SAULT STE. MARIE

370 .075

AREA TRAFFIC STUDY

1964 AND 1990 DESIRELINE DIAGRAMS

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FOREWORD

Desireline diagrams are visual presentations of data obtained from an urban area Origin and Destination Study. They show by means of straight weighted lines, the principal traffic movements between major routes, between major routes and internal zones, and between internal zones. Without reference to a street network they indicate general corridors and magnitudes of traffic flow, that can be used in determining needed highway improvements to best serve an area's traffic needs.

For an analysis of the travel patterns of a community, desireline diagrams are the best tool to be used by highway planners and local officials, short of a complete traffic assignment.

The following three types of desireline diagrams are contained within this report:

Through: 1. Through traffic interchange between major routes.

Terminal: 2. Traffic between major routes and principal zones of attraction.

Internal: 3. Traffic between principal zones and other zones of importance.

To adequately determine a state highway plan which meets future as well as present needs, it is necessary to know the current and future needs. The 1964 desireline data was drawn from the 1964 Trip Table of vehicle movement in the Sault Ste. Marie study. To satisfy the requirements of knowing future needs the 1964 Sault Ste. Marie Trip Table was forecasted to the year 1990. The resultant output was a similar trip table depicting expected future traffic in the Sault Ste. Marie study area. By drawing the most pertinent data from this trip table the 1990 set of desireline diagrams was formed.

The basis for growth of traffic was related to the anticipated future land use, population and vehicle registration of the Sault Ste. Marie area. The process for statistically distributing this growth was by a computer technique developed by the Detroit Area Traffic Study and approved by the U.S. Department of Transportation, Federal Highway Administration, Bureau of Public Roads.

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TERMINOLOGY AND DEFINITIONS

Central Business District

(CBD)

The zones comprising the concentrated commercial and retail business center of the city.

Cordon Line

A hypothetical line encompassing the area under study.

Terminal Trip

A trip with one terminal outside the study area and one terminal inside the study area.

Destination

The place where a trip ends.

Downtown Area

The zones comprising the CBD and its commer-

cial-residential fringe.

External

Outside the study area.

External Station

A point on a highway at the limits of the study area at which the drivers of vehicles were interviewed.

External Trip

A trip with one or both of its terminals outside

the study area.

Internal

Within the study area.

Internal (Local) Trip

A trip with both terminals inside the study area.

Nonresident

A person living outside the study area.

Origin

The place where the trip begins.

Origin-Destination Zone

O-D Zone, Zone

A basic subdivision of the study area having a single or dominant land use, designated for purposes of tabulation and analysis.

Resident

A person living within the study area.

Screenline

A line through the study area on a natural or artificial division where all cross traffic is counted and classified for later comparison with

the expanded survey data.

Study Area

The area enclosed by the cordon line.

Through Trip .

A trip passing through the study area with the

terminals outside the study area.

Trip

One-way travel between an origin & destination.

Trip Terminal

The point where a trip begins or ends.

TRIP MOVEMENTS ALL VEHICLES

TRIP MOVEMENTS ALL VEHICLES

Desireline diagram Nos. 1 and 2 show the traffic movements from the Sault Ste. Marie Study area.

In 1964, there were 2,755 (4.0%) trips that traveled through (station to station) the study area. There were 11,478 (16.4%) trips that had one terminal outside the study area and one terminal inside the study area (station to zone). There were 49,612 (70.9%) trips that had one terminal in one zone and the other terminal in another zone (zone to zone). There were 6,091 (8.7%) trips that traveled within a zone (intra zone).

In 1990, there are 5,670 (4.0%) station to station trips. There are 18,295 (13.1%) station to zone trips. There are 104,229 (74.6%) zone to zone trips. There are 11,547 (8.3%) intra zone trips.

Total area trips increase from 69,936 trips in 1964 to 139,741 trips in 1990. Zone to zone trips in 1964 were 70.9% of the total area trips. In 1990, zone to zone trips are 74.6% of the total area trips. With urban sprawl, development of shopping centers and improved transportation systems, zone to zone trip movements should become more predominant.

TRIP MOVEMENTS ALL VEHICLES 1964 JULY-AUGUST WEEKDAY TOTAL 69,936 TRIPS INTRA ZONE 6,091 TRIPS - 8.7 %

TRIP MOVEMENTS ALL VEHICLES 1990 JULY-AUGUST WEEKDAY TOTAL 139,741 TRIPS 104,229 TRIPS-74.6% INTRA ZONE II,547 TRIPS - 8.3%

THROUGH DESIRELINE DIAGRAMS

THROUGH TRAFFIC DESIRELINE DIAGRAMS

Desireline Diagrams No. 3 through 12 depict the through traffic interchange of the major routes located at the periphery of the Sault Ste. Marie study area. In these diagrams, the total traffic recorded at the external station location is indicated with the through trip interchange being illustrated. The remaining volumes are those of terminal trips.

The major external stations are listed below:

EXTERNAL		
STATION NO.	ROUTE	LOCATION
1	I-75 North	At International Bridge Toll Plaza
2	M-129 South	0.9 Mile South of Three Mile Road
3	I-75 South	0.8 Mile South of Three Mile Road
4	Riverside Dr. S.E.	0.8 Mile South of Three Mile Road
5	Old US-2 South	0.9 Mile South of Three Mile Road

THROUGH TRAFFIC DESIRELINE DIAGRAM

1-75 North, 1964

1-75 North, 1990

Desireline Diagrams Nos. 3 and 4 shows the through traffic interchange between I-75 North and the other 8 external stations. I-75 North to I-75 South has the largest through trip interchange with 2,385 trips for 1964 and 5,069 trips for 1990 between the two locations.

Desireline Diagram No. 3 shows that at I-75 North there were 3,260 total trips with 79.1 percent or 2,578 as through trips. The remaining 20.9 percent or 682 were terminal trips. With I-75 passing through Sault Ste. Marie, it has 2,385 through trips or 73.2 percent of the total traffic passing through this station. The 2,385 through trips on I-75 account for 92.5 percent of the total through trips passing through this station.

Desireline Diagram No. 4 shows the future through traffic interchange of I-75 North. The total traffic increased 117.1 percent from 3,260 vehicles in 1964 to 7,077 vehicles in 1990. The through traffic increased 111.4 percent from 2,578 vehicles in 1964 to 5,450 vehicles in 1990. There are 7,077 total trips with 77.0 percent or 5,450 through trips and 23.0 percent or 1,627 terminal trips. The same pattern exists in the future for through trip movements with trip movements between I-75 North and I-75 South the largest with 5,069 trips. The 5,069 through trips on I-75 account for 71.6 percent of the 7,077 total trips and 93.0 percent of the 5,450 total through trips.

THROUGH TRAFFIC DESIRELINE DIAGRAM

M-129 South, 1964

M-129 South, 1990

Desireline Diagrams Nos. 5 and 6 show the through traffic interchange between M-129 South and the other 8 external stations.

Desireline Diagram No. 5 shows that at M-129 South there were 1,514 total trips with 3.6 percent or 54 through trips and 96.4 percent or 1,460 terminal trips. The low number of through trips is due to the termination of M-129 within the city of Sault Ste. Marie. The 38 through trips interchanging with I-75 North account for 2.5 percent of the 1,514 total trips and 70.4 percent of the 54 total through trips.

Desireline Diagram No. 6 shows the future through traffic interchange with M-129 South. The total traffic increased 49.6 percent from 1,514 vehicles in 1964 to 2,265 vehicles in 1990. The through traffic increased 61.1 percent from 54 vehicles in 1964 to 87 vehicles in 1990. There are 2,265 total trips with 3.8 percent or 87 through trips and 96.2 percent or 2,178 terminal trips. The same pattern exists in the future with the trip movement between I-75 North and M-129 South the largest with 72 trips. The 72 through trips interchanging with I-75 North account for 3.2 percent of the 2,265 total trips and 82.8 percent of the 87 total through trips.

THROUGH TRAFFIC DESIRELINE DIAGRAM

1-75 South, 1964

1-75 South, 1990

Desireline Diagrams Nos. 7 and 8 show the through traffic interchange between I-75 South and the other 8 external stations.

Desireline Diagram No. 7 shows that at I-75 South there were 7,052 total trips with 35.7 percent or 2,521 through trips and 64.3 percent or 4,531 terminal trips. The 2,385 through trips interchanging with I-75 North account for 33.8 percent of the 7,052 total trips and 94.6 percent of the 2,521 through trips. At I-75 North, the same 2,385 through trips accounted for 73.2 percent of the total trips and 92.5 percent of the total through trips.

Desireline Diagram No. 8 shows the future through traffic interchange with I-75 South. The total traffic increased 75.2 percent from 7,052 vehicles in 1964 to 12,346 vehicles in 1990. The through traffic increased 108.2 percent from 2,521 vehicles in 1964 to 5,248 vehicles in 1990. There are 12,356 total trips with 42.5 percent or 5,248 through trips and 57.5 percent or 7,108 terminal trips. The 5,069 through trips on I-75 account for 41.0 percent of the 12,356 total trips and 96.6 percent of the 5,248 total through trips. At I-75 North, this same 5,069 through trips accounted for 71.6 percent of the total trips and 93.0 percent of the total through trips.

THROUGH TRAFFIC DESIRELINE DIAGRAM

Riverside Dr. S.E., 1964

Riverside Dr. S.E., 1990

Desireline Diagrams Nos. 9 and 10 show the through traffic interchange between Riverside Dr. S.E. and the other 8 external stations.

Desireline Diagram No. 9 shows that at Riverside Dr. S.E. there were 1,466 total trips with 8.7 percent or 127 through trips and 91.3 percent or 1,339 terminal trips. The low number of through trips is due to the termination of Riverside Drive within the city of Sault Ste. Marie. The 79 through trips interchanging with I-75 South account for 5.4 percent of the 1,466 total trips and 62.2 percent of the 127 total through trips. The 25 through trips interchanging with I-75 North account for 1.7 percent of the 1,466 total trips and 19.7 percent of the total through trips.

Desireline Diagram No. 10 shows the future through traffic interchange with Riverside Dr. S.E. The total traffic increased 64.1 percent from 1,466 vehicles in 1964 to 2,406 vehicles in 1990. The through traffic increased 66.1 percent from 127 vehicles in 1964 to 211 vehicles in 1990. There are 2,406 total trips with 8.8 percent or 211 through trips and 91.2 percent or 2,195 terminal trips. The 124 through trips interchanging with I-75 South account for 5.2 percent of the 2,406 total trips and 58.8 percent of the 211 total through trips. The 56 through trips interchanging with I-75 North account for 2.3 percent of the 2,406 total trips and 26.5 percent of the total through trips.

THROUGH TRAFFIC DESIRELINE DIAGRAM

Old US-2 South, 1964

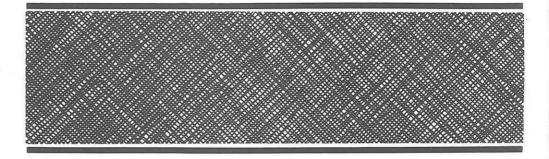
Old US-2 South, 1990

Desireline Diagrams Nos. 11 and 12 show the through traffic interchange between Old US-2 South and the other 8 external stations.

Desireline Diagram No. 11 shows that at Old US-2 South there were 2,979 total trips with 5.8 percent or 172 through trips and 94.2 percent or 2,807 terminal trips. The low number of through trips is due to the termination of Old US-2 within the city of Sault Ste. Marie. The 122 through trips interchanging with I-75 North account for 4.1 percent of the 2,979 total trips and 70.9 percent of the 172 total through trips. I-75 and Old US-2 are both used as a north-south route.

Desireline Diagram No. 12 shows the future through traffic interchange with Old US-2 South. The total traffic increased 54.7 percent from 2,979 vehicles in 1964 to 4,610 vehicles in 1990. The through traffic increased 74.4 percent from 172 vehicles in 1964 to 300 vehicles in 1990. There are 4,610 total trips with 6.5 percent or 300 through trips and 93.5 percent or 4,310 terminal trips. The 239 through trips interchanging with I-75 North account for 5.2 percent of the 4,610 total trips and 79.7 percent of the 300 total through trips.

TERMINAL DESIRELINE DIAGRAMS



TERMINAL TRAFFIC DESIRELINE DIAGRAMS

1-75 North, 1-75 South, 1964

1-75 North, 1-75 South, 1990

Desireline Diagrams Nos. 13 and 14 show terminal traffic interchange between I-75 North, I-75 South and the principal zones of attraction.

Desireline Diagram No. 13 shows that at I-75 North, there were 682 total terminal trips with 52.8 percent or 360 terminal trips attracted by three zones. Zone 11 (CBD) attracted 177 trips. Zone 12 (Industrial-Public Land) attracted 94 trips. Zone 13 (Residential) attracted 89 trips.

At I-75 South, two zones accounted for 57.9 percent or 2,622 terminal trips of the 4,531 total terminal trips. Zone 12 (Industrial-Public Land) attracted 1,803 trips while zone 11 (CBD) attracted 819 trips. Zone 12 includes the famous Soo Locks.

Desireline Diagram No. 14 shows the future terminal traffic interchange with I-75 North, I-75 South and the principal zones of attraction. At I-75 North, the total terminal traffic increased 239.9 percent from 682 total terminal trips in 1964 to 1,636 total terminal trips in 1990. At I-75 North, four zones account for 52.1 percent or 852 terminal trips of the 1,636 total terminal trips. Zone 25 is the additional zone. Zone 25 is residential and is ranked fifth in total trip ends of the internal zones. At I-75 South, the total terminal traffic increased 56.9 percent from 4,531 total terminal trips in 1964 to 7,108 total terminal trips in 1990. Two zones account for 52.9 percent or 3,760 terminal trips of the 7,108 total terminal trips. These zones are zones 11 and 12.

TERMINAL TRAFFIC DESIRELINE DIAGRAMS

M-129 South, Riverside Dr. S.E., Old US-2 South, 1964

M-129 South, Riverside Dr. S.E., Old US-2 South, 1990

Desireline Diagrams Nos. 15 and 16 show terminal traffic interchange between M-129 South, Riverside Dr. S.E., Old US-2 South and the principal zones of attraction.

Desireline Diagram No. 15 shows that at M-129 South there were 1,460 total terminal trips with 51.4 percent or 750 terminal trips attracted by four zones. Zone 11 (CBD) accounts for 434 terminal trips or 29.7 percent of the total terminal trips and 57.9 percent of the terminal trips plotted.

At Riverside Dr. S.E., three zones accounted for 747 terminal trips or 55.8 percent of the 1,339 total terminal trips. Zone 11 (CBD) accounts for 500 terminal trips or 37.3 percent of the total terminal trips and 66.9 percent of the terminal trips plotted.

At Old US-2 South, three zones accounted for 1,546 terminal trips or 55.1 percent of the total terminal trips. Zone 11 (CBD) accounts for 719 terminal trips or 25.6 percent of the total terminal trips and 46.5 percent of the terminal trips plotted.

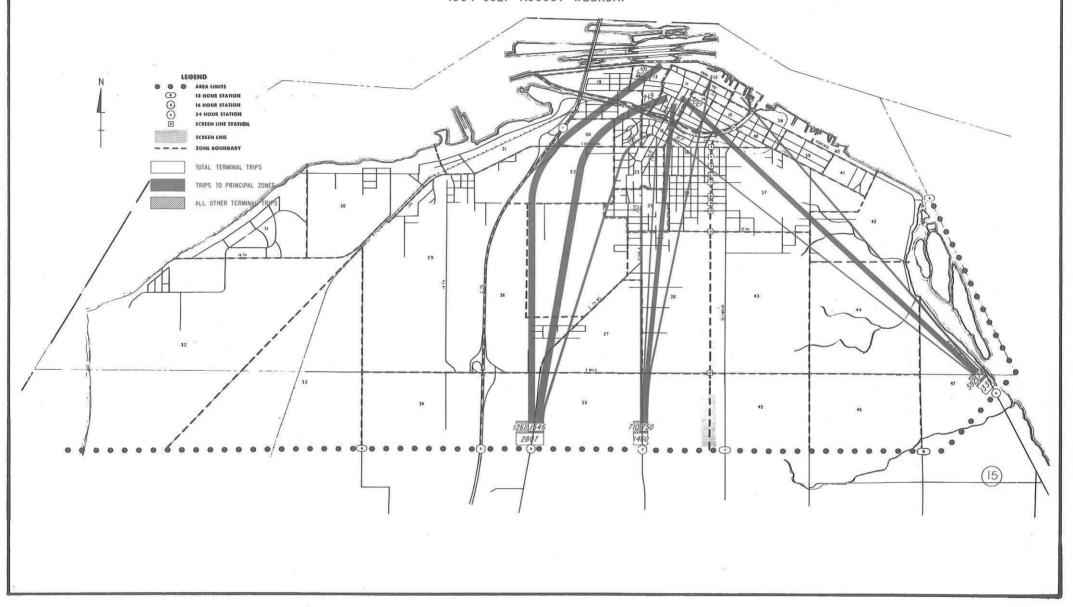
Desireline Diagram No. 16 shows the future traffic interchange with M-129 South, Riverside Dr. S.E., Old US-2 South and the principal zones of attraction. At M-129 South total terminal traffic increased 49.2 percent from 1,460 total terminal trips in 1964 to 2,178 total terminal trips in 1990. Six zones account for 1,148 terminal trips or 52.7 percent of the 2,178 total terminal trips. Zone 11 (CBD) accounts for 545 trips or 25.0 percent of the total terminal trips or 47.5 percent of the terminal trips plotted. With the increase in suburban development, zones further from the CBD have increased in the order of importance.

At Riverside Dr. S.E., total terminal traffic increased 63.9 percent from 1,339 total terminal trips in 1964 to 2,195 total terminal trips in 1990. Zone 11, 12 and 17 remain as the principal zones of attraction. These three zones account for 1,118 terminal trips or 50.9 percent of the 2,195 total terminal trips. Zone 11 (CBD) accounts for 745 terminal trips or 33.9 percent of the total terminal trips or 66.6 percent of the terminal trips plotted.

At Old US-2 South, total terminal traffic increased 53.5 percent from 2,807 total terminal trips in 1964 to 4,310 total terminal trips in 1990. Four zones account for 2,301 terminal trips or 53.4 percent of the 4,310 total terminal trips. With the development of commercial property and the establishment of a shopping center, Zone 27 accounts for 264 terminal trips. Zone 11 (CBD) is still the largest attractor with 938 terminal trips or 21.8 percent of the total terminal trips or 40.8 percent of the terminal trips plotted.

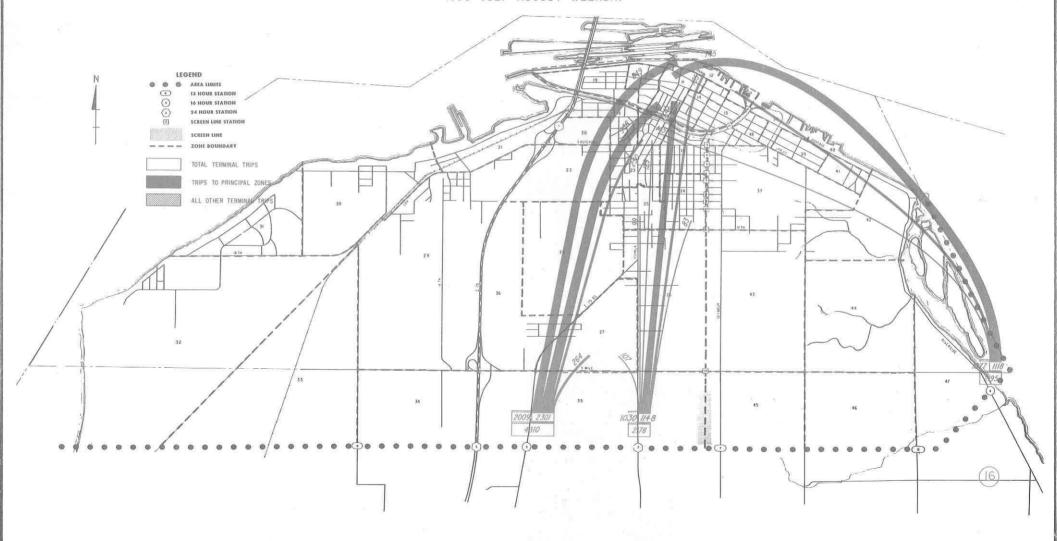
SAULT STE. MARIE AREA TRAFFIC STUDY

TRAFFIC BETWEEN M-129 SOUTH, RIVERSIDE DR. SE, OLD U.S. 2 SOUTH AND THE PRINCIPAL ZONES OF ATTRACTION 1964 JULY-AUGUST WEEKDAY

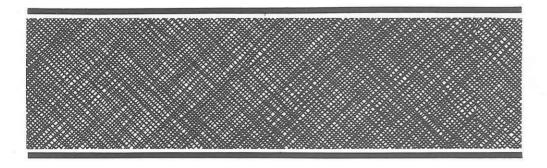


SAULT STE. MARIE AREA TRAFFIC STUDY

TRAFFIC BETWEEN M-129 SOUTH, RIVERSIDE DR. SE, OLD U.S. 2 SOUTH AND THE PRINCIPAL ZONES OF ATTRACTION 1990 JULY-AUGUST WEEKDAY



INTERNAL DESIRELINE DIAGRAMS



INTERNAL TRAFFIC DESIRELINE DIAGRAMS

Desireline Diagrams Nos. 17 through 26 represent internal traffic between the five principal traffic attractors in the Sault Ste. Marie Study area. As with the terminal desireline diagrams, 50 percent of the total traffic interchange between these zones and others within the study area has been plotted. The remaining 50 percent is widely dispersed. Concurrent with the fact that these five zones were the greatest attractors of terminal trips, is that they are also the greatest attractors of internal trips. The zones are: 11, 13, 17, 25 and 37.

SAULT STE. MARIE

1964	1990
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RANK	ZONE	TOTAL TRIP ENDS	RANK	ZONE	TOTAL TRIP ENDS
1	11	29,836	1	11	46,994
2	17	7,749	2	37	13,141
3	37	6,262	3	17	12,595
4	13	6,232	4	13	11,180
5	25	5,898	5	25	11,179

ZONE 11 is the Central Business District.

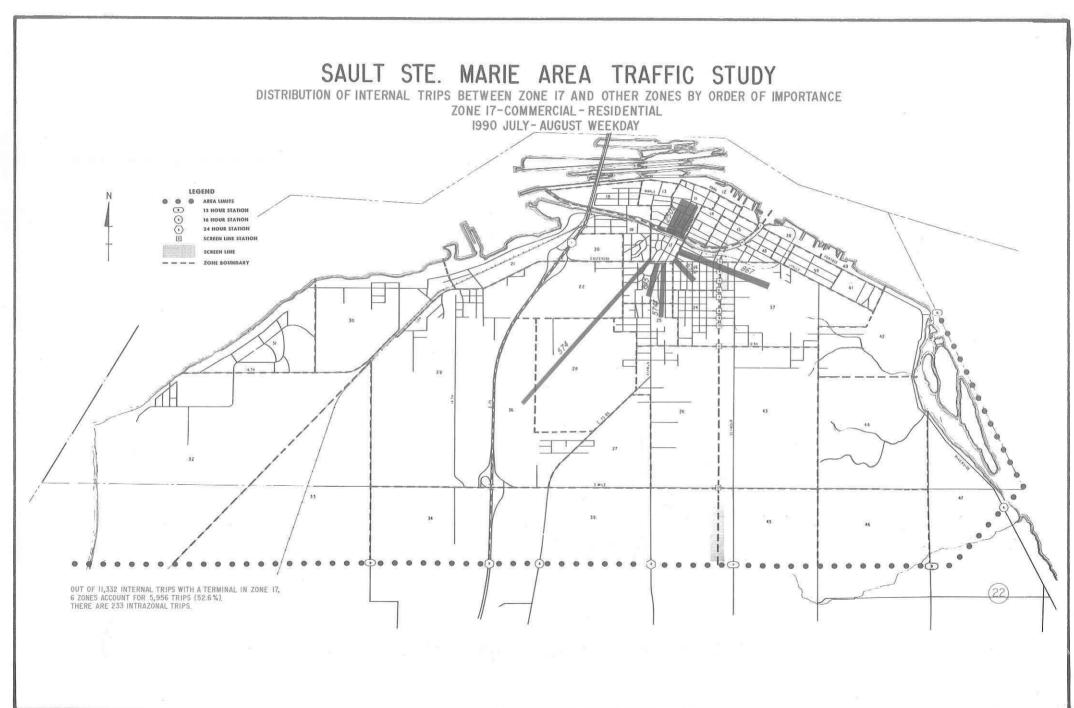
ZONE 17 is Residential - Non Manufacturing.

ZONE 37 is Residential - Public.

ZONE 13 is Residential.

ZONE 25 is Residential.

SAULT STE. MARIE AREA TRAFFIC STUDY DISTRIBUTION OF INTERNAL TRIPS BETWEEN ZONE 13 AND OTHER ZONES BY ORDER OF IMPORTANCE ZONE 13 - RESIDENTIAL 1990 JULY - AUGUST WEEKDAY LEGEND O O AREA LIMITS 13 HOUR STATION 16 HOUR STATION 24 HOUR STATION SCREEN LINE STATION OUT OF 9,151 INTERNAL TRIPS WITH A TERMINAL IN ZONE 13, 7 ZONES ACCOUNTED FOR 4,801 (52.5%). THERE ARE 545 INTRAZONAL TRIPS.



APPENDIX A

METROPOLITAN AREA TRAFFIC STUDY

TABLE 5-1

TOTAL TRIPS BY PASSFNGER CAR, TRUCK AND TAXI DRIVERS FOR A 24-HOUR WEEKDAY IN JULY AND AUGUST OF 1964

DESTINATIONS

					DESITA	ATIONS					
ORIGIA	i	1	2	3	4	5	6	7	8	9	SUR-TOT
1 2 3 4 5		21 1227 14 50	17 1 4 1	1158 1 32 9	11 1 47	72 1 16 8	2 2 16 1		3 1 2	1 2	1264 27 1311 59 69
6 7 8		1	4	9	3	5					22
9						1					1
SUE	-707	1314	27	1210	68	103	24		6	3	2755
11 12 13		105 33 44 17	226 53 26 20	420 637 110 54	241 64 35 15	354 356 64 54	3 3 8 4 3	6	24 16 6	24 6 1	1433 1173 293 169
15 16 17 18 19		8 7 7 8 10	12 32 56 11	23 41 66 28 21	5 28 36 10	18 47 91 22 16	3 2 10 2	4	6 1 7 7 6	3	75 165 276 89 80
20 21 22 23 24		5 2 9 6	10 7 1 39 16	12 13 9 37 27	3 1 30 14	11 11 12 63 32	2 2		3 1 12	1	45 32 25 192
25 26 27 28 29		14 7 6 3 3	39 22 6 13 10	98 37 9 9	16 10 1 2 16	65 33 27 15	1 2 1 1		1 3 1	2	235 113 52 43 91
30 31 32 33 34		3 1	5 3-	20 12 5 1	6	6 5 9 1 14			1 1 6 2 9	1 5	45 24 17 8 91
35 36 37 38 39		3 3 5	11 7 12 12 11	15 19 30 20 16	2 3 19 13 20	24 11 36 10 16	2 1 5	8 2	3 4	3 3	54 48 112 66 77
40 41 42 43 44		1 7 4 3	2 3 2	11 29 10 2 5	3 15 4 4 5	1 17 17 6 2	2	1	4		18 77 37 16 17
45 46 47 48	8	2 6	1 5 15	9 26	3 2 13 13	2 1 11 17		1	1 3	3	6 6 42 82
SUE	-101	336	720	1951	662	1508	86	26	179	55	5523
FIR	1-707	1650	747	3161	730	1611	110	26	185	58	8278

SAULTE STE MARTE METROPOLITAN AREA TRAFFIC STUDY

TABLE S-1

TOTAL TRIPS BY PASSENGER CAR, TRUCK AND TAXI DRIVERS FOR A 24-HOUR WEEKDAY IN JULY AND AUGUST OF 1964

			75	DESTINA	TIONS		¥3			
ORIGIN	11	12	13	14	15	16	17	18	19	20
1 2 3 4 5	72 208 399 259 365	61 91 1166 86 280	45 35 120 22 54	15 23 76 12 38	1 15 39 4 32	8 30 44 23 42	9 44 73 61 100	16 12 30 12 18	5 17 16 17 20	3 10 43 4
6 7 8 9	33 5 13 20	13	5 7 11	1	2	3	7 5 16 2	5	3	2
SUB-TOT	1374	1711	299	169	93	154	317	93	80	73
11 12 13 14	3139 212 740 561	121	754 26 337 125	663 52 111 135	394 73 43	726 200 150 66	893 27 244 174	515 65 153 9	221 24 69 40	66
15 16 17 18 19	419 596 966 399 316	33 139 31 27 24	54 182 99 83 78	63 56 130 10 97	118 128 61 5	75 177 327 119 53	52 191 172 70 57	11 106 113 64 21	23 28 5 61 58	16 2 1
20 21 22 23 24	48 131 75 695 564	25 68 42	32 26 125 79	2 11 5 17 71	26 43 35 6	31 26 88 130	49 248 130	12 36 39 26	20 6 17 40 12	38
25 26 27 28 29	681 239 114 89 289	52 10 12	91 27 19 15	47 34 12 5	104 35 60	124	119 140 34 17 83	85 57 20 23	17 17 31 26 39	22 12
30 31 32 33 34	180 179 58 5	20 25 5	71 55 6	10 47 5	6	16 48 9	60 9 5 5	11 28	5 10 6	5
35 36 37 38 39	150 107 702 161 343	13 25 37	38 72 6 59	12 21 113 47 55	6 9 49 26 33	27 18 161 84 21	26 44 269 16 47	26 38 70	38 61 82	24 11
40 41 42 43 44	75 91 121 68 53	22	24 12 10	38 77 12 59	16 11 25	21 67 5 12	27 41	13 19 55 21	60	36
45 46 47 48	15 19 125 284	5 26 32	50 53	12	9	31	11 37 63	23 6	36 18	5
SUB-TOT	13100	949	2683	2105	1501	2860	3433	1706	1089	286
FIN-TOT	14474	2660	2982	2274	1594	3034	3750	1799	1169	359

SAULTE STE MARIE METROPOLITAN AREA TRAFFIC STUDY

TABLE S=1

TOTAL TRIPS BY PASSENGER CAR, TRUCK AND TAXI DRIVERS FOR A 24-HOUR WEEKDAY IN JULY AND AUGUST OF 1964

DESTINATIONS

	ORIGIN	24 25	21	22	23	24	25	26	27	28	29	30
s	1 2 3 4 5	*	11 2 2	2 6 4 3 2	10 16 54 27 36	4 31 41 6 26	32 31 184 12 56	2 23 30 3	13 8 4 18	12 7	2 12 23 5	9 15 2 4
	6				5		1	2	1	2	2	
18	6 7 8 9		3		10	8	5	2	2		2	2
	SUB-TOT	•	22	17	159	110	323	89	50	36	60	32
	11 12 13 14		213 63 39	89 10 40 10	747 91 127 32	582 74 89 52	616 111 67 37	320 48 30	78 6 29	97 23 1	301 46 23	231 45 98 21
	15 16 17 18 19		16 11 31 16 6	26 23 23 21	53 114 290 30	33 188 97 48	82 82 260 90 36	12 31 127 55 20	6 11 9	26 14 34 16	5 6 67 37 34	10 87 5
	20 21 22 23 24		50 21 6 27	42 11	31 28 114 95	20 37 26 62 305	28 56 42 90 94	20 33 10	9 1 15	7·0	142 5 68 6	25 117 12 30
	25 26 27 28 29		37 6	53 19	70 40 6 72 50	.73 32 15	269 134 41 24 71	183 28	70 16	20	106 10 20 97	34 10 26
	30 31 32 33		43 27 25	10 6 15	30 6 50	51	45 30 30	19 21	12	10 5	10 22 35	53 47 23
	35 36 37 36 39		12 22 1		36 103 84 1	9 35 159 37 32	27 43 130 1	38 5 33 10 27	11 43 24	5	22 16 53	10
	40 41 42 43 44		12		6 17 62 16	18 45 6 26	2 17 24 5	12	38		31	
	45 46 47 48			12	20 86	12 17 75	15 43 22	3.4 1	×			15
	SUB-101	ri .	809	433	2573	2270	2706	1163	367	368	1236	930
	FIN-TOT	r	831	450	2732	2380	3029	1252	437	404	1296	962

SAULTE STE MARTE METROPOLITAN AREA TRAFFIC STUDY

TABLE 5-1

TOTAL TRIPS BY PASSENGER CAR, TRUCK AND TAXI DRIVERS FOR A 24-HOUR WEEKDAY IN JULY AND AUGUST OF 1964

		230/ 0002 0		DESTINAT	TONS					
DRIGIN	31	32	33	34	35	36	37	36	39	40
1 2 3 4 5	2 3 4 1 5	1 1 12 5	2	15 25 1 5	4 14 9 5 27	1 5 10 3 14	5 22 25 9 20	5 7 14 12 3	5 10 18 6 16	3 3 1 3 2
6				1	2	2		1	3	
6 7 8 9		4	3	40	1 2	2	2	3	3	
SUB-TOT	15	23	7	90	. 64	37	83	45	63	12
1 1 1 2 1 3 1 4	135 27 85 44	46 25 11 9	20	117 54 5	225 25 31 12	133 34 35 29	886 49 48 100	148 7 6 34	385 57 75 40	13 9 15 43
15 16 17 18 19	11 56 35 25 22	28 35	10	16 60 12	17 63 11 49	46 64 21	40 196 203 57 69	12 31 6	41 40 46 12 46	6 11 12 11
20 21 22 23 24	16 11 33	15 52 9 6		6 9 16 5	27 10 30 12	36 11	15 34 1 76 103	9 33 5	10 29 18	18 7 11
25 26 27 28 29	39 10 12 19 21	10 11 10 27		15 20 28	5 12 21	46 22 9	91 27 10 34 36	34	48 6 10 10	5 16
30 31 32 33 34	38 11 64	29 73 58		17 9 38	10 10 5	26	5 77 9	11	9 16 15	.1
35 36 37 38 39	74 10 10	5		112 23 21	61 18 75	33 30	40 11 389 41 106	29 6 63	17 12 86 70 143	6 5 24
40 41 42 43 44	12 12	6			1 <i>2</i> 35	6 26 10	26 106 39	6	35 10 41 11	6
45 46 47 48	6 9	9			37 5 15	11	15 10 84	11 23	17 11 57	37
SUB-TOT	892	484	30	586	945	654	3043	490	1424	256
FIN-TOT	907	507	37	676	1009	691	3126	535	1487	268

SAULTE STE MARIE METROPOLITAN AREA TRAFFIC STUDY

TABLE S=1

TOTAL TRIPS BY PASSENGER CAR, TRUCK AND TAXI DRIVERS FOR A 74-HOUR WEEKDAY IN JULY AND AUGUST OF 1964

DESTINATIONS

	ORIGIN	41	42	43	4.4	45	46	47	48	SUR-TOT	FIN-TOT
E.	1 2 3 4 5	6 2 11 12 9	3 6 20 3 13	2 3 12 3	3 ? 1 9	2	3 3	4 3 3 25 4	8 24 11 22	346 740 2580 477 1299	1610 767 3891 736 1368
	6 7 8 9	2	4	2	. 4				1	89 19 141 64	111 19 143 65
	SUB-TOT	43	49	52	19	5	6	39	72	5955	8710
	11 12 13 14	162 29 49	127 20 36 91	111 10 12	70 11 26	5	24	163 16 63	393 21 29 69	13929 1467 2957 2047	15362 2640 3250 2216
	15 16 17 18 19	6 35 20 20	16 57 83 67 71	6 46 30	1 1 1	6		42 50 32 41	51 33 34 9	1343 2413 3723 1491 1303	1418 2778 3999 1580 1383
	20 21 22 23 24	1 5 25	9815	15			11	12 11 15	10 12 60 58	322 913 383 2280 1974	367 945 408 2472 2073
	25 26 27 28 29	14	16	9 9	12	24		38 12 21 10	1 10 6 14	2634 1056 355 452 1114	2869 1169 407 495 1205
	30 31 32 33 34	10	21 18	1				6 6	19	694 863 434 25 606	739 887 451 33 697
	35 36 37 38 39	26 5	67	40 10 60 9	1	26		11 6 22 21	67 15 66	872 635 3024 564 1333	926 663 3136 630 1410
	40 41 42 43 44	10	23 6	23	9 16 6	102 12		33 19 16	21 33 6	308 405 894 454 169	326 482 931 470 186
	45 46 47 48	12	21 23	103		5		120	10 31	235 36 758 1938	241 42 800 1120
	SUB-TOT	465	916	5 3 4	175	222	44	802	1134	55703	61226
	FIN-TOT	508	965	556	194	227	50	841	1206	61658	69936

APPENDIX B

SAULT STE MARIE

TABLE S=1

TOTAL TRIPS BY PASSENGER CAR. TRUCK AND TAYL DRIVERS FOR A 24-HOUR WEEKDAY IN JULY AND AUGUST OF 1990

TOTA	L TRIPS BY	PASSENGER	CAR, TRUC	K AND TA	KI DRIVERS	FUR A 24	=H00R	WEEKD	AY IN JULY	AND AUGUST	Dr 1990	
	200				DESTINATIO) N S						SATURATE REPORT
URIGI	N	1	2	3	4	5		6	7	8	9	SUB-TOT
		1.0	22					0	0	5.	2.	2668.
. 1		0.	32.	2461.	25.	141.		2.	0.	1.	0.	45.
2		40.	0.	1 .	1 .	1 •		1.	0.	2.	2.	2718.
3		2608.	1.	0.	74.	22.		9.	0.	0.	0.	100.
4		31.	6 .	50.	0.	12.		1.	0.	0.	0.	121.
5		98.	1.	12.	9 •	0.		1.		0.		1
6		1.	. 2.	5.	2.	2.		0.	0.	0.	0.	12.
7		0.	0.	0.	. 0 .	0.		0.	0.	0.	0.	0.
8	.000	2.	0.	1 .	0.	0 .		0.	0.	0.	0.	3.
9		2.	0.	0.	0.	1 •		0 .	0.	0.	0.	3.
SUE	3-101	2782.	42.	2530.	111.	179.		14.	0.	8.	4.	5670.
11		211.	284.	593.	359.	462.		17.	5.	27.	26.	1984.
12		68.	68.	920.	97.	475.		4.	ο.	19.	7.	1658.
13		97.	36.	171.	57.	92.		2.	3.	А.	1.	467.
14		34 .	25.	76.	22.	70.		2.	0.	7.	0.	236.
15		15.	14.	31.	7 .	22.		1.	ο.	7 ,	2.	99,
9.9		4.6		L 2	11.0	4.4		1 •	4.	1 .	3,	223.
16		14.	40.	58.	41.	61.		5.	1.	8.		368.
17		14.	73.	94.	54.	119.		1.	0.	8.	1.	123.
18		16.	14.	39	15.	31.		1.	0.	10.	0.	168.
19		30.	32.	12.	20.	10.		o.	0.	2.	0.	43.
20		7 .	9.	120	3.6	10.						
21		3.	12.	24.	4.	19.		0.	0.	1.	0.	63.
22		6.	2.	20.	2.	25.		0.	0.	0.	0.	55.
23		19.	50.	54.	46.	85.		1 .	0 .	14.	0.	269.
24		17.	28.	54.	29.	59.		1 .	0.	2.	2.	192.
25		32.	55.	156.	27.	95.		1 .	7.	1 .	2.	369.
		14.0	8020	70	0.0	4.5			1.	5,	0.	233.
26		21.	41.	78.	22.	64.		1 .				320.
27		54.	34.	57.	7.	158.		5.	0.	5.	0.	48.
28		5.	14.	11.	2.	16.		0.	0.	0.		
29		12.	24.	98.	46.	28.		1 .	0.	31.	0.	240.
30		3.	11.	47.	15.	13.		0.	0.	15.	0.	83.
31		14.	9 .	39,	3.	15.		0.	0.	3,	0.	03,
		1				4.5		0	0		1.	26.
32		2.	1.	8.	0.	13.		0.	0.	1 .	0.	9.
33 '		0.	0.	1.	0 .	1.		0.	0.	47.	8.	175.
34		9.	14.	68.	2.	26.		1.	7.	5.	5.	190.
35		18.	32.	48.	7.	71. 57.		4.	0.	13.	0.	257.
36		24.	35.	106.	18.	216		~ .	0.6	130		231
37		8.	20.	55.	37.	61.		0 .	9.	6.	0.	196.
38		9.	14.	26.	17.	12.		0.	2.	0.	3.	83.
39		8.	13.	22.	28.	20.		2.	0.	2.	3.	98.
40		2.	2.	13.	4 .	1 .		0.	0 .	0 .	0.	22.
41 .		16.	4.	45.	25.	25.		1.	2.	5.	1.	124.
		*							-		1	
42		11.	3.	18.	8.	29.		0.	0.	6.	1.	76.
43		4.	3.	3.	5 •	7.		0.	1 .	0.	2.	25.
44		5.	2.	6.	6.	2.		0.	0.	0.	4.	25 •
45		3.	1.	1 .	4.	2.		0.	1.	0.	2.	14.
46		0.	4 .	4 .	3.	1 •		0.	0.	0.	3.	15.
47	2:	5.	8.	16.	25.	13.		0.	1.	1 .	6.	80.
48	5	12.	19.	37.	20.	22.		1.	0.	3 .	2.	116.
					220,000,000	dayaet www			1200			222
SUI	B-TOT	828.	1050.	3153.	1087.	2316.		55.	32.	270.	85.	8876.
TOTAL	L	3610.	1092.	5683.	1198.	2495.		69.	32.	278.	89.	14546.

SAULT STE MARIE
TABLE S=1

TOTAL TRIPS BY PASSENGER CAR, TRUCK AND TAXI DRIVERS FOR A 24-HOHR WEEKDAY IN JULY AND AUGUST OF 1990

TOTAL TRIPS	BY PASSENGE	R CAR IN	JCK AND IA	XI DRIVERS	FUR A 24=	HUIIN WEEKU	41 14 3061	AND AUGUS	1 07 1990	
0.5.5.7.11		4.0	4.3	DESTINATION 14	3NS 15	16	17	18	19	20
DRIGIN	11	12	13	14	15	10	17	10	.,	
	0 H E	124	100.	30.	2.	16.	18.	32.	15.	4.
1	145.	126.		29.	18.	38.	56.	15.	32.	9.
2	261.	117.	48.			62.	104.	42.	33.	44.
3	563.	1684.	186. 36.	106.	53. 6.	34.		18.	37.	4.
5	386. 476.	131.	77.	18.	40.	55.	131.	23.	39.	10.
Э	4/11 0	3/4.	(1 0	490	400	.,,,,	1310	230		
6	17.	7.	3.	1.	0.	2.	4.	1.	2.	0.
7	5.	0.	7.	0.	0.	4.	5.	0.	0.	0.
8	15.	7.	14.	5.	7.	3.	18.	6.	5.	2.
9	. 22.	9.	1.	0.	2.	3.	2.	0.	0.	0.
•			•							
SUBPICT	1890.	2455.	472.	238.	128.	217.	429.	137.	163.	73.
	* 4.04	1.77	4.4.00	#60	505	046	1202.	685.	437.	64.
1 1	4196.	166.	1109.	860.	505.	900.	12020	89.	49.	0.
12	290.	20.	39.	71.	96.	272.	37. 361. 232. 67.	224.	150.	0.
1 3	1088.	62.	545.	162.	61.	87.	3010	12.	79.	12.
1 4	745.	42.	182.	.179.	120.	01.	67	14.	44.	15.
15	537.	43.	76.	80.	145.	96.	01.	14.	47.	15.0
	700	4.00	244	7.6	4.6.3	234.	256.	143.	55.	2.
16	793.	189.	266.		163.	438.	233	151.	10.	1.
1.7	1300.	43.	146.	174.	79.	158.	233. 94.	111.	120.	o.
18	531.	37.	121.	13.	6.	150.	443	41.	169.	36.
19	625.	49.	169.	190.	23.	104.	113.	0.	28.	26.
20	46.	0 .	0.	2.	24.	2.	1 .		20.	200
	224	4.5	4.2	10	73.	55.	87.	21.	16.	0.
21	231.	45.	62.	19.		55.	49.	76.	53.	15.
22	160.	22.	61.	11.	0.			53.	81.	0.
23	956.	96.	189.	23.	46.	121.	343.	49.	33.	15.
24	1059.	81.	163.	132.	11.	243.	246.			24.
25	1025.	80.	151.	70.	150.	186.	180.	127.	38.	240
(E/2)	. = 0		E 0	4.0	2.3	86.	282.	113.	50.	17.
26	478.	20.	59.	68.	23,					
27	685.	74.	125.	60.	0 .	36.	205.	30.	274.	39.
28	98.	0.	18.	13.	37.	15.	19.	22.	42.	0.
29	744.	0.	141.		148.	15.	215.	59.	148.	0.
30	403.	46.		22.	0 .	36.	135.	24.	16.	8.
31	557.	80.	188.	145.	33.	149.	28.	87.	46.	0.
					2			•		
32	88.	8.	10.	8.	9.	14.		0.	13.	16.
3 3	6.	0.	0.	0.	0.	0.		0.	0.	0.
3 4	173.	49.	52.	21.	57.	10.	94.	23.	34.	8.
35	457.	41.	127.	36.	18.	88.	86.	79.	171.	59.
36	565.	135.	203.	110.	46.	95.	234.	199.	39.	91.
			. 20							
37	1228.	66.	139.		82.	281.	509.	122.	158.	14.
3.8	195.	9.	8.	56.	30.	101.	22.	0.	0. 155.	8.
39	439.	43.	83.	70.	40.	101. 27. 23.	61.	24.		0.
40	82.	10.	29.	43.		23.	13.	14.	0.	0.
41	135.	14.	20.	56.	16.	52.	30.	28.	2.	0.
	6.16	2.0		4 ~ 2		4 - 7		0.4	455	N.E.
42	212.	39.	19.	134.	42.	117.	48.		155.	45.
4 3	81.	13.	0.	14.	7 .	6.	49.	25.	11.	0.
44	60.	13.	0.	66.	1 .		13.	0.	0.	0.
45	16.	0.	0.	13.	0.	0.	12.	6.	0.	0.
46	24.	7.	0 •	0.	0.	0.	0.	0.	0.	0.
4.7	24.5	4.5	0.4	•		F.3	£ h	3.0	0.4	•
47	214.	45.	94.	0.	15.		64.	39.	91.	0.
4.8	385.	44.	79.	87.	56.	12.	86.	8.	36.	5.
0110=70=	00007	1734	, , , , ,	2746	0476	****	5700	0704	2003	E00
-SUB=TOT	20907.	1731.	4847.	3310.	2179.	4.466.	5720.	2794.	2803.	520.
Toget.	-07-7				03.5	4453			2044	
TOTAL	22797.	4186.	5319.	3548.	2307.	4683.	6149.	2931.	2966.	593.

S=1 2 DF 5

SAULT STE MARIE

TABLE S=1

TOTAL TRIPS BY PASSENGER CAR, TRUCK AND TAXI DRIVERS FOR A 24-HOUR WEEKDAY IN JULY AND AUGUST OF 1990

TUTAL TREPS	ST PASSENGE	IN CARP INC	ICK AND TA			HOUR WEEKD	AT IN SOLT	AND ADDITO	111 1770	
ORIGIN	21	22	23	DESTINATION 24	25	26	27	28	29	30
1	3.	6.	21.	11.	73.	6.	36.	2.	8.	3.
. 2	7 .	12.	21.	55.	44.	43.	73.	5 .	29.	19.
3	20.	9.	78.	81.	293.	63.	51.	14.	63.	35.
4 5	4 .	7.	41.	13.	20 .	7.	27.	9.	14.	5 . 9 .
5	3 .	4.	48.	51.	82.	49.	106.	10.	30.	7.
6	0.	0.	3.	1.	1.	2.	2.	1.	2.	0.
7	Ο.	. 0 .	0.	0 •	0.	0.	4.	0.	0.	0.
8	4.	0.	12.	· O •	3 .	3.	0.	0 .	4 .	15.
9	0.	0.	1.	0.	6.	3.	10.	0.	4.	4.
TOT-BUZ	41.	38.	225.	212.	522.	. 176.	309.	41.	154.	90.
1 1	376.	189.	1028.	1093.	928.	640.	469.	107.	775.	517.
12	114.	22.	128.	142.	171.	20.	37.	0.	0.	103.
13	76.	93.	192.	184.	111.	106.	191.	28.	130.	241.
1 4	16.	21.	44.	97.	55.	60.	60.	1 .	59.	47.
15	27.	0.	70.	59.	118.	23.	0.	28.	12.	0.
1 6	19.	55.	156.	351.	123.	62.	36.	15.	15.	22.
17	55.	49.	402.	183.	394.	256.	65.	38.	225.	196.
18	28.	49.	41.	90.	135.	109.	30.	18.	95.	11.
19	16.	66.	61.	33.	80.	59.	80.	16.	129.	53.
50	0.	15.	0.	27.	30.	17.	39.	0.	0 .	40.
21	115.	59.	56.	92.	111.	16.	16.	0.	479.	343.
22	59.	0.	61.	78.	100.	64.	19.	26.	20.	43.
2.3	11.	92.	161.	120.	139.	68.	6 .	80.	180.	69.
24	67.	33.	184.	804.	199.	28.	127.	9 .	22.	16.
25	73.	127.	108.	154.	455.	412.	472.	25 .	306.	85.
26	16.	60.	82.	90.	302.	84.	144.	0 .	39.	33.
27	16.	95.	37.	127.	276.	0.	669.	50.	172.	120.
28	0.	26.	82.	9 .	30.	0.	50.	0.	43.	4.
29	358.	20.	132.	22.	205.	92.	172.	23.	479.	112.
30	126.	35.	69.	16.	113.	64.	120.	26.	43.	198.
31	110.	79.	35.	223.	105.	98.	167.	200	1310	2440
32	50.	14.	9.	0.	51 .	25.	7.	6.	102.	58.
33	0.	0.	0 .	0.	0.	0.	6.	0 .	0.	21.
3 4	25.	45.	98.	24.	11.	28. 173. 39.	76.	13.	153.	19.
35	48.	48.	119.	39.	92.	173.	136.	13.	128.	51.
36	69 .	126.	559.	260.	255.	370	259.	9.	162.	. 000
37	51.		151.	391.	256.	86.	338.	29.	178.	
38	0 .	10.	1 .	63.	1 .	18.	11.	0.	0.	22.
39	2.	24 .	45.	58.	45.	52.	138.	11.	2.	0.
40	26.	9.	7.	28.	2.	0.	184.	0.	0.	0.
41	2.	0.	26.	94.	28.	27.	13.	0.	0.	
42	28.	0.	112.	15.	47.	31.	0.	0 .	105.	0 .
43	0.	0.	20.	43.	7.	16.	11.	0.	27.	2.
44	0.	0 .	0.	0.	8.	20.	10.	0.		0.
45	0.	8.	0.	0.	18.	0.	24.	0.	4 · 5 ·	2.
46	0 •	0.	0.	21 «	0.	0.	11.	0.	, ,	0.0
47	0.	33.	35.	41.	83.	87.		30.	33.	43.
48	0.	22.	120.	143.	34.	2 .	37.	16.	13.	0 •
SUB-TOT	1979.		4431.	5214.	5118.	2882.	4231.	613.	4270.	2829,
TOTAL	2020.	1565.	4656.	5426.	5640.	3058.	4540.	654.	4424.	2919.

TABLE S=1

TOTAL TRIPS BY PASSENGER CAR, TRUCK AND TAXI DRIVERS FOR A 24-HOUR WEEKDAY IN JULY AND AUGUST OF 1990

SAULT STE MARIE

				DESTINATI		9	*	8.21	Q22	70/92
ORIGIN	31	32	33	34	35	36	37	38	39	40
1	9.	2.	0.	9.	18.	8.	13.	9.	10.	5.
2	9.	1.	0.	27.	40.	25.	36.	á.	12.	3.
3	13.	19.	1.	50.	29.	56.	46.	18.	24.	1 .
4	3.	0.	0.	2.	17.	18.	18.	16.	9.	4.
5	15.	7.	2.	9 .	80.	72.	34.	4 .	20.	2.
6	0.	0.	0.	1 •	2.	4.	0.	0.	1.	0.
7	0.	0.	0.	0.	2.	0.	9.	2.	0.	0.
8	. 0.	5. 0.	3 · 2 ·	64. 5.	3 · 5 ·	9.	3.	0. 3.	3. 2.	0.
			*							
SUB-TOT	52.	34.	8.	167.	196.	192.	159.	60.	81.	15.
11	420.	70.	26.	223.	686.	702.	1550.	179.	493.	14.
12	86.	39.	0.	105.	78.	184.	88.	9.	75.	10.
13	291.	18.	0.	52.	104.	203.	92.	A .	106.	18.
1 4 1 5	136.	14.	0.	29.	36 . 18 .	152. 233.	174. 67.	41.	50.	6.
	474		2	10	F.0	٥٤	201	27	51.	
16 17	174.	14.	13.	10. 115.	52. 193.	95。 340。	341. 358.	37. 7.	59.	12.
18	77.	0.	0.	23.	33.	110.	99.	0.	15.	12.
19	101.	79.	0.	34.	220.	39.	178.	0.	87.	0.
20	0.	16.	0.	А.	59.	57.	19.	8.	0.	0.
21	65.	104.	Ú.	22.	40.	69.	78.	0.	2.	26.
2.2	0.	22.	0.	45.	48.	126.	3.	10.	20.	9.
23 24	35.	9.	0.	31.	94. 51.	195。 82。	137.	41. 8.	38. 32.	8. 17.
25	144.	0. 17.	0.	13.	17.	273.	179.	1.	69.	6.
24	1.7	25.	0	2.0	55.	174.	71.	62.	11.	0.
26	47.		0.	28. 169.	136.	212.	79.	11.	58.	78.
27 28	167. 49.	7. 13.	6 · 0 ·	5.	130.	9.	49.	0.	11.	0.
29	125.	79.	25.	102.	123.	162.	121.	0.	2.	0.
30	197.	74.	0.	19.	51.	88.	15.	22.	0.	0.
31	79.	258.	0 .	75.	71.	122.	313.	28.	27.	3.
32	226.	100.	0.	19.	17.	0.	18.	0.	23.	7.
33	0.0	0 .	1.	0.	0 •	0.	0.	0.	18.	0.
34	44.	21.	2.	101.	429.	194.	25. 160.	0.	0.	0.
35 36	184.	17.	0.	481.	421 · 216 ·	395. 623.	76.	0.	61.	26.
							141	2.2		,
37	301.	18.	0 •	52.	299.	76.	891. 65.	46.	144.	7.
38 39	28. 30.	0. 23.	18.	0.	0 ·	56.	178.	73.	175.	25.
40	3.	7.	0.	0.	0.	26.	7.	6.	37.	0.
41		0.	0.	0.	40.	152.	50.	0.	14.	7.
42	49.	36,	0.	30.	0.	0.	243.	0.	69.	0.
43	0.	0.	0.	0.	95.	47.	61.	5.	13.	0.
44	24.	0.	0.	0.	0.	0.	0.	0.	1.	8.
45	0.	0.	٥.	2.	89.	8.	21.	0.	17.	0.
4.6	0.	0.	0.	0.	0 •	0.	0.	0.	0.	0.
47	24.	12.	0.	0.	19.	74.	22.	17.	18.	51.
48 .	28,	14.	0.	0.	46.	0.	149.	28.	74.	0.
SUBSTOT	3576,	1158.	91.	2011.	3884.	5270.	6230.	668.	2052.	416.
DI.									-	
TOTAL	3628.	1192.	99.	2178.	4080.	5470.	6389.	728.	2133.	431.

S=1 4 DF 5

SAULT STE MARIE

TABLE S=1

TOTAL TRIPS BY PASSENGER CAR, TRUCK AND TAXI DRIVERS FOR A 24-HOUR WEEKDAY IN JULY AND AUGUST OF 1990

TOTAL TRIPS	BY PASSENGE	R CAR, TRU	CK AND TAX	I DRIVERS	FOR A 24-	IDIR WEEKUA	A IN JULY	AND AUGII	21 111 1990	
ORIGIN	41	42	43	DFSTINATIO	NS 45	46	47	48	SUB-TOT	TOTAL
	4.3	9	4 .	5.	2	0.	10.	16.	799.	3467.
1 2	13.	8.	3.	2.	3 .	4.	5.	8.	1128.	1173.
3	3. 17.	10. 37.		1.	1 .	4.	5.	34.	3955.	6673.
4	20.	6.	15.	11.	1 .	3.	48.	17.	1108.	1208.
5	13.	22.	7.	5.	2.	1.	7.	29.	1994.	2115.
3	13.	220		< 0		**		276		21
6	1.	0.	0.	0.	0.	0.	0.	1.	59.	71.
. 7	2.	2.	1 .	0 .	0.	0.	0.	0.	43.	43.
8	5.	6.	0.	0 .	0.	0.	1 .	0.	228.	231.
9	1.	1.	S .	4.	2.	3.	6.	2.	105.	108.
SUB-INT	75.	92.	36.	25.	13.	. 15.	82.	107.	9419.	15089.
99	24.2	200	4.30	7.0	-	20	278.	532.	22213.	24197.
1 1 1 2	240.	222. 36.	132.	79. 13.	5.	30. 12.	28.	29.	2518.	4176.
13	47.	69.	0.	0.	0.	0.	118.	43.	5394.	5861.
14	72.	158.	14.	29.	23.	0.	0.	93.	3198.	3434.
15	9.	27.	7.	1.	0.	0.	15.	66.	2038.	2137 .
		2			* *					
16	52.	99.	6.	13.	0.	0.	71.	44.	4100.	4323.
17	30.	146.	55.	13.	12.	0.	86.	46.	6078.	6446.
18	29.	117.	36.	0.	6 .	0.	54.	12.	2420.	2543.
19	2.	184.	11.	0 .	0 •	0.	104.	94.	3245.	3413.
20	0.	11.	0 .	0.	0.	0.	0.	10.	485.	528.
21	2.	28.	0.	0.	0.	0.	0.	0.	2332.	2395.
22	0.	0.	0.	0.	8.	0.	33,	0. 26.	1322.	1377.
23	8.	159.	1.	0.	0.	0.	19.	84.	3693.	3962.
24	52.	37.	20.	0.	0.	20.	36.	110.	4396.	4588.
25	23.	32.	12.	15.	29.	0.	73.	2.	5170.	5539.
	1-0.00	10 2 0					2.6	20	2478	2011
26	27.	45.	16.	20.	0 •	0.	31.	20.	2678.	2911.
27	13.	0.	11.	10.	24.	11.	0.	37.	4119.	4439.
28	0.	0.	0.	0.	0.	0.	30.	16.	703.	751.
29	0.	37.	43.	4.	4 .	5.	33. 43.	13.	3976. 2165.	4216. 2269.
30 31	34.	86.	0.	24.	2.	0.	24.	28.	3703.	3786.
32	0.	36.	0.	0.	0.	0.	12.	29.	983.	1009.
33	0.	0.	0.	0.	0.	0.	0.	0.	58.	67.
34	0 .	30.	0.	0.	2.	0.	0 .	0 .	1853.	2028.
35	40.	0.	108.	0.	63.	0 .	43.	46 .	4017.	4207.
36	152.	277.	47.	0.	А.	0.	74.	0 .	5396.	5653,
37	10.	154.	93.	1 .	28.	0.	13.	119.	6556.	6752.
38	0.	0.	5.	0.	0.	0.	34.	18.	799.	882.
39	9.	2.	1.	0.	17.	0.	34.	86.	2081.	2179.
40	7.	0.	0.	8.	0.	0.	46.	0.	634.	656 .
41 .	16.	0 .	0.	0 .	0 .	0.	36.	32.	931.	1055.
Table 1		-	2.4				24	F 0	1007	4002
42	0.	0.	36.	24.	0.	0.	36. 9.	59. 7.	1827. 670.	1903.
43	0.	5. 9.	0	n . 6 .	96.	0.	9.	0.	276.	301.
45	0.	0.	97.	11.	0.	0.	0.	11.	359.	373.
46	0.	0.	0.	0.	0.	0.	0.	0.	68.	83.
	2000	A	120				222	2.E	* 212.2	
47 .	79.	47.	9.	9.	0 .	0.	262. 17.	17.	1660. 1662.	1740. 1778.
48	32.	41.	0.	0.	5.	0.	11.0	430	10020	11100
SUB-TOT	999.	2094.	774.	280.	343.	78.	1701.	1772.	115776.	124652.
					30					
TOTAL	1074.	2186.	810.	305.	356.	93.	1783.	1879.	125195.	139741.