



# **AUTOMATIC TRAFFIC RECORDERS**

**2012 - 2022**

**Prepared by**

**OFFICE OF SYSTEMS PLANNING**

**In Cooperation With**

**UNITED STATES DEPARTMENT OF TRANSPORTATION  
FEDERAL HIGHWAY ADMINISTRATION**

**PHONE 515-239-1526**

**MARCH 2023**

## TABLE OF CONTENTS

<b>Introduction.....</b>	<b>3</b>
<b>Summary.....</b>	<b>4</b>
<b>Percent of Change in Traffic from 1980 .....</b>	<b>5</b>
<b>Graphs Showing Monthly Comparison</b>	
<b>All Systems.....</b>	<b>6</b>
<b>Rural.....</b>	<b>8</b>
<b>Municipal.....</b>	<b>10</b>
<b>Graphs Showing Daily Comparison</b>	
<b>All Systems.....</b>	<b>7</b>
<b>Rural.....</b>	<b>9</b>
<b>Municipal.....</b>	<b>11</b>
<b>Graphs Showing Hourly Comparison</b>	
<b>Rural Interstate.....</b>	<b>12</b>
<b>Rural Primary .....</b>	<b>13</b>
<b>Rural Secondary.....</b>	<b>14</b>
<b>Municipal Interstate .....</b>	<b>15</b>
<b>Municipal Primary.....</b>	<b>16</b>
<b>Municipal Streets .....</b>	<b>17</b>
<b>Summary of Analysis of Thirtieth Highest Hour.....</b>	<b>18</b>
<b>Annual Average Daily Traffic by Stations     for the Years 2012 to 2022.....</b>	<b>19 - 25</b>
<b>Map of Automatic Traffic Recorder Locations.....</b>	<b>26</b>

## INTRODUCTION

**This report contains graphic comparisons of daily and monthly traffic collected on Iowa's highway system at 174 Permanent Continuous Automatic Traffic Recorder locations. Eighteen (18) stations are located on the Rural Interstate system, thirteen (13) are on the Municipal Interstate system, eighty (80) are on the Rural Primary system, twenty-four (24) are on the Municipal Primary system, twenty-five (25) are on the Rural Secondary system and fourteen (14) are on the Municipal Street system. The map on page 26 shows the general location of count sites. Specific descriptions of locations, along with AADT's for the previous eleven years for each station, start on page 19. Sites without an AADT for 2022 were not used in the calculations or graphs.**

**The report compares travel trends from 1980 to present. Traffic is shown for rural, municipal and statewide travel.**

**Factors for estimating Design Hour Volumes from Annual Average Daily Traffic are shown by highway system. The values are developed from the straight-line relationships between Design Hour Volume and Annual Average Daily Traffic for the period of 2013 - 2022.**

**Information from the permanent traffic recorders indicates a 0.4% decrease in statewide travel from 2021 to 2022. The estimated vehicle miles of travel for 2022 is 33.27 billion. Final 2022 traffic figures will be published near June 2023, when all traffic data collected during 2022 has been processed.**

**More travel occurs on Friday than any other day of the week on all road systems. Sunday is the lowest travel day on all systems except Rural Interstate. This is typical of other years.**

## TRAFFIC VOLUME VARIATIONS

ON

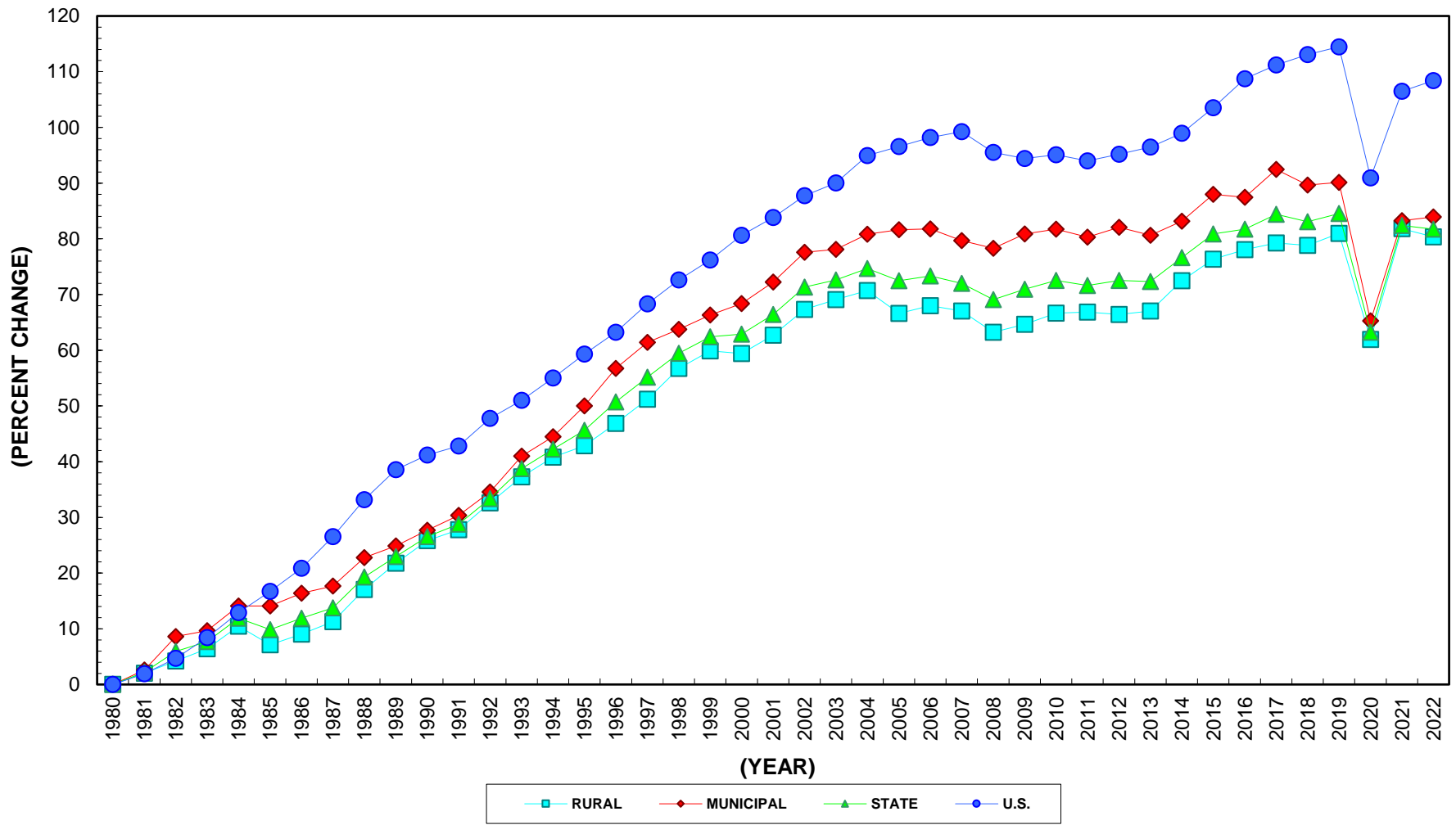
## IOWA ROAD SYSTEMS

	2022 COMPARED TO 2021
RURAL INTERSTATE	- 0.1 %
RURAL PRIMARY	- 0.6 %
RURAL SECONDARY	- 1.8 %
<b>RURAL TOTAL</b>	<b>- 0.8 %</b>
MUNICIPAL INTERSTATE	+ 1.5 %
MUNICIPAL PRIMARY	+ 0.2 %
MUNICIPAL STREETS	- 0.1 %
<b>MUNICIPAL TOTAL</b>	<b>+ 0.4 %</b>
<b>STATE TOTAL</b>	<b>- 0.4 %</b>

Data collected at continuous automatic traffic recorder locations (see pages 19 – 25) were utilized to compute the above percentages. The rural, municipal and state totals were weighted based on estimated vehicle miles of travel.

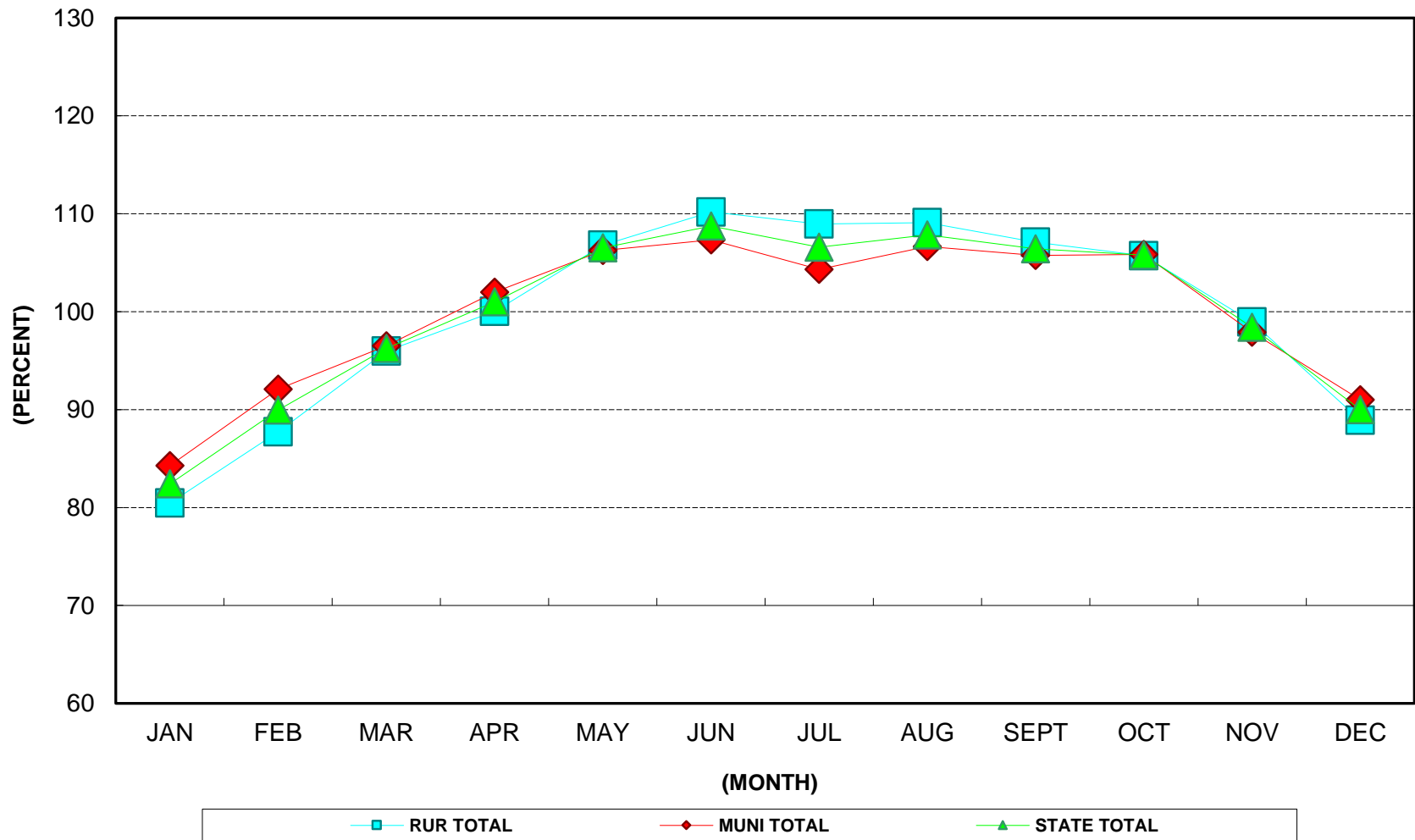
# PERCENT CHANGE IN TRAFFIC

## BASE YEAR 1980



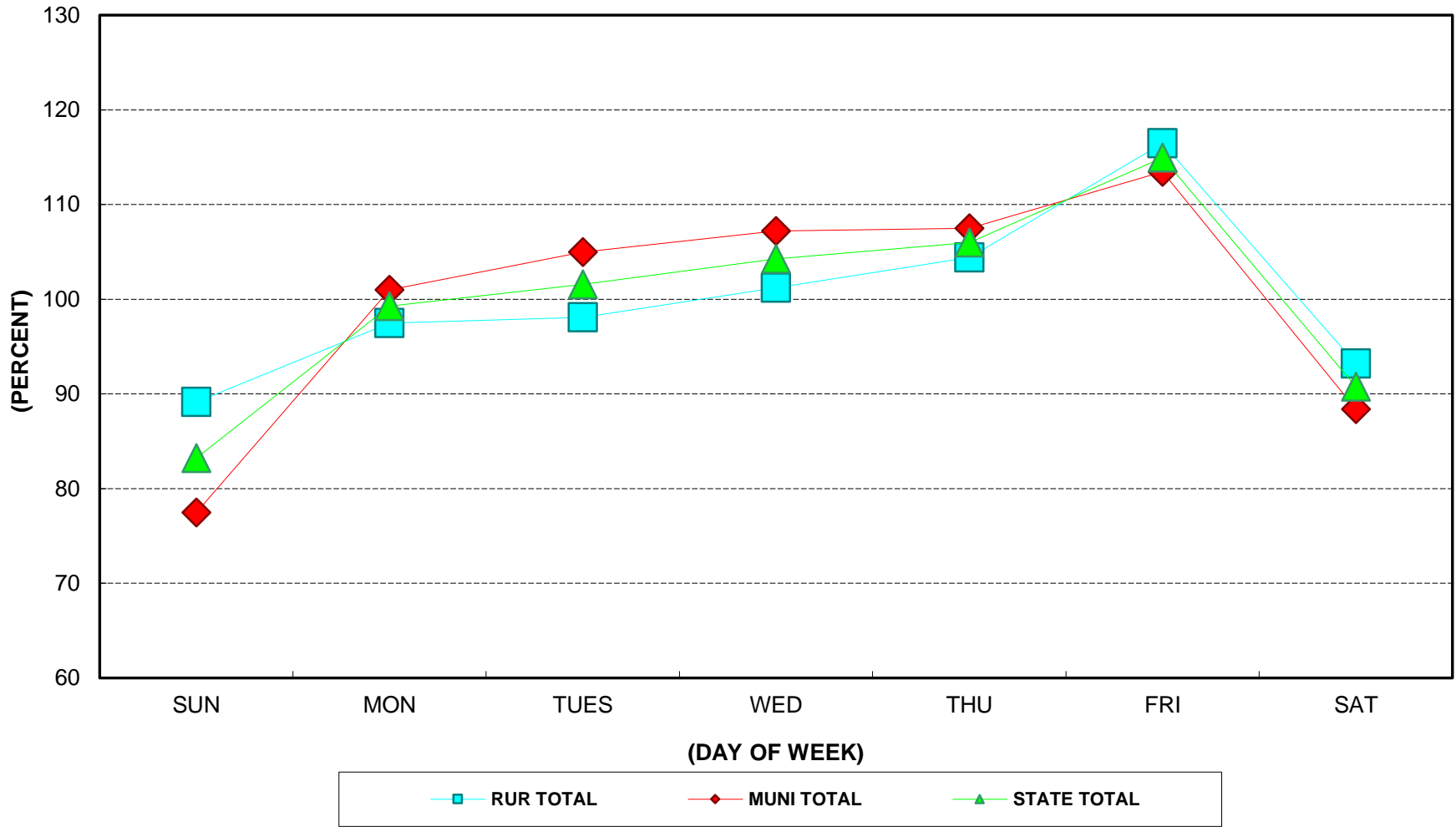
# 2022 MONTHLY TRAFFIC

AS A % OF ANNUAL AVERAGE DAILY TRAFFIC



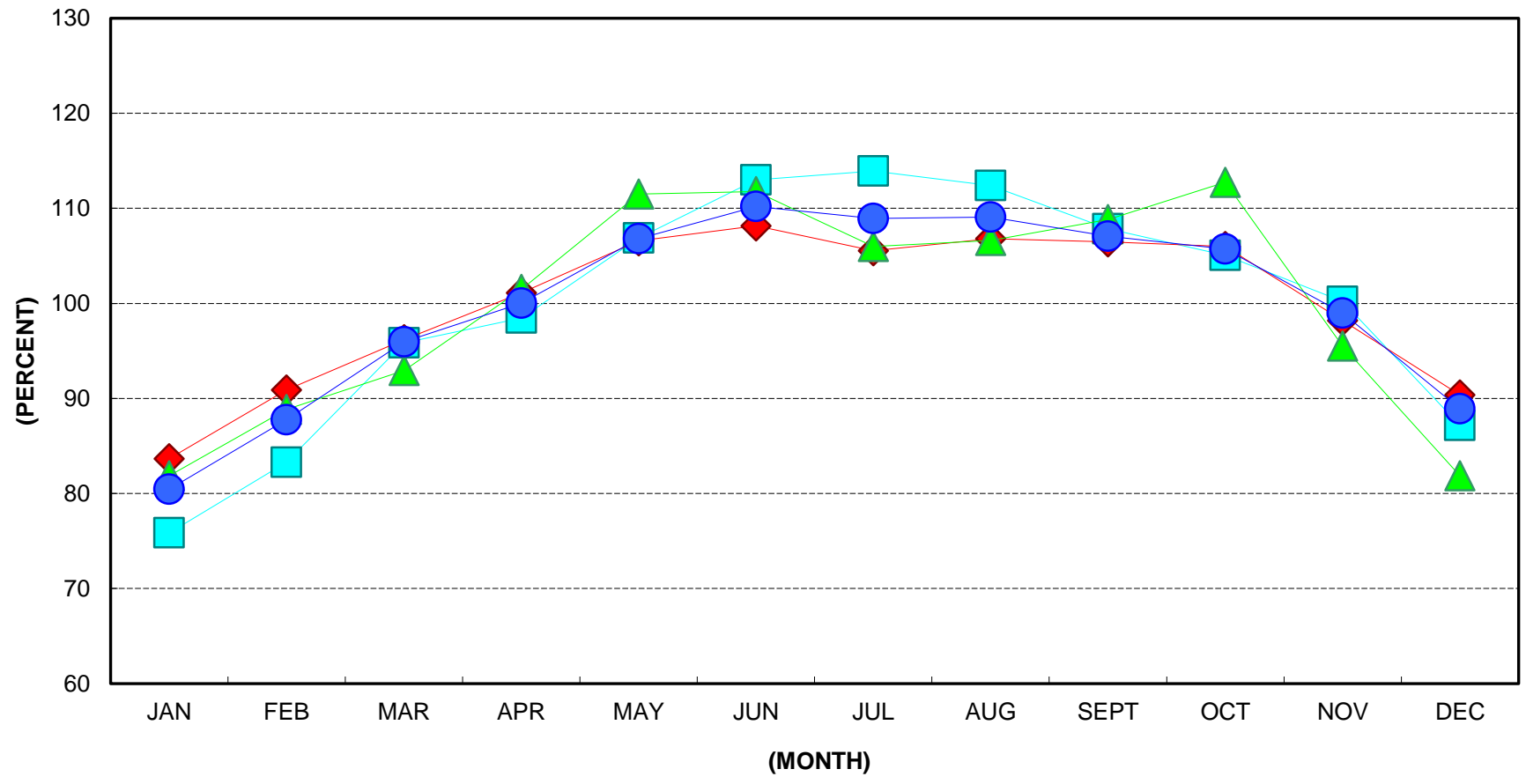
# 2022 DAY OF WEEK TRAFFIC

AS A % OF ANNUAL AVERAGE DAILY TRAFFIC



# 2022 RURAL MONTHLY TRAFFIC

AS A % OF ANNUAL AVERAGE DAILY TRAFFIC

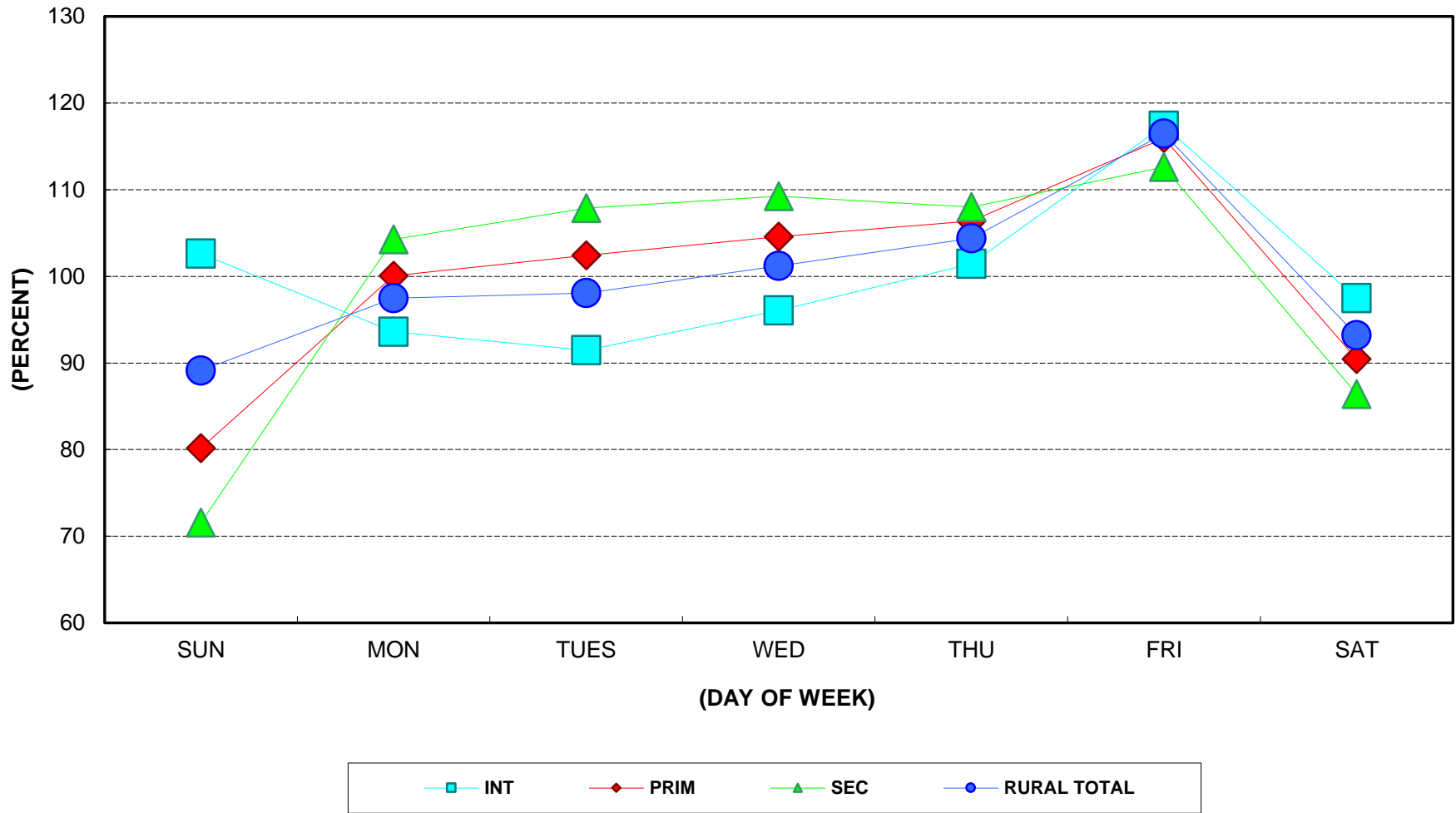


■ INT      ◆ PRIM      ▲ SEC      ● RURAL TOTAL



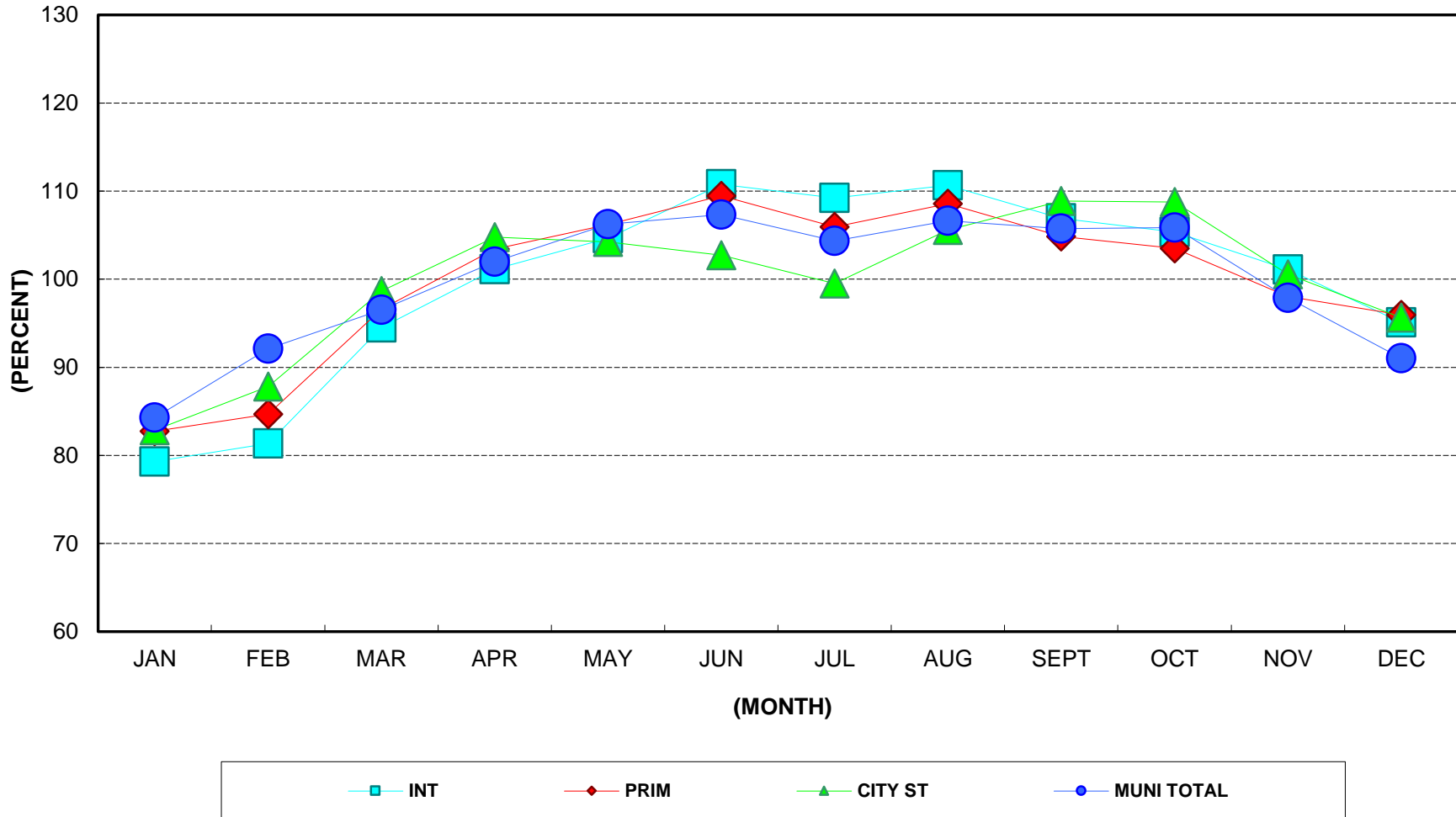
# 2022 RURAL DAY OF WEEK TRAFFIC

AS A % OF ANNUAL AVERAGE DAILY TRAFFIC



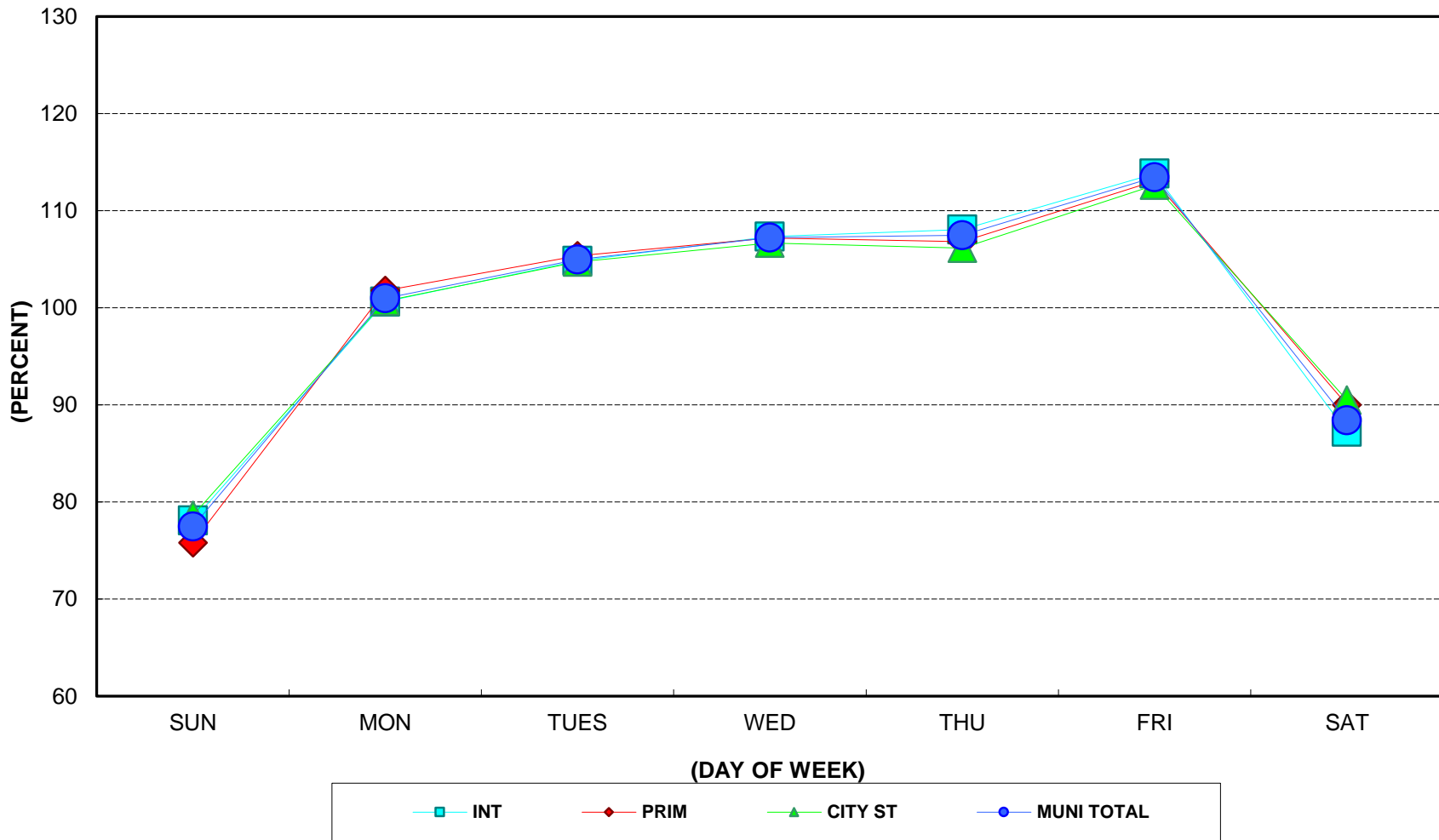
# 2022 MUNICIPAL MONTHLY TRAFFIC

## AS A % OF ANNUAL AVERAGE DAILY TRAFFIC

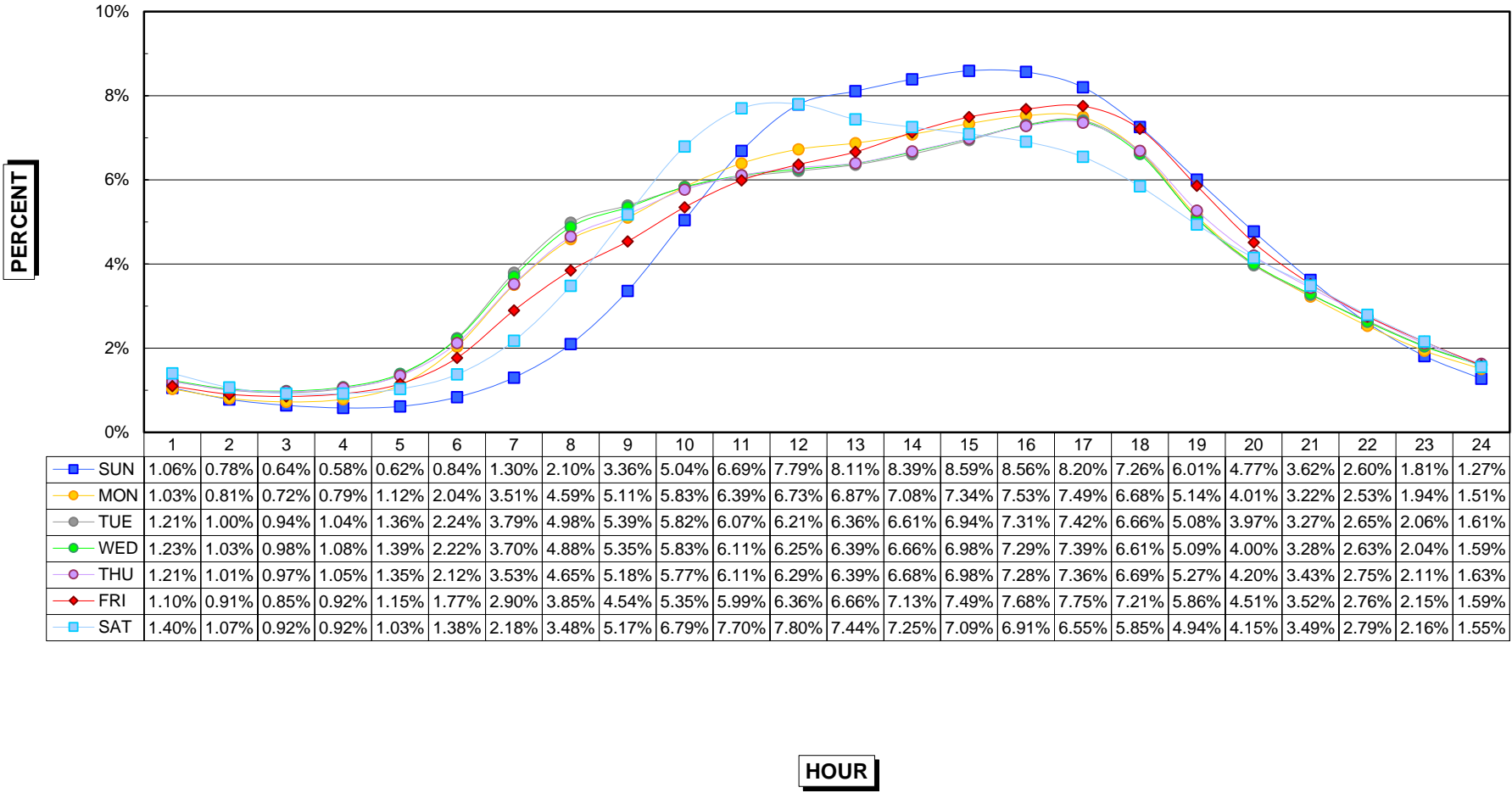


# 2022 MUNICIPAL DAY OF WEEK TRAFFIC

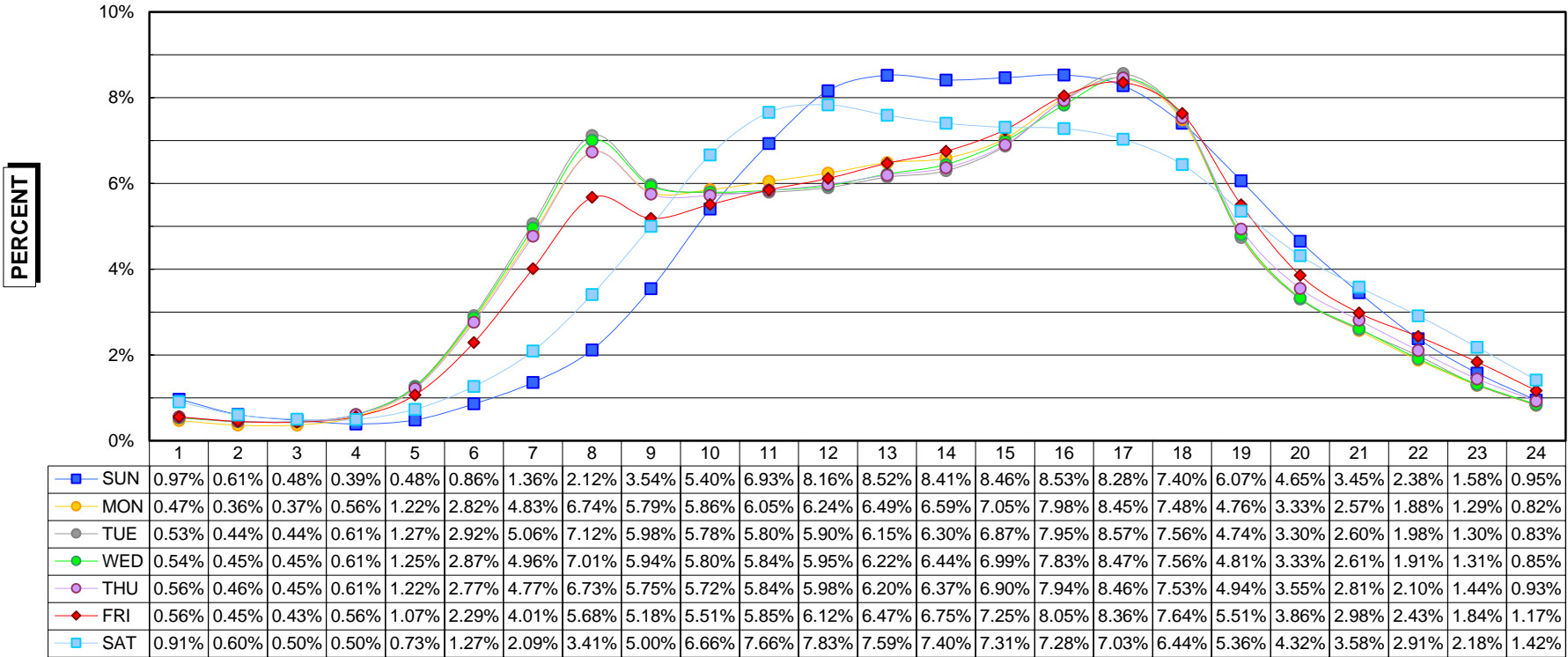
AS A % OF ANNUAL AVERAGE DAILY TRAFFIC



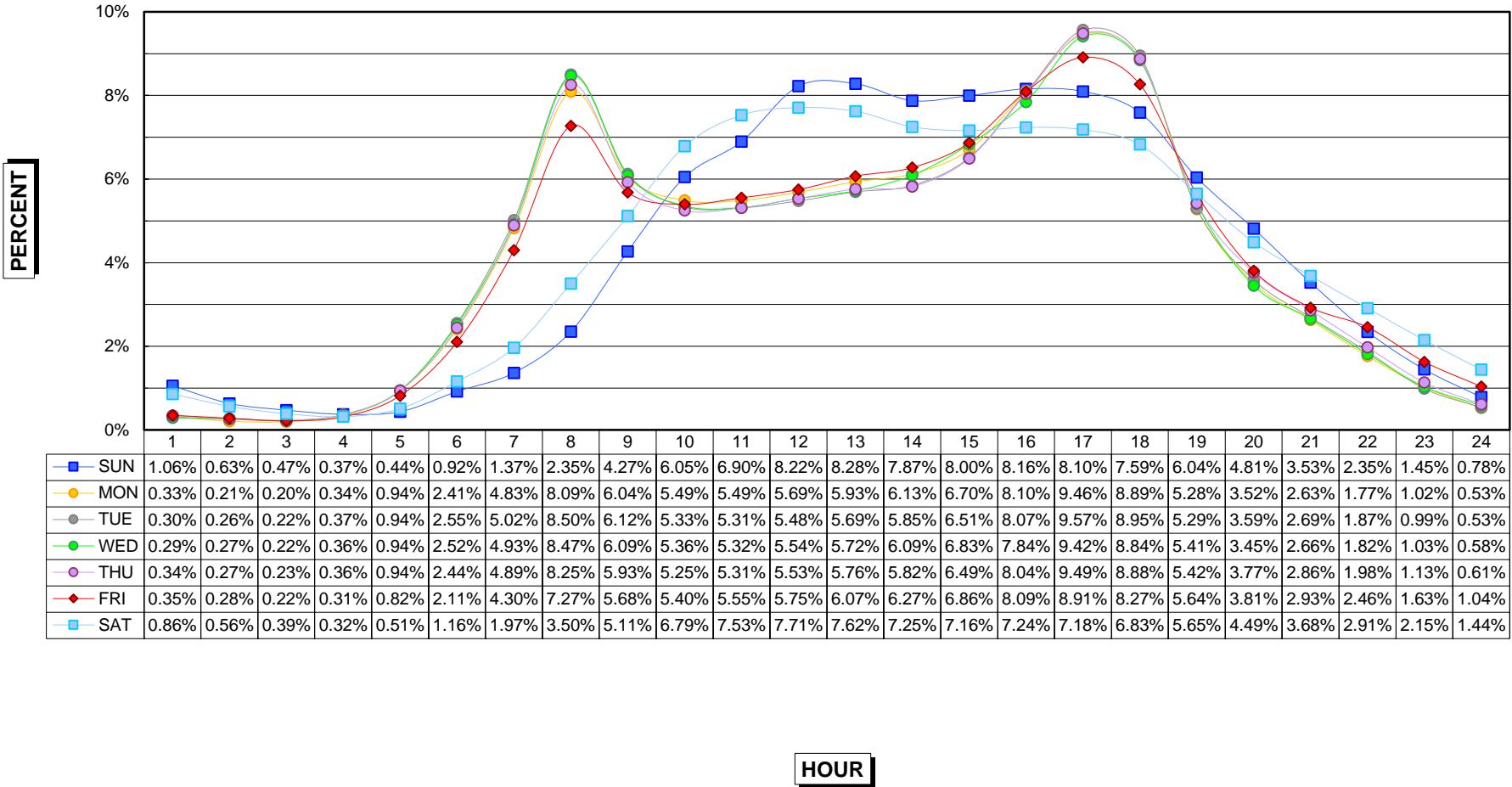
### HOURLY DISTRIBUTION OF DAILY TRAFFIC 2022 RURAL INTERSTATE



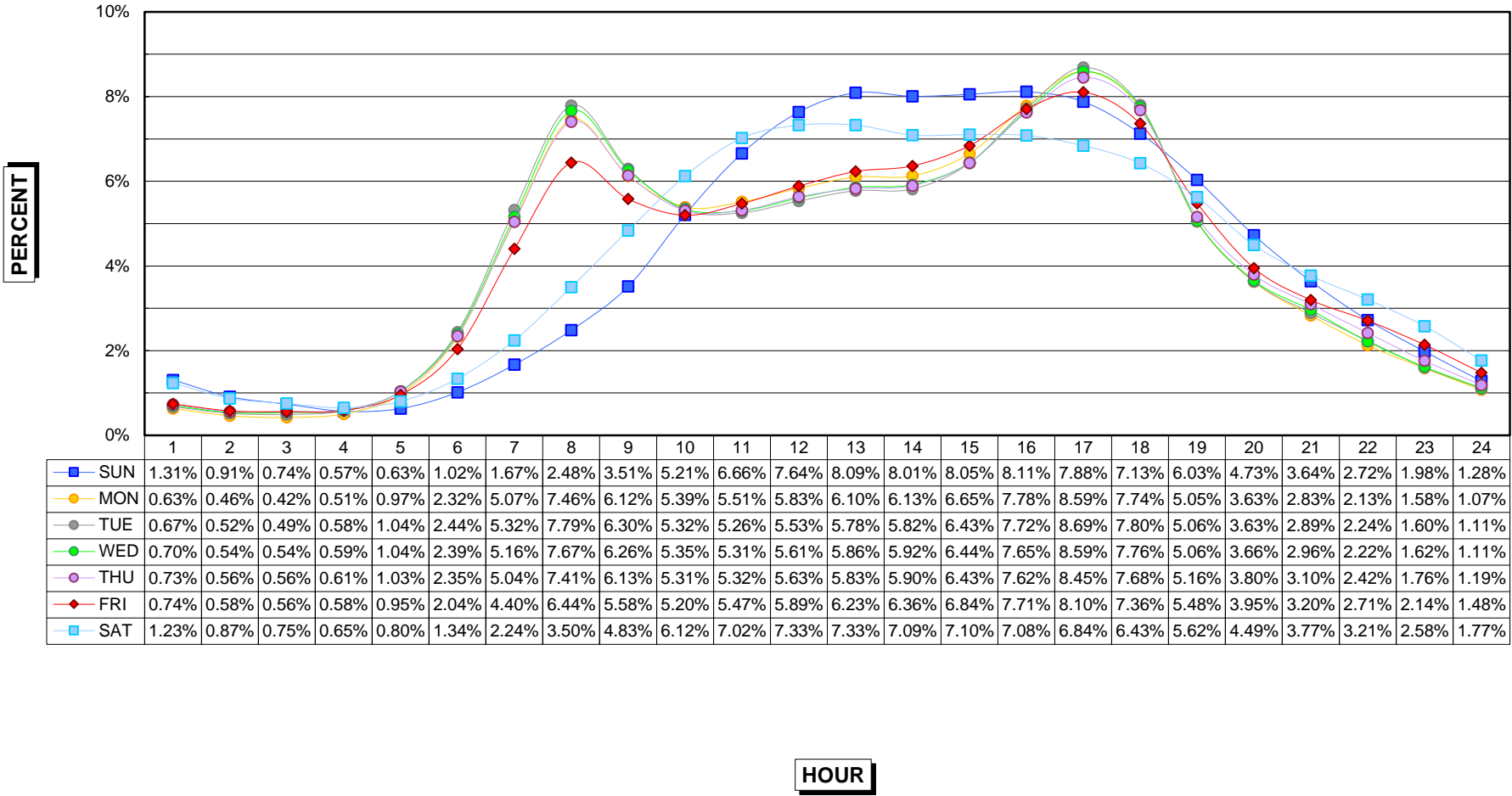
### HOURLY DISTRIBUTION OF DAILY TRAFFIC 2022 RURAL PRIMARY



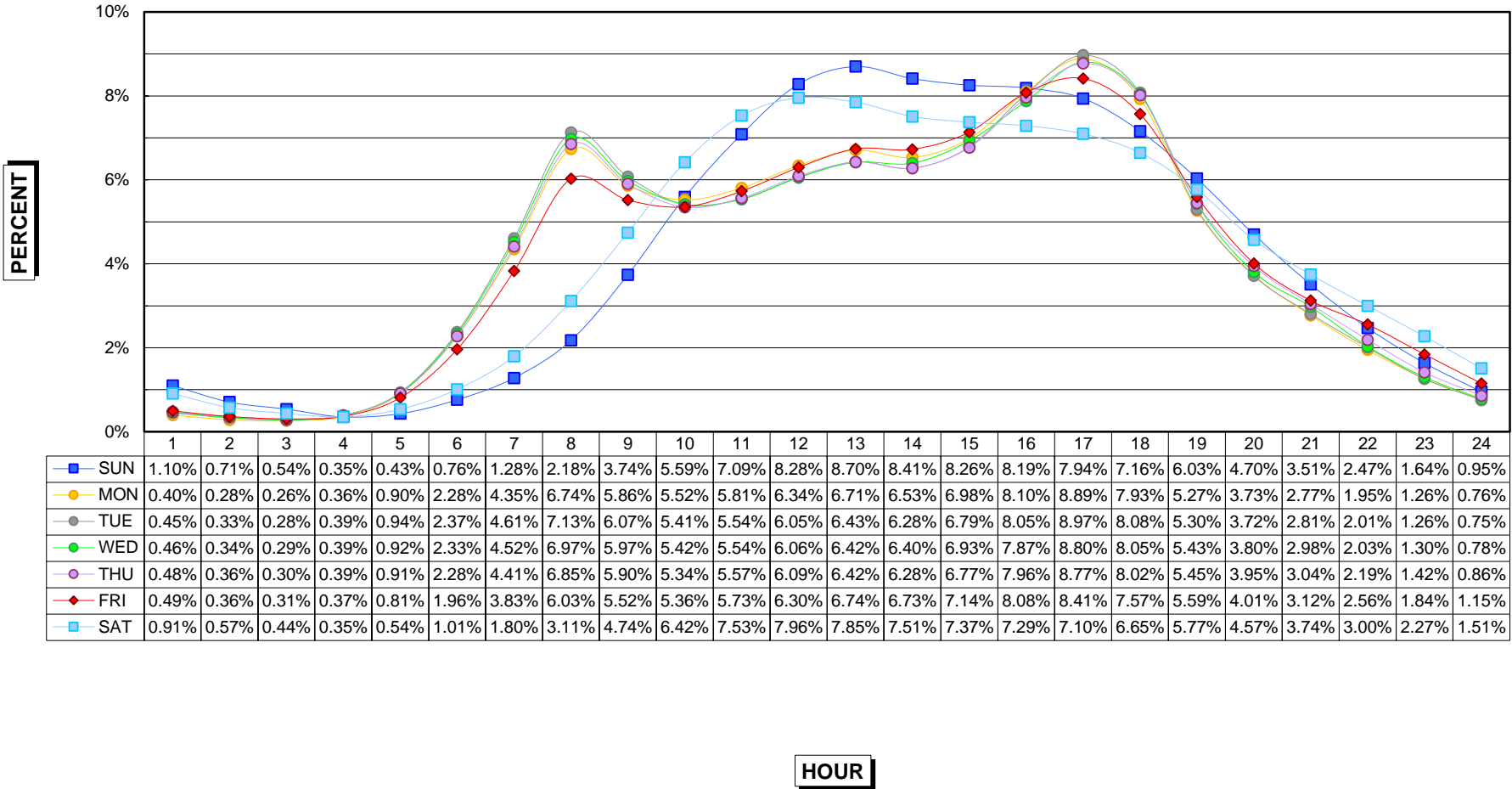
### HOURLY DISTRIBUTION OF DAILY TRAFFIC 2022 RURAL SECONDARY



### HOURLY DISTRIBUTION OF DAILY TRAFFIC 2022 MUNICIPAL INTERSTATE

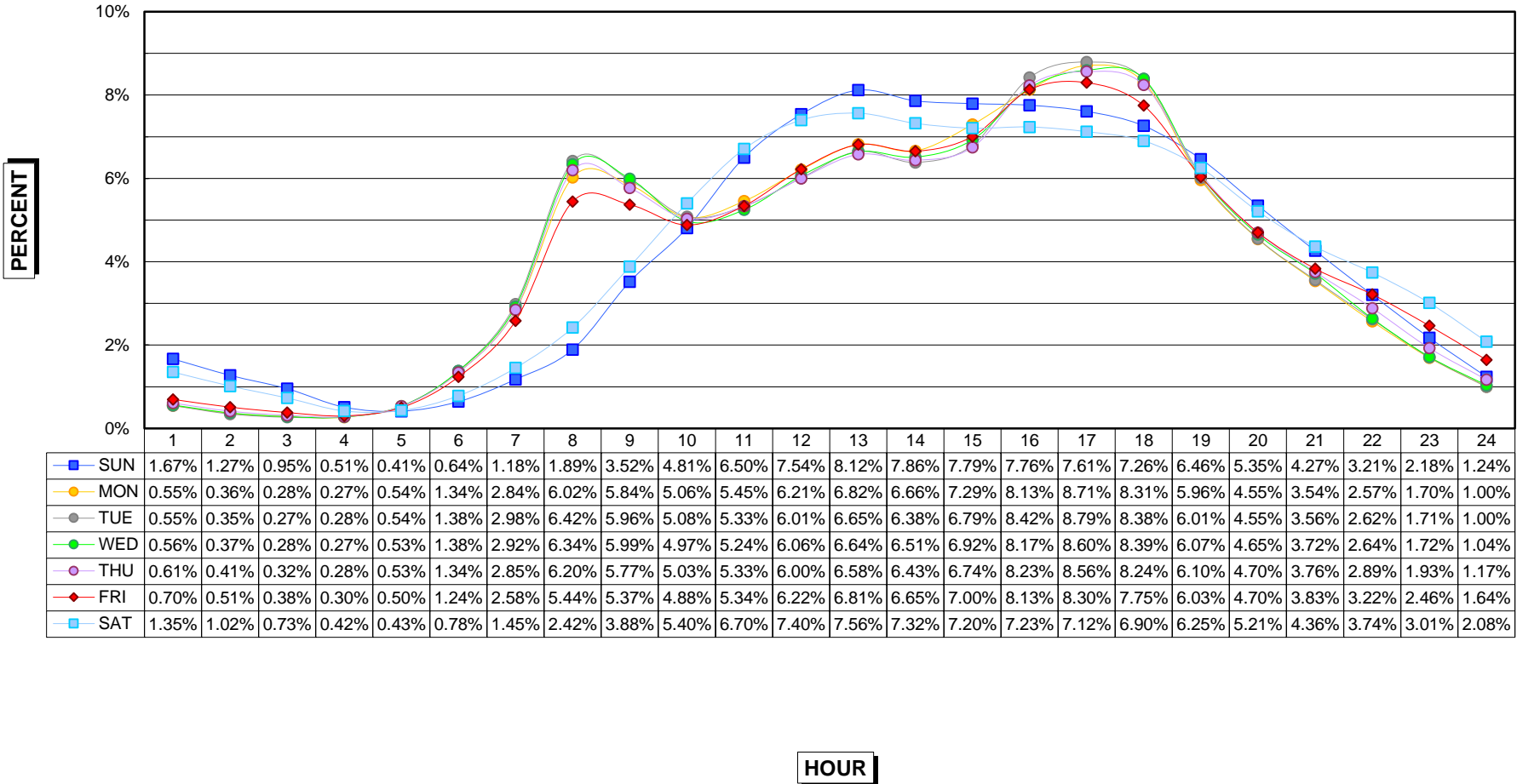


### HOURLY DISTRIBUTION OF DAILY TRAFFIC 2022 MUNICIPAL PRIMARY





### HOURLY DISTRIBUTION OF DAILY TRAFFIC 2022 MUNICIPAL STREETS



## SUMMARY OF ANALYSIS

### Analysis of the Thirtieth Highest Hour at the Permanent Continuous Automatic Traffic Recorder Stations 2013 - 2022

Permanent automatic traffic recorder data is collected on a continuing basis in Iowa to facilitate the expansion of the short-time manual and portable recorder traffic counts to Annual Average Daily Traffic and to make possible a means of estimating design hour volumes from the Annual Average Daily Traffic. A record of the 50 highest hourly volumes at each rural automatic recorder station has been kept since 1949 and at each urban station since 1959, making possible the fitting of first-degree curves to desired design hours periodically as the data has been accumulated.

From permanent automatic traffic recorder data a straight-line relationship between the design hour volume and the Annual Average Daily Traffic can be expressed mathematically as:

$$Y = a + bx$$

- Where Y = nth high hour volume (design hour)  
 x = Annual Average Daily Traffic  
 a = A constant of minimum relationship  
 b = The slope relationship which can be expressed as a percentage of the Annual Average Daily Traffic

The constant "a" and the relationship "b" have been recomputed for the 30th highest hour as the data for each succeeding year has become available. Table 1 shows the 30th high hour results computed from data collected over a ten-year period, 2013 through 2022.

Table 1

#### Calculations of Design Hour Volumes (30th high hour) From Annual Average Daily Traffic

	PRIMARY		INTERSTATE		SECONDARY		CITY STREET	
	"a" Constant	"b" %AADT	"a" Constant	"b" %AADT	"a" Constant	"b" %AADT	"a" Constant	"b" %AADT
Rural	19.21	10.69	406.32	9.51	3.84	12.55	-	-
Municipal	-12.08	10.90	72.90	10.51	-	-	46.61	10.22

**ANNUAL AVERAGE DAILY TRAFFIC BY STATIONS FOR THE YEARS 2012 TO 2022  
RURAL INTERSTATE**

STATION	ROUTE	LOCATION	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022
100	I 29	2.0 MI N OF S JCT I 680 HONEY CREEK	19730	19907	20696	21770	22259	NONE	22409	NONE	18548	21917	NONE
102	I 29	7.0 MI S OF US 34 PACIFIC JCT	12008	12337	13563	13530	13780	14226	14056	NONE	10926	13483	13663
103	I 80	1.0 MI W OF US 63 GRINNELL	26046	26235	26523	27320	28119	28598	28661	28414	24320	28408	27999
104	I 35	3.0 MI N OF IA 175 JEWELL	21437	21726	21775	22963	23783	24342	24452	24908	20352	24505	24976
105	I 29	3.8 MI S OF IA 175 ONAWA	12587	12667	13150	14096	14350	14694	14635	NONE	12085	14873	14469
106	I 35	1.5 MI N OF IA 2 LEON	12699	NONE	NONE	13661	14115	14246	14279	14590	12621	15378	15550
109	I 35	3.0 MI N OF CO B20 HANLONTOWN	19254	19184	19324	20097	20923	21338	NONE	21581	17255	20795	20972
110	I 80	1.5 MI W OF CO M16 SHELBY	NONE	23070	23517	24441	25519	25906	24920	24999	22217	26764	26448
111	I 80	2.0 MI E OF IA 149 WILLIAMSBURG	NONE	30642	31210	32352	33298	33865	33735	33414	28556	33092	32860
113	I 380	1.5 MI N OF IA 150 BRANDON	15905	15937	16186	16741	17520	17658	17645	17725	15217	17702	17897
115	I 80	2.0 MI E OF US 71 ATLANTIC	19740	19821	20113	21331	22176	22541	22190	21747	19415	23160	23103
119	I 80	1.5 MI E OF MIDDLE RD LECLAIRE	29978	29000	30825	32582	NONE	NONE	NONE	NONE	NONE	NONE	NONE
120	I 80	2.5 MI E OF CO RD X40 TIPTON	31963	32640	33523	NONE	NONE	36095	36266	36045	31494	36893	36927
121	I 35	2.0 MI N OF CO RD R75 DOWS	14270	14195	14506	15227	15730	15995	16050	16060	13189	16143	16498
122	I 35	1.0 MI N OF IA 92 CUMMING	21087	21044	NONE	NONE	21974	22577	23321	23792	20953	24562	24700
123	I 80	4.8 MI E OF E JCT US 65 MITCHELLVILLE	35253	34996	NONE	NONE	NONE	NONE	NONE	NONE	34291	39375	38700
124	I 680	6.4 MI W OF I 80 BEEBETOWN	5947	5913	6039	6311	NONE	NONE	NONE	NONE	4809	5949	NONE
126	I 29	9.0 MI S OF IA 2						14507	14520	NONE	NONE	15427	NONE

**2022 EXPANSION FACTORS  
RURAL INTERSTATE**

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
<b>SEASONAL</b>	1.324	1.207	1.046	1.017	0.934	0.882	0.877	0.891	0.929	0.953	0.998	1.143
<b>Sunday</b>	1.008	0.994	0.956	0.956	0.983	0.947	0.980	0.939	0.980	0.941	0.889	1.107
<b>Monday</b>	0.980	1.020	1.117	1.064	1.082	1.076	1.115	1.084	1.049	1.110	1.101	1.022
<b>Tuesday</b>	1.015	1.104	1.101	1.126	1.137	1.126	1.097	1.130	1.133	1.129	1.141	0.977
<b>Wednesday</b>	1.010	1.055	1.045	1.079	1.087	1.055	1.057	1.070	1.092	1.081	0.999	0.938
<b>Thursday</b>	0.934	1.072	1.007	0.982	0.982	0.964	0.983	0.978	0.990	0.984	1.047	1.020
<b>Friday</b>	0.926	0.843	0.836	0.824	0.816	0.856	0.832	0.856	0.817	0.825	0.889	0.915
<b>Saturday</b>	1.181	0.977	1.006	1.046	0.997	1.038	1.004	1.011	1.018	1.014	1.006	1.071

**ANNUAL AVERAGE DAILY TRAFFIC BY STATIONS FOR THE YEARS 2012 TO 2022  
MUNICIPAL INTERSTATE**

STATION	ROUTE	LOCATION	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022
701	I 380	BTWN WILSON AND 33RD CEDAR RAPIDS	66619	66629	67456	69639	71681	NONE	73258	71146	58550	65268	66215
703	I 380	AT J AVE S OF COLDSTREAM CEDAR RAPIDS	82911	82286	83915	85038	81120	NONE	88560	86233	70725	78837	79073
704	I 29/80	0.6 MI W OF IA 192 COUNCIL BLUFFS	75521	NONE	NONE	NONE	NONE	NONE	NONE	NONE	NONE	NONE	NONE
705	I 74	0.6 MI S OF US 6 BETTENDORF	47653	49404	49577	NONE	NONE	52108	NONE	NONE	NONE	NONE	NONE
707	I 29	AT SOUTH DAKOTA BORDER SIOUX CITY	<b>SITE REMOVED JANUARY 2010</b>										
708	I 280	0.3 MI S OF IA 22 DAVENPORT	NONE	NONE	NONE	NONE	NONE	24970	23577	NONE	NONE	NONE	NONE
709	I 35	N OF ORALABOR ROAD ANKENY	57945	60027	62687	NONE	65440	66343	67231	66246	NONE	NONE	NONE
710	I 235	E. INNERLEG OF 35TH ST WEST DES MOINES	NONE	NONE	NONE	NONE	NONE	NONE	NONE	NONE	NONE	NONE	NONE
711	I 235	S OF GUTHRIE AVENUE DES MOINES	NONE	NONE	NONE	NONE	NONE	NONE	NONE	NONE	NONE	NONE	NONE
712	I 235	E OF SECOND AVENUE DES MOINES	NONE	NONE	NONE	NONE	NONE	NONE	NONE	NONE	NONE	NONE	NONE
713	I 35/80	E OF MERLE HAY ROAD DES MOINES	<b>SITE REMOVED MARCH 2012</b>										
714	I 235	0.7 MI N OF EUCLID AVENUE DES MOINES		NONE	65417	68332	72475	74926	75741	75688	61178	69983	72945
715	I 29	1.5 MI E OF IA 12 SIOUX CITY				33150	NONE	NONE	36099	NONE	NONE	39609	39962
716	I 35/80	0.8 MI W OF IA 415 DES MOINES					NONE	NONE	100804	99952	85676	97583	96010
717	I 380	1.0 MI W OF EVANSDALE DR EVANSDALE					NONE	NONE	33972	33819	29121	32908	33173
116	I 80	0.8 MI W OF 74TH ST WAUKEE	35527	NONE	NONE	39315	45973	48840	50147	50360	44062	51934	53738
117	I 80	1.8 MI E OF E JCT I 35/80/235 ALTOONA	74017	74863	75290	NONE	77337	NONE	86136	87038	76230	87909	88965
125	I 380	6.0 MI N OF I 80 NORTH LIBERTY	48518	49835	51703	53335	NONE	56073	57112	56200	48855	54443	54355

**2022 EXPANSION FACTORS  
MUNICIPAL INTERSTATE**

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
<b>SEASONAL</b>	1.204	1.089	1.031	0.981	0.947	0.925	0.958	0.933	0.944	0.945	1.016	1.105
<b>Sunday</b>	1.362	1.304	1.276	1.313	1.276	1.259	1.267	1.265	1.263	1.27	1.248	1.363
<b>Monday</b>	0.923	0.949	1.005	0.974	1.046	0.994	1.081	0.986	1.051	1.006	0.951	0.976
<b>Tuesday</b>	0.899	1.004	0.955	0.958	0.973	0.967	0.959	0.968	0.959	0.976	0.96	0.892
<b>Wednesday</b>	0.918	0.938	0.931	0.954	0.948	0.941	0.925	0.944	0.946	0.954	0.911	0.876
<b>Thursday</b>	0.877	0.959	0.931	0.921	0.92	0.916	0.906	0.918	0.915	0.923	0.983	0.964
<b>Friday</b>	0.931	0.872	0.877	0.871	0.858	0.883	0.859	0.882	0.849	0.859	0.906	0.919
<b>Saturday</b>	1.325	1.089	1.142	1.142	1.091	1.15	1.134	1.15	1.142	1.131	1.148	1.195

**ANNUAL AVERAGE DAILY TRAFFIC BY STATIONS FOR THE YEARS 2012 TO 2022**  
**RURAL PRIMARY**

STATION	ROUTE	LOCATION	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022
200	US 59	1.6 MI N OF IA 31 QUIMBY								1995	2100	2000	
201	US 65	2.7 MI N OF IA 3 HAMPTON	2814	2832	2879	2881	2937	3009	2941	2947	2582	2917	NONE
202	US 71	2.0 MI N OF IA 44 HAMLIN	3505	NONE	NONE	NONE	NONE	3363	3369	3413	3087	3581	3548
204	US 75	1.3 MI N OF CO C60 HINTON	12953	12985	13148	13820	14353	14378	14519	14412	13113	14644	14545
205	US 218	2.7 MI S OF IA 78 SWEDSBURG	11768	11798	12074	12816	13208	13444	13397	13362	11571	12921	13341
206	US 30	AT BOONE/STORY CO LINE NAPIER	13930	14076	14583	14913	15538	NONE	15412	15408	13701	15009	15104
207	US 18	2.2 MI E OF US 169 ALGONA	3444	3460	3361	3425	3372	3340	3322	3288	3015	3102	2989
208	US 6	3.0 MI E OF CO V66 MARENGO	3202	NONE	3181	3325	3441	3455	3416	3296	3013	3249	3193
209	US 67	1.5 MI S OF CO F45 PRINCETON	4286	4207	4087	4106	4173	4092	4078	4901	3653	3893	3688
210	US 18	4.2 MI E OF IA 60 SHELDON	4207	4178	4077	4272	4365	NONE	4033	4162	3637	4258	4204
212	IA 92	0.6 MI W OF CO V45 SIGOURNEY	NONE	2445	2501	2560	NONE	NONE	2524	2499	2369	2543	NONE
213	US 30	1.8 MI E OF US 65 COLO	5719	5872	6248	6587	6891	6999	7117	7094	6334	7388	7592
214	US 61	3.8 MI N OF US 34 BURLINGTON	6592	6612	6690	6882	6977	6804	6888	6758	6282	6732	NONE
216	US 34/169	2.5 MI E OF W JCT US 169 AFTON	3845	3701	3661	3708	3688	3657	3671	3643	3319	3564	3486
217	IA 122	2.5 MI E OF I 35 CLEAR LAKE	13740	13508	13582	13712	NONE	14190	13630	13594	12350	13138	12815
218	IA 44	0.2 MI W OF US 169 ADEL	3559	3458	3561	NONE	3781	3893	3813	3834	3664	3885	3859
219	US 34	1.0 MI W OF I 35 OSCEOLA	4792	4674	4589	4641	4682	4700	4729	4762	4382	4787	4685
220	US 52	1.0 MI NW OF US 18 POSTVILLE	1614	NONE	1516	NONE	NONE	1561	1538	1515	1429	1489	1467
221	IA 9	2.5 MI W OF CO N62 ARMSTRONG	1657	NONE	1613	1627	1614	1645	1595	1622	1465	1454	1517
222	IA 3	0.1 MI W OF CO P66 HUMBOLDT	NONE	1732	NONE	NONE	NONE	2011	NONE	1900	1804	1946	1971
223	IA 48	4.0 MI S OF IA 92 GRISWOLD	1225	1218	1212	1213	1215	1240	1254	1245	1120	1183	1175
224	US 59	0.5 MI S OF CO F16 DEFIANCE	2656	2623	2642	2696	2820	2788	2724	2777	2480	2714	2782
226	US 18	3.8 MI E OF CO W14 WEST UNION	NONE	2501	2425	2489	NONE	2470	2482	2491	2394	2625	2641
228	IA 117	2.5 MI S OF US 65 MINGO	NONE	NONE	847	933	NONE	1000	956	908	815	913	868
229	IA 78	1.2 MI W OF CO X23 WINFIELD	NONE	765	781	772	802	795	767	793	763	797	NONE
230	US 169	3.5 MI S OF S JCT IA 92 WINTERSET	1677	1631	NONE	1669	1754	1768	1736	1667	1636	1783	1812
231	IA 148	9.3 MI N OF IA 92 ANITA	NONE	NONE	818	853	883	889	897	927	858	948	940
233	IA 110	1.5 MI S OF CO C65 SCHALLER	1331	1293	1322	1307	1331	NONE	1285	1440	1374	1506	1472
234	IA 12	2.5 MI N OF CO K18 AKRON	1287	1224	1248	1244	1306	1295	1248	1261	1236	1233	1227
235	IA 143	3.4 MI S OF IA 10 MARCUS	NONE	889	894	NONE	NONE	1047	1036	1067	938	1029	1034
236	IA 196	3.0 MI S OF US 20 SAC CITY	1133	1150	1186	NONE	NONE	1653	1697	1735	1607	1744	1725
238	IA 149	2.1 MI N OF IA 78 MARTINSBURG	NONE	1196	1154	1224	1234	1223	1204	1248	1192	1227	NONE
240	IA 2	3.0 MI E OF US 275 SIDNEY	1872	1862	1948	1947	1978	2040	2008	1907	1784	2002	2026
241	IA 13	5.0 MI S OF US 20 RYAN	4184	4205	4226	4340	4448	4537	4529	4576	4157	4670	4506
242	US 61	3.8 MI N OF CO F41 ELDRIDGE	16678	16651	16718	17300	17808	18285	18118	18059	15943	17723	17572
243	US 30	0.3 MI E OF CO Z24 DEWITT	NONE	NONE	NONE	NONE	9869	10134	10066	10029	9035	9884	9744
244	IA 1	0.8 MI S OF CO F67 KALONA	5535	5473	NONE	NONE	5773	5718	5872	5960	5125	5824	5896
245	US 20	1.5 MI E OF CO V62 JESUP	NONE	9964	10566	10976	NONE	11023	11035	10897	9433	10768	10657
246	IA 141	1.0 MI E OF WILLIS AVE PERRY	9581	9239	9332	NONE	9996	10586	10323	10102	9041	9885	9766
247	US 20	1.9 MI E OF E JCT IA 17 WEBSTER CITY	NONE	8211	8828	9134	9325	9515	9760	10393	9127	10553	10780
248	IA 21	2.8 MI N OF US 6 BELLE PLAINE	1163	1145	1108	1162	1211	1185	1154	1150	1110	1189	NONE
249	US 218	4.3 MI S OF IA 1 HILLS	19594	19810	20472	20683	21112	21103	21326	21406	18516	20750	20515
252	US 18/63	0.5 MI S OF CO B54 NEW HAMPTON	5175	5225	5396	5624	5749	5860	5938	5997	5392	6127	6076
253	US 218	3.5 MI S OF CO T64 CHARLES CITY	9218	9044	9074	9395	9678	9908	9942	9584	8113	9250	9504
254	IA 60	4.1 MI N OF IA 9 SIBLEY	NONE	3268	3484	3725	NONE	NONE	4161	4147	3858	4265	4322
255	US 20	1.0 MI E OF US 65 IOWA FALLS	8608	8730	8859	9144	9216	9243	9332	9555	8300	9778	10002
256	US 18	3.3 MI E OF I 35 MASON CITY	8029	7975	7901	8242	NONE	8905	8872	8555	7135	8371	8268
257	US 20	3.6 MI W OF W JCT US 59 HOLSTEIN	3022	NONE	NONE	3609	NONE	NONE	NONE	5213	4985	5665	5770
258	US 30	0.6 MI E OF CO V66 BLAIRSTOWN	6553	6630	6876	7461	7789	7993	7995	7990	7350	8240	NONE
259	US 30	3.5 MI E OF IA 1 LISBON	5812	5584	5598	5792	5978	5969	5893	5893	NONE	5955	5892
260	US 71	0.6 MI S OF CO J64 BRADYVILLE	2404	2346	NONE	NONE	2416	2425	2260	2266	2133	2278	2223
261	US 169	2.3 MI N OF CO D14 FORT DODGE	NONE	5604	5679	5790	6015	6001	5861	5772	5227	5740	5541
262	US 63	1.6 MI S OF IA 2 BLOOMFIELD	2225	2218	2255	2297	2305	2277	2231	2103	1974	2239	2156
263	US 52	0.3 MI E OF CO X47 GARNAVILLO	2382	2400	2409	2452	2484	2502	2563	2394	2127	2417	2349
264	IA 27	3.0 MI S OF CO W62 ARGYLE	5797	5891	NONE	NONE	6745	6741	6738	6443	6385	7366	7422
265	US 61	1.0 MI N OF CO E17 MAQUOKETA	7537	NONE	NONE	NONE	8097	8351	8317	8233	7229	8448	8190
266	IA 2	0.8 MI W OF US 63 WEST GROVE	1557	1559	1619	1715	1772	1825	1829	1800	1846	1987	1927
267	US 34	3.0 MI W OF US 59 EMERSON	4421	4225	4162	4308	4580	4589	4522	NONE	4205	4625	4506
268	US 30	4.0 MI SW OF CO M14 DOW CITY	2995	3028	3064	3143	3180	3201	3155	3018	2743	3104	3075
269	US 30	3.6 MI E OF IA 144 GRAND JUNCTION	4384	4196	4272	4466	4548	NONE	4293	4323	3968	4468	4266
270	US 71	3.1 MI S OF IA 3 STORM LAKE	2685	2833	3010	3058	NONE	NONE	3056	3049	2704	2948	2855
271	US 18	4.3 MI E OF IA 4 EMMETSBURG	3347	3283	3120	3084	3080	2997	2903	2948	2555	2748	2539
272	US 71	5.2 MI S OF W JCT US 6 ATLANTIC	2330	2253	2294	2354	2405	2401	2272	2308	2150	2358	2425
273	US 34	3.6 MI E OF CO RD S56 RUSSELL	2116	2047	2123	2222	2229	2230	2169	2124	2040	2202	2136
274	IA 163	2.6 MI NW OF CO RD G28 PELLA	11056	11215	NONE	11927	12341	12511	12526	12773	11107	12780	12502
275	US 20	0.5 MI W OF CENTER AVE EPWORTH	12661	12652	12696	13205	13478	13866	13867	14222	12926	14606	14434
276	US 63	1.5 MI N OF IA 9 LIME SPRINGS	2903	3016	3096	3169	3281	3248	3351	3474	3074	3533	3619
277	US 34	1.1 MI E OF IA 16 AGENCY	8047	8085	8380	8562	9117	9096	9001	8824	7603	8662	8644
279	IA 13	1.5 MI N OF CO RD C64 DUNDEE	2349	2358	2361	2395	2488	2453	2403	2402	NONE	NONE	NONE
280	IA 2	2.0 MI W OF I 35 LEON	1262	1232	1274	1299	1326	1334	1353	1343	1268	1425	1410
281	US 151	4.4 MI S OF IA 38 MONTICELLO	10807	10940	11122	11609	11994	12178	12203	12136	10566	12248	12256
282	US 52	9.5 MI S OF IA 62 BELLEVUE	842	799	824	NONE	888	851	710	783	791	886	895
283	US 61/218	0.8 MI S OF N JCT US 61/218 KEOKUK	8009	8004	8257	8684	8730	8422	8187	8210	7508	8107	7752
284	IA 9	1.0 MI W OF 6TH STREET LANSING	2010	1939	1970	2066	2006	1978	1913	1981	1682	1873	1914
285	US 20	1.3 MI E OF IA 4 ROCKWELL CITY	3407	4745	5444	5952	6112	6110	6392	7265	6369	7498	7605
286	US 34	2.0 MI W OF I 29 GLENWOOD					6554	6675	7187	NONE	NONE	NONE	NONE
287	US 20	0.6 MI E OF US 75 LAWTON					11584	12266		12045	13248	12129	13283
288	US 63	0.5 MI S OF IA 163 OSKALOOSA								NONE	12591	11178	12497
289	US 61	3.3 MI N OF E JCT IA 22 & IA 38 MUSCATINE								NONE	11800	10345	10950

**2022 EXPANSION FACTORS**  
**RURAL PRIMARY**

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
SEASONAL	1.203	1.113	1.050	0.987	0.930	0.915	0.943	0.937	0.934	0.938	1.025	1.125
Sunday	1.424	1.341	1.297	1.308	1.274	1.230	1.219	1.243	1.244	1.250	1.301	1.347
Monday	0.918	0.942	0.992	0.974	1.047	1.000	1.078	1.002	1.044	1.015	0.949	0.959
Tuesday	0.894	0.999	0.957	0.972	0.998	0.998	0.984	0.994	0.985	1.003	0.982	0.900
Wednesday	0.933	0.957	0.949	0.976	0.983	0.974	0.961	0.970	0.984	0.990	0.919	0.884
Thursday	0.878	0.968	0.946	0.931	0.944	0.929	0.934	0.935	0.932	0.949	0.977	1.001
Friday	0.925	0.866	0.869	0.863	0.839	0.861	0.843	0.857	0.834	0.848	0.889	0.925
Saturday	1.303	1.074	1.131	1.117	1.040	1.124	1.099	1.120	1.104	1.064	1.125	1.155

**ANNUAL AVERAGE DAILY TRAFFIC BY STATIONS FOR THE YEARS 2012 TO 2022  
MUNICIPAL PRIMARY**

STATION	ROUTE	LOCATION	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022
802	US 71	W OF MEMPHIS AVE SPIRIT LAKE	11723	11777	12076	11714	11665	11507	12385	11380	10675	11249	11118
803	IA 12	ON VIADUCT E OF COURT ST SIOUX CITY	NONE	20642	NONE	NONE	NONE	NONE	NONE	NONE	NONE	NONE	NONE
804	IA 4	N OF 4TH AVE NW POCAHONTAS	3290	3091	3094	3177	3229	3257	3242	3091	2857	3049	3028
805	IA 148	S OF 11TH ST CORNING	2802	2637	2711	2720	2758	2620	2692	2567	2472	2641	2676
806	US 6	E OF SHASTA WINDSOR HEIGHTS	18681	19223	18151	18610	18621	NONE	17937	17661	15132	16965	16302
808	US 71	S OF BIRCH ST AUDUBON	4675	4601	4567	4545	NONE	NONE	4346	4314	3956	4474	4217
809	IA 14	N OF WOODLAND ST MARSHALLTOWN	5836	5746	5641	5648	NONE	NONE	5517	5482	NONE	NONE	NONE
810	IA 92	W OF N ST INDIANOLA	11047	10985	11251	NONE	NONE	NONE	11457	11025	10132	10993	10910
812	IA 122	W OF VIRGINIA AVE MASON CITY	11469	10842	10768	10542	10542	10238	NONE	NONE	8491	9576	9582
813	US 6	E OF PINE ST DAVENPORT	22050	20189	19925	NONE	20323	NONE	18872	NONE	18278	19464	19067
815	IA 922	BTWN WILEY BLVD & WESTDALE CDR RPDS	NONE	NONE	NONE	10989	11355	11637	11684	11485	NONE	9749	10449
816	US 34	W OF US 61 WEST BURLINGTON	13173	12909	NONE	NONE	NONE	NONE	14325	14745	12146	13301	13072
819	IA 9	EAST OF 14TH ST OSAGE	5207	5200	5244	5080	4946	NONE	4965	4803	4250	3994	3928
820	IA 17	N OF NW 11TH ST EAGLE GROVE	2810	2891	NONE	NONE	2870	2901	NONE	2830	2814	2948	2997
821	IA 4	S OF EDGEWOOD AVE E JEFFERSON	NONE	3832	3923	4093	4170	4139	4212	4055	3618	3954	3861
823	US 6	BETWEEN SYCAMORE & 1ST AVE IOWA CITY	NONE	NONE	NONE	19998	20069	20967	21289	21318	19635	21131	21103
824	US 69	BETWEEN 15TH AND 16TH ST AMES	NONE	17619	17298	17323	NONE	17099	17307	16806	14353	16050	16800
826	US 65	1.5 MI NE OF I-80 BONDURANT	NONE	12817	12625	NONE	14483	14796	14868	15106	14032	15560	16450
827	US 61/151	W OF MISSISSIPPI R DUBUQUE	21611	21381	21990	22069	22344	22726	22881	22104	18815	21870	21987
828	IA 150	S OF 12TH ST OELWEIN	6354	6305	6196	6198	6167	6195	6206	6090	5686	5974	6009
829	US 59	S OF 5TH AVE SHENANDOAH	SITE REMOVED JUNE 2011										
830	IA 23	S OF IA 92 OSKALOOSA	2794	2742	NONE	2789	NONE	2656	2584	2578	2485	2591	2684
831	IA 5	W OF FLUER DRIVE DES MOINES	22771	22572	23262	NONE	NONE	29065	28024	28579	22505	NONE	NONE
250	US 65	2.1 MI N OF IA 163 PLEASANT HILL	25083	25034	25599	27101	28598	29994	30739	31061	27892	31083	31058
278	IA 141	0.5 MI N OF IA 44 GRIMES	21762	21702	21922	23410	NONE	25970	27110	28395	26423	30612	31150

**2022 EXPANSION FACTORS  
MUNICIPAL PRIMARY**

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
SEASONAL	1.169	1.091	1.046	0.981	0.923	0.927	0.955	0.948	0.956	0.954	1.038	1.102
Sunday	1.502	1.376	1.357	1.409	1.354	1.325	1.295	1.354	1.355	1.356	1.412	1.456
Monday	0.911	0.923	0.965	0.955	1.031	0.980	1.066	0.965	1.036	0.975	0.910	0.957
Tuesday	0.886	0.983	0.936	0.955	0.971	0.961	0.951	0.955	0.939	0.962	0.925	0.882
Wednesday	0.914	0.936	0.920	0.951	0.955	0.941	0.932	0.936	0.931	0.949	0.889	0.867
Thursday	0.881	0.955	0.939	0.922	0.930	0.923	0.918	0.923	0.907	0.931	0.994	0.984
Friday	0.925	0.876	0.895	0.871	0.860	0.881	0.864	0.882	0.847	0.865	0.904	0.923
Saturday	1.311	1.127	1.154	1.122	1.050	1.138	1.119	1.155	1.174	1.119	1.177	1.168

**ANNUAL AVERAGE DAILY TRAFFIC BY STATIONS FOR THE YEARS 2012 TO 2022**

**SECONDARY**

PAVED

STATION	ROUTE	LOCATION	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022
300	CO P14	2.7 MI N OF CO E33 CHURDAN	268	237	241	238	247	NONE	258	253	234	261	247
301	CO S14	0.8 MI S OF CO E29 NEVADA	988	965	967	969	992	1009	989	960	937	997	938
302	CO M55	0.2 MI N OF IA 141 MANILLA	798	787	793	804	818	NONE	763	778	714	787	741
303	CO K45	2.3 MI S OF IA 175 ONAWA	NONE	1162	1155	NONE	1120	1105	1051	1100	1049	1119	1089
304	CO V45	3.5 MI N OF IA 92 SIGOURNEY	NONE	646	631	636	643	663	671	670	NONE	631	607
306	CO E53	1.8 MI E OF IA 25 SCRANTON	524	497	507	530	539	NONE	526	518	531	555	515
307	CO R38	2.2 MI N OF CO C54 CLARION	1339	1379	NONE	NONE	1421	1398	1376	1332	1203	1293	1285
308	CO N32	1.6 MI N OF IA 9 ESTHERVILLE	NONE	323	NONE	340	NONE	NONE	348	329	361	367	349
309	CO K52	1.5 MI S OF US 18 HULL	1178	1228	1249	NONE	1379	NONE	1415	1423	1422	1566	1578
310	CO Y52	1.5 MI S OF US 30 GRAND MOUND	498	NONE	NONE	NONE	507	509	505	509	492	506	516
311	CO W12	3.5 MI S OF US 30 WATKINS	799	773	744	756	799	799	818	831	751	776	731
312	CO E26	2.7 MI W OF CO RD R38 BOONE	1525	NONE	1481	1525	1630	NONE	1714	1717	1542	1760	1820
313	CO D42	0.2 MI E OF IA 13 MANCHESTER	612	623	679	699	756	783	769	770	762	818	783
314	CO 105	1.3 MI E OF CO S56 NORTHWOOD	744	737	731	772	754	NONE	708	683	665	718	686
315	CO RD	5.5 MI E OF US 63 DRAKESVILLE	682	666	665	679	691	NONE	768	678	694	727	736
316	CO D36	2.8 MI E OF CO N57 ROCKWELL CITY	1157	1014	974	949	NONE	NONE	929	947	901	927	853

Note: Station 316 was previously station 211.  
Co Rd D36 was US 20 until Dec. 2010 when the US 20 4-lane was extended from Moorland to IA 4.

GRAVEL

STATION	ROUTE	LOCATION	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022
400	CO B30	0.5 MI E OF CO L48 PRIMGHAR	18	22	22	22	NONE	20	21	22	24	25	22
401	LOC RD	1.8 MI N OF CO E36 CLUTIER	39	34	35	NONE	NONE	30	29	27	31	31	30
402	LOC RD	0.8 MI E OF CO V18 CLUTIER	54	47	48	46	NONE	NONE	37	42	52	45	40
403	CO H47	5.0 MI SE OF US 34 ALBIA	104	100	NONE	100	99	102	93	89	98	87	92
405	LOC RD	2.5 MI N OF US 18 NEW HAMPTON	51	49	57	NONE	65	NONE	66	59	63	62	61
406	LOC RD	2.0 MI E OF US 169 LORIMOR	NONE	70	68	69	59	59	56	55	57	56	56
407	CO H23	2.0 MI E OF US 169 LORIMOR	76	77	75	72	67	70	65	64	63	60	61

**2022 EXPANSION FACTORS**

**SECONDARY**

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
<b>SEASONAL</b>	1.262	1.191	1.122	1.004	0.877	0.908	0.947	0.956	0.921	0.854	1.036	1.194
<b>Sunday</b>	1.504	1.410	1.428	1.456	1.432	1.394	1.375	1.473	1.421	1.333	1.437	1.417
<b>Monday</b>	0.888	0.889	0.943	0.953	1.020	0.979	1.042	0.957	1.007	0.988	0.904	0.915
<b>Tuesday</b>	0.872	0.969	0.914	0.919	0.945	0.938	0.940	0.927	0.895	0.975	0.965	0.916
<b>Wednesday</b>	0.916	0.925	0.903	0.940	0.960	0.926	0.899	0.903	0.913	0.970	0.904	0.848
<b>Thursday</b>	0.868	0.957	0.941	0.937	0.963	0.917	0.928	0.927	0.919	0.936	0.964	1.012
<b>Friday</b>	0.972	0.905	0.921	0.888	0.868	0.901	0.892	0.886	0.899	0.889	0.912	0.992
<b>Saturday</b>	1.367	1.167	1.198	1.161	1.038	1.176	1.148	1.214	1.280	1.085	1.180	1.174

**ANNUAL AVERAGE DAILY TRAFFIC BY STATIONS FOR THE YEARS 2012 TO 2022  
MUNICIPAL STREETS**

STATION	ROUTE	LOCATION	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022
900	LAKE ST	N OF 3RD ST in STORM LAKE	2610	2587	2556	2616	2662	2570	2454	2437	2260	2586	2537
901	2ND AVE N	E OF 15TH ST in FORT DODGE	6444	6024	NONE	NONE	NONE	NONE	6243	6152	6002	6191	6183
902	LOCUST ST	E OF SPRING ST in DAVENPORT	NONE	20336	19630	20177	19332	19515	18481	17935	16703	18158	17755
903	JEFFERSON	NE OF E 5TH ST in OTTUMWA	5699	5628	NONE	5329	NONE	NONE	4367	NONE	4209	4341	4373
904	JOHNSON	W OF JANICE DR in CEDAR RAPIDS	9258	9057	8931	NONE	NONE	NONE	NONE	NONE	NONE	NONE	NONE
905	N'WESTERN	N OF 20TH ST in AMES	NONE	2211	2178	NONE	NONE	2131	2118	2117	1596	1803	1905
906	DUBUQUE	S OF DAVENPORT ST in IOWA CITY	13518	NONE	12861	13339	NONE	NONE	NONE	12357	9612	11639	12412
907	COLLEGE	S OF 23RD ST in CEDAR FALLS	NONE	NONE	7410	7323	7177	7341	7195	7163	5889	6642	6562
908	LIND'WOOD	S OF 35TH ST in SIOUX CITY	960	NONE	NONE	NONE	904	874	784	8810	760	843	NONE
909	HAMILTON	N OF CLIFTON AVE in SIOUX CITY	14584	NONE	13719	14701	15289	15446	15197	14956	13950	15250	14856
910	GRANDVIEW	SE OF PLYMOUTH CT in DUBUQUE	8833	8411	7983	8465	NONE	8541	8453	8583	7790	8076	7939
911	HUMBOLDT	S OF 4TH ST in BODE	NONE	684	695	665	660	673	696	675	657	668	647
912	ELM ST	N OF LUCAS ST in CRESTON	3735	3550	NONE	3364	3440	3310	3212	3080	2868	2987	2939
913	WASHINGTON	E OF HARRISON ST in MOUNT PLEASANT	SITE REMOVED SEPTEMBER 2010										
* 914	16TH ST	S OF AVE N in COUNCIL BLUFFS	6004	5949	6208	9535	10236	10880	10876	10829	9529	10069	11184

Note: Station 914 was previously station 811  
16th Street was IA 192 until 2016 when it was transferred to the city of Council Bluffs.

**2022 EXPANSION FACTORS  
MUNICIPAL STREETS**

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
SEASONAL	1.153	1.059	1.029	0.963	0.929	0.991	1.022	0.967	0.933	0.914	1.030	1.123
Sunday	1.457	1.339	1.315	1.405	1.351	1.310	1.282	1.303	1.326	1.328	1.357	1.404
Monday	0.919	0.924	0.959	0.961	1.024	0.989	1.036	0.969	1.043	0.978	0.909	0.964
Tuesday	0.892	0.974	0.932	0.944	0.958	0.947	0.948	0.952	0.928	0.959	0.916	0.900
Wednesday	0.907	0.923	0.920	0.939	0.939	0.935	0.932	0.938	0.928	0.949	0.895	0.890
Thursday	0.886	0.942	0.937	0.924	0.931	0.930	0.927	0.948	0.914	0.930	1.024	0.996
Friday	0.924	0.888	0.907	0.880	0.868	0.891	0.887	0.895	0.858	0.884	0.923	0.924
Saturday	1.312	1.177	1.183	1.138	1.081	1.136	1.111	1.125	1.186	1.108	1.160	1.106



**ANNUAL AVERAGE DAILY TRAFFIC BY STATIONS FOR THE YEARS 2012 TO 2022  
RECREATIONAL**

**PRIMARY**

STATION	ROUTE	LOCATION
500	US 71	0.1 MI S OF CO RD B14 FOSTORIA
501	IA 5	3.8 MI S OF US 34 MORAVIA
503	IA 415	0.5 MI W OF NW POLK CITY RD POLK CITY

2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022
NONE	NONE	8284	8724	8741	8908	8867	8859	8027	8820	8638
3772	3711	3582	4041	4106	4112	4112	4122	4008	4252	4242
6445	6697	NONE	7530	8418	8872	9185	9377	9125	10300	10571

**SECONDARY**

STATION	ROUTE	LOCATION
600	CO F25	0.1 MI W OF CO P18 SPRINGBROOK
602	ENTRANCE	GEORGE WYTH S. P. WATERLOO
603	ENTRANCE	3.3 MI N OF IA 25 GREEN VALLEY S. P.

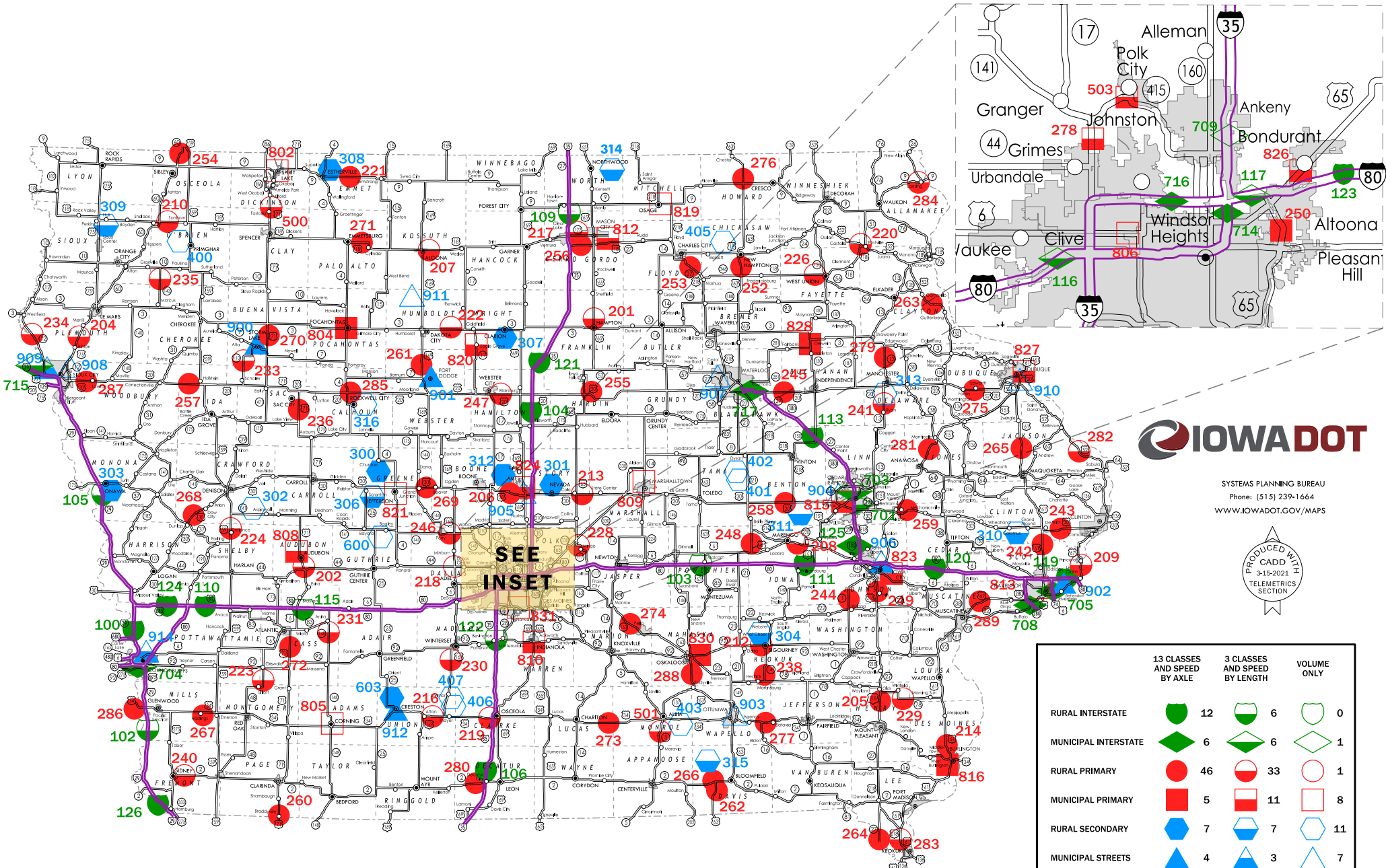
2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022
188	181	176	178	182	173	159	151	175	177	168
850	NONE	748	748	789	806	725	595	974	849	718
262	283	279	NONE	324	321	298	277	375	360	318

**2022 EXPANSION FACTORS  
RECREATIONAL**

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
<b>SEASONAL</b>	1.535	1.367	1.234	1.065	0.817	0.786	0.788	0.876	0.878	0.982	1.319	1.600
Sunday	1.231	1.087	1.085	1.175	1.128	1.001	0.981	1.046	1.006	1.087	1.264	1.217
Monday	0.951	0.946	0.980	1.017	1.054	1.143	1.089	1.105	1.065	1.129	0.935	0.930
Tuesday	0.934	1.047	1.003	1.067	1.186	1.081	1.148	1.079	1.100	1.092	0.948	0.946
Wednesday	0.996	1.068	0.969	1.121	1.142	1.087	1.088	1.048	1.129	1.089	0.900	0.889
Thursday	0.927	1.101	1.129	1.001	1.072	1.031	1.048	1.031	1.058	1.054	1.017	1.070
Friday	1.033	0.949	1.021	0.906	0.847	0.879	0.912	0.891	0.868	0.908	0.965	1.015
Saturday	1.118	1.012	1.054	0.907	0.832	0.941	0.913	0.940	0.943	0.888	1.090	1.058

# AUTOMATIC TRAFFIC RECORDER LOCATIONS

JANUARY 1, 2022



SYSTEMS PLANNING BUREAU  
Phone: (515) 239-1664  
WWW.IOWADOT.GOV/MAPS

