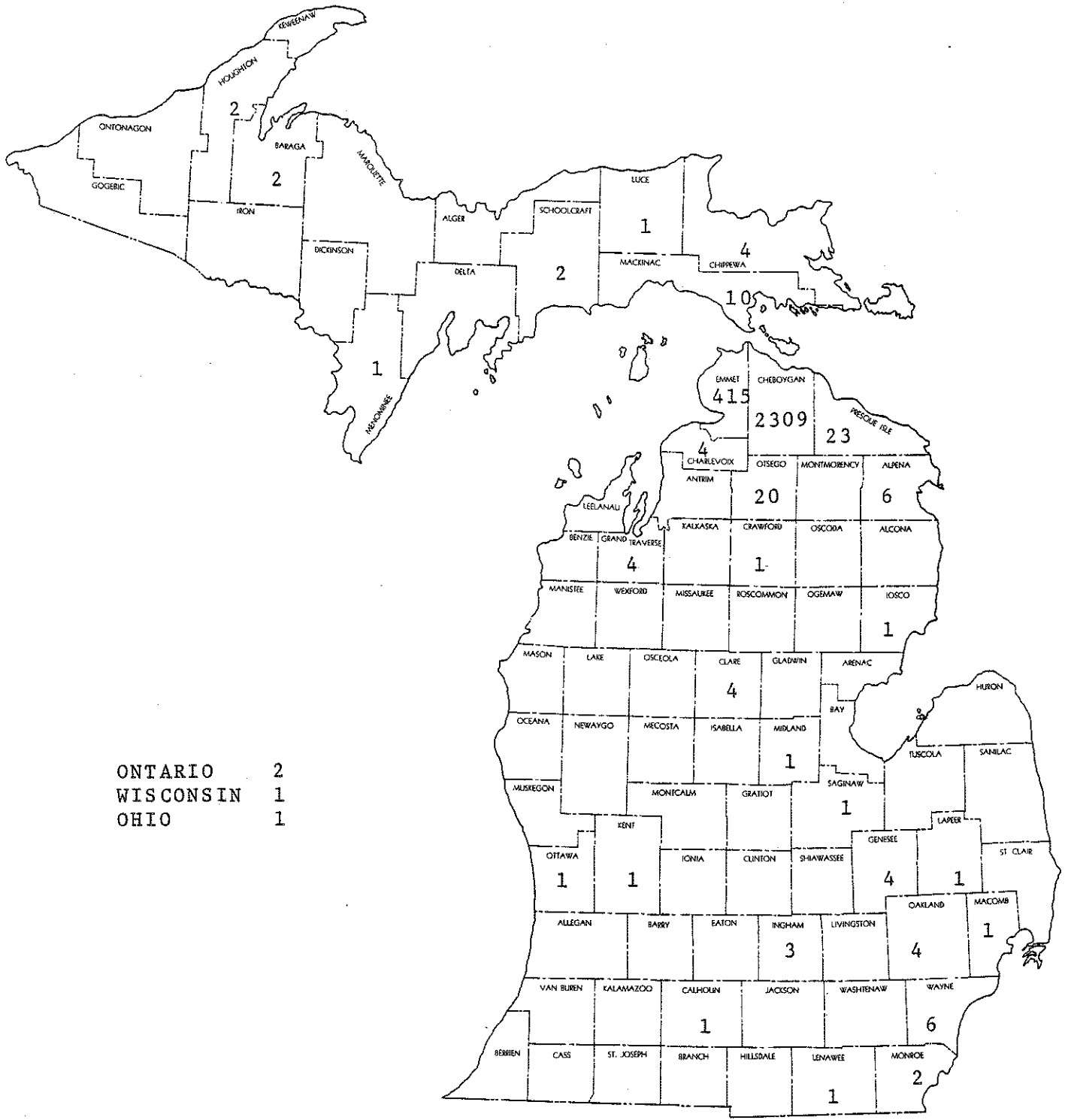
TRIP LENGTHS

<u>Minutes</u>	<u>Trips</u>	<u>Percent of Total</u>
0 - 20	119	8.38
20 - 40	699	49.23
40 - 60	469	33.03
60 - 90	62	4.37
90 - 720	71	4.99
TOTAL	1420	100.0

Longest Trip Length = 12 Hours

Average Trip Length = 55 Minutes

CHEBOYGAN  
EXTERNAL ORIGIN DESTINATION SURVEY  
STATION 8  
COURT STREET E. OF INVERNESS ROAD  
DISTRIBUTION OF TRIP ENDS  
BY COUNTY



Total Trip Ends = 2840  
Total Trips = 1420

FIGURE 29

APPENDIX A



USE OF TABLES AND CHARTS

## USE OF GENERAL PURPOSE SUMMARY TABLES

The table on page        shows the distribution of trips passing through the station by vehicle type and trip purpose.

The vehicle type codes are:

- 1 = Passenger car without trailer
- 2 = Passenger car with trailer
- 3 = Panel or pickup truck without trailer
- 4 = Panel or pickup with trailer
- 5 = Other (larger) single unit trucks
- 6 = Truck combinations
- 7 = Busses
- 8 = Motorcycles

The trip purpose codes are:

- 1 = Work
- 2 = Personal business
- 3 = Shopping
- 4 = Vacation
- 5 = Other social recreation
- 6 = All other

The sample cell outlined represents 1968.70 trips which were shopping (3) trips made by passenger cars (1). This first figure in each cell will always be the raw number of trips. The second figure indicates that 94.76 percent of the trips with trip purpose 3 were passenger cars. The third figure indicates that 18.51 percent of the trips made by type 1 vehicles were shopping trips.

The last figure in the cell indicates that 15.91 percent of all trips in the table are of this type (i.e. vehicle type = 1 and trip purpose = 3). The row total at the right shows that 2077.51 trips, or 16.79 percent were shopping trips. The column total at the bottom shows that 10634.44 trips, or 85.96 percent were passenger cars. The total number of trips (12371.82) in this table is indicated at the lower right. There will be a table for each station.

VEHICLE TYPE

RANGES	1	2	3	4	5	6	7	8	TOTAL TOT %
1	5191.75	10.58	951.34	7.95	254.01	227.94	0.00	2.01	6645.58
1	75.12	0.16	14.32	0.12	3.82	3.43	0.00	0.03	53.72
	48.82	38.87	80.12	80.47	92.04	97.06	0.00	100.00	
	41.98	0.09	7.69	0.06	2.05	1.84	0.00	0.02	
2	834.71	2.84	59.93	1.93	3.45	0.00	0.00	0.00	902.80
2	92.45	0.31	6.64	0.21	0.38	0.00	0.00	0.00	7.30
	7.85	10.43	5.05	19.53	1.25	0.00	0.00	0.00	
	6.75	0.02	0.48	0.02	0.03	0.00	0.00	0.00	
TRIPS	1968.70	10.03	85.91	0.00	12.87	0.00	0.00	0.00	2077.51
COLUMNS	94.76	0.48	4.14	0.00	0.62	0.00	0.00	0.00	16.79
ROW %	18.51	36.85	7.23	0.00	4.66	0.00	0.00	0.00	
TOTAL %	15.91	0.08	0.69	0.00	0.10	0.00	0.00	0.00	
4	6.25	0.00	2.01	0.00	0.00	0.00	0.00	0.00	8.26
4	75.67	0.00	24.33	0.00	0.00	0.00	0.00	0.00	0.07
	0.05	0.00	0.17	0.00	0.00	0.00	0.00	0.00	
	0.05	0.00	0.02	0.00	0.00	0.00	0.00	0.00	
5	836.02	1.25	42.32	0.00	3.15	0.00	0.00	0.00	882.74
5	94.71	0.14	4.79	0.00	0.36	0.00	0.00	0.00	7.14
	7.86	4.59	3.56	0.00	1.14	0.00	0.00	0.00	
	6.76	0.01	0.34	0.00	0.03	0.00	0.00	0.00	
6	1797.01	2.52	45.92	0.00	2.51	6.91	0.00	0.00	1854.87
6	96.88	0.14	2.48	0.00	0.14	0.37	0.00	0.00	14.99
	16.90	9.26	3.87	0.00	0.91	2.94	0.00	0.00	
	14.53	0.02	0.37	0.00	0.02	0.06	0.00	0.00	

ROW TOTALS

TOTAL TOT %  
 10634.44  
 85.98  
 COLUMN TOTALS

27.22 1187.43 9.88 275.99 234.85 0.00 2.01  
 0.22 9.60 0.08 2.23 1.90 0.00 0.02

12371.82  
 TOTAL TRIPS

STATION NUMBER # 1

EXIT-ENT STATION # 01 TO 08

## VEHICLE TYPE

RANGES	1	2	3	4	5	6	7	8	TOTAL TOT X
	1	2	3	4	5	6	7	8	
T	127.75	0.00	31.19	0.00	25.33	24.20	0.00	0.00	208.47
	61.28	0.00	14.96	0.00	12.15	11.61	0.00	0.00	11.31
	8.51	0.00	38.94	0.00	33.70	70.99	0.00	0.00	
	6.93	0.00	1.69	0.00	1.37	1.31	0.00	0.00	
R	9.97	1.28	3.05	0.00	1.48	0.00	0.00	0.00	15.78
	63.18	8.11	19.33	0.00	9.38	0.00	0.00	0.00	0.86
I	0.66	0.96	3.81	0.00	1.97	0.00	0.00	0.00	
	0.54	0.07	0.17	0.00	0.08	0.00	0.00	0.00	
P	14.06	0.00	1.20	0.00	0.00	0.00	0.00	0.00	15.26
	92.14	0.00	7.86	0.00	0.00	0.00	0.00	0.00	0.83
	0.94	0.00	1.50	0.00	0.00	0.00	0.00	0.00	
	0.76	0.00	0.07	0.00	0.00	0.00	0.00	0.00	
U	811.96	124.17	30.71	17.21	48.35	9.89	0.00	0.00	1042.29
	77.90	11.91	2.95	1.05	4.64	0.95	0.00	0.00	56.57
R	54.09	92.83	38.34	93.04	64.33	29.01	0.00	0.00	
	44.07	6.74	1.67	0.93	2.62	0.54	0.00	0.00	
P	489.01	7.03	13.94	1.13	0.00	0.00	0.00	0.00	511.11
	95.68	1.38	2.73	0.22	0.00	0.00	0.00	0.00	27.74
	32.58	5.26	17.41	6.16	0.00	0.00	0.00	0.00	
S	26.54	0.38	0.76	0.06	0.00	0.00	0.00	0.00	
E	48.37	1.28	0.00	0.00	0.00	0.00	0.00	0.00	49.65
	97.42	2.58	0.00	0.00	0.00	0.00	0.00	0.00	2.69
	3.22	0.96	0.00	0.00	0.00	0.00	0.00	0.00	
	2.63	0.07	0.00	0.00	0.00	0.00	0.00	0.00	
-----									
TOTAL	1501.12	133.76	80.09	18.34	75.16	34.09	0.00	0.00	1842.56
TOT X	81.47	7.26	4.35	1.00	4.08	1.85	0.00	0.00	

STATION 1  
THROUGH TRIPS

STATION NUMBER = 1

EXIT-ENT STATION = TO

VEHICLE TYPE

RANGES	1	2	3	4	5	6	7	8	TOTAL TOT X
	1	2	3	4	5	6	7	8	
1	508.50	1.62	118.57	0.00	46.33	46.29	0.00	0.00	721.31
1	70.50	0.22	16.44	0.00	6.42	6.42	0.00	0.00	33.84
	28.19	8.93	60.54	0.00	70.84	100.00	0.00	0.00	
T	23.86	0.08	5.56	0.00	2.17	2.17	0.00	0.00	
R	95.46	0.00	13.52	0.00	1.48	0.00	0.00	0.00	110.46
2	86.42	0.00	12.24	0.00	1.34	0.00	0.00	0.00	5.18
I	5.29	0.00	6.90	0.00	2.26	0.00	0.00	0.00	
	4.48	0.00	0.63	0.00	0.07	0.00	0.00	0.00	
P	528.50	3.77	33.06	1.20	7.73	0.00	0.00	0.00	574.26
3	92.03	0.66	5.76	0.21	1.35	0.00	0.00	0.00	26.94
	29.30	20.77	16.88	51.95	11.82	0.00	0.00	0.00	
P	24.79	0.18	1.55	0.06	0.36	0.00	0.00	0.00	
U	142.93	5.02	2.53	1.11	6.41	0.00	0.00	0.00	158.00
4	90.46	3.18	1.60	0.70	4.06	0.00	0.00	0.00	7.41
R	7.92	27.66	1.29	48.05	9.80	0.00	0.00	0.00	
	6.71	0.24	0.12	0.05	0.30	0.00	0.00	0.00	
P	366.81	3.60	20.96	0.00	3.45	0.00	0.00	0.00	394.82
5	92.91	0.91	5.31	0.00	0.87	0.00	0.00	0.00	18.52
O	20.34	19.83	10.70	0.00	5.28	0.00	0.00	0.00	
	17.21	0.17	0.98	0.00	0.16	0.00	0.00	0.00	
S	161.37	4.14	7.21	0.00	0.00	0.00	0.00	0.00	172.72
6	93.43	2.40	4.17	0.00	0.00	0.00	0.00	0.00	8.10
E	8.95	22.81	3.68	0.00	0.00	0.00	0.00	0.00	
	7.57	0.19	0.34	0.00	0.00	0.00	0.00	0.00	
<hr/>									
TOTAL	1803.57	18.15	195.85	2.31	65.40	46.29	0.00	0.00	2131.57
TOT X	84.61	0.85	9.19	0.11	3.07	2.17	0.00	0.00	

STATION 1  
TERMINAL TRIPS

STATION NUMBER = 1  
EXIT-ENT STATION = 01 TO

VEHICLE TYPE

RANGES	1	2	3	4	5	6	7	8	TOTAL TOT %
	1	2	3	4	5	6	7	8	
1	636.25	1.62	149.76	0.00	71.66	70.49	0.00	0.00	929.78
1	68.43	0.17	16.11	0.00	7.71	7.58	0.00	0.00	23.40
	19.25	1.07	54.27	0.00	50.98	87.70	0.00	0.00	
T	16.01	0.04	3.77	0.00	1.80	1.77	0.00	0.00	
R	105.43	1.28	16.57	0.00	2.96	0.00	0.00	0.00	126.24
2	83.52	1.01	13.13	0.00	2.34	0.00	0.00	0.00	3.18
I	3.19	0.84	6.00	0.00	2.11	0.00	0.00	0.00	
P	2.65	0.03	0.42	0.00	0.07	0.00	0.00	0.00	
3	542.56	3.77	34.26	1.20	7.73	0.00	0.00	0.00	589.52
3	92.03	0.64	5.81	0.20	1.31	0.00	0.00	0.00	14.83
P	16.42	2.48	12.42	5.81	5.50	0.00	0.00	0.00	
P	13.65	0.09	0.86	0.03	0.19	0.00	0.00	0.00	
U	954.89	129.19	33.24	18.32	54.76	9.89	0.00	0.00	1200.29
4	79.55	10.76	2.77	1.53	4.56	0.82	0.00	0.00	30.20
R	28.89	85.04	12.05	88.72	38.96	12.30	0.00	0.00	
P	24.03	3.25	0.84	0.46	1.38	0.25	0.00	0.00	
5	855.82	10.63	34.90	1.13	3.45	0.00	0.00	0.00	905.93
5	94.47	1.17	3.85	0.12	0.38	0.00	0.00	0.00	22.80
S	25.90	7.00	12.65	5.47	2.45	0.00	0.00	0.00	
S	21.53	0.27	0.88	0.03	0.09	0.00	0.00	0.00	
E	209.74	5.42	7.21	0.00	0.00	0.00	0.00	0.00	222.37
6	94.32	2.44	3.24	0.00	0.00	0.00	0.00	0.00	5.60
	6.35	3.57	2.61	0.00	0.00	0.00	0.00	0.00	
	5.28	0.14	0.18	0.00	0.00	0.00	0.00	0.00	
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TOTAL	3304.69	151.91	275.94	20.65	140.56	80.38	0.00	0.00	3974.13
TOT %	83.16	3.82	6.94	0.52	3.54	2.02	0.00	0.00	

STATION 1  
TOTAL TRIPS

STATION NUMBER = 2

EXIT-ENT STATION = 01 TO 08

## VEHICLE TYPE

RANGES	1	2	3	4	5	6	7	8	TOTAL TOT X	
	1	2	3	4	5	6	7	8		
T	1	92.13	0.00	53.18	0.00	15.14	24.96	0.00	0.00	185.41
	1	49.69	0.00	28.68	0.00	8.17	13.46	0.00	0.00	14.35
		9.36	0.00	55.35	0.00	24.94	62.20	0.00	0.00	
		7.13	0.00	4.12	0.00	1.17	1.93	0.00	0.00	
R	2	20.95	1.85	4.36	0.00	0.00	1.09	0.00	0.00	28.25
I	2	74.16	6.55	15.43	0.00	0.00	3.86	0.00	0.00	2.19
		2.13	1.92	4.54	0.00	0.00	2.72	0.00	0.00	
P		1.62	0.14	0.34	0.00	0.00	0.08	0.00	0.00	
	3	14.06	0.00	1.24	0.00	0.00	0.00	0.00	0.00	15.30
	3	91.90	0.00	8.10	0.00	0.00	0.00	0.00	0.00	1.16
		1.43	0.00	1.29	0.00	0.00	0.00	0.00	0.00	
P		1.09	0.00	0.10	0.00	0.00	0.00	0.00	0.00	
U	4	558.77	91.23	25.42	14.12	42.32	11.91	0.00	0.00	743.77
R	4	75.13	12.27	3.42	1.90	5.69	1.60	0.00	0.00	57.57
		56.76	94.60	26.46	100.00	69.71	29.68	0.00	0.00	
P		43.25	7.06	1.97	1.09	3.28	0.92	0.00	0.00	
	5	279.99	3.36	10.50	0.00	2.16	2.17	0.00	0.00	298.18
D	5	93.90	1.13	3.52	0.00	0.72	0.73	0.00	0.00	23.08
		28.44	3.48	10.93	0.00	3.56	5.41	0.00	0.00	
S		21.67	0.26	0.81	0.00	0.17	0.17	0.00	0.00	
E	6	18.52	0.00	1.38	0.00	1.09	0.00	0.00	0.00	20.99
	6	88.23	0.00	6.57	0.00	5.19	0.00	0.00	0.00	1.62
		1.88	0.00	1.44	0.00	1.80	0.00	0.00	0.00	
		1.43	0.00	0.11	0.00	0.08	0.00	0.00	0.00	
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TOTAL		984.42	96.44	96.08	14.12	60.71	40.13	0.00	0.00	1291.90
TOT X		76.20	7.46	7.44	1.09	4.70	3.11	0.00	0.00	

STATION 2  
THROUGH TRIPS



STATION NUMBER = 2  
 EXIT-ENI STATION = TO  
 VEHICLE TYPE

RANGES	1 1	2 2	3 3	4 4	5 5	6 6	7 7	8 8	TOTAL TOT %	
T	1	230.70	0.00	91.57	2.47	39.06	8.69	0.00	0.00	372.49
	1	61.93	0.00	24.58	0.66	10.49	2.33	0.00	0.00	33.76
		26.54	0.00	54.68	47.23	94.74	100.00	0.00	0.00	
		20.91	0.00	8.30	0.22	3.54	0.79	0.00	0.00	
R	2	56.95	0.00	13.51	0.00	0.00	0.00	0.00	0.00	70.46
	2	80.83	0.00	19.17	0.00	0.00	0.00	0.00	0.00	6.39
I		6.55	0.00	8.07	0.00	0.00	0.00	0.00	0.00	
P		5.16	0.00	1.22	0.00	0.00	0.00	0.00	0.00	
	3	234.62	4.76	25.19	1.41	1.09	0.00	0.00	0.00	267.07
	3	87.85	1.78	9.43	0.53	0.41	0.00	0.00	0.00	24.21
P		26.99	41.86	15.04	26.96	2.64	0.00	0.00	0.00	
		21.27	0.43	2.28	0.13	0.10	0.00	0.00	0.00	
U	4	60.25	4.08	1.41	1.35	0.00	0.00	0.00	0.00	67.09
	4	89.80	6.08	2.10	2.01	0.00	0.00	0.00	0.00	6.08
R		6.93	35.88	0.84	25.81	0.00	0.00	0.00	0.00	
P		5.46	0.37	0.13	0.12	0.00	0.00	0.00	0.00	
	5	234.44	2.53	26.61	0.00	1.08	0.00	0.00	0.00	264.66
O	5	88.58	0.96	10.05	0.00	0.41	0.00	0.00	0.00	23.99
		26.97	22.25	15.89	0.00	2.62	0.00	0.00	0.00	
S		21.25	0.23	2.41	0.00	0.10	0.00	0.00	0.00	
E	6	52.27	0.00	9.18	0.00	0.00	0.00	0.00	0.00	61.45
	6	85.06	0.00	14.94	0.00	0.00	0.00	0.00	0.00	5.57
		6.01	0.00	5.48	0.00	0.00	0.00	0.00	0.00	
		4.74	0.00	0.83	0.00	0.00	0.00	0.00	0.00	
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TOTAL	869.23	11.37	167.47	5.23	41.23	8.69	0.00	0.00	1103.22	
TOT %	78.79	1.03	15.18	0.47	3.74	0.79	0.00	0.00		

STATION 2  
 TERMINAL TRIPS

STATION NUMBER = 2

EXIT-ENI STATION = 01 TO

VEHICLE TYPE

RANGES	1	2	3	4	5	6	7	8	TOTAL TOT %	
	1	2	3	4	5	6	7	8		
T	1	322.83	0.00	144.75	2.47	54.20	33.65	0.00	0.00	557.90
	1	57.87	0.00	25.95	0.44	9.72	6.03	0.00	0.00	23.29
		17.42	0.00	54.92	12.76	53.17	68.93	0.00	0.00	
		13.48	0.00	6.04	0.10	2.26	1.40	0.00	0.00	
R	2	77.90	1.85	17.87	0.00	0.00	1.09	0.00	0.00	98.71
	2	78.92	1.87	18.10	0.00	0.00	1.10	0.00	0.00	4.12
I		4.20	1.72	6.78	0.00	0.00	2.23	0.00	0.00	
		3.25	0.08	0.75	0.00	0.00	0.05	0.00	0.00	
P	3	248.68	4.76	26.43	1.41	1.09	0.00	0.00	0.00	282.37
	3	88.07	1.69	9.36	0.50	0.39	0.00	0.00	0.00	11.79
		13.42	4.42	10.03	7.29	1.07	0.00	0.00	0.00	
P		10.38	0.20	1.10	0.06	0.05	0.00	0.00	0.00	
U	4	619.02	95.31	26.83	15.47	42.32	11.91	0.00	0.00	810.86
	4	76.34	11.75	3.31	1.91	5.22	1.47	0.00	0.00	33.85
R		33.39	88.41	10.18	79.95	41.51	24.40	0.00	0.00	
P		25.85	3.98	1.12	0.65	1.77	0.50	0.00	0.00	
O	5	514.43	5.89	37.11	0.00	3.24	2.17	0.00	0.00	562.84
	5	91.40	1.05	6.59	0.00	0.58	0.39	0.00	0.00	23.50
		27.75	5.46	14.08	0.00	3.18	4.44	0.00	0.00	
S		21.48	0.25	1.55	0.00	0.14	0.09	0.00	0.00	
E	6	70.79	0.00	10.56	0.00	1.09	0.00	0.00	0.00	82.44
	6	85.87	0.00	12.81	0.00	1.32	0.00	0.00	0.00	3.44
		3.82	0.00	4.01	0.00	1.07	0.00	0.00	0.00	
		2.96	0.00	0.44	0.00	0.05	0.00	0.00	0.00	
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TOTAL	1853.65	107.81	263.55	19.35	101.94	48.82	0.00	0.00	2395.12	
TOT %	77.39	4.50	11.00	0.81	4.26	2.04	0.00	0.00		

STATION 2  
TOTAL TRIPS

STATION NUMBER = 3  
 EXIT-ENT STATION = 01 TO 08

VEHICLE TYPE

RANGES	1	2	3	4	5	6	7	8	TOTAL TOT X
	1	2	3	4	5	6	7	8	
	6.07	0.00	8.07	1.14	0.00	3.00	0.00	0.00	18.28
	33.21	0.00	44.15	6.24	0.00	16.41	0.00	0.00	24.96
	11.65	0.00	69.75	51.82	0.00	100.00	0.00	0.00	
T	8.29	0.00	11.02	1.56	0.00	4.10	0.00	0.00	
R	0.00	0.00	1.14	0.00	0.00	0.00	0.00	0.00	1.14
	0.00	0.00	100.00	0.00	0.00	0.00	0.00	0.00	1.56
I	0.00	0.00	9.85	0.00	0.00	0.00	0.00	0.00	
P	0.00	0.00	1.56	0.00	0.00	0.00	0.00	0.00	
	3.79	0.00	0.00	1.06	0.00	0.00	0.00	0.00	4.85
	78.14	0.00	0.00	21.86	0.00	0.00	0.00	0.00	6.62
	7.27	0.00	0.00	48.18	0.00	0.00	0.00	0.00	
P	5.17	0.00	0.00	1.45	0.00	0.00	0.00	0.00	
U	13.30	1.14	0.00	0.00	1.00	0.00	0.00	0.00	15.44
	86.14	7.38	0.00	0.00	6.48	0.00	0.00	0.00	21.08
R	25.52	33.93	0.00	0.00	100.00	0.00	0.00	0.00	
P	18.16	1.56	0.00	0.00	1.37	0.00	0.00	0.00	
	27.46	2.22	2.36	0.00	0.00	0.00	0.00	0.00	32.04
O	65.71	6.93	7.37	0.00	0.00	0.00	0.00	0.00	43.74
	52.69	66.07	20.40	0.00	0.00	0.00	0.00	0.00	
S	37.49	3.03	3.22	0.00	0.00	0.00	0.00	0.00	
E	1.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.50
	100.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	2.05
	2.88	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
	2.05	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
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TOTAL	52.12	3.36	11.57	2.20	1.00	3.00	0.00	0.00	73.25
TOT X	71.15	4.59	15.80	3.00	1.37	4.10	0.00	0.00	

STATION 3  
 THROUGH TRIPS

STATION NUMBER 3

EXIT-ENI STATION TO

VEHICLE TYPE

RANGES	1	2	3	4	5	6	7	8	TOTAL TOT %
	1	2	3	4	5	6	7	8	
	117.88	0.00	65.30	4.49	8.00	2.00	0.00	0.00	197.67
	59.63	0.00	33.03	2.27	4.05	1.01	0.00	0.00	38.04
	30.65	0.00	57.66	67.93	100.00	100.00	0.00	0.00	
T	22.68	0.00	12.57	0.86	1.54	0.38	0.00	0.00	
	39.49	0.00	1.14	0.00	0.00	0.00	0.00	0.00	40.63
R	97.19	0.00	2.81	0.00	0.00	0.00	0.00	0.00	7.82
	10.27	0.00	1.01	0.00	0.00	0.00	0.00	0.00	
I	7.60	0.00	0.22	0.00	0.00	0.00	0.00	0.00	
P	106.50	1.90	24.96	1.06	0.00	0.00	0.00	0.00	134.42
	79.23	1.41	18.57	0.79	0.00	0.00	0.00	0.00	25.87
	27.69	36.82	22.04	16.04	0.00	0.00	0.00	0.00	
P	20.49	0.37	4.80	0.20	0.00	0.00	0.00	0.00	
	4.95	1.06	0.00	1.06	0.00	0.00	0.00	0.00	7.07
U	70.01	14.99	0.00	14.99	0.00	0.00	0.00	0.00	1.36
	1.29	20.54	0.00	16.04	0.00	0.00	0.00	0.00	
R	0.95	0.20	0.00	0.20	0.00	0.00	0.00	0.00	
P	97.34	2.20	14.49	0.00	0.00	0.00	0.00	0.00	114.03
	85.36	1.93	12.71	0.00	0.00	0.00	0.00	0.00	21.94
D	25.31	42.64	12.79	0.00	0.00	0.00	0.00	0.00	
S	18.73	0.42	2.79	0.00	0.00	0.00	0.00	0.00	
	18.48	0.00	7.36	0.00	0.00	0.00	0.00	0.00	25.84
E	71.52	0.00	28.48	0.00	0.00	0.00	0.00	0.00	4.97
	4.80	0.00	6.50	0.00	0.00	0.00	0.00	0.00	
	3.56	0.00	1.42	0.00	0.00	0.00	0.00	0.00	
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TOTAL	384.64	5.16	113.25	6.61	8.00	2.00	0.00	0.00	519.66
TOT %	74.02	0.99	21.79	1.27	1.54	0.38	0.00	0.00	

STATION 3  
TERMINAL TRIPS

STATION NUMBER \* 3

EXIT-ENT STATION \* 01 TO

## VEHICLE TYPE

RANGES	1	2	3	4	5	6	7	8	TOTAL TOT %
	1	2	3	4	5	6	7	8	
1	123.95	0.00	73.37	5.63	8.00	5.00	0.00	0.00	215.95
1	57.40	0.00	33.98	2.61	3.70	2.32	0.00	0.00	36.42
T	28.38	0.00	58.78	63.90	88.89	100.00	0.00	0.00	
	20.91	0.00	12.37	0.95	1.35	0.84	0.00	0.00	
R	39.49	0.00	2.28	0.00	0.00	0.00	0.00	0.00	41.77
2	94.54	0.00	5.46	0.00	0.00	0.00	0.00	0.00	7.04
I	9.04	0.00	1.83	0.00	0.00	0.00	0.00	0.00	
P	6.66	0.00	0.38	0.00	0.00	0.00	0.00	0.00	
3	110.29	1.90	24.96	2.12	0.00	0.00	0.00	0.00	139.27
3	79.19	1.36	17.92	1.52	0.00	0.00	0.00	0.00	23.49
P	25.25	22.30	20.00	24.06	0.00	0.00	0.00	0.00	
	18.60	0.32	4.21	0.36	0.00	0.00	0.00	0.00	
U	18.25	2.20	0.00	1.06	1.00	0.00	0.00	0.00	22.51
4	81.08	9.77	0.00	4.71	4.44	0.00	0.00	0.00	3.80
R	4.18	25.82	0.00	12.03	11.11	0.00	0.00	0.00	
P	3.08	0.37	0.00	0.18	0.17	0.00	0.00	0.00	
5	124.80	4.42	16.85	0.00	0.00	0.00	0.00	0.00	146.07
5	85.44	3.03	11.54	0.00	0.00	0.00	0.00	0.00	24.64
O	28.57	51.88	13.50	0.00	0.00	0.00	0.00	0.00	
S	21.05	0.75	2.84	0.00	0.00	0.00	0.00	0.00	
E	19.98	0.00	7.36	0.00	0.00	0.00	0.00	0.00	27.34
6	73.08	0.00	26.92	0.00	0.00	0.00	0.00	0.00	4.61
	4.57	0.00	5.90	0.00	0.00	0.00	0.00	0.00	
	3.37	0.00	1.24	0.00	0.00	0.00	0.00	0.00	
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TOTAL	436.76	8.52	124.82	8.81	9.00	5.00	0.00	0.00	592.91
TOT %	73.66	1.44	21.05	1.49	1.52	0.84	0.00	0.00	

STATION 3  
TOTAL TRIPS

STATION NUMBER = 4  
 EXIT-ENT STATION = 01 TO 08

VEHICLE TYPE

RANGES	1	2	3	4	5	6	7	8	TOTAL TOT X
	1	2	3	4	5	6	7	8	
T	176.26	1.96	84.15	0.00	33.68	13.79	0.00	0.00	309.84
	56.89	0.63	27.16	0.00	10.87	4.45	0.00	0.00	24.83
	18.23	2.46	60.55	0.00	81.31	92.55	0.00	0.00	
	14.13	0.16	6.74	0.00	2.76	1.11	0.00	0.00	
R	36.81	0.00	3.03	0.00	0.00	0.00	0.00	0.00	39.84
	92.39	0.00	7.61	0.00	0.00	0.00	0.00	0.00	3.19
I	3.81	0.00	2.18	0.00	0.00	0.00	0.00	0.00	
	2.95	0.00	0.24	0.00	0.00	0.00	0.00	0.00	
P	46.35	0.00	0.00	0.00	0.00	0.00	0.00	0.00	46.35
	100.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	3.71
	4.79	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
P	3.71	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
U	369.40	71.97	25.98	6.07	6.63	1.11	0.00	0.00	481.16
	76.77	14.96	5.40	1.26	1.38	0.23	0.00	0.00	38.56
R	38.21	90.49	18.69	100.00	16.01	7.45	0.00	0.00	
	29.60	5.77	2.08	0.49	0.53	0.09	0.00	0.00	
P	283.95	3.42	17.48	0.00	1.11	0.00	0.00	0.00	305.96
O	92.81	1.12	5.71	0.00	0.36	0.00	0.00	0.00	24.52
	29.37	4.30	12.58	0.00	2.68	0.00	0.00	0.00	
S	22.76	0.27	1.40	0.00	0.09	0.00	0.00	0.00	
E	54.11	2.18	8.33	0.00	0.00	0.00	0.00	0.00	64.62
	83.74	3.37	12.89	0.00	0.00	0.00	0.00	0.00	5.18
	5.60	2.74	5.99	0.00	0.00	0.00	0.00	0.00	
	4.34	0.17	0.67	0.00	0.00	0.00	0.00	0.00	
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TOTAL	966.88	79.53	138.97	6.07	41.42	14.90	0.00	0.00	1247.77
TOT X	77.49	6.37	11.14	0.49	3.32	1.19	0.00	0.00	

STATION 4  
 THROUGH TRIPS

STATION NUMBER = 4  
 EXIT-ENT STATION = TO  
 VEHICLE TYPE

RANGES	1	2	3	4	5	6	7	8	TOTAL TOT %
1	791.78	5.53	290.41	7.18	80.45	33.40	0.00	0.00	1208.75
1	65.50	0.46	24.03	0.59	6.66	2.76	0.00	0.00	31.57
T	25.51	10.93	54.84	46.14	85.02	96.78	0.00	0.00	
	20.68	0.14	7.58	0.19	2.10	0.87	0.00	0.00	
R	223.54	5.46	23.74	1.22	1.67	0.00	0.00	0.00	255.63
2	87.45	2.14	9.29	0.48	0.65	0.00	0.00	0.00	6.68
I	7.20	10.79	4.48	7.84	1.76	0.00	0.00	0.00	
	5.84	0.14	0.62	0.03	0.04	0.00	0.00	0.00	
P	1227.32	23.91	139.28	7.16	4.89	0.00	0.00	0.00	1402.56
3	87.51	1.70	9.93	0.51	0.35	0.00	0.00	0.00	36.63
	39.54	47.24	26.30	46.02	5.17	0.00	0.00	0.00	
P	32.05	0.62	3.64	0.19	0.13	0.00	0.00	0.00	
U	101.10	5.17	2.49	0.00	2.22	1.11	0.00	0.00	112.09
4	90.20	4.61	2.22	0.00	1.98	0.99	0.00	0.00	2.93
R	3.26	10.22	0.47	0.00	2.35	3.22	0.00	0.00	
	2.64	0.14	0.07	0.00	0.06	0.03	0.00	0.00	
P	522.61	7.68	47.42	0.00	0.00	0.00	0.00	0.00	577.71
5	90.46	1.33	8.21	0.00	0.00	0.00	0.00	0.00	15.09
O	16.84	15.17	8.95	0.00	0.00	0.00	0.00	0.00	
	13.65	0.20	1.24	0.00	0.00	0.00	0.00	0.00	
S	237.65	2.86	26.20	0.00	5.40	0.00	0.00	0.00	272.11
6	87.34	1.05	9.63	0.00	1.98	0.00	0.00	0.00	7.11
E	7.66	5.65	4.95	0.00	5.71	0.00	0.00	0.00	
	6.21	0.07	0.68	0.00	0.14	0.00	0.00	0.00	
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TOTAL	3104.00	50.61	529.54	15.56	94.63	34.51	0.00	0.00	3828.85
TOT %	81.07	1.32	13.83	0.41	2.47	0.90	0.00	0.00	

STATION 4  
 TERMINAL TRIPS

STATION NUMBER = 4

EXIT-ENT STATION = 01 TO

VEHICLE TYPE

RANGES	1	2	3	4	5	6	7	8	TOTAL TOT %	
	1	2	3	4	5	6	7	8		
T	1	968.04	7.49	374.56	7.18	114.13	47.19	0.00	0.00	1518.59
	1	63.75	0.49	24.66	0.47	7.52	3.11	0.00	0.00	29.91
		23.78	5.76	56.03	33.19	83.89	95.51	0.00	0.00	
		19.07	0.15	7.38	0.14	2.25	0.93	0.00	0.00	
R	2	260.35	5.46	26.77	1.22	1.67	0.00	0.00	0.00	295.47
	2	88.11	1.85	9.06	0.41	0.57	0.00	0.00	0.00	5.82
I		6.40	4.20	4.00	5.64	1.23	0.00	0.00	0.00	
P		5.13	0.11	0.53	0.02	0.03	0.00	0.00	0.00	
	3	1273.67	23.91	139.28	7.16	4.89	0.00	0.00	0.00	1448.91
	3	87.91	1.65	9.61	0.49	0.34	0.00	0.00	0.00	28.54
		31.29	18.37	20.83	33.10	3.59	0.00	0.00	0.00	
P		25.09	0.47	2.74	0.14	0.10	0.00	0.00	0.00	
U	4	470.50	77.14	28.47	6.07	8.85	2.22	0.00	0.00	593.25
	4	79.31	13.00	4.80	1.02	1.49	0.37	0.00	0.00	11.69
R		11.56	59.27	4.26	28.06	6.50	4.49	0.00	0.00	
P		9.27	1.52	0.56	0.12	0.17	0.04	0.00	0.00	
O	5	806.56	11.10	64.90	0.00	1.11	0.00	0.00	0.00	883.67
	5	91.27	1.26	7.34	0.00	0.13	0.00	0.00	0.00	17.41
		19.81	8.53	9.71	0.00	0.82	0.00	0.00	0.00	
S		15.89	0.22	1.28	0.00	0.02	0.00	0.00	0.00	
E	6	291.76	5.04	34.53	0.00	5.40	0.00	0.00	0.00	336.73
	6	86.65	1.50	10.25	0.00	1.60	0.00	0.00	0.00	6.63
		7.17	3.87	5.17	0.00	3.97	0.00	0.00	0.00	
		5.75	0.10	0.68	0.00	0.11	0.00	0.00	0.00	
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TOTAL		4070.86	130.14	668.51	21.63	136.05	49.41	0.00	0.00	5076.62
TOT %		80.19	2.56	13.17	0.43	2.68	0.97	0.00	0.00	

STATION 4  
TOTAL TRIPS



STATION NUMBER # 5

EXIT-ENT STATION # 01 TO 08

VEHICLE TYPE

RANGES	1	2	3	4	5	6	7	8	TOTAL TOT %
	1	2	3	4	5	6	7	8	
T	111.23	3.49	53.74	5.01	27.08	11.25	0.00	0.00	211.80
	52.52	1.65	25.37	2.37	12.79	5.31	0.00	0.00	27.16
	18.55	7.90	70.67	44.14	76.80	85.61	0.00	0.00	
	14.27	0.45	6.90	0.64	3.47	1.44	0.00	0.00	
R	11.69	0.00	0.00	0.00	0.00	0.00	0.00	0.00	11.69
	100.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.50
I	1.95	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
	1.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
P	34.76	0.00	1.67	0.00	0.00	0.00	0.00	0.00	36.43
	95.42	0.00	4.58	0.00	0.00	0.00	0.00	0.00	4.67
	5.80	0.00	2.20	0.00	0.00	0.00	0.00	0.00	
P	4.46	0.00	0.21	0.00	0.00	0.00	0.00	0.00	
U	178.04	34.17	5.64	6.34	3.27	1.74	0.00	0.00	229.20
	77.68	14.91	2.46	2.77	1.43	0.76	0.00	0.00	29.41
R	29.70	77.34	7.42	55.86	9.27	13.39	0.00	0.00	
	22.84	4.38	0.72	0.81	0.42	0.22	0.00	0.00	
P	231.43	2.59	8.11	0.00	4.91	0.00	0.00	0.00	247.04
O	93.68	1.05	3.28	0.00	1.99	0.00	0.00	0.00	31.70
	38.60	5.86	10.67	0.00	13.93	0.00	0.00	0.00	
S	29.69	0.33	1.04	0.00	0.63	0.00	0.00	0.00	
E	32.39	3.93	6.88	0.00	0.00	0.00	0.00	0.00	43.20
	74.98	9.10	15.93	0.00	0.00	0.00	0.00	0.00	5.54
	5.40	8.90	9.05	0.00	0.00	0.00	0.00	0.00	
	4.16	0.50	0.88	0.00	0.00	0.00	0.00	0.00	
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TOTAL	599.54	44.18	76.04	11.35	35.26	12.99	0.00	0.00	779.36
TOT %	76.93	5.67	9.76	1.46	4.52	1.67	0.00	0.00	

STATION 5  
THROUGH TRIPS

STATION NUMBER # 5

EXIT-ENT STATION # TO

VEHICLE TYPE

RANGES	1	2	3	4	5	6	7	8	TOTAL TOT X	
	1	2	3	4	5	6	7	8		
T	1	827.66	2.90	258.08	6.61	100.66	55.45	0.00	0.00	1251.36
	1	66.14	0.23	20.62	0.53	8.04	4.43	0.00	0.00	36.72
		29.63	10.56	63.20	72.24	89.56	97.95	0.00	0.00	
		24.29	0.09	7.57	0.19	2.95	1.63	0.00	0.00	
R	2	264.23	2.86	23.76	0.00	0.00	0.00	0.00	0.00	290.85
	2	90.85	0.98	8.17	0.00	0.00	0.00	0.00	0.00	8.54
I		9.46	10.41	5.82	0.00	0.00	0.00	0.00	0.00	
P		7.75	0.08	0.70	0.00	0.00	0.00	0.00	0.00	
P	3	993.11	8.65	66.29	0.00	7.30	0.00	0.00	0.00	1075.35
	3	92.35	0.80	6.16	0.00	0.68	0.00	0.00	0.00	31.56
		35.55	31.49	16.23	0.00	6.49	0.00	0.00	0.00	
P		29.15	0.25	1.95	0.00	0.21	0.00	0.00	0.00	
U	4	71.32	8.24	6.58	0.00	1.64	0.00	0.00	0.00	87.78
	4	81.25	9.39	7.50	0.00	1.87	0.00	0.00	0.00	2.58
R		2.55	30.00	1.61	0.00	1.46	0.00	0.00	0.00	
P		2.09	0.24	0.19	0.00	0.05	0.00	0.00	0.00	
O	5	428.32	2.20	35.76	2.54	1.64	0.00	0.00	0.00	470.46
	5	91.04	0.47	7.60	0.54	0.35	0.00	0.00	0.00	13.81
		15.33	8.01	8.76	27.76	1.46	0.00	0.00	0.00	
S		12.57	0.06	1.05	0.07	0.05	0.00	0.00	0.00	
E	6	208.79	2.62	17.89	0.00	1.16	1.16	0.00	0.00	231.62
	6	90.14	1.13	7.72	0.00	0.50	0.50	0.00	0.00	6.80
		7.47	9.54	4.38	0.00	1.03	2.05	0.00	0.00	
		6.13	0.08	0.53	0.00	0.03	0.03	0.00	0.00	
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TOTAL TOT X	2793.43 81.98	27.47 0.81	408.36 11.98	9.15 0.27	112.40 3.30	56.61 1.66	0.00 0.00	0.00 0.00	3407.42	

STATION 5  
TERMINAL TRIPS

STATION NUMBER = 5

EXIT-ENT STATION = 01 TO

## VEHICLE TYPE

RANGES	1	2	3	4	5	6	7	8	TOTAL TOT %	
	1	2	3	4	5	6	7	8		
T	1	938.89	6.39	311.82	11.62	127.74	66.70	0.00	0.00	1463.16
	1	64.17	0.44	21.31	0.79	8.73	4.56	0.00	0.00	34.95
		27.67	8.92	64.37	56.68	86.51	95.83	0.00	0.00	
		22.43	0.15	7.45	0.28	3.05	1.59	0.00	0.00	
R	2	275.92	2.86	23.76	0.00	0.00	0.00	0.00	0.00	302.54
	2	91.20	0.95	7.85	0.00	0.00	0.00	0.00	0.00	7.23
I		8.13	3.99	4.91	0.00	0.00	0.00	0.00	0.00	
P		6.59	0.07	0.57	0.00	0.00	0.00	0.00	0.00	
P	3	1027.87	8.65	67.96	0.00	7.30	0.00	0.00	0.00	1111.78
	3	92.45	0.78	6.11	0.00	0.66	0.00	0.00	0.00	26.55
		30.29	12.07	14.03	0.00	4.94	0.00	0.00	0.00	
P		24.55	0.21	1.62	0.00	0.17	0.00	0.00	0.00	
U	4	249.36	42.41	12.22	6.34	4.91	1.74	0.00	0.00	316.98
	4	78.67	13.38	3.86	2.00	1.55	0.55	0.00	0.00	7.57
R		7.35	59.19	2.52	30.93	3.33	2.50	0.00	0.00	
P		5.96	1.01	0.29	0.15	0.12	0.04	0.00	0.00	
O	5	659.75	4.79	43.87	2.54	6.55	0.00	0.00	0.00	717.50
	5	91.95	0.67	6.11	0.35	0.91	0.00	0.00	0.00	17.14
		19.44	6.69	9.06	12.39	4.44	0.00	0.00	0.00	
S		15.76	0.11	1.05	0.06	0.16	0.00	0.00	0.00	
E	6	241.18	6.55	24.77	0.00	1.16	1.16	0.00	0.00	274.82
	6	87.76	2.38	9.01	0.00	0.42	0.42	0.00	0.00	6.56
		7.11	9.14	5.11	0.00	0.79	1.67	0.00	0.00	
		5.76	0.16	0.59	0.00	0.03	0.03	0.00	0.00	
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TOTAL	3392.97	71.65	484.40	20.50	147.66	69.60	0.00	0.00	4186.78	
TOT %	81.04	1.71	11.57	0.49	3.53	1.66	0.00	0.00		

STATION 5  
TOTAL TRIPS

STATION NUMBER = 6

EXIT-ENTRANCE STATION = 01 TO 08

VEHICLE TYPE

RANGES	1	2	3	4	5	6	7	8	TOTAL TOT %
	1	2	3	4	5	6	7	8	
1	18.61	0.00	3.35	0.00	0.00	0.00	0.00	0.00	21.96
1	84.74	0.00	15.26	0.00	0.00	0.00	0.00	0.00	42.79
T	40.73	0.00	59.50	0.00	0.00	0.00	0.00	0.00	
	36.26	0.00	6.53	0.00	0.00	0.00	0.00	0.00	
R	1.27	0.00	1.21	0.00	0.00	0.00	0.00	0.00	2.48
3	51.21	0.00	48.79	0.00	0.00	0.00	0.00	0.00	4.83
I	2.78	0.00	21.49	0.00	0.00	0.00	0.00	0.00	
	2.47	0.00	2.36	0.00	0.00	0.00	0.00	0.00	
P	1.49	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.49
4	100.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	2.90
	3.26	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
P	2.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
U	19.02	0.00	1.07	0.00	0.00	0.00	0.00	0.00	20.09
5	94.67	0.00	5.33	0.00	0.00	0.00	0.00	0.00	39.15
R	41.63	0.00	19.01	0.00	0.00	0.00	0.00	0.00	
	37.06	0.00	2.08	0.00	0.00	0.00	0.00	0.00	
P	5.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00	5.30
0	100.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	10.33
	11.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
S	10.33	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
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TOTAL	45.69	0.00	5.63	0.00	0.00	0.00	0.00	0.00	51.32
TOT %	89.03	0.00	10.97	0.00	0.00	0.00	0.00	0.00	

STATION 6  
THROUGH TRIPS

STATION NUMBER = 6

EXIT-ENT STATION = TO

VEHICLE TYPE

RANGES	1	2	3	4	5	6	7	8	TOTAL TOT %
	1	2	3	4	5	6	7	8	
1	84.47	0.00	59.88	3.89	1.00	3.00	0.00	0.00	152.24
1	55.48	0.00	39.33	2.56	0.66	1.97	0.00	0.00	50.57
T	38.08	0.00	83.99	100.00	100.00	100.00	0.00	0.00	
	28.06	0.00	19.89	1.29	0.33	1.00	0.00	0.00	
R	2	18.59	0.00	1.07	0.00	0.00	0.00	0.00	19.66
I	2	94.56	0.00	5.44	0.00	0.00	0.00	0.00	6.53
		8.38	0.00	1.50	0.00	0.00	0.00	0.00	
P		6.18	0.00	0.36	0.00	0.00	0.00	0.00	
P	3	38.79	0.00	3.63	0.00	0.00	0.00	0.00	42.42
	3	91.44	0.00	8.56	0.00	0.00	0.00	0.00	14.09
		17.49	0.00	5.09	0.00	0.00	0.00	0.00	
P		12.89	0.00	1.21	0.00	0.00	0.00	0.00	
U	5	52.19	0.00	5.64	0.00	0.00	0.00	0.00	57.83
	5	90.25	0.00	9.75	0.00	0.00	0.00	0.00	19.21
R		23.53	0.00	7.91	0.00	0.00	0.00	0.00	
P		17.34	0.00	1.87	0.00	0.00	0.00	0.00	
O	6	27.80	0.00	1.07	0.00	0.00	0.00	0.00	28.87
	6	96.29	0.00	3.71	0.00	0.00	0.00	0.00	9.59
		12.53	0.00	1.50	0.00	0.00	0.00	0.00	
S		9.24	0.00	0.36	0.00	0.00	0.00	0.00	
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TOTAL	221.84	0.00	71.29	3.89	1.00	3.00	0.00	0.00	301.02
TOT %	73.70	0.00	23.68	1.29	0.33	1.00	0.00	0.00	

STATION 6  
TERMINAL TRIPS

STATION NUMBER = 6

EXIT-ENT STATION = 01 TO

VEHICLE TYPE

RANGES	1	2	3	4	5	6	7	8	TOTAL TOT %
	1	2	3	4	5	6	7	8	
1	103.08	0.00	63.23	3.89	1.00	3.00	0.00	0.00	174.20
1	59.17	0.00	36.30	2.23	0.57	1.72	0.00	0.00	49.44
	38.53	0.00	82.20	100.00	100.00	100.00	0.00	0.00	
T	29.26	0.00	17.95	1.10	0.28	0.85	0.00	0.00	
R	2	18.59	0.00	1.07	0.00	0.00	0.00	0.00	19.66
2	94.56	0.00	5.44	0.00	0.00	0.00	0.00	0.00	5.58
T	6.95	0.00	1.39	0.00	0.00	0.00	0.00	0.00	
	5.28	0.00	0.30	0.00	0.00	0.00	0.00	0.00	
P	3	40.06	0.00	4.84	0.00	0.00	0.00	0.00	44.90
3	89.22	0.00	10.78	0.00	0.00	0.00	0.00	0.00	12.74
	14.97	0.00	6.29	0.00	0.00	0.00	0.00	0.00	
P	11.37	0.00	1.37	0.00	0.00	0.00	0.00	0.00	
U	4	1.49	0.00	0.00	0.00	0.00	0.00	0.00	1.49
4	100.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.42
R	0.56	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
	0.42	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
P	5	71.21	0.00	6.71	0.00	0.00	0.00	0.00	77.92
5	91.39	0.00	8.61	0.00	0.00	0.00	0.00	0.00	22.12
	26.62	0.00	8.72	0.00	0.00	0.00	0.00	0.00	
S	20.21	0.00	1.90	0.00	0.00	0.00	0.00	0.00	
E	6	33.10	0.00	1.07	0.00	0.00	0.00	0.00	34.17
6	96.87	0.00	3.13	0.00	0.00	0.00	0.00	0.00	9.70
	12.37	0.00	1.39	0.00	0.00	0.00	0.00	0.00	
	9.39	0.00	0.30	0.00	0.00	0.00	0.00	0.00	
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TOTAL	267.53	0.00	76.92	3.89	1.00	3.00	0.00	0.00	352.34
TOT %	75.93	0.00	21.83	1.10	0.28	0.85	0.00	0.00	

STATION 6  
TOTAL TRIPS

STATION NUMBER = 7

EXIT-ENTRANCE STATION = 01 TO 08

## VEHICLE TYPE

RANGES	1	2	3	4	5	6	7	8	TOTAL TOT %
	1	2	3	4	5	6	7	8	
T	36.95	2.50	23.88	0.00	6.64	2.62	0.00	0.00	72.59
	50.90	3.44	32.90	0.00	9.15	3.61	0.00	0.00	41.58
	28.67	100.00	72.74	0.00	100.00	100.00	0.00	0.00	
	21.17	1.43	13.68	0.00	3.89	1.50	0.00	0.00	
R	9.59	0.00	0.00	0.00	0.00	0.00	0.00	0.00	9.59
	100.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	5.49
I	7.44	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
	5.49	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
P	8.14	0.00	3.77	0.00	0.00	0.00	0.00	0.00	11.91
	68.35	0.00	31.65	0.00	0.00	0.00	0.00	0.00	6.82
	6.31	0.00	11.48	0.00	0.00	0.00	0.00	0.00	
	4.66	0.00	2.16	0.00	0.00	0.00	0.00	0.00	
U	6.81	0.00	0.00	1.07	0.00	0.00	0.00	0.00	7.88
	86.42	0.00	0.00	13.58	0.00	0.00	0.00	0.00	4.51
R	5.28	0.00	0.00	100.00	0.00	0.00	0.00	0.00	
	3.90	0.00	0.00	0.61	0.00	0.00	0.00	0.00	
P	50.94	0.00	3.76	0.00	0.00	0.00	0.00	0.00	54.70
	93.13	0.00	6.87	0.00	0.00	0.00	0.00	0.00	31.34
	39.52	0.00	11.45	0.00	0.00	0.00	0.00	0.00	
	29.18	0.00	2.15	0.00	0.00	0.00	0.00	0.00	
S	16.47	0.00	1.42	0.00	0.00	0.00	0.00	0.00	17.89
	92.06	0.00	7.94	0.00	0.00	0.00	0.00	0.00	10.25
	12.78	0.00	4.33	0.00	0.00	0.00	0.00	0.00	
	9.44	0.00	0.81	0.00	0.00	0.00	0.00	0.00	
-----									
TOTAL	128.90	2.50	32.83	1.07	6.64	2.62	0.00	0.00	174.56
TOT %	73.84	1.43	18.81	0.61	3.80	1.50	0.00	0.00	

STATION 7  
THROUGH TRIPS

STATION NUMBER = 7

EXIT-ENT STATION = TO

## VEHICLE TYPE

RANGES	1	2	3	4	5	6	7	8	TOTAL TOT X	
	1	2	3	4	5	6	7	8		
T	1	240.56	2.33	102.58	2.27	22.86	15.36	0.00	0.00	385.96
	1	62.33	0.60	26.58	0.59	5.92	3.98	0.00	0.00	40.78
		32.26	17.98	72.00	39.00	94.23	100.00	0.00	0.00	
		25.42	0.25	10.84	0.24	2.42	1.62	0.00	0.00	
R	2	71.74	0.00	5.87	2.48	0.00	0.00	0.00	0.00	80.09
	2	89.57	0.00	7.33	3.10	0.00	0.00	0.00	0.00	8.46
T		9.62	0.00	4.12	42.61	0.00	0.00	0.00	0.00	
		7.58	0.00	0.62	0.26	0.00	0.00	0.00	0.00	
P	3	181.93	0.00	18.14	1.07	0.00	0.00	0.00	0.00	201.14
	3	90.45	0.00	9.02	0.53	0.00	0.00	0.00	0.00	21.25
		24.40	0.00	12.73	18.38	0.00	0.00	0.00	0.00	
		19.22	0.00	1.92	0.11	0.00	0.00	0.00	0.00	
U	4	14.99	1.07	0.00	0.00	0.00	0.00	0.00	0.00	16.06
	4	93.34	6.66	0.00	0.00	0.00	0.00	0.00	0.00	1.70
R		2.01	8.26	0.00	0.00	0.00	0.00	0.00	0.00	
		1.58	0.11	0.00	0.00	0.00	0.00	0.00	0.00	
P	5	154.92	9.56	9.96	0.00	1.40	0.00	0.00	0.00	175.84
	5	88.10	5.44	5.66	0.00	0.80	0.00	0.00	0.00	18.58
		20.78	73.77	6.99	0.00	5.77	0.00	0.00	0.00	
		16.37	1.01	1.05	0.00	0.15	0.00	0.00	0.00	
E	6	81.50	0.00	5.93	0.00	0.00	0.00	0.00	0.00	87.43
	6	93.22	0.00	6.78	0.00	0.00	0.00	0.00	0.00	9.24
		10.93	0.00	4.16	0.00	0.00	0.00	0.00	0.00	
		8.61	0.00	0.63	0.00	0.00	0.00	0.00	0.00	
-----										
TOTAL	745.64	12.96	142.48	5.82	24.26	15.36	0.00	0.00	946.52	
TOT X	78.78	1.37	15.05	0.61	2.56	1.62	0.00	0.00		

STATION 7  
TERMINAL TRIPS



STATION NUMBER = 7  
 EXIT-ENT STATION = 01 TO

VEHICLE TYPE

RANGES	1	2	3	4	5	6	7	8	TOTAL TOT %
	1	2	3	4	5	6	7	8	
1	277.51	4.83	126.46	2.27	29.50	17.98	0.00	0.00	458.55
1	60.52	1.05	27.58	0.50	6.43	3.92	0.00	0.00	40.90
T	31.73	31.24	72.14	32.95	95.47	100.00	0.00	0.00	
	24.75	0.43	11.28	0.20	2.63	1.60	0.00	0.00	
R	81.33	0.00	5.87	2.48	0.00	0.00	0.00	0.00	89.68
2	90.69	0.00	6.55	2.77	0.00	0.00	0.00	0.00	8.00
I	9.30	0.00	3.35	35.99	0.00	0.00	0.00	0.00	
P	7.25	0.00	0.52	0.22	0.00	0.00	0.00	0.00	
3	190.07	0.00	21.91	1.07	0.00	0.00	0.00	0.00	213.05
3	89.21	0.00	10.28	0.50	0.00	0.00	0.00	0.00	19.00
P	21.73	0.00	12.50	15.23	0.00	0.00	0.00	0.00	
	16.95	0.00	1.95	0.10	0.00	0.00	0.00	0.00	
U	21.80	1.07	0.00	1.07	0.00	0.00	0.00	0.00	23.94
4	91.06	4.47	0.00	4.47	0.00	0.00	0.00	0.00	2.14
R	2.49	6.92	0.00	15.53	0.00	0.00	0.00	0.00	
P	1.94	0.10	0.00	0.10	0.00	0.00	0.00	0.00	
5	205.86	9.56	13.72	0.00	1.40	0.00	0.00	0.00	230.54
5	89.29	4.15	5.95	0.00	0.61	0.00	0.00	0.00	20.56
S	23.54	61.84	7.83	0.00	4.53	0.00	0.00	0.00	
	18.36	0.85	1.22	0.00	0.12	0.00	0.00	0.00	
E	97.97	0.00	7.35	0.00	0.00	0.00	0.00	0.00	105.32
6	93.02	0.00	6.98	0.00	0.00	0.00	0.00	0.00	9.39
	11.20	0.00	4.19	0.00	0.00	0.00	0.00	0.00	
	8.74	0.00	0.66	0.00	0.00	0.00	0.00	0.00	
-----									
TOTAL	874.54	15.46	175.31	6.89	30.90	17.98	0.00	0.00	1121.08
TOT %	78.01	1.38	15.64	0.61	2.76	1.60	0.00	0.00	

STATION 7  
 TOTAL TRIPS

STATION NUMBER = 8

EXIT-ENT STATION = 01 TO 08

VEHICLE TYPE

RANGES	1	2	3	4	5	6	7	8	TOTAL TOT %	
	1	2	3	4	5	6	7	8		
T	1	32.88	1.27	23.77	1.76	0.00	0.00	0.00	0.00	59.68
	1	55.09	2.13	39.83	2.95	0.00	0.00	0.00	0.00	29.53
		20.86	40.45	60.16	100.00	0.00	0.00	0.00	0.00	
		16.27	0.63	11.76	0.87	0.00	0.00	0.00	0.00	
R	2	3.75	0.00	1.17	0.00	0.00	0.00	0.00	0.00	4.92
	2	76.22	0.00	23.78	0.00	0.00	0.00	0.00	0.00	2.43
		2.38	0.00	2.96	0.00	0.00	0.00	0.00	0.00	
		1.86	0.00	0.58	0.00	0.00	0.00	0.00	0.00	
P	3	24.71	0.00	1.76	0.00	0.00	0.00	0.00	0.00	26.47
	3	93.35	0.00	6.65	0.00	0.00	0.00	0.00	0.00	13.10
		15.67	0.00	4.45	0.00	0.00	0.00	0.00	0.00	
		12.23	0.00	0.87	0.00	0.00	0.00	0.00	0.00	
U	4	30.79	1.87	1.31	0.00	0.00	0.00	0.00	0.00	33.97
	4	90.64	5.50	3.86	0.00	0.00	0.00	0.00	0.00	16.81
		19.53	59.55	3.32	0.00	0.00	0.00	0.00	0.00	
		15.24	0.93	0.65	0.00	0.00	0.00	0.00	0.00	
O	5	59.20	0.00	11.50	0.00	0.00	0.00	0.00	0.00	70.70
	5	83.73	0.00	16.27	0.00	0.00	0.00	0.00	0.00	34.99
		37.55	0.00	29.11	0.00	0.00	0.00	0.00	0.00	
		29.30	0.00	5.69	0.00	0.00	0.00	0.00	0.00	
E	6	6.33	0.00	0.00	0.00	0.00	0.00	0.00	0.00	6.33
	6	100.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	3.13
		4.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
		3.13	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
<hr/>										
TOTAL TOT %	157.66 78.02	3.14 1.55	39.51 19.55	1.76 0.87	0.00 0.00	0.00 0.00	0.00 0.00	0.00 0.00	0.00 0.00	202.07

STATION 8  
THROUGH TRIPS

STATION NUMBER = 8

EXIT-ENT STATION = TO

## VEHICLE TYPE

RANGES	1	2	3	4	5	6	7	8	TOTAL TOT X	
	1	2	3	4	5	6	7	8		
T	1	297.99	1.25	101.28	6.43	10.39	13.78	0.00	0.00	431.12
	1	69.12	0.29	23.49	1.49	2.41	3.20	0.00	0.00	34.93
		30.06	24.70	50.40	56.26	90.19	100.00	0.00	0.00	
		24.15	0.10	8.21	0.52	0.84	1.12	0.00	0.00	
R	2	70.14	1.17	17.54	2.48	0.00	0.00	0.00	0.00	91.33
	2	76.80	1.28	19.21	2.72	0.00	0.00	0.00	0.00	7.40
I		7.08	23.12	8.73	21.70	0.00	0.00	0.00	0.00	
		5.68	0.09	1.42	0.20	0.00	0.00	0.00	0.00	
P	3	360.35	0.00	40.01	2.52	1.13	0.00	0.00	0.00	404.01
	3	89.19	0.00	9.90	0.62	0.28	0.00	0.00	0.00	32.74
		36.35	0.00	19.91	22.05	9.81	0.00	0.00	0.00	
		29.20	0.00	3.24	0.20	0.09	0.00	0.00	0.00	
U	4	35.38	1.31	4.15	0.00	0.00	0.00	0.00	0.00	40.84
	4	86.63	3.21	10.16	0.00	0.00	0.00	0.00	0.00	3.31
R		3.57	25.89	2.07	0.00	0.00	0.00	0.00	0.00	
		2.87	0.11	0.34	0.00	0.00	0.00	0.00	0.00	
P	5	176.80	1.33	27.54	0.00	0.00	0.00	0.00	0.00	205.67
O	5	85.96	0.65	13.39	0.00	0.00	0.00	0.00	0.00	16.67
		17.83	26.28	13.71	0.00	0.00	0.00	0.00	0.00	
		14.33	0.11	2.23	0.00	0.00	0.00	0.00	0.00	
S	6	50.70	0.00	10.42	0.00	0.00	0.00	0.00	0.00	61.12
	6	82.95	0.00	17.05	0.00	0.00	0.00	0.00	0.00	4.95
		5.11	0.00	5.19	0.00	0.00	0.00	0.00	0.00	
		4.11	0.00	0.84	0.00	0.00	0.00	0.00	0.00	
-----										
TOTAL		991.36	5.06	200.94	11.43	11.52	13.78	0.00	0.00	1234.09
TOT X		80.33	0.41	16.28	0.93	0.93	1.12	0.00	0.00	

STATION 8  
TERMINAL TRIPS

STATION NUMBER = 8

EXIT-ENT STATION = 01 TO

## VEHICLE TYPE

RANGES	1	2	3	4	5	6	7	8	TOTAL TOT X
	1	2	3	4	5	6	7	8	
T	330.87	2.52	125.05	8.19	10.39	13.78	0.00	0.00	490.80
	67.41	0.51	25.48	1.67	2.12	2.81	0.00	0.00	34.17
	28.80	30.73	52.01	62.09	90.19	100.00	0.00	0.00	
	23.04	0.18	8.71	0.57	0.72	0.96	0.00	0.00	
R	73.89	1.17	18.71	2.48	0.00	0.00	0.00	0.00	96.25
	76.77	1.22	19.44	2.58	0.00	0.00	0.00	0.00	6.70
I	6.43	14.27	7.78	18.80	0.00	0.00	0.00	0.00	
	5.14	0.08	1.30	0.17	0.00	0.00	0.00	0.00	
P	385.06	0.00	41.77	2.52	1.13	0.00	0.00	0.00	430.48
	89.45	0.00	9.70	0.59	0.26	0.00	0.00	0.00	29.97
	33.51	0.00	17.37	19.11	9.81	0.00	0.00	0.00	
P	26.81	0.00	2.91	0.18	0.08	0.00	0.00	0.00	
U	66.17	3.18	5.46	0.00	0.00	0.00	0.00	0.00	74.81
	88.45	4.25	7.30	0.00	0.00	0.00	0.00	0.00	5.21
R	5.76	38.78	2.27	0.00	0.00	0.00	0.00	0.00	
	4.61	0.22	0.38	0.00	0.00	0.00	0.00	0.00	
P	236.00	1.33	39.04	0.00	0.00	0.00	0.00	0.00	276.37
O	85.39	0.48	14.13	0.00	0.00	0.00	0.00	0.00	19.24
	20.54	16.22	16.24	0.00	0.00	0.00	0.00	0.00	
S	16.43	0.09	2.72	0.00	0.00	0.00	0.00	0.00	
E	57.03	0.00	10.42	0.00	0.00	0.00	0.00	0.00	67.45
	84.55	0.00	15.45	0.00	0.00	0.00	0.00	0.00	4.70
	4.96	0.00	4.33	0.00	0.00	0.00	0.00	0.00	
	3.97	0.00	0.73	0.00	0.00	0.00	0.00	0.00	
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TOTAL	1149.02	8.20	240.45	13.19	11.52	13.78	0.00	0.00	1436.16
TOT X	80.01	0.57	16.74	0.92	0.80	0.96	0.00	0.00	

STATION 8  
TOTAL TRIPS

## USE OF TRIP LENGTH FREQUENCY DISTRIBUTIONS

A portion of a trip length frequency distribution graph is on the following page. The vertical axis represents travel time in tens of minutes while the horizontal axis is the percent of trips traveling this particular length of time. For example, 3299 trips or 42.645 percent of the total were approximately 30 minutes in length. The percent of trips which were 30 minutes or less is 375.866.

Statistical information such as mean and standard deviation are printed at the end of each table. A similar graph for each station for each interview date will be presented.

	P.C.	CUM.	ACTUAL
0			
3			
6			
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12			
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45			
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51			
54			
57			
60			
1.....	30.326	30.326	2346
2.....	2.896	33.221	224
3.....	42.645	75.866	3299
4.....	7.497	83.363	580
5.....	3.270	86.634	253
6.....	3.775	90.408	292
7....	0.982	91.391	76
8....	1.370	92.761	106
9..	0.776	93.537	60
10....	2.081	95.618	161
11..	0.375	95.993	29
12..	0.388	96.381	30
13..	0.608	96.988	47
14..	0.543	97.531	42
15..	0.336	97.867	26
16..	0.168	98.035	13
17..	0.297	98.332	23
18..	0.155	98.488	12
19..	0.090	98.578	7
20..	0.194	98.772	15
21..	0.220	98.992	17
22..	0.271	99.263	21
23..	0.026	99.289	2
24..	0.052	99.341	4
25..	0.052	99.392	4
26..	0.000	99.392	0
27..	0.026	99.418	2
28..	0.039	99.457	3
29..	0.000	99.457	0
30..	0.026	99.483	2
31..	0.026	99.509	2
32..	0.013	99.522	1
33..	0.039	99.560	3
34..	0.000	99.560	0
35..	0.000	99.560	0
36..	0.026	99.586	2
37..	0.000	99.586	0
38..	0.065	99.651	5
39..	0.000	99.651	0
40..	0.013	99.664	1
41..	0.000	99.664	0
42..	0.000	99.664	0
43..	0.026	99.690	2
44..	0.000	99.690	0
45..	0.026	99.716	2
46..	0.039	99.754	3
47..	0.000	99.754	0
48..	0.052	99.806	4
49..	0.000	99.806	0
50..	0.000	99.806	0
51..	0.000	99.806	0
52..	0.000	99.806	0
53..	0.000	99.806	0
54..	0.000	99.806	0
55..	0.000	99.806	0
56..	0.000	99.806	0
57..	0.000	99.806	0
58..	0.000	99.806	0
59..	0.000	99.806	0

TRIP LENGTH FREQUENCY DISTRIBUTION

	0	3	9	12	15	18	21	24	27	30	33	36	39	42	45	48	51	54	57	60	
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	P.C.	CUM.	ACTUAL
	0.000	0.000	0
	6.977	6.977	279
	0.000	6.977	0
	41.185	48.162	1647
	6.177	54.339	247
	2.501	56.839	100
	1.300	58.140	52
	3.551	61.690	142
	0.450	62.141	18
	1.750	63.891	70
	0.300	64.191	12
	0.975	65.166	39
	2.126	67.292	85
	3.526	70.818	141
	0.400	71.218	16
	0.950	72.168	38
	0.600	72.768	24
	1.800	74.569	72
	1.400	75.969	56
	1.200	77.169	48
	1.225	78.395	49
	0.475	78.870	19
	1.750	80.620	70
	0.750	81.370	30
	0.900	82.271	36
	0.325	82.596	13
	1.125	83.721	45
	0.425	84.146	17
	0.425	84.571	17
	0.650	85.221	26
	0.675	85.896	27
	0.350	86.247	14
	0.650	86.897	26
	0.550	87.447	22
	1.700	89.147	68
	1.050	90.198	42
	0.450	90.648	18
	0.625	91.273	25
	0.675	91.948	27
	0.275	92.223	11
	0.500	92.723	20
	0.850	93.573	34
	0.675	94.249	27
	0.350	94.599	14
	0.475	95.074	19
	0.225	95.299	9
	0.200	95.499	8
	0.300	95.799	12
	0.375	96.174	15
	0.325	96.499	13
	0.050	96.549	2
	0.375	96.924	15
	0.150	97.074	6
	0.325	97.399	13
	0.125	97.524	5
	0.150	97.674	6
	0.175	97.849	7
	0.150	97.999	6
	0.150	98.150	6
	0.200	98.350	8

STATION 1

62.  
 63.  
 64.  
 65.  
 66.8AM  
 67.  
 68.7ONE = 507  
 69.7E90 = 1  
 70.4AYP = 255  
 71.8GHA = 255  
 72.8ELT = 10  
 73.07HI = 1  
 74.07HA = 507  
 75.DIST SKIM TREE NO. 101 TRIP TABLE NO. 201  
 76.DIST SKIM TREE NO. 101 TRIP TABLE NO. 202  
 77.DIST SKIM TREE NO. 101 TRIP TABLE NO. 203  
 78.DIST SKIM TREE NO. 101 TRIP TABLE NO. 204  
 79.DIST SKIM TREE NO. 101 TRIP TABLE NO. 205  
 80.DIST SKIM TREE NO. 101 TRIP TABLE NO. 206  
 81.DIST SKIM TREE NO. 101 TRIP TABLE NO. 207  
 82.DIST SKIM TREE NO. 101 TRIP TABLE NO. 208  
 83.  
 84.  
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 86.

0.125 98.700 5  
 0.000 98.700 0  
 0.150 98.850 6  
 0.000 98.850 0  
 0.050 98.900 2  
 0.100 99.000 4  
 0.125 99.125 5  
 0.125 99.250 5  
 0.100 99.350 4  
 0.025 99.375 1  
 0.225 99.600 9  
 0.075 99.675 3  
 0.000 99.675 0  
 0.000 99.675 0  
 0.000 99.675 0  
 0.175 99.850 7  
 0.025 99.875 1  
 0.000 99.875 0  
 0.050 99.925 2  
 0.000 99.925 0  
 0.050 99.975 2  
 0.000 99.975 0  
 0.000 99.975 0  
 0.000 99.975 0  
 0.025 100.000 1

REMAINING VALUES ARE ALL ZERO  
 NUMBER OF OBSERVATIONS = 3999

SUM = 53767.

MEAN = 13.445

VAR = 226.647

SD = 15.055

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

ASPECT



	P.C.	CUM.	ACTUAL
0	0.000	0.000	0
2	27.448	27.448	642
4	0.000	27.448	0
6	0.428	27.875	10
8	9.235	37.110	216
10	1.240	38.350	29
12	6.456	44.805	151
14	1.753	46.558	41
16	1.240	47.798	29
18	3.634	51.432	85
20	4.147	55.579	97
22	1.069	56.648	25
24	0.128	56.776	3
26	6.199	62.976	145
28	0.812	63.788	19
30	0.684	64.472	16
32	0.556	65.028	13
34	4.233	69.260	99
36	1.411	70.671	33
38	1.368	72.039	32
40	1.710	73.749	40
42	0.898	74.647	21
44	3.463	78.110	81
46	0.599	78.709	14
48	0.812	79.521	19
50	1.325	80.847	31
52	1.539	82.386	36
54	1.112	83.497	26
56	0.385	83.882	9
58	0.898	84.780	21
60	1.454	86.233	34
62	0.983	87.217	23
64	0.898	88.115	21
66	0.983	89.098	23
68	1.753	90.851	41
70	0.727	91.578	17
72	0.257	91.834	6
74	0.770	92.604	18
76	0.556	93.159	13
78	0.599	93.758	14
80	0.257	94.015	6
82	0.513	94.528	12
84	0.983	95.511	23
86	0.128	95.639	3
88	0.855	96.494	20
90	0.128	96.622	3
92	0.128	96.751	3
94	0.086	96.836	2
96	0.043	96.879	1
98	0.299	97.178	7
100	0.043	97.221	1
102	0.171	97.392	4
104	0.000	97.392	0
106	0.257	97.649	6
108	0.043	97.691	1
110	0.128	97.820	3
112	0.128	97.948	3
114	0.214	98.162	5
116	0.128	98.290	3
118	0.043	98.333	1

STATION 2

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0.043	98.589	1
0.000	98.58	0
0.086	98.675	2
0.043	98.717	1
0.086	98.803	2
0.086	98.888	2
0.000	98.888	0
0.000	98.888	0
0.043	98.931	1
0.000	98.931	0
0.171	99.102	4
0.128	99.236	3
0.086	99.316	2
0.000	99.316	0
0.086	99.401	2
0.171	99.572	4
0.086	99.658	2
0.257	99.914	6
0.000	99.914	0
0.000	99.914	0
0.000	99.914	0
0.000	99.914	0
0.043	99.957	1
0.043	100.000	1

REMAINING VALUES ARE ALL ZERO  
NUMBER OF OBSERVATIONS= 2339

SUM= 34638.

MEAN= 14.894

VAR= 217.666

SD= 14.754

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



	0	3	6	9	12	15	18	21	24	27	30	33	36	39	42	45	48	51	54	57	60	
1.																						
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3.																						
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58.																						
59.																						
60.																						

P.C.	CUM.	ACTUAL
0.039	0.039	2
50.650	50.689	2572
0.000	50.689	0
11.993	62.682	609
21.977	84.659	1116
3.210	87.869	163
0.788	88.657	40
1.595	90.252	81
1.103	91.355	56
0.158	91.512	8
0.276	91.788	14
0.866	92.655	44
0.020	92.674	1
1.024	93.698	52
0.768	94.466	39
0.394	94.860	20
0.079	94.939	4
0.532	95.471	27
0.197	95.668	10
0.197	95.865	10
0.414	96.278	21
0.158	96.436	8
0.098	96.534	5
0.098	96.633	5
0.217	96.849	11
0.295	97.145	15
0.098	97.243	5
0.256	97.499	13
0.118	97.617	6
0.571	98.188	29
0.197	98.385	10
0.217	98.602	11
0.276	98.878	14
0.158	99.035	8
0.177	99.212	9
0.039	99.252	2
0.039	99.291	2
0.059	99.350	3
0.059	99.409	3
0.020	99.429	1
0.039	99.468	2
0.039	99.508	2
0.000	99.508	0
0.039	99.547	2
0.020	99.567	1
0.039	99.606	2
0.059	99.665	3
0.039	99.705	2
0.039	99.744	2
0.000	99.744	0
0.020	99.764	1
0.000	99.764	0
0.118	99.882	6
0.000	99.882	0
0.000	99.882	0
0.000	99.882	0
0.000	99.882	0
0.000	99.882	0
0.039	99.921	2

STATION 4

62.  
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0.000	99.	0
0.000	99.92	0
0.000	99.921	0
0.000	99.921	0
0.000	99.921	0
0.000	99.921	0
0.000	99.921	0
0.000	99.921	0
0.079	100.000	4

REMAINING VALUES ARE ALL ZERO  
NUMBER OF OBSERVATIONS= 5078

SUM= 25607.

MEAN= 5.043

VAR= 43.154

SD= 6.569

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

	0	3	6	9	12	15	18	21	24	27	30	33	36	39	42	45	48	51	54	57	60	P.C.	CUM.	ACTUAL	
1.																							0.000	0.000	0
2.																							9.448	9.448	395
3.																							0.000	9.448	0
4.																							59.938	69.385	2506
5.																							5.381	74.767	225
6.																							9.328	84.095	390
7.																							0.885	84.980	37
8.																							1.363	86.343	57
9.																							1.148	87.491	48
10.																							0.789	88.280	33
11.																							0.167	88.448	7
12.																							0.359	88.807	15
13.																							0.167	88.974	7
14.																							0.239	89.213	10
15.																							0.670	89.883	28
16.																							0.191	90.074	8
17.																							0.335	90.409	14
18.																							0.144	90.552	6
19.																							0.167	90.720	7
20.																							0.120	90.840	5
21.																							0.694	91.533	29
22.																							0.431	91.964	18
23.																							0.096	92.059	4
24.																							0.120	92.179	5
25.																							0.526	92.705	22
26.																							0.598	93.303	25
27.																							0.622	93.925	26
28.																							0.072	93.997	3
29.																							0.311	94.308	13
30.																							0.741	95.049	31
31.																							0.502	95.551	21
32.																							0.454	96.006	19
33.																							1.387	97.393	58
34.																							0.478	97.871	20
35.																							0.239	98.110	10
36.																							0.215	98.326	9
37.																							0.096	98.421	4
38.																							0.072	98.493	3
39.																							0.096	98.589	4
40.																							0.263	98.852	11
41.																							0.191	99.043	8
42.																							0.024	99.067	1
43.																							0.000	99.067	0
44.																							0.048	99.115	2
45.																							0.096	99.211	4
46.																							0.000	99.211	0
47.																							0.072	99.282	3
48.																							0.048	99.330	2
49.																							0.048	99.378	2
50.																							0.000	99.378	0
51.																							0.000	99.378	0
52.																							0.048	99.426	2
53.																							0.048	99.474	2
54.																							0.215	99.689	9
55.																							0.000	99.689	0
56.																							0.000	99.689	0
57.																							0.000	99.689	0
58.																							0.000	99.689	0
59.																							0.120	99.809	5
60.																							0.000	99.809	0

62.  
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0.048	99.856	2
0.000	99.85	0
0.048	99.904	2
0.000	99.904	0
0.000	99.904	0
0.048	99.952	2
0.000	99.952	0
0.000	99.952	0
0.000	99.952	0
0.048	100.000	2

REMAINING VALUES ARE ALL ZERO  
NUMBER OF OBSERVATIONS# 4181

SUM# 29760. MEAN# 7.118 VAR# 76.754 SD# 8.761

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

	0	3	6	9	12	15	18	21	24	27	30	33	36	39	42	45	48	51	54	57	60	P.C.	CUM.	ACTUAL
1.																						0.000	0.000	0
2.																						37.892	37.892	133
3.																						0.000	37.892	0
4.																						49.573	87.464	174
5.																						0.855	88.319	3
6.																						7.977	96.296	28
7.																						1.709	98.006	5
8.																						1.709	99.715	6
9.																						0.000	99.715	0
10.																						0.000	99.715	0
11.																						0.000	99.715	0
12.																						0.000	99.715	0
13.																						0.000	99.715	0
14.																						0.000	99.715	0
15.																						0.000	99.715	0
16.																						0.000	99.715	0
17.																						0.000	99.715	0
18.																						0.000	99.715	0
19.																						0.000	99.715	0
20.																						0.000	99.715	0
21.																						0.000	99.715	0
22.																						0.000	99.715	0
23.																						0.000	99.715	0
24.																						0.000	99.715	0
25.																						0.000	99.715	0
26.																						0.000	99.715	0
27.																						0.000	99.715	0
28.																						0.000	99.715	0
29.																						0.000	99.715	0
30.																						0.000	99.715	0
31.																						0.000	99.715	0
32.																						0.285	100.000	1

REMAINING VALUES ARE ALL ZERO

NUMBER OF OBSERVATIONS= 351

SUM= 1267.

MEAN= 3.610

VAR= 4.352

SD= 2.086

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



02FF074

CHEBOYGAN EXTERNAL O&D TRIP LENGTH FREQUENCY DISTRIBUTION

	0	2	4	6	8	10	12	14	16	18	20	22	24	26	28	30	32	34	36	38	40	
1.																						
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P.C.	CUM.	ACTUAL
0.000	0.000	0
13.357	13.357	148
0.000	13.357	0
39.892	53.249	442
3.791	57.040	42
31.679	88.718	351
3.069	91.787	34
1.444	93.231	16
0.903	94.134	10
0.090	94.224	1
0.000	94.224	0
0.451	94.675	5
0.181	94.856	2
0.090	94.946	1
0.451	95.397	5
0.542	95.939	6
0.090	96.029	1
0.000	96.029	0
0.181	96.209	2
0.000	96.209	0
0.361	96.570	4
0.181	96.751	2
0.000	96.751	0
0.090	96.841	1
0.542	97.383	6
0.090	97.473	1
0.271	97.744	3
0.181	97.924	2
0.271	98.195	3
0.271	98.466	3
0.361	98.827	4
0.271	99.097	3
0.451	99.549	5
0.000	99.549	0
0.361	99.910	4
0.000	99.910	0
0.000	99.910	0
0.000	99.910	0
0.090	100.000	1

REMAINING VALUES ARE ALL ZERO  
NUMBER OF OBSERVATIONS= 1108

SUM= 6378, MEAN= 5.756, VAR= 25.863, SD= 5.086

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



62.	0.000	99.93	0
63.	0.000	99.93	0
64.	0.000	99.930	0
65.	0.000	99.930	0
66.	0.000	99.930	0
67.	0.000	99.930	0
68.	0.000	99.930	0
69.	0.000	99.930	0
70.	0.000	99.930	0
71.	0.000	99.930	0
72.	0.070	100.000	1

REMAINING VALUES ARE ALL ZERO  
NUMBER OF OBSERVATIONS# 1420

SUM# 7849. MEAN# 5.527 VAR# 25.469 SD# 5.047

TOTAL TRIPS OVER MAXP # 0  
TOTAL TRIPS OVER 255 # 0  
VOLUME TABLE NUMBER # 208  
SKIM TREE NUMBER # 101

	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		
1.																							0.034	0.034	5	
2.....																								29.471	29.505	4342
3.																								0.000	29.505	0
4.....																								32.695	62.201	4817
5.....																								9.754	71.954	1437
6.....																								7.514	79.468	1107
7.....																								1.948	81.416	287
8.....																								1.744	83.160	257
9...																								0.740	83.900	109
10...																								0.740	84.640	109
11...																								0.821	85.461	121
12..																								0.502	85.963	74
13...																								0.618	86.581	91
14....																								1.283	87.864	189
15..																								0.482	88.346	71
16..																								0.387	88.733	57
17..																								0.292	89.025	43
18...																								0.801	89.826	118
19..																								0.448	90.274	66
20..																								0.360	90.633	53
21..																								0.577	91.210	85
22..																								0.251	91.461	37
23..																								0.577	92.038	85
24..																								0.210	92.249	31
25..																								0.462	92.710	68
26..																								0.380	93.090	56
27..																								0.489	93.579	72
28..																								0.251	93.830	37
29..																								0.204	94.034	30
30..																								0.441	94.475	65
31..																								0.434	94.909	64
32..																								0.367	95.276	54
33..																								0.570	95.846	84
34..																								0.319	96.165	47
35..																								0.523	96.688	77
36..																								0.292	96.980	43
37.																								0.136	97.115	20
38.																								0.183	97.299	27
39.																								0.197	97.495	29
40.																								0.197	97.692	29
41.																								0.143	97.835	21
42..																								0.217	98.052	32
43.																								0.197	98.249	29
44.																								0.081	98.330	12
45.																								0.190	98.520	28
46.																								0.068	98.588	10
47.																								0.075	98.663	11
48.																								0.088	98.751	13
49.																								0.081	98.833	12
50.																								0.129	98.962	19
51.																								0.020	98.982	3
52.																								0.095	99.077	14
53.																								0.041	99.118	6
54.																								0.102	99.219	15
55.																								0.027	99.247	4
56.																								0.034	99.281	5
57.																								0.048	99.328	7
58.																								0.041	99.369	6
59.																								0.048	99.416	7
60.																								0.048	99.464	7

TOTAL

62. 073  
 63.  
 64.  
 65.  
 \*66.PAM  
 67.  
 68. ZONE = 547  
 69. ZFRD = 1  
 70. MAYP = 255  
 71. PGMA = 255  
 72. OFLT = 1  
 73. OFHT = 1  
 74. OZMA = 547  
 75. DIST. SKIN TREE NO. 101

76.  
 \*77.D  
 78.  
 79.  
 80.  
 \*81.JION  
 82.  
 83. INTR = 1  
 84. IGND = 1  
 85. PICK = 1  
 86.

REMAINING VALUES ARE ALL ZERO  
 NUMBER OF OBSERVATIONS = 14733

SUM = 109761.      MEAN = 7.450      VAR = 104.247      SD = 10.210

TOTAL TRIPS OVER MAYP = 0  
 TOTAL TRIPS OVER 255 = 0  
 VOLUME TABLE NUMBER = 201  
 SKIN TREE NUMBER = 101  
 00 = 547

\*END

0.048	99.559	71
0.000	99.55	0
0.048	99.600	7
0.007	99.613	1
0.020	99.633	3
0.048	99.681	7
0.020	99.701	3
0.020	99.722	3
0.034	99.756	5
0.007	99.762	1
0.061	99.824	9
0.034	99.857	5
0.007	99.864	1
0.000	99.864	0
0.007	99.871	1
0.048	99.919	7
0.014	99.932	2
0.034	99.966	5
0.007	99.973	1
0.000	99.973	0
0.007	99.980	1
0.000	99.980	0
0.007	99.986	1
0.007	99.993	1
0.007	100.000	1

APPENDIX B

**SINGLE STATION RURAL O-D STUDY**

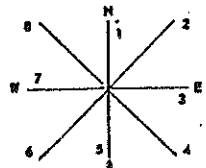
STATE OF MICHIGAN  
DEPARTMENT OF STATE HIGHWAYS  
TRANSPORTATION AND PLANNING

STA. LOCATION AND NUMBER

FORM NUMBER	6	COUNTY NUMBER		STATEWIDE NUMBER		HOUR PERIOD ENDING		* DIRECTION		DAY ** OF TRAVEL		MO.		DATE																																			
	1		2 3		4 5 6 7		8 9		10		11		12 13		14 15																																		
INTERVIEW NUMBER	VEH. TYPE	NO. IN VEH.	ORIGIN Where did this trip begin?														DESTINATION Where will this trip end?														WHERE IS VEHICLE GARAGED	ROUTE OF EXIT OR ENT.																	
			Co. or State														Co. or State														0 0 0																		
																															0 0 0																		
																															0 0 0																		
																															0 0 0																		
																															0 0 0																		
																															0 0 0																		
																															0 0 0																		
16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64	65	66	67

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- VEHICLE TYPE**
- 1 PASSENGER CAR WITHOUT A TRAILER
  - 2 PASSENGER CAR WITH A TRAILER
  - 3 PANEL OR PICK-UP WITHOUT A TRAILER
  - 4 PANEL OR PICK-UP WITH A TRAILER
  - 5 OTHER SINGLE UNIT TRUCKS
  - 6 COMBINATIONS \* TRUCKS WITH TRAILERS



- DAY OF TRAVEL \*\***
- SUNDAY 1 THURSDAY 5
  - MONDAY 2 FRIDAY 6
  - TUESDAY 3 SATURDAY 7
  - WEDNESDAY 4

- GARAGED**
- 1 ORIGIN
  - 2 DESTINATION
  - 3 OTHER

- TRIP PURPOSE**
- 1 WORK
  - 2 PERS. BUSINESS
  - 3 SHOPPING
  - 4 VACATION
  - 5 OTHER SOC. OR REC.

