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MASON CITY
Origin and Destination
Traffic Study
June 1966
(Supplement to 1962 Report)

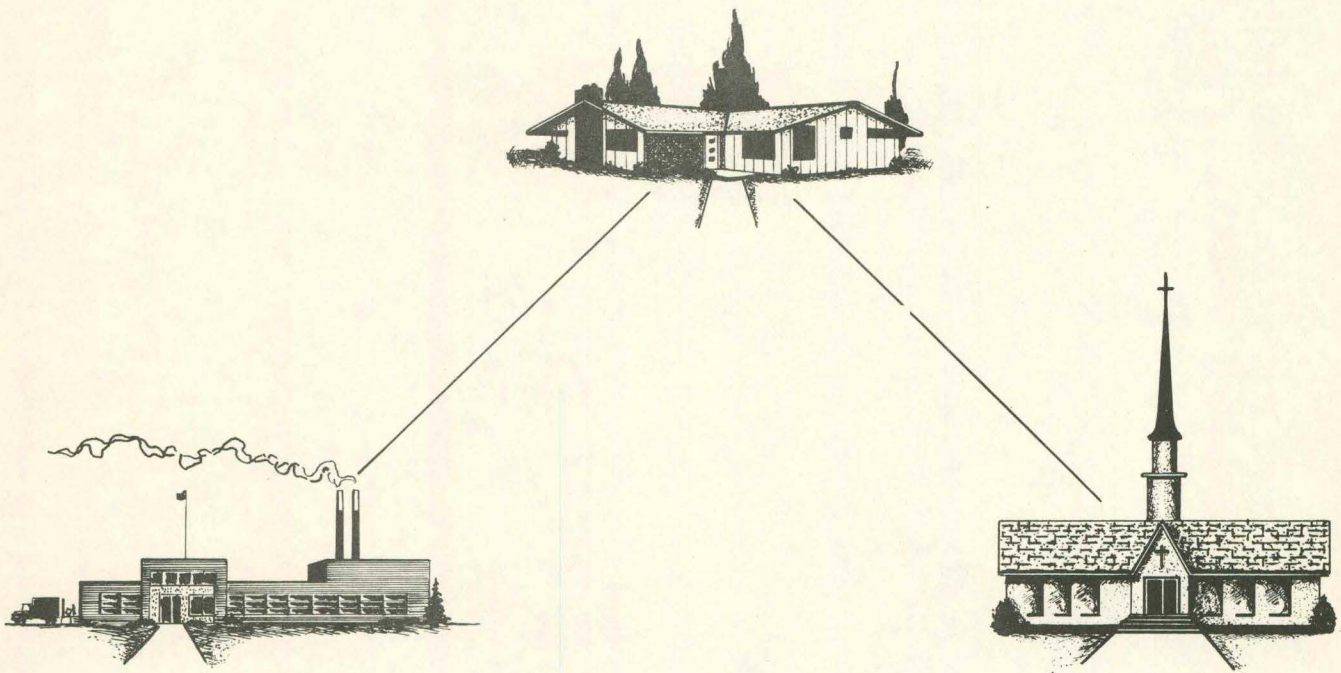
State of Iowa

MASON CITY

Origin and Destination

Traffic Study

March 1966



PREPARED BY

TRAFFIC AND HIGHWAY PLANNING DEPARTMENT

DIVISION OF PLANNING

IOWA STATE HIGHWAY COMMISSION

IN COOPERATION WITH THE

UNITED STATES DEPARTMENT OF COMMERCE

BUREAU OF PUBLIC ROADS

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Introduction

During the period from June 7 to June 28 of 1966, the Iowa State Highway Commission, in cooperation with the United States Bureau of Public Roads, conducted a series of traffic counts in the Mason City urban area. The purpose in taking these counts was to gather data to be used in preparing this supplement to the 1962 Mason City Origin-Destination Traffic Report.

Automatic portable traffic recorders were placed at the exact points where interview stations were located in the 1962 study and eight hour manual vehicle classification counts were made at each interview station location. In addition, five turning movement counts were made at strategic points throughout the city to gather additional data. All portable recorders were operated for periods ranging from two to five days and all manual counts were for periods of eight hours.

At the conclusion of the field work the data derived from portable recorders and manual counts were combined and used to develop expansion factors which were then applied to the original 1962 trip data. The resultant data have been organized into trip tables similar to those used in the 1962 report.

As might be expected, most of the major arteries leading to the city have shown an increase in the daily volume of traffic. U.S. 65 north was the only major highway which showed a decrease in traffic and, although this highway had a marked detour of approximately five blocks, the detour apparently had little effect on the volume of traffic recorded at the count location. Periodic counts made at or near this location on U.S. 65 north of the urban area have shown a gradual decline in traffic volume in recent years and are in accordance with the counts made for this up-date of the 1962 survey.

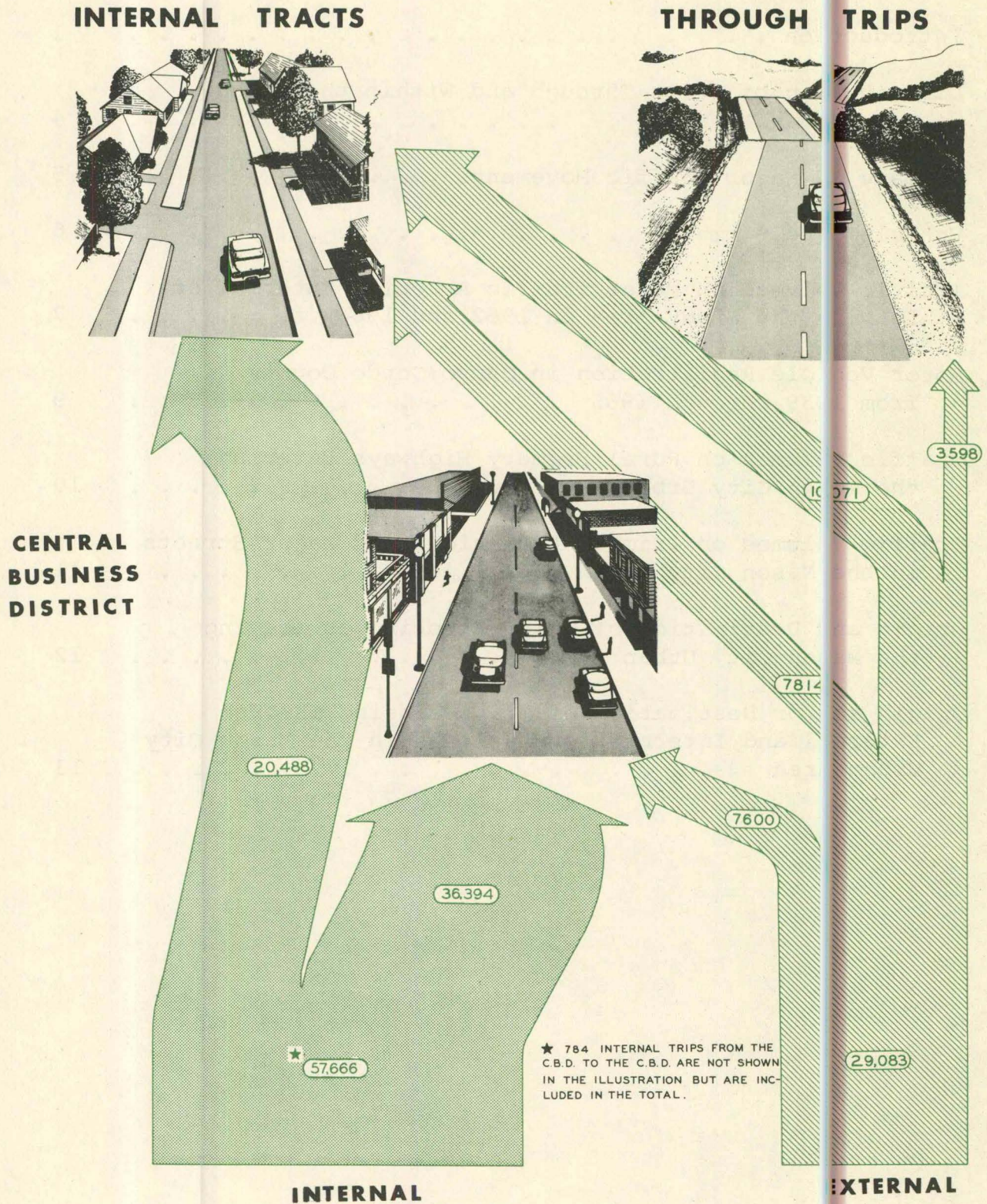
All trip tables in this supplement have been adjusted to reflect average June weekday traffic for 1966 and are based on trip data collected in June of 1962.

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FIGURE 1
DISTRIBUTION OF TRIPS THROUGH AND WITHIN
THE MASON CITY URBAN AREA

EXPANDED TO AVERAGE JUNE WEEKDAY TRAFFIC—1966



Summary of Major Traffic Movements

Figure 1 on the adjoining page graphically illustrates the major traffic movements to, from, within and through the Mason City urban area. A total of 86,749 trips are represented in the figure at the left and of this total,

36,394 trips or 41.95 percent of the total number of trips were between the central business district and other internal tracts.

20,488 trips or 23.62 percent of the total number of trips were between internal tracts by way of the central business district.

7,600 trips or 8.76 percent of the total number of trips were between external entrances and the central business district.

7,814 trips or 9.01 percent of the total number of trips were between external entrances and internal tracts by way of the central business district.

10,071 trips or 11.61 percent of the total number of trips were between external entrances and internal tracts not by way of the central business district.

3,598 trips or 4.15 percent of the total number of trips were external through trips with no desire in the Mason City urban area.

784 trips or .90 percent of the total number of trips were trips which had both origin and destination in the central business district.

All trip data above and on the adjoining page were adjusted to average June weekday traffic for 1966.

TABLE I
VEHICLE TYPE SUMMARY
EXPANDED TO AVERAGE JUNE WEEKDAY TRAFFIC 1966

		Station Location	Passenger cars and pickups	Single unit trucks	Truck combinations	Total
External Stations	Primary Roads	701, U.S. 65 North	4019	237	311	4567
		702, U.S. 18 East	3728	212	189	4129
		703, U.S. 65 South	5074	298	392	5764
		704, Iowa 106 West	2927	157	36	3120
		705, U.S. 18 West	7706	502	306	8514
		Primary Road Total	23454	1406	1234	26094
	Secondary Roads	706, F.A.S. 1170 East	282	43		325
		707, North Carolina Av.N.	236	14		250
		708, Plymouth Rd. North	566	36	4	606
		709, 12th St. Northeast	2156	269	68	2493
		710, F.A.S. 1410 South	199	11	5	215
		711, Kentucky Ave. South	475	31		506
		712, 12th St. Northwest	1816	122	83	2021
		714, Pierce Ave. South	31	2		33
		715, F.A.S. 1427 South	226	11		237
		716, Local Road South	123	3		126
		717, Local Road North	996	64	30	1090
		718, F.A.S. 1427 North	814	72	13	899
		719, F.A.S. 1425 West	89	7		96
		720, Local Road	168	12		180
721, F.A.S. 108 West	162	60	66	288		
Secondary Total	8339	757	269	9365		
External Stations Total	31793	2163	1503	35459		
Internal Stations	C.B.D. Entrances	North Entrance	9256	435	330	10021
		Northeast Entrances	16570	723	54	17347
		East Entrances	10834	378	32	11244
		Southeast Entrances	12505	577	254	13336
		South Entrance	15460	846	280	16586
		Southwest Entrances	14516	632	317	15465
		West Entrances	12719	297	21	13037
		Northwest Entrances	8177	268	13	8458
		Internal Stations Total	100037	4156	1301	105494
Grand Total		131830	6319	2804	140953	

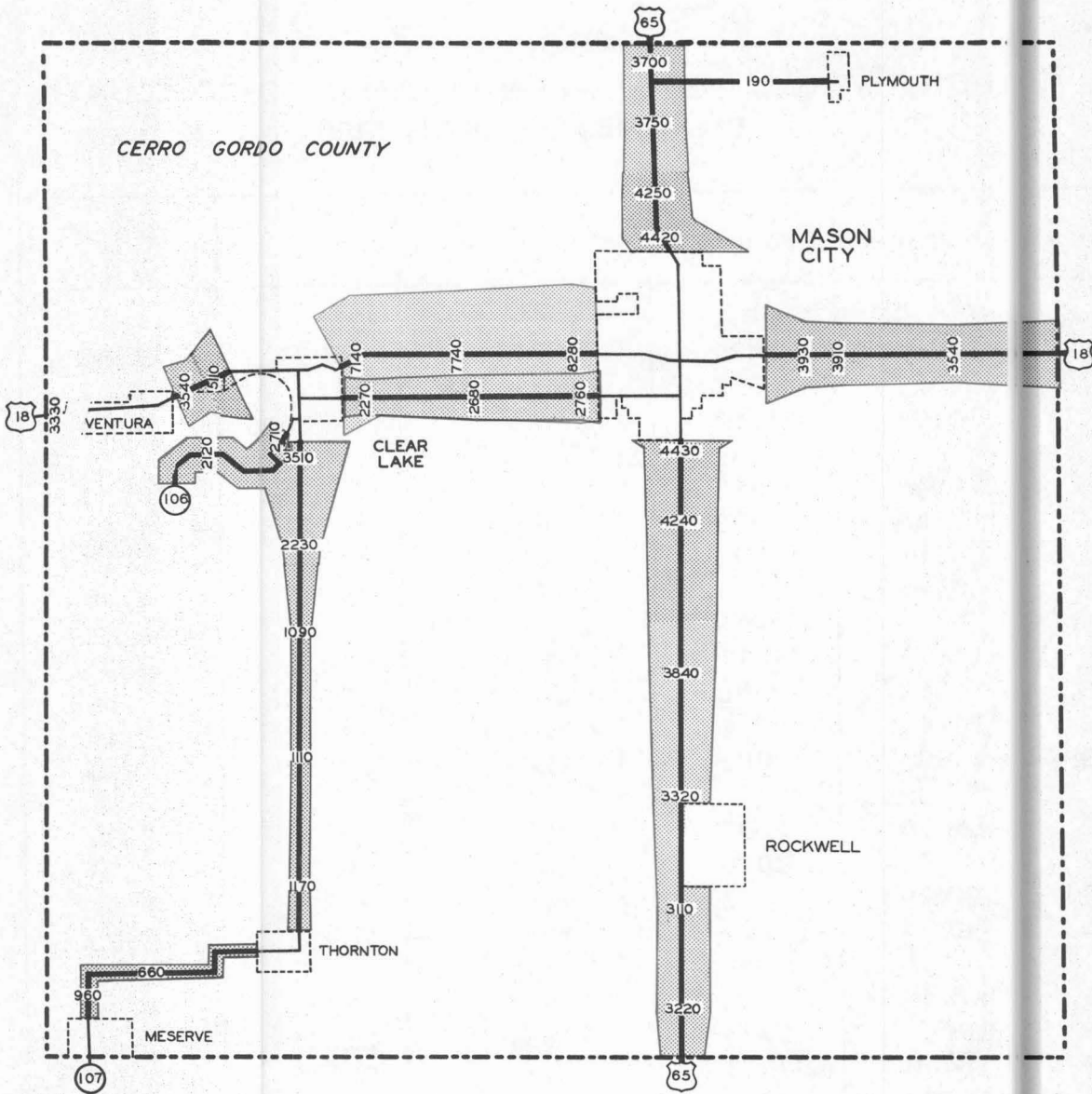
TABLE 2
 TRAFFIC VOLUMES ON MAJOR TRAFFIC ARTERIES
 ENTERING OR LEAVING
 THE STUDY AREA IN 1962 AND 1966

Route of Entry or Exit	Average June Weekday Traffic - 1962			Average June Weekday Traffic - 1966			Percent Change
	Passenger Cars and Pickups	Trucks	Total	Passenger Cars and Pickups	Trucks	Total	
U.S. 65 N.	4447	723	5180	4019	548	4567	-13.42
12th St. N.E.	1565	282	1847	2156	337	2493	34.98
U.S. 18 E.	3516	515	4031	3728	401	4129	2.43
U.S. 65 S.	4843	632	5475	5074	690	5764	5.28
Ia. 106 W.	2301	203	2504	2927	193	3120	24.60
U.S. 18 W.	6998	616	7614	7706	808	8514	11.82
Total	23670	2981	26651	25610	2977	28587	7.26

The above table shows a comparison of traffic volumes on major traffic arteries in Mason City for the years 1962 and 1966. The figures for 1962 were taken directly from the 1962 Mason City Origin-Destination Report. Volumes indicated were based on counts made at the same locations in 1962 and 1966.

TABLE 3
MOTOR VEHICLE REGISTRATION IN CERRO GORDO COUNTY
FROM 1939 THROUGH 1965

Year	Autos	Trucks	Motorcycles	Total	Percent Change
1939	11517	1701	78	13296	
1940	12000	1820	77	13897	4.52
1941	12331	1911	73	14315	3.01
1942	11171	1762	71	13004	- 9.16
1943	9946	1635	54	11635	- 10.53
1944	9665	1596	60	11321	- 2.70
1945	9595	1643	66	11304	- .15
1946	10482	1923	112	12517	10.73
1947	11318	2319	163	13800	10.25
1948	12860	2625	223	15708	13.83
1949	14214	2769	224	17207	9.54
1950	15686	2882	224	18792	9.21
1951	16179	3032	204	19415	3.32
1952	16246	3088	181	19515	.52
1953	16529	3143	158	19830	1.61
1954	16879	3240	134	20253	2.13
1955	17749	3345	130	21224	4.79
1956	18030	3476	135	21641	1.96
1957	18408	3595	142	22145	2.33
1958	18728	3543	140	22411	1.20
1959	19422	3626	142	23190	3.48
1960	19904	3550	170	23624	1.87
1961	20371	3658	209	24238	2.60
1962	21290	3866	240	25396	4.78
1963	21761	4017	248	26026	2.48
1964	22233	4088	277	26598	2.20
1965	23039	4333	358	27730	4.26



LEGEND

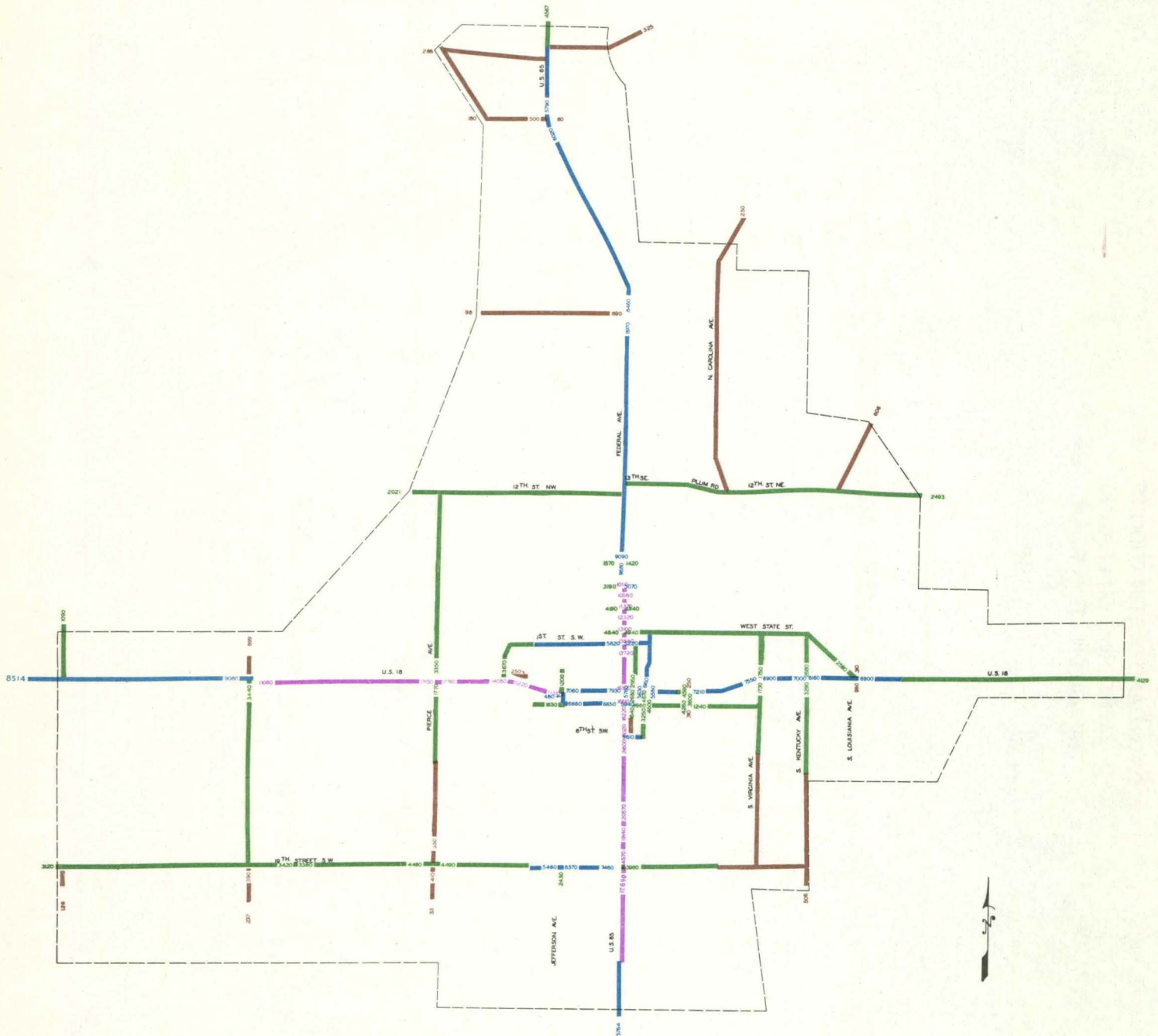
- 1 TO 2000 VEHICLES
- 2000 TO 4000 VEHICLES
- 4000 TO 6000 VEHICLES
- 6000 VEHICLES OR MORE

GRAPHIC SCALE

- 10000 VEHICLES
- 5000 VEHICLES
- 2500 VEHICLES
- 1000 VEHICLES

AVERAGE ANNUAL DAILY TRAFFIC - 1965

FIGURE 2
TRAFFIC VOLUMES
ON RURAL PRIMARY HIGHWAYS
ENTERING THE
MASON CITY URBAN AREA



EXPANDED TO AVERAGE JUNE
WEEKDAY TRAFFIC 1966

LEGEND
 ■ 1 TO 1000 TRIPS
 ■ 1000 TO 5000 TRIPS
 ■ 5000 TO 10000 TRIPS
 ■ 10000 AND OVER

FIGURE 3
 TRAFFIC VOLUMES ON PRIMARY
 EXTENSIONS AND MAJOR STREETS IN THE
 MASON CITY URBAN AREA

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