

## TRAFFIC REPORT

JUNE of 1970

## STATE OF IOWA

SIBLEY
ORIGIN AND DESTINATION TRAFFIC REPORT

DATA GATHERED JUNE 1970
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PREPARED BY
HIGHWAY PLANNING SURVEYS DEPARTMENT DIVISION OF PLANNING IOWA STATE HIGHWAY COMMISSION IN COOPERATION WITH THE

UNITED STATES DEPARTMENT OF TRANSPORTATION FEDERAL HIGHWAY ADMINISTRATION

INTRODUCTION

This report is a summary of data gathered during an external origin and destination traffic survey made in Sibley in June, 1970. The survey, conducted in cooperation with the Federal Highway Administration, was made to determine the total number and type of vehicles entering or leaving the study area and to gather specific origin/destination data from a representative sample of vehicle operators.

This summary is intended to present the data in a manner which will implement the determination of traffic needs and provide a sound basis for street and highway planning.

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Study Area

Cordon Line

Interview Station

Code Station

Central Business District

Origin

Destination
Trip

Internal Trip

External Local Trip

External Through Trip

Traffic

Desire Line

The area enclosed by a coróon line of interview stations

A hypothetical line determined by the location of traffic interview stations and used to delimit the area under study

A location at which vehicle drivers are stopped and interviewed

A location on a street or highway at the point where it crosses the cordon line and at which traffic is counted but not interviewed

The major business district of a city
The location from which a d iver started a trip

The location at which a tri was ended
The one-way travel between point of origin and a point of desti ation

A trip having both origin a d destination within the study area

A trip having either origin or destination within the study are and which passed through only one int rview station in the cordon line nroute to its destination

A trip having neither origi: nor destination within the study area but which passes through it enroute tits destination

The total number of vehicle; passing a given point

A straight line between the point of origin and point of destina ion without regard to routes of travel


Significant Facts


Part One

FIGURE I-I

## DISTRIBUTION OF TRIPS <br> Sibley study area



The chart at left graphically illustrates some of the more significant traffic volumes derived from the Sibley origin and destination traffic survey. An average of 6,698 trips per day passed through the external cordon line line of interview stations surrounding the study area during the survey period.

2,228 trips or 33.26 percent of the total number of trips were between external areas and the central business district.

2,569 trips or 38.36 percent of the total number of trips were between external and internal areas exclusive of the central business district.

1,901 trips or 28.38 percent of the total number of trips were through trips which passed through Sibley enroute to another destination.

Of the total number of trips which passed through interview stations, 13.85 percent began or ended at work, 31.01 percent were for social or recreational purposes, 19.75 percent were during work, 15.95 percent were for personal business, 11.94 percent were for shopping, and the remaining 7.50 percent were for other purposes.

FIGURE 1-2
REGIONAL INFLUENCE OF THE SIBLEY STUDY AREA



Table 1-1

REGIONAL INFLUENCE OF THE SIBLEY STUDY AREA
1970 Average June Weekday Traffic

| Miles From Study Area |  | Number of Trips | Percent of Total Trips Within a Fifty-Mile Radius |
| :---: | :---: | :---: | :---: |
| $\begin{gathered} \text { c. } \\ \text { 40 } \\ \text { 云 } \end{gathered}$ | $0-10$ | 569 | 14.80 |
|  | 10-20 | -- | -- |
|  | 20-30 | -- | -- |
|  | $30-40$ | -- | -- |
|  | $40-50$ | -- | -- |
| North Total |  | 569 | 14.80 |
| + | $0-10$ | 594 | 15.44 |
|  | 10-20 | 369 | 9.59 |
|  | 20-30 | 17 | 44 |
|  | $30-40$ | 146 | 3.80 |
|  | $40-50$ | 21 | . 55 |
| East Total |  | 1,147 | 29.82 |
| 4003 | 0-10 | 578 | 15.03 |
|  | 10-20 | 96 | 2.49 |
|  | 20-30 | 92 | 2.39 |
|  | $30-40$ | 28 | . 73 |
|  | 40-50 | 1 | . 03 |
| West Total |  | 795 | 20.67 |
| ¢¢000 | 0-10 | 712 | 18.52 |
|  | 10-20 | 549 | 14.28 |
|  | 20-30 | 47 | 1.22 |
|  | 30-40 | 23 | . 60 |
|  | 40-50 | 4 | . 10 |
| South Total |  | 1,335 | 34.71 |
| Grand Total |  | 3,846 | 100.00 |

Table 1-2
Sibley Study Area Vehicle Type Summary

1970 Average June Weekday Traffic

| Station | Location | Passenger <br> Cars | Pickups <br> and <br> Panels | Single <br> Unit <br> Trucks | Truck <br> Combi- <br> nations | Total |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |

The totals shown above include the duplication of those trips which passed entirely througn the
study area and were, therefore, interviewed twice.


Development


Sibley is the county seat of Osceola County. Al hough organization was authorized in 1851 by the Iowa General As embly, it was not until 1871 that population had grown enough $t$ constitute the county as a legal entity. The county after Osceola, a chief of Florida's Seminole Indians.

Osceola County in its earliest days incurred a dibt of some $\$ 20,000$, a sizeable sum in those days, due to financi 1 maneuvering by early officials. Several projects were undert ken with financing to come from the sale of swamplands under tie Federal Swamplands Act. Insufficient income from swamplands :o pay for projects, evidence of misappropriation of public fund; vate pockets, and blatant conflicts of interest led t of the officials involved.

First platted in 1871 by the Sioux City and St. \}aul Railroad, Sibley was first named Cleghorn. When it was d:scovered that there was already a town by that name in Iowa, tle name was changed to Sibley.

For a while Sibley bid fair to be a railroad towı railroad. Formed in 1865, for the purpose of linking and St. Paul, the railroad had trouble obtaining land would not grant land to an Iowa based railroad and Iova grant land to a Minnesota based railroad. The problem when the company incorporated in Iowa as the Sioux City and St. Paul Railroad and in Minnesota as the St. Paul and Sioux City Railroad. When the lines met at the Iowa - Minnesota porder the link was completed. The railroad was completed throucin Sibley in 1872. It was the first of three railroads which woulc serve the town. In 1884 the Burlington, Cedar Rapids, and Nortlern completed its line to Sibley. Six years later, in 1890, the Chi zago, Rock Island, and Pacific Railroad finished construction of trackage to Sibley.

Sibley became the county seat in 1872. The first courthouse was completed that same year. Incorporation came in 3.376 with D. L. Riley elected first mayor.

The first school in Sibley was begun in the middle 1870 's. Today the Sibley Community School system includes two elementary schools and a central school which includes both junic: high and senior high classes. The system is fully accredited e $2 d$ offers a full range of curricular and extra-curricular activities.

A municipal water works and sewer system, completed in 1900 , was the first utility in Sibley. Completion of an electrical power plant came in 1914. Electricity, water and sewage treatment are still supplied to Sibley residents by municipal utility facilities. Natural Gas Service is supplied by Iowa Electric Light and Power Co.

Fire protection in Sibley is supplied by a volunteer firefighting force of 20 men. Equipment includes two fire trucks, a tank truck, and an emergency unit. Police protection is supplied by four full time officers and one part time officer.

Mass media bringing information to Sibley residents include one radio station and one newspaper. The radio station is a branch of Station KIWA in Sheldon. The newspaper, The Sibley Gazette Tribune, was founded in 1872 by L. A. Bank. The paper is published on Tuesday and Thursday.

Sibley has had a public library since 1895, when a Dr. Neill proposed a monetary subscription to start one. In 1917 the library was enlarged and improved with a Carnegie grant.

Sibley is served by Iowa Highway 60 to the north and south. Iowa Highway 9 located approximately 2 miles to the north of Sibley provides east-west highway facilities. In addition, a network of paved county roads connects Sibley with the surrounding area.

> Population Trends
> Sibley Population

Table 2-1

| Census <br> Year | Sibley <br> Population | Volume Increase <br> or Decrease | Percent <br> lo Year |
| :---: | :---: | :---: | :---: |
| 1900 | 1,289 | -- | 3.1 |
| 1910 | 1,330 | 41 | 35.5 |
| 1920 | 1,803 | 473 | 3.7 |
| 1930 | 1,870 | 67 | 25.9 |
| 1940 | 2,356 | 486 | 8.6 |
| 1950 | 2,559 | 203 | 11.4 |
| 1960 | 2,852 | 293 | -3.6 |
| 1970 | 2,749 | -103 |  |

Osceola County Population
Table 2-2

| Census <br> Year | Osceola Co. <br> Population | Volume Increase <br> or Decrease | Percent <br> lo Yearge |
| :---: | :---: | :---: | :---: |
| 1880 | 2,219 | -- | 151.1 |
| 1890 | 5,574 | 3,355 | 56.5 |
| 1900 | 8,725 | 3,151 | 2.6 |
| 1910 | 8,956 | 231 | 14.1 |
| 1920 | 10,223 | 1,267 | -.4 |
| 1930 | 10,182 | -41 | 4.1 |
| 1940 | 10,607 | 425 | -4.0 |
| 1950 | 10,181 | -426 | -1.1 |
| 1960 | 10,064 | -117 | -14.9 |
| 1970 | 8,555 | $-1,509$ |  |

Figure 2-1
population Trends


Table 2-3
Motor Vehicle Registration in Osceola County 1949 - 1969

| Year | Autos | Trucks | Motorcycles | Total | Percent Change |
| :---: | :---: | :---: | :---: | :---: | :---: |
| 1949 | 3,716 | 833 | 56 | 4,605 | -- |
| 1950 | 3,881 | 934 | 46 | 4,861 | 5.56 |
| 1951 | 3,846 | 964 | 43 | 4,853 | -. 16 |
| 1952 | 3,710 | 997 | 33 | 4,740 | -2.33 |
| 1953 | 3,862 | 1,082 | 30 | 4,974 | 4.94 |
| 1954 | 3,909 | 1,121 | 29 | 5,059 | 1.68 |
| 1955 | 4,031 | 1,190 | 35 | 5,256 | 3.89 |
| 1956 | 3,984 | 1,187 | 48 | 5,219 | -. 70 |
| 1957 | 3,962 | 1,187 | 44 | 5,193 | -. 50 |
| 1958 | 4,005 | 1,219 | 55 | 5,279 | 1.66 |
| 1959 | 4,091 | 1,238 | 55 | 5,384 | 1.99 |
| 1960 | 4,074 | 1,212 | 50 | 5,336 | -. 89 |
| 1961 | 4,089 | 1,180 | 51 | 5,320 | -. 30 |
| 1962 | 4,286 | 1,238 | 72 | 5,596 | 5.19 |
| 1963 | 4,307 | 1,263 | 81 | 5,651 | . 98 |
| 1964 | 4,390 | 1,317 | 95 | 5,802 | 2.67 |
| 1965 | 4,499 | 1,390 | 98 | 5,987 | 3.19 |
| 1966 | 4,492 | 1,479 | 107 | 6,078 | 1.52 |
| 1967 | 4,430 | 1,533 | 130 | 6,093 | . 25 |
| 1968 | 4,420 | 1,603 | 149 | 6, 172 | 1.30 |
| 1969 | 4,303 | 1,641 | 182 | 6,126 | - . 75 |

Number of Registrations


FIGURE 2-3
STUDY AREA POSITION


I
1


## THE SURVEY

An external origin and destination traffic survel, of the type conducted in Sibley, is designed to determine the number and type of vehicles entering or leaving the study are:a in a given period of time and their origins, destinations a $2 d$ purposes of travel.

Travel, as an expression of behavior, tends to bt repetitive. This repetition enables statisticians and highway plarners to expand and project current data to predict future neers.

Information upon which to base an analysis is gatnered by interviewing vehicle drivers at strategically located interview stations. A cordon line composed of interview statiors and code stations was located around the perimeter of the study area. Interview stations were located on all major roads entering the study area. All other roads were assigned station cocle numbers to facilitate organization of interview data for trips which passed through only one interview station. The study area was divided into nine tracts and all trips which had either origin or destination within the study area were traced to ore of these tracts.

Interviewing for the Sibley survey was done between June 11 and 17, 1970. All vehicles passing through interview stations during a l5-hour period from $6 \mathrm{a} . \mathrm{m}$. to $9 \mathrm{p} . \mathrm{m}$ were stopped briefly for interviews. Information was recouded on the following items:

1. Origin of the trip
2. Destination of the trip
3. Purpose of the trip
4. Location where vehicle was normally parled
or garaged
5. Place of registration
6. Direction of travel
7. Number of occupants

Mechanical traffic recorders placed at each inte:view station were operated continuously for five weekdays includin the day on which interviewing was done. Manual vehicle classifi:ation counts were also taken. Data from both types of counts was sed to expand the interview data to 24 hour average June wee day traffic.

At the conclusion of field work, trip data was coded and punched on tabulation cards. The cards were then computer sorted and tabulated according to tract of origin or destination and the station or stations through which each trip passed.

In an external survey of this type, all trips are placed into two main categories, "external local trips" and "external through trips." External local trips have only one terminal (either origin or destination) within the study area and pass through only one interview station enroute to their destination. External through trips have neither origin nor destination within the study area, but pass through it enroute to their destination. These trips must cross the cordon line at least twice.

Traffic flow charts indicating trip termini by tract of origin/destination are included in this report along with desire line charts showing desired routes of travel in straight lines between interview stations and internal tracts.


## $7 r a f f i c$ Movements



The following traffic flow charts illustuate the internal dispersion of trips between poin :s of origin and/or destination through the stations indicated. These charts are not intended to show exact routes, but rather to show trip volume lyy tract of origin or destination and the number of trips passing through each external interview station. Trip origins and destinations are not differentiated and the tract or station total: shown include both origins and destinations.


LEGEND
TRACT BOUNDARY LINE - - - -

GRAPHIC SCALE


1970 AVERAGE JUNE WEEKDAY TRAFFIC

FIGURE 4-1
INTERNAL DISPERSION OF
ALL VEHICULAR TRIPS PASSING THROUGH
STATION 7OI-IOWA 60 NORTH
OF THE
SIBLEY STUDY AREA
(ALL TRIPS BY DRIVERS OFAUTOS, TRUCKS, TAXIS AND BUSES)



LEGEND
TRACT BOUNDARY LINE —————


1970 AVERAGE JUNE WEEKDAY TRAFFIC

FIGURE 4-3
INTERNAL DISPERSION OF
ALL VEHICULAR TRIPS PASSING THROUGH STATION 703 - COUNTY ROAD A-22 EAST OF THE

SIBLEY STUDY AREA
(ALL TRIPS BY DRIVERS OF AUTOS TRUCKS TAXISAND BUSES)



FIGURE 4-5
INTERNAL DISPERSION OF
ALL VEHICULAR TRIPS PASSING THROUGH
STATION 706 - IOWA 60 SOUTH
OF THE
SIBLEY STUDY AREA
(ALL TRIPS BY DRIVERS OF AUTOS TRUCKS TAXISAND BUSES)



LEGEND


1970 AVERAGE JUNE WEEKDAY TRAFFIC

FIGURE 4-7
INTERNAL DISPERSION OF
ALL VEHICULAR TRIPS PASSING THROUGH STATION 708 - COUNTY ROAD A-22 WEST OF THE

## SIBLEY STUDY AREA

(ALL TRIPS BY DRIVERS OFAUTOS TRUCKS TAXIS AND BUSES)

$6-\square$ 3yกำ




LEGEND
TRACT BOUNDARY LINE
CORPORATION LINE
$\qquad$

FIGURE 4-II
DESIRE LINES OF TRAVEL OF TRIPS TO OR FROM EXTERNAL ENTRANCES OF THE SIBLEY STUDY AREA

AND
INTERNAL TRACTS

## EXTERNAL TRIP TERMINI

Table 4-1 on the adjoining page shows a tabula ion of the number and percent of those trips which had ter ini in Osceola County, rural areas adjacent to the study a ea, other counties in Iowa, and other states.

The following traffic flow charts illustrate te data shown in Table 4-1 and point out the Iowa termini of all trips which passed through the Sibley study area at the time of the survey. Figure $4-12$ shows the external termini of all trips which originated or terminated beyond sceola County. Those trips which had termini in other states are shown entering or leaving Iowa on routes which appe r to be most direct to the study area. Figure 4-13 is a co tinuation of Figure 4-12 and shows the external termini of those trips which originated or terminated in Osceola County beyond the cordon line surrounding the study area. All routes shown are approximate and should be interpreted as such.

Table 4-1
Summary of Trips Entering or Leaving The Sibley Study Area

1970 Average June Weekday Traffic

|  | $\begin{aligned} & \text { Iowa } 60 \\ & \text { North } \end{aligned}$ |  | Co. Rd. L-40North |  | $\text { Co. } \begin{aligned} & \text { Rd. A-22 } \\ & \text { East } \end{aligned}$ |  |  |  | Iowa 60 South |  | Local Road West |  | Co. Rd. A-22 <br> West |  | Co. Rd. L-36 |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Station 701 |  | Station 702 |  | Station 703 |  | Station 704 |  | Station 706 |  | Station 707 |  | Station 708 |  | Station 709 |  |
|  | Vol. | \% | Vol. | \% | Vol. | \% | Vol. | \% | Vol. | \% | Vol. | \% | Vol. | \% | Vol. | \% |
| Allendorf | 10 | . 40 | 11 | 1.92 | 150 | 18.50 |  |  |  |  |  |  |  |  |  |  |
| Ashton | 2 | . 08 |  |  | 4 | . 49 | 47 | 7.54 | 514 | 16.86 |  |  | 3 | . 65 |  |  |
| Harris | 34 | 1.35 | 4 | . 70 | 20 | 2.47 | 3 | . 48 | 1 | . 03 |  |  |  |  | 1 | . 24 |
| Melvin | 1 | . 04 | 1 | . 18 | 56 | 6.90 | 134 | 21.51 | 6 | . 20 |  |  |  |  |  |  |
| Ocheyedan | 64 | 2.55 | 32 | 5.58 | 267 | 32.92 | 14 | 2.25 | 1 | . 03 |  |  |  |  | 1 | . 24 |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
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|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Total to Towns | 111 | 4.42 | 48 | 8.38 | 497 | 61.28 | 198 | 31.78 | 522 | 17.12 |  |  | 3 | . 65 | 2 | . 48 |
| Rural Osceola Co. | 226 | 9.00 | 185 | 32.29 | 194 | 23.92 | 293 | 47.03 | 327 | 10.72 | 145 | 97.97 | 194 | 42.08 | 231 | 54.87 |
| Other Counties | 379 | 15.09 | 72 | 12.56 | 111 | 13.69 | 129 | 20.71 | 1,693 | 55.53 | 3 | 2.03 | 223 | 48.37 | 103 | 24.46 |
| Other States | 1,795 | 71.49 | 268 | 46.77 | 9 | 1.11 | 3 | . 48 | 1, 507 | 16.63 |  |  | 41 | 8.90 | 85 | 20.19 |
| Grand Total | 2,511 | 100.00 | 573 | 100.00 | 811 | 100.00 | 623 | 100.00 | 3,049 | 100.00 | 148 | 100.00 | 461 | 100.00 | 421 | 100.00 |

FIGURE 4-12
DISPERSION OF EXTERNAL TRIPS
BETWEEN THE SIBLEY STUDY AREA
AND POINTS IN IOWA BEYOND OSCEOLA COUNTY


FIGURE 4-I3
DISPERSION OF EXTERNAL TRIPS
between the sibley study area
AND POINTS WITHIN OSCEOLA COUNTY

ALL TRIPS BY DRIVERS OF AUTOS, TRUCKS, TAXIS, AND BUSES


## GRAPHIC SCALE



1970 AVERAGE JUNE WEEKDAY TRAFFIC

LEGEND


TRAFFIC THROUGH INTERVIEW STATIONS

STATION 708 - CO. ROAD A-22 WEST
STATION $702-$ CO. ROAD L-40 NORTH
-——— STATION 702 - CC. ROAD L-40 NORTH
---.-STATION To6-10WA 60 SOUTH

- STATION 703 - CO. ROAD A-z2 EAST
--- station tot - Local road west

FIGURE 4－14
TRAFFIC VOLUMES ON RURAL PRIMARY HIGHWAYS

IN OSCEOLA COUNTY


## 

COUNTY LINE． $\qquad$


FIGURE 4-I5
TRAFFIC VOLUMES ON PRIMARY ROAD EXTENSIONS AND MAJOR STREETS SIBLEY STUDY AREA

1970 AVERAGE JUNE WEEKDAY TRAFFIC
LEGEND
0 TO 1500 TRIPS
1500 TO 3000 TRIPS
3000 AND
3000 AND OVER
CORDON LINE--------
CORPORATION LINE-•---


## Apperdix



SIBLEY STUDY AREA
TRIP PURPOSE OF EXTERNAL TRIPS
（ALL VEHICLE TYPES）
1970 AVERAGE JUNE WEEKDAY TRAFFIC

External Local Trips


External Through Trips

|  | 701 | 702 | 703 | 704 | 706 | 707 | 708 | 709 |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  |  |  |  |  |  |  |  |  |
| Work | 84 | 8 | 14 | 4 | 85 | 1 | 10 | 5 | 211 |
| Personal Business | 196 | 7 | 8 | 6 | 195 | 1 | 8 | 4 | 425 |
| During Work | 429 | 4 | 22 | 4 | 447 | 3 | 11 | 7 | 927 |
| Medical or Dental | 7 | 1 | 1 | 1 | 6 | 1 | 1 |  | 18 |
| School | 21 |  | 2 |  | 23 | 1 |  |  | 47 |
| Social or Recreation | 923 | 18 | 36 | 24 | 953 | 4 | 25 | 15 | 1，998 |
| Eat | 15 |  |  | 1 | 17 |  | 2 |  | 35 |
| Shop | 43 | 2 | 6 | 4 | 42 | 2 | 2 | 2 | 103 |
| Serve <br> Passengers | 16 | 1 | 1 |  | 16 | 1 | 1 |  | 36 |
| Total Traffic | ，734 | 41 | 90 | 44 | 1，784 | 14 | 60 | 33 | 3，800 |

Surmary－All External Trips

| station | 701 | 702 | 703 | 704 | 706 | 707 | 708 | 709 |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  |  |  |  |  |  |  |  |  |
| Work | 188 | 83 | 119 | 113 | 324 | 14 | 103 | 89 | 1，033 |
| $\begin{array}{\|l} \hline \begin{array}{l} \text { Personal } \\ \text { Business } \end{array} \\ \hline \end{array}$ | 366 | 105 | 133 | 123 | 397 | 22 | 70 | 64 | 1，280 |
| Work | 629 | 54 | 128 | 89 | 706 | 33 | 61 | 86 | 1，786 |
| $\begin{array}{\|l} \hline \begin{array}{l} \text { Medical } \\ \text { Dental } \end{array} \\ \hline \end{array}$ | 18 | 10 | 18 | 15 | 46 | 1 | 12 | 25 | 145 |
| School | 28 | 18 | 17 | 19 | 48 | 2 | 1 | 1 | 134 |
|  | 1.097 | 212 | 212 | 131 | 1，189 | 35 | 129 | 71 | 3.076 |
| Eat | 22 | 7 | 10 | 4 | 61 |  | 7 | 10 | 121 |
| Shop | 141 | 58 | 157 | 116 | 219 | 39 | 60 | 61 | 851 |
| Serve Passengers | 22 | 26 | 17 | 13 | 59 | 2 | 18 | 14 | 171 |
| Total Traffic | 2，511 | 573 | 811 | 623 | 3，049 | 148 | 461 | 421 | 8，597 |

SIBLEY STUDY AREA

## AVERAGE CAR OCCUPANCY BY TRIP PURPOSE

1970 average june weekday traffic

Table B-3a(1)
External Local Trips

|  | Trip Purpose - Destination |  |  |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| $\begin{gathered} \text { Trip } \\ \text { purpose } \\ \text { oriqgin } \\ \text { origin } \end{gathered}$ | work | $\begin{aligned} & \begin{array}{l} \text { Personal } \\ \text { Busines } \end{array} \end{aligned}$ | $\begin{array}{\|c} \hline \text { Dur ing } \\ \text { work } \end{array}$ | $\begin{aligned} & \text { Nedical } \\ & \text { None } \\ & \text { ental } \end{aligned}$ | school | $\begin{gathered} \text { Social } \\ \text { or } \\ \text { Recreation } \end{gathered}$ | Eat | shop | $\begin{aligned} & \text { serve } \\ & \text { pass. } \end{aligned}$ | нome | $\begin{array}{\|l\|} \hline \text { Average } \\ \text { occupance } \\ \hline \end{array}$ |
| work |  | 1.244 | 1.000 |  |  | 1.852 | 1.485 | 1.000 | 3.400 | 1.313 | 1.357 |
| $\begin{array}{\|l\|} \hline \text { Personal } \\ \text { Business } \\ \hline \end{array}$ | 1.182 | 1.810 |  | 1.000 | 4.000 | 2.724 | 2.028 | 1.561 |  | 1.442 | 1.596 |
| During work | 1.250 | 2.000 | 1.228 |  |  | 1.000 |  | 1.000 |  | 1.194 | 1.227 |
| $\begin{gathered} \text { Medical or } \\ \text { Dental } \end{gathered}$ |  | 1.000 |  |  |  |  |  | 3.000 |  | 2.449 | 2.428 |
| school |  |  | 2.000 |  | 3.696 |  |  |  | 4.000 | 1.321 | 2.353 |
| Soctal or Recreation | 1.268 | 1.625 |  | 3.000 |  | 2.151 | 1.334 | 3.173 | 4.000 | 2.248 | 2.201 |
| Eat | 2.000 | 3.000 |  |  |  | 2.137 |  | 2.000 |  | 2.142 | 2.156 |
| shoo | 2.000 | 1.597 |  | 6.000 |  | 2.235 | 3.000 | 2.554 | 3.000 | 1.970 | 2.009 |
| Serve <br> Passengers |  | 4.000 |  |  | 4.000 | 3.000 |  | 5.436 |  | 3.255 | 3.405 |
| Home | 1.352 | 1.597 | 1.251 | 2.489 | 2.498 | 2.370 | 1.669 | 2.062 | 3.098 |  | 1.979 |
| $\begin{aligned} & \hline \text { Average } \\ & \text { Occupancy } \end{aligned}$ | 1.353 | 1.608 | 1.223 | 2.543 | 2.955 | 2.348 | 1.678 | 2.091 | 3.158 | 1.840 | 1.893 |

Table B-3a (2)
External Through Trips

|  | Trip Purpose - Destination |  |  |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| $\begin{gathered} \text { Trip } \\ \substack{\text { Turpose } \\ \text { origin }} \end{gathered}$ | work | $\begin{array}{\|l\|} \hline \begin{array}{l} \text { Personal } \\ \text { Business } \end{array} \end{array}$ | $\begin{gathered} \hline \text { During } \\ \text { work } \end{gathered}$ | $\begin{gathered} \text { Medical } \\ \text { or } \\ \text { Dental } \end{gathered}$ | school | $\begin{gathered} \text { Social } \\ \text { or } \\ \text { Recreation } \end{gathered}$ | Eat | shop | $\begin{aligned} & \text { serve } \\ & \text { pass. } \end{aligned}$ | ноme |  |
| work |  | 1.459 | 1.794 |  |  | 1.000 | 1.000 | 2.000 |  | 1.563 | 1.568 |
| $\begin{aligned} & \text { Personal } \\ & \text { Business } \end{aligned}$ | 1.000 | 2.313 | 3.022 |  |  | 3.863 |  |  |  | 1.877 | 2.056 |
| During Work |  |  | 1.230 |  |  |  |  |  |  | 1.090 | 1.220 |
| $\begin{gathered} \text { Medical or } \\ \text { Dental } \end{gathered}$ |  |  |  |  |  | 1.000 |  |  |  | 1.777 | 1.540 |
| School |  |  |  |  |  | 2.000 |  |  |  | 1.532 | 1.557 |
| Soctal or <br> Recreation |  | 3.108 |  |  | 5.000 | 2.718 | 3.244 | 3.127 | 2.670 | 2.722 | 2.739 |
| Eat | 2.000 | 1.718 |  |  |  | 2.871 |  | 3.000 |  | 2.492 | 2.438 |
| Shos |  | 1.000 |  |  |  | 2.000 |  |  |  | 2.192 | 2.112 |
| $\begin{aligned} & \text { Serve } \\ & \text { Passengers } \end{aligned}$ |  |  |  |  |  |  |  |  |  | 2.575 | 2.575 |
| Home | 1.669 | 1.264 | 1.712 | 2.596 | 1.247 | 2.810 | 1.767 | 2.326 | 2,824 |  | 2.547 |
| $\begin{aligned} & \text { Average } \\ & \text { Occupancy } \end{aligned}$ | 1.669 | 2.058 | 1.320 | 2.596 | 1.468 | 2.792 | 2.344 | 2.487 | 2.791 | 2.456 | 2.446 |

Table B-3a (3)
Summary - All External Trips

|  | Trip Purpose - Destination |  |  |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| $\begin{gathered} \text { Trip } \\ \substack{\text { Purpose } \\ \text { Purigin } \\ \text { Origin }} \\ \hline \end{gathered}$ | work | $\begin{aligned} & \text { Personal } \\ & \text { Business } \end{aligned}$ | $\begin{gathered} \text { Daring } \\ \text { Work } \end{gathered}$ | $\begin{array}{\|l\|l\|} \hline \begin{array}{l} \text { Medical } \\ \text { Dental } \end{array} \\ \hline \end{array}$ | school | $\begin{array}{\|c\|} \hline \begin{array}{c} \text { Social } 1 \\ \text { Recreation } \end{array} \\ \hline \end{array}$ | Eat | Shop | $\begin{aligned} & \text { Serve } \\ & \text { Pass. } \end{aligned}$ | Home | $\begin{array}{\|l\|} \hline \text { Average } \\ \text { Occupancy } \\ \hline \end{array}$ |
| Work |  | 1.268 | 1.161 |  |  | 1.800 | 1.432 | 1.298 | 3.400 | 1.336 | 1.377 |
| $\begin{array}{\|l\|} \hline \text { Personal } \\ \text { Business } \\ \hline \end{array}$ | 1.168 | 1.965 | 3.022 | 1.000 | 4.000 | 2.877 | 2.028 | 1.561 |  | 1.528 | 1.683 |
| During work | 1.250 | 2.000 | 1.228 |  |  | 1.000 |  | 1.000 |  | 1.157 | 1.225 |
| Medical or <br> Denta |  | 1.000 |  |  |  | 1.000 |  | 3.000 |  | 2.430 | 2.394 |
| school |  |  | 2.000 |  | 3.696 | 2.000 |  |  | 4.000 | 1.386 | 2.189 |
| Social or Recreation | 1.268 | 2.117 |  | 3.000 | 5.000 | 2.534 | 2.097 | 3.153 | 3.199 | 2.490 |  |
| Eat | 2.000 | 2.005 |  |  |  | 2.461 |  | 2.334 |  | 2.216 | 2.253 |
| shop | 2.000 | 1.539 |  | 6.000 |  | 2.229 | 3.000 | 2.554 | 3.000 | 1.984 | 2.015 |
| $\begin{aligned} & \begin{array}{l} \text { serve } \\ \text { Passenger } \end{array} \\ & \text { Pass } \end{aligned}$ |  | 4.000 |  |  | 4.000 | 3.000 |  | 5.436 |  | 3.207 | 3.355 |
| Home | 1.387 | 1.675 | 1.419 | 2.500 | 2.216 | 2.572 | 1.677 | 2.078 | 3.069 |  | 2.133 |
| $\begin{aligned} & \hline \text { Average } \\ & \text { Occupancy } \end{aligned}$ | 1.387 | 1.708 | 1.250 | 2.549 | 2.711 | 2.557 | 1.759 | 2.121 | 3.116 | 2.002 | 2.048 |


| VEHICLE TRIPS |  |  |  |  |  |  | VEHICLE TRIPS |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| From | To | Auto | $\begin{aligned} & \text { Pickup } \\ & \text { and } \\ & \text { Panel } \end{aligned}$ | $\begin{aligned} & \text { Single } \\ & \text { Unit \& } \\ & \text { Bus } \end{aligned}$ | Semi <br> Truck | Total | From | To | Auto | $\begin{aligned} & \text { Pickup } \\ & \text { and } \\ & \text { Panel } \end{aligned}$ | $\begin{array}{\|l\|} \hline \text { Singl } \\ \text { Unit } \\ \text { Bus } \\ \hline \end{array}$ | Semi Truck | Total |
| 1 | 701 | 139 | 33 | 21 | 2 | 195 | 1 | 707 | 14 | 15 | 4 |  | 33 |
| 2 | 701 | 3 |  |  |  | 3 | 3 | 707 | 5 |  |  |  | 5 |
| 3 | 701 | 70 | 11 | 6 | 1 | 88 | 5 | 707 | 3 | 1 | 1 |  | 5 |
| 4 | 701 | 5 |  |  |  | 5 | 6 | 707 | 2 |  |  |  | 2 |
| 5 | 701 | 18 | 4 | 4 | 1 | 27 | 7 | 707 | 3 | 1 | 2 |  | 6 |
| 6 | 701 | 46 | 10 | 4 |  | 60 | 8 | 707 |  | 5 |  |  | 5 |
| 7 | 701 | 21 | 3 | 4 |  | 28 | C1. 2 | Total | 27 | 22 | 7 |  | 56 |
| 8 | 701 | 4 | 3 | 4 |  | 11 |  |  |  |  |  |  |  |
| Cl. 2 <br>  <br>  <br>  <br>  <br>  <br>  <br> 1 <br> 3 <br> 4 <br> 5 <br> 6 <br> 7 <br> 8 <br> Cl. | Total | 306 | 64 | 43 | 4 | 417 |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  | 1 | 708 | 71 | 16 | 7 | 1 | 95 |
|  |  |  |  |  |  |  | 2 | 708 |  | 4 |  |  | 4 |
|  | 702 | 35 | 14 | 6 |  | 55 | 3 | 708 | 20 |  |  |  | 20 |
|  | 702 | 58 | 23 |  |  | 81 | 4 | 708 | 3 |  |  |  | 3 |
|  | 702 | 1 |  |  |  | 1 | 5 | 708 | 18 | 2 |  |  | 20 |
|  | 702 | 8 |  |  |  | 8 | 6 | 708 | 22 | 2 | 1 |  | 25 |
|  | 702 | 56 | 3 |  |  | 59 | 7 | 708 | 16 | 3 | 2 |  | 21 |
|  | 702 | 48 | 1 |  |  | 49 | 8 | 708 | 1 | 1 |  |  | 2 |
|  | 702 | 3 |  |  |  | 3 | C1. 2 | Total | 151 | 28 | 10 | 1 | 190 |
|  | Total | 209 | 41 | 6 |  | 256 |  |  |  |  |  |  |  |
| Cl. 2 | 703 | 135 | 24 | 11 | 2 | 172 | 1 | 709 | 63 | 24 | 17 |  | 104 |
|  | 703 | 1 |  |  |  | 1 | 2 | 709 | 3 | 3 |  |  | 6 |
|  | 703 | 38 | 5 | 1 |  | 44 | 3 | 709 | 11 | 1 |  |  | 12 |
|  | 703 | 6 | 2 | 1 |  | 9 | 4 | 709 | 1 |  |  |  | 1 |
|  | 703 | 68 | 5 | 3 |  | 76 | 5 | 709 | 11 | 5 | 3 |  | 19 |
|  | 703 | 25 | 10 | 2 |  | 37 | 6 | 709 | 44 | 5 |  |  | 49 |
|  | 703 | 3 | 3 | 1 | 2 | 9 | 7 | 709 | 3 | 1 |  |  | 4 |
| Cl. 2 | Total | 276 | 49 | 19 | 4 | 348 | 8 | 709 | 1 | 2 |  |  | 3 |
|  |  |  |  |  |  |  | C1.2 | Total | 137 | 41 | 20 |  | 198 |
| 1 | 704 | 93 | 35 | 7 |  | 135 |  |  |  |  |  |  |  |
| 2 | 704 | 3 | 1 |  |  | 4 |  |  |  |  |  |  |  |
| 3 | 704 | 16 | 4 |  |  | 20 | 701 | 1 | 130 | 30 | 27 | 1 | 188 |
| 4 | 704 | 4 |  |  |  | 4 | 701 | 2 | 7 | 1 |  |  | 8 |
| 5 | 704 | 17 | 1 | 1 |  | 19 | 701 | 3 | 34 | 11 | 4 |  | 49 |
| 6 | 704 | 64 | 10 | 9 |  | 83 | 701 | 4 | 1 | 2 |  |  | 3 |
| 7 | 704 | 7 | 2 |  | 8 | 17 | 701 | 5 | 17 | 8 | 2 | 3 | 30 |
| 8 | 704 | 4 | 3 | 4 |  | 11 | 701 | 6 | 49 | 7 | 3 |  | 59 |
| 9 | 704 | 1 |  |  |  | 1 | 701 | 7 | 13 | 1 |  | 1 | 15 |
| C1.2 | Total | 209 | 56 | 21 | 8 | 294 | 701 | 8 | 2 | 5 | 1 |  | 8 |
|  |  |  |  |  |  |  | Cl. 3 | Total | 253 | 65 | 37 | 5 | 360 |
| 1 | 706 | 192 | 41 | 38 | 6 | 277 | 702 | 1 | 69 | 9 | 4 |  | 82 |
| 2 | 706 | 1 |  |  |  | 1 | 702 | 2 | 1 |  |  |  | 1 |
| 3 | 706 | 73 | 14 | 2 |  | 89 | 702 | 3 | 45 | 6 |  |  | 51 |
| 4 | 706 | 15 | 5 |  |  | 20 | 702 | 4 | 6 | 2 |  |  | 8 |
| 5 | 706 | 45 | 17 | 6 |  | 68 | 702 | 5 | 6 |  | 3 |  | 9 |
| 6 | 706 | 129 | 13 | 8 | 1 | 151 | 702 | 6 | 61 | 7 |  | 4 | 72 |
| 7 | 706 | 45 | 10 | 5 |  | 60 | 702 | 7 | 42 | 3 | 4 |  | 49 |
| 8 | 706 | 6 | 5 |  |  | 11 | 702 | 8 |  | 2 | 2 |  | 4 |
| C1. 2 | Total | 506 | 105 | 59 | 7 | 677 | C1.3 | Total | 230 | 29 | 13 | 4 | 276 |




TABLE E-2
SIBLEY STUDY AREA NONDIRECTIONAL TRIPS BETWEEN STATIONS AND TRACTS 1970 AVERAGE JUNE WEEKDAY TRAFFIC

| VEHICLE TRIPS |  |  |  |  |  |  | VEHICLE TRIPS |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| From | To | Auto | $\begin{aligned} & \text { Pickup } \\ & \text { and } \\ & \text { Panel } \end{aligned}$ | $\begin{aligned} & \text { Single } \\ & \text { Unit \& } \\ & \text { Bus } \end{aligned}$ | Semi Truck | Total | From | To | Auto | $\begin{aligned} & \text { Pickup } \\ & \text { and } \\ & \text { Panel } \end{aligned}$ | Single Unit \& Bus | Semi Truck | Total |
| 701 | 1 | 269 | 63 | 48 | 3 | 383 | 707 | 1 | 33 | 51 | 7 |  | 91 |
| 701 | 2 | 10 | 1 |  |  | 11 | 707 | 3 | 10 |  |  |  | 10 |
| 701 | 3 | 104 | 22 | 10 | 1 | 137 | 707 | 4 | 2 |  |  |  | 2 |
| 701 | 4 | 6 | 2 |  |  | 8 | 707 | 5 | 5 | 1 | 2 |  | 8 |
| 701 | 5 | 35 | 12 | 6 | 4 | 57 | 707 | 6 | 7 | 1 |  |  | 8 |
| 701 | 6 | 95 | 17 | 7 |  | 119 | 707 | 7 | 6 | 1 | 3 |  | 10 |
| 701 | 7 | 34 | 4 | 4 | 1 | 43 | 707 | 8 |  | 5 |  |  | 5 |
| 701 | 8 | 6 | 8 | 5 |  | 19 | Cl. $2 \& 3$ | Total | 63 | 59 | 12 |  | 134 |
| C1. 283 | Total | 559 | 129 | 80 | 9 | 777 |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  | 708 | 1 | 148 | 34 | 20 | 4 | 206 |
| 702 | 1 | 104 | 23 | 10 |  | 137 | 708 | 2 | 3 | 5 |  |  | 8 |
| 702 | 2 | 1 |  |  |  | 1 | 708 | 3 | 38 | 1 |  |  | 39 |
| 702 | 3 | 103 | 29 |  |  | 132 | 708 | 4 | 4 |  |  |  | 4 |
| 702 | 4 | 7 | 2 |  |  | 9 | 708 | 5 | 31 | 6 | 1 |  | 38 |
| 702 | 5 | 14 |  | 3 |  | 17 | 708 | 6 | 57 | 3 | 1 |  | 61 |
| 702 | 6 | 117 | 10 |  | 4 | 131 | 708 | 7 | 31 | 3 | 2 |  | 36 |
| 702 | 7 | 90 | 4 | 4 |  | 98 | 708 | 8 | 5 | 3 | 1 |  | 9 |
| 702 | 8 | 3 | 2 | 2 |  | 7 | Cl. 2 \& 3 | Total | 317 | 55 | 25 | 4 | 401 |
| Cl. 28.3 | Total | 439 | 70 | 19 | 4 | 532 |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  | 709 | 1 | 127 | 53 | 27 | 2 | 209 |
| 703 | 1 | 288 | 48 | 18 | 4 | 358 | 709 | 2 | 3 | 6 | 1 |  | 10 |
| 703 | 2 | 1 |  |  |  | 1 | 709 | 3 | 16 | 6 |  |  | 22 |
| 703 | 3 | 75 | 10 | 1 |  | 86 | 709 | 4 | 2 | 1 |  |  | 3 |
| 703 | 4 | 4 |  |  |  | 4 | 709 | 5 | 23 | 6 | 3 |  | 32 |
| 703 | 5 | 22 | 8 | 3 |  | 33 | 709 | 6 | 85 | 15 | 1 |  | 101 |
| 703 | 6 | 137 | 12 | 4 |  | 153 | 709 | 7 | 5 | 1 |  |  | 6 |
| 703 | 7 | 51 | 20 | 4 | 1 | 76 | 709 | 8 | 2 | 3 |  |  | 5 |
| 703 | 8 | 3 | 4 | 1 | 2 | 10 | C1.283 | Total | 263 | 91 | 32 | 2 | 388 |
| C1.2 \& 3 | Total | 581 | 102 | 31 | 7 | 721 |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  | 701 | 703 | 11 | 4 |  |  | 15 |
| 704 | 1 | 212 | 62 | 14 |  | 288 | 701 | 704 | 20 |  |  |  | 20 |
| 704 | 2 | 5 | 1 |  |  | 6 | 701 | 705 |  |  | 1 |  | 1 |
| 704 | 3 | 32 | 8 |  |  | 40 | 701 | 706 | 1216 | 137 | 106 | 206 | 1665 |
| 704 | 4 | 5 | 1 |  |  | 6 | 701 | 707 | 2 | 3 |  |  | 5 |
| 704 | 5 | 26 | 5 | 2 |  | 33 | 701 | 708 | 19 | 5 | 1 | 1 | 26 |
| 704 | 6 | 111 | 30 | 13 |  | 154 | 701 | 709 | 1 | 1 |  |  | 2 |
| 704 | 7 | 16 | 3 | 4 | 8 | 31 | Cl. 4 | Total | 1269 | 150 | 108 | 207 | 1734 |
| 704 | 8 | 5 | 5 | 6 |  | 16 | C1.2\&3 | Total | 559 | 129 | 80 | 9 | 777 |
| 704 | 9 | 4 |  | 1 |  | 5 | 701 | Total | 1828 | 279 | 188 | 216 | 2511 |
| C1.2\&3 | Total | 416 | 115 | 40 | 8 | 579 |  |  |  |  |  |  |  |
| 706 | 1 | 386 | 85 | 63 | 22 | 556 |  |  |  |  |  |  |  |
| 706 | 2 | 5 |  |  |  | 5 | 702 | 703 | 10 |  |  |  | 10 |
| 706 | 3 | 114 | 25 | 8 |  | 147 | 702 | 704 | 2 |  | 1 |  | 3 |
| 706 | 4 | 25 | 5 |  |  | 30 | 702 | 705 | 1 |  |  |  | 1 |
| 706 | 5 | 71 | 26 | 10 | 1 | 108 | 702 | 706 | 20 | 3 | 1 |  | 24 |
| 706 | 6 | 242 | 23 | 19 | 4 | 288 | 702 | 708 | 1 | 2 |  |  | 3 |
| 706 | 7 | 82 | 16 | 10 |  | 108 | C1. 4 | Total | 34 | 5 | 2 |  | 41 |
| 706 | 8 | 12 | 11 |  |  | 23 | C1.283 | Total | 439 | 70 | 19 | 4 | 532 |
| C1.2\&3 | Total | 937 | 191 | 110 | 27 | 1265 | 702 | Total | 473 | 75 | 21 | 4 | 573 |



