



AUTOMATIC TRAFFIC RECORDERS

2006 - 2016

Prepared by

OFFICE OF SYSTEMS PLANNING

In Cooperation With

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

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JANUARY 2017

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INTRODUCTION

This report contains graphic comparisons of daily and monthly traffic collected on Iowa's highway system at 167 Permanent Continuous Automatic Traffic Recorder locations. Twenty (20) stations are located on the Rural Interstate system, seven (7) are on the Municipal Interstate system, seventy-eight (78) are on the Rural Primary system, twenty-three (23) are on the Municipal Primary system, twenty-six (26) are on the Rural Secondary system and thirteen (13) are on the Municipal Street system. The map on page 26 shows the general location of count sites. Specific descriptions of locations, along with an eleven year summary of AADT's for each station, start on page 19. Sites without an AADT for 2016 were not used not 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 2007 - 2016.

Information from the permanent traffic recorders indicates a 2.2% increase in statewide travel from 2015 to 2016. The estimated vehicle miles of travel for 2016 is 33.84 billion. Final 2016 traffic figures will be published near June 2017, when all traffic data collected during 2016 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

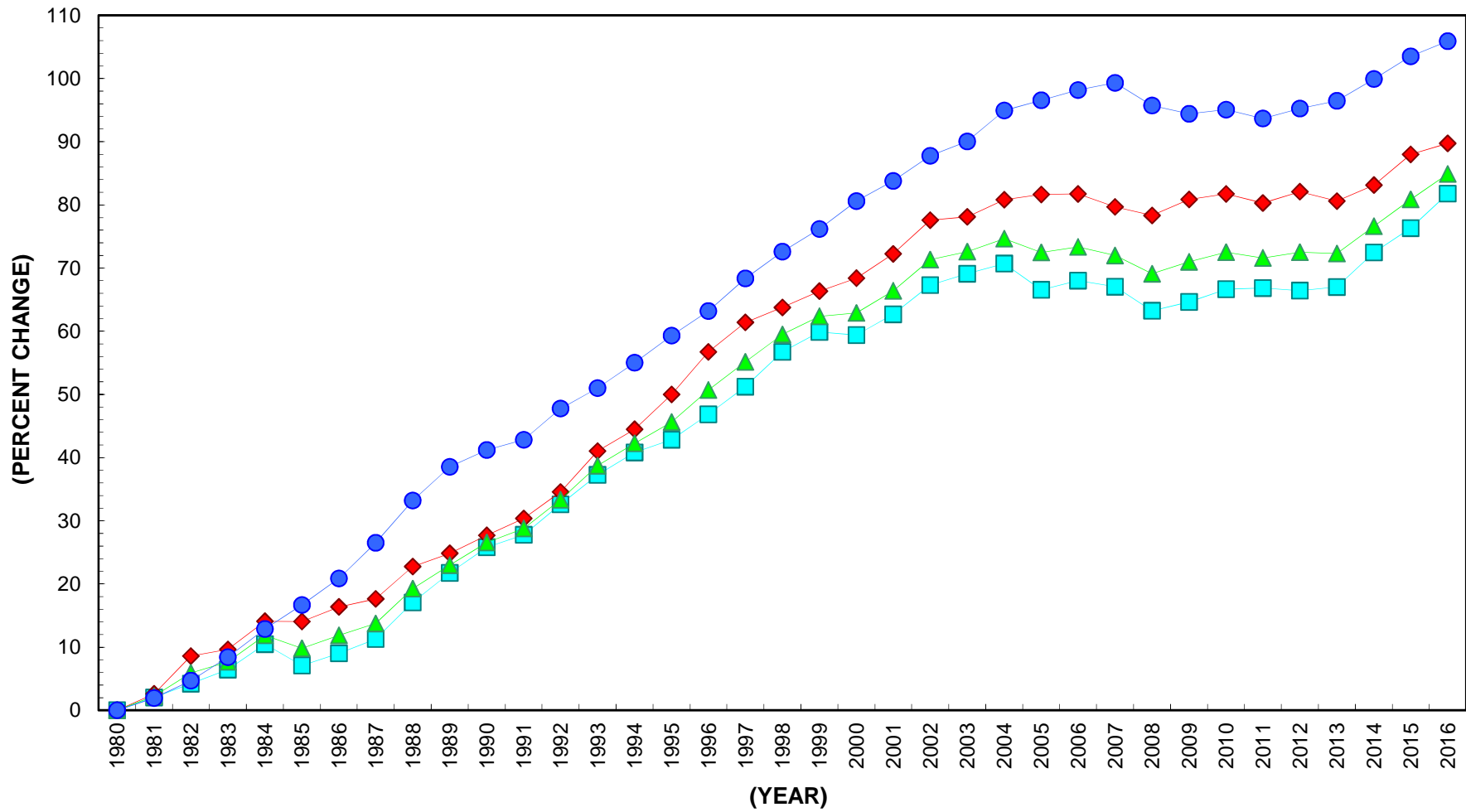
IOWA ROAD SYSTEMS

	2016 COMPARED TO 2015
RURAL INTERSTATE	+ 3.6 %
RURAL PRIMARY	+ 3.0 %
RURAL SECONDARY	+ 2.7 %
RURAL TOTAL	+ 3.1 %
MUNICIPAL INTERSTATE	+ 2.2 %
MUNICIPAL PRIMARY	+ 1.8 %
MUNICIPAL STREETS	NO CHANGE
MUNICIPAL TOTAL	+ 0.9 %
STATE TOTAL	+ 2.2 %

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

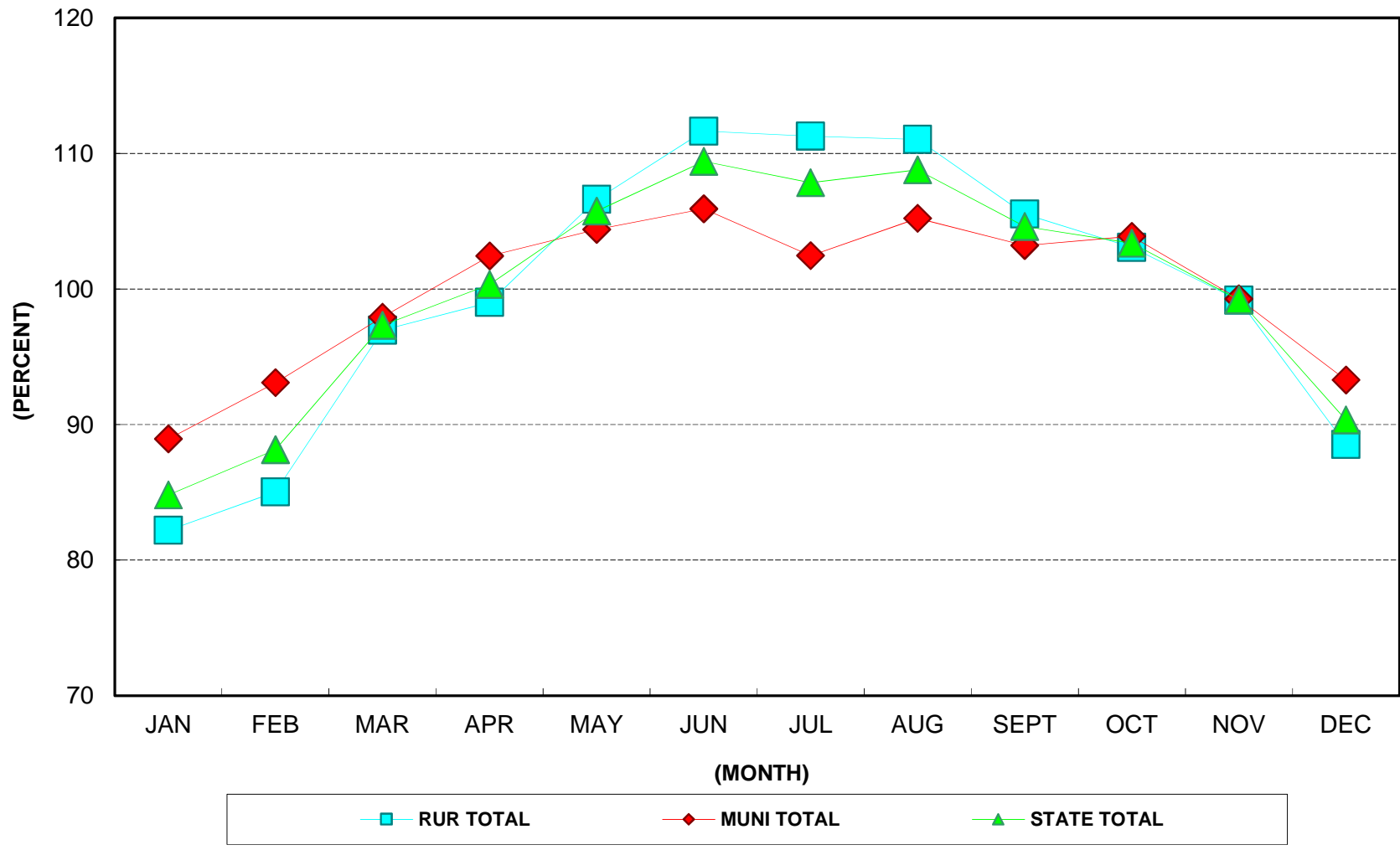
BASE YEAR 1980



■ RURAL
 ◆ MUNICIPAL
 ▲ STATE
 ● U.S.

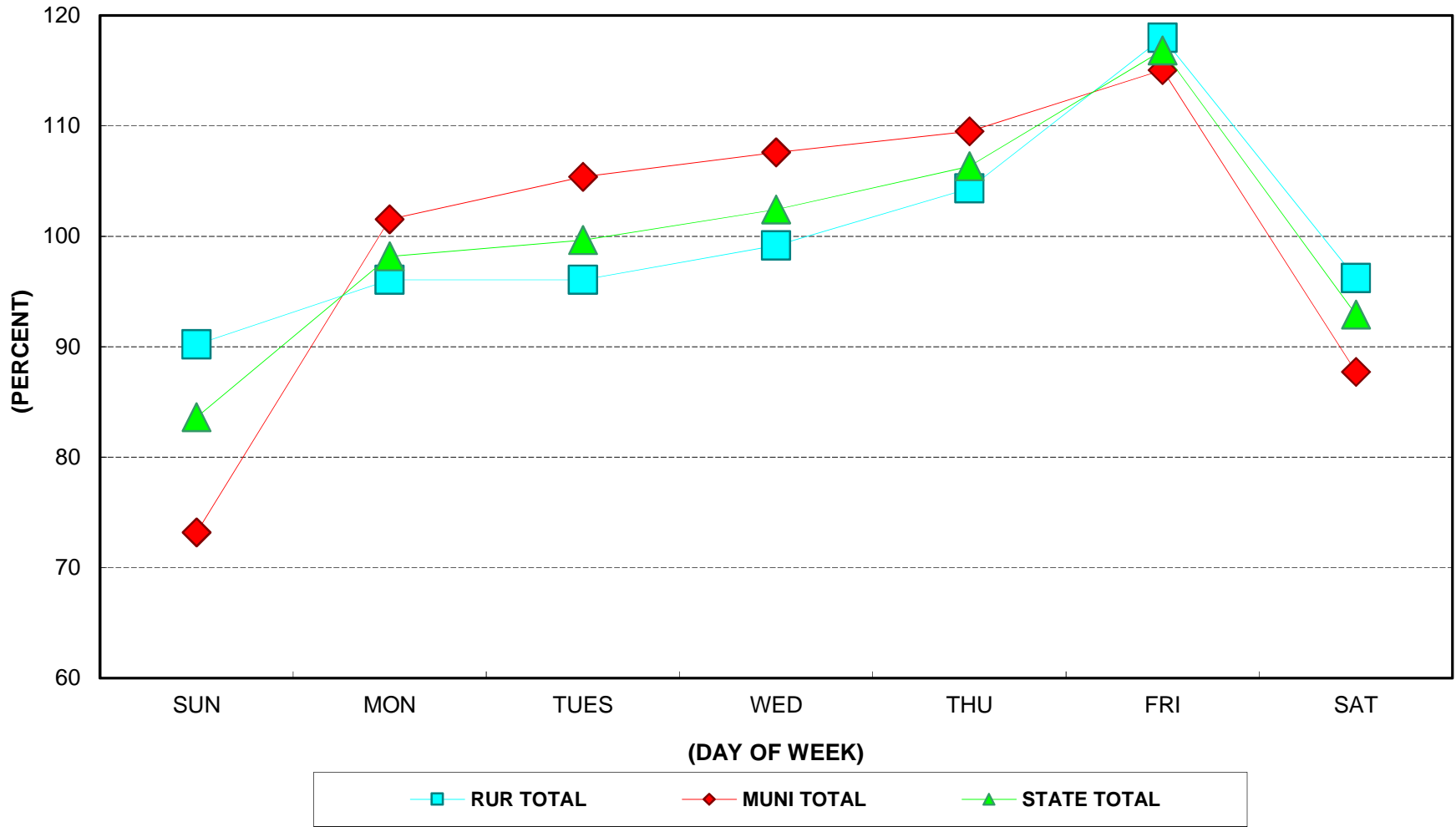
2016 MONTHLY TRAFFIC

AS A % OF ANNUAL AVERAGE DAILY TRAFFIC



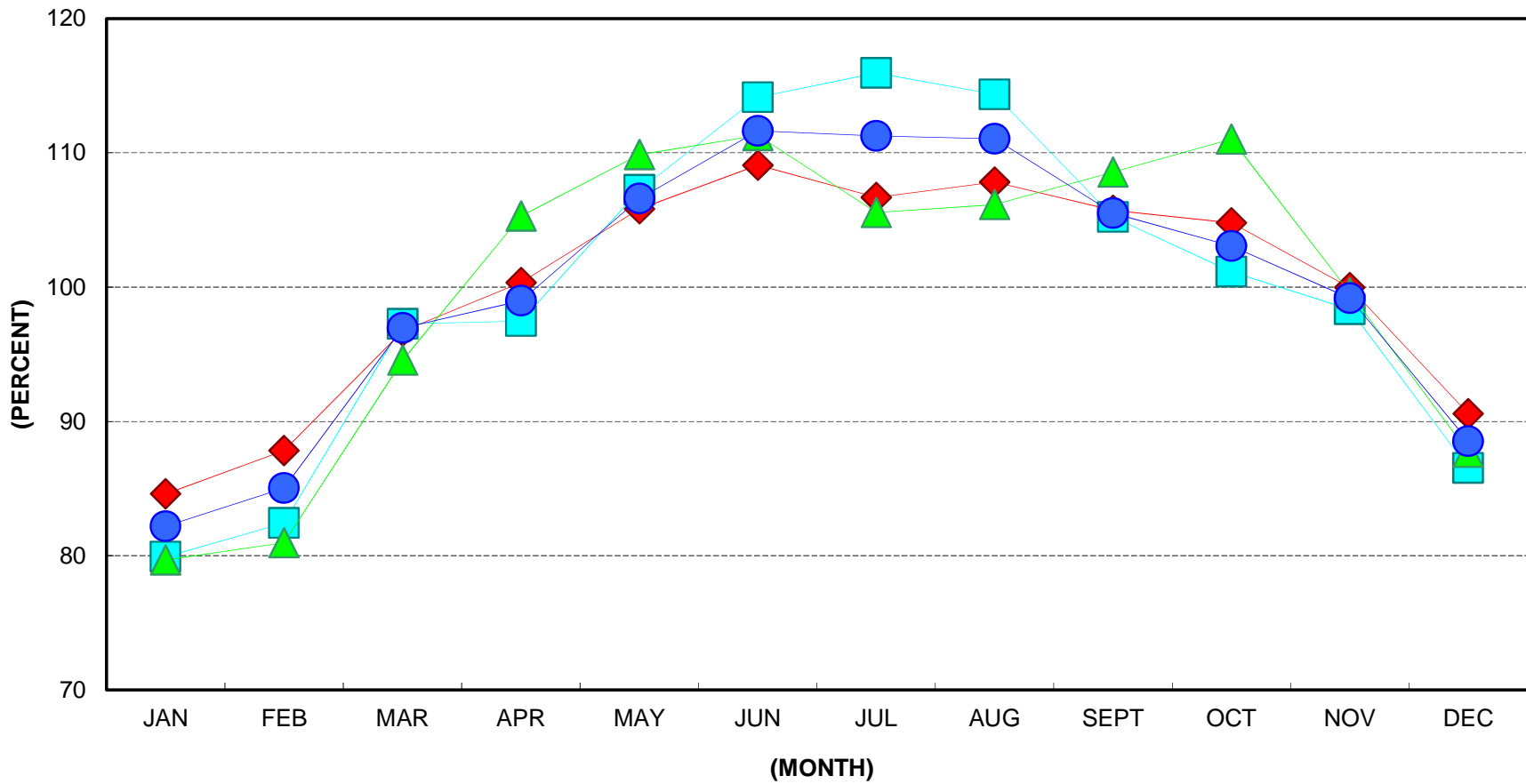
2016 DAY OF WEEK TRAFFIC

AS A % OF ANNUAL AVERAGE DAILY TRAFFIC



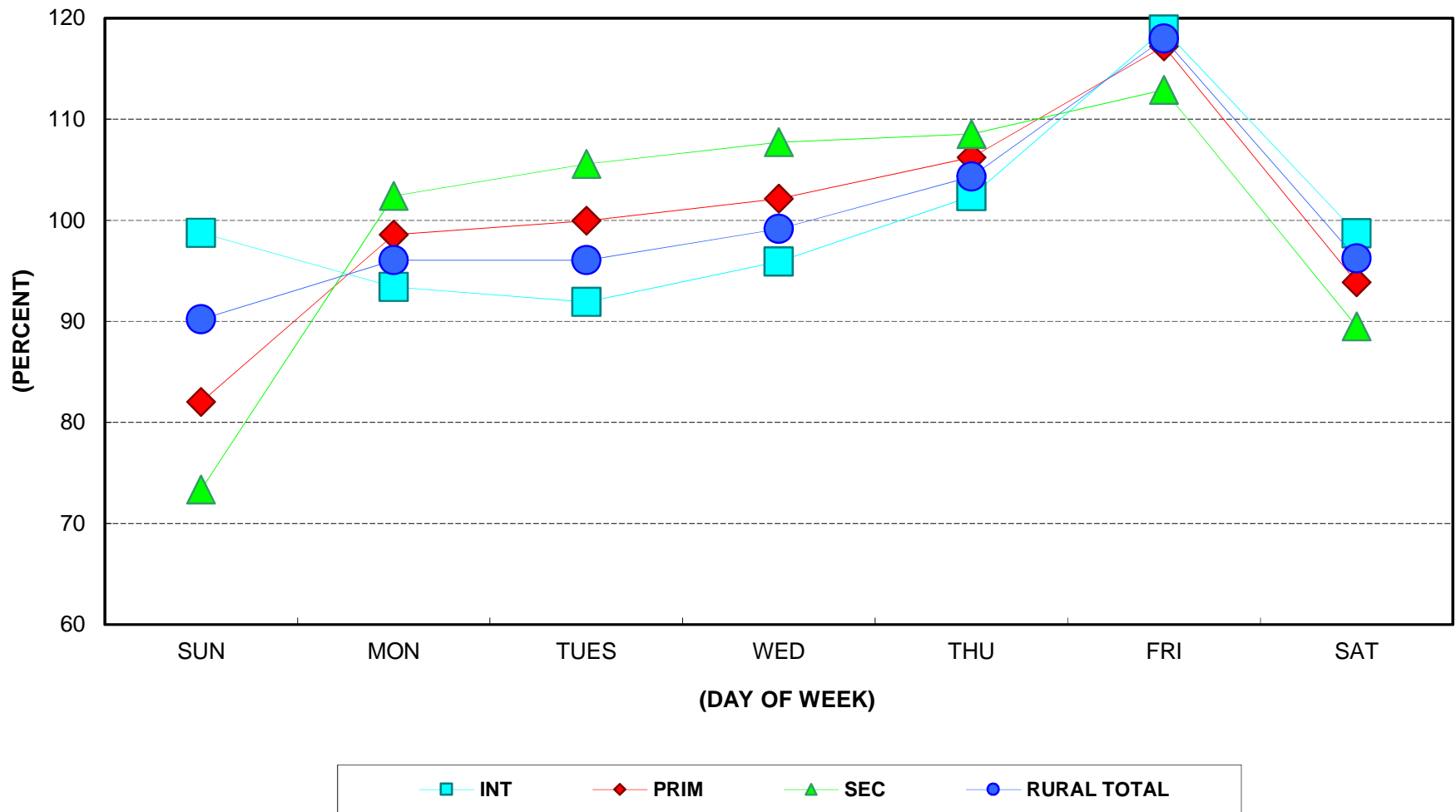
2016 RURAL MONTHLY TRAFFIC

AS A % OF ANNUAL AVERAGE DAILY TRAFFIC



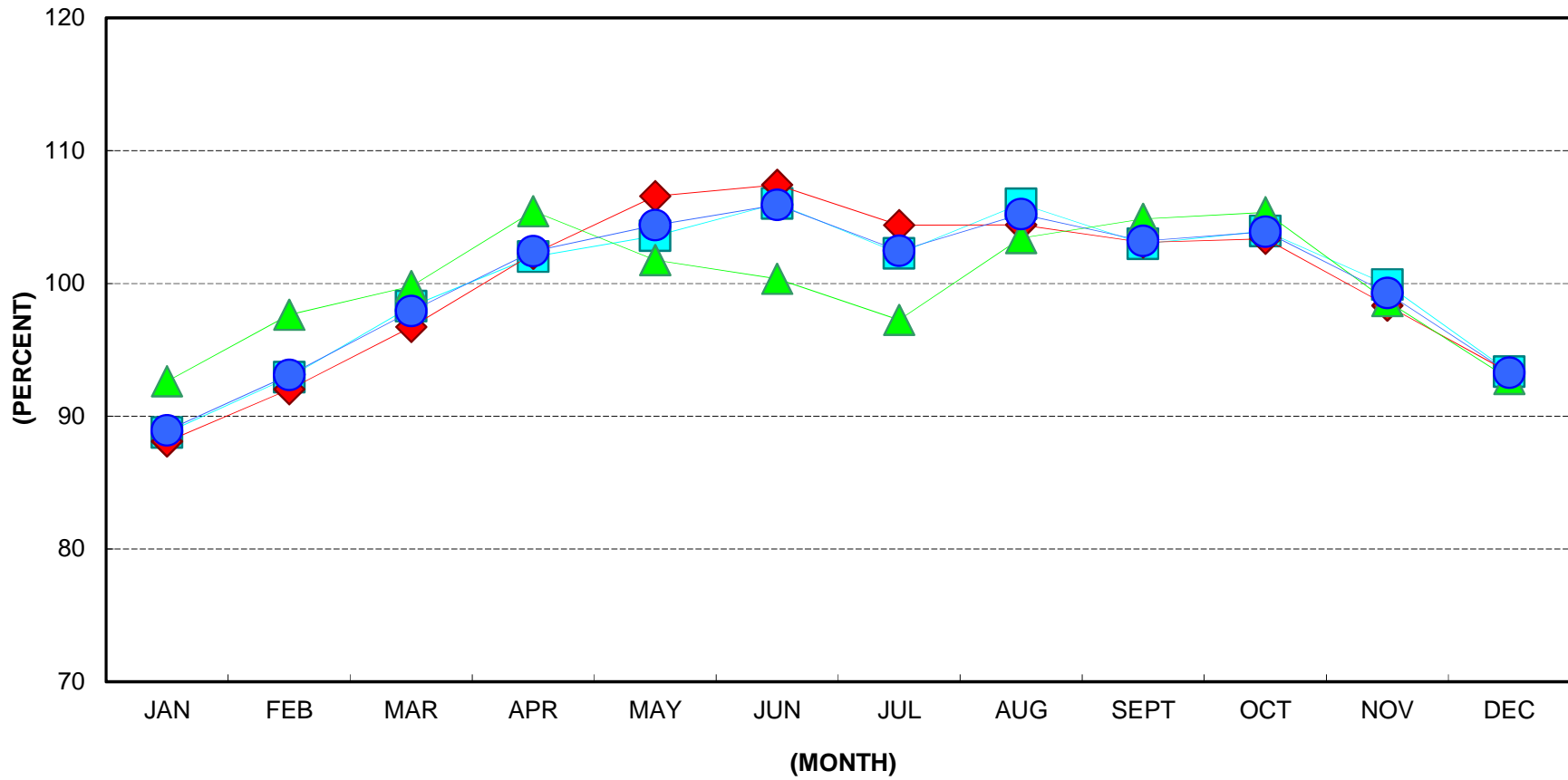
2016 RURAL DAY OF WEEK TRAFFIC

AS A % OF ANNUAL AVERAGE DAILY TRAFFIC



2016 MUNICIPAL MONTHLY TRAFFIC

AS A % OF ANNUAL AVERAGE DAILY TRAFFIC



INT

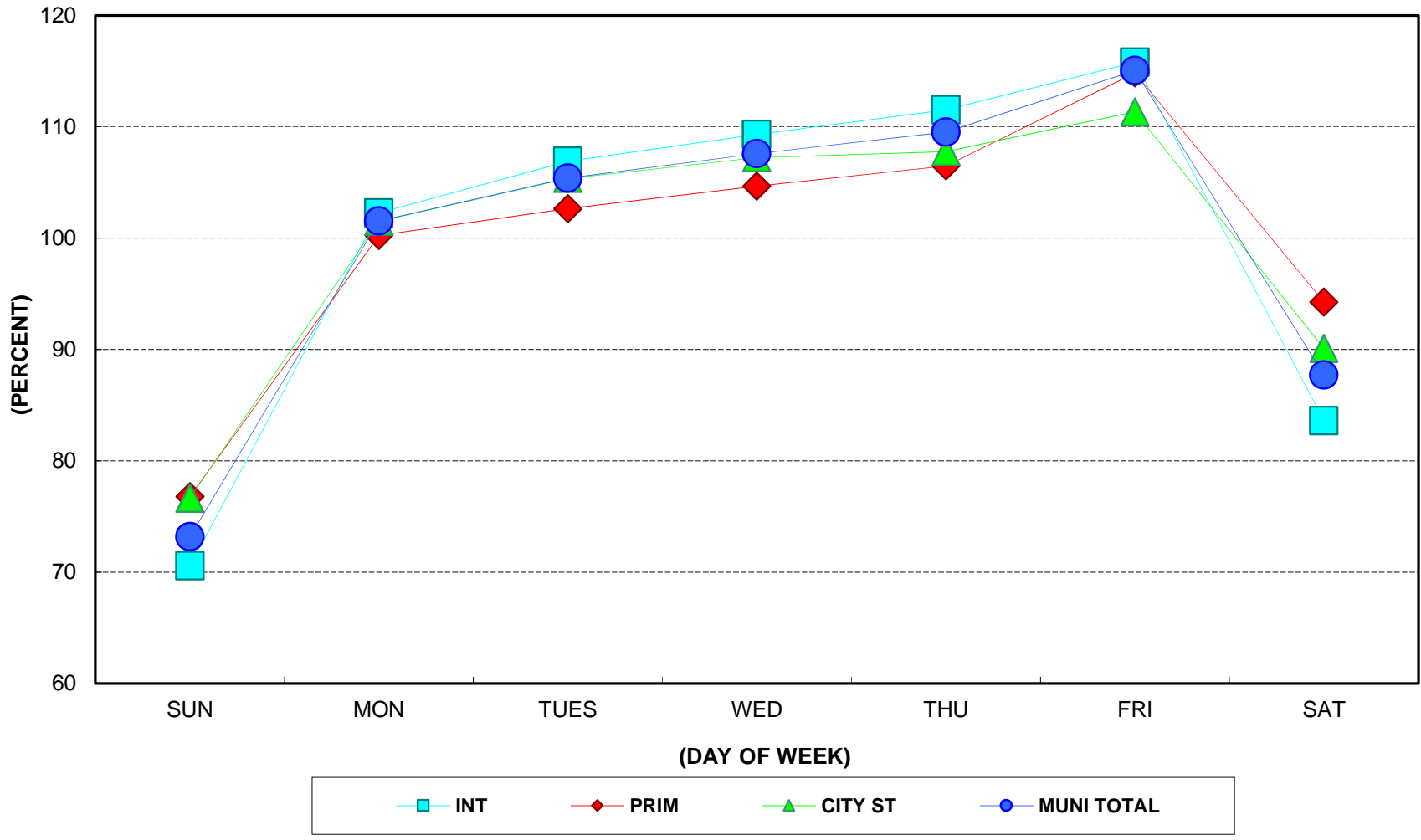
PRIM

CITY ST

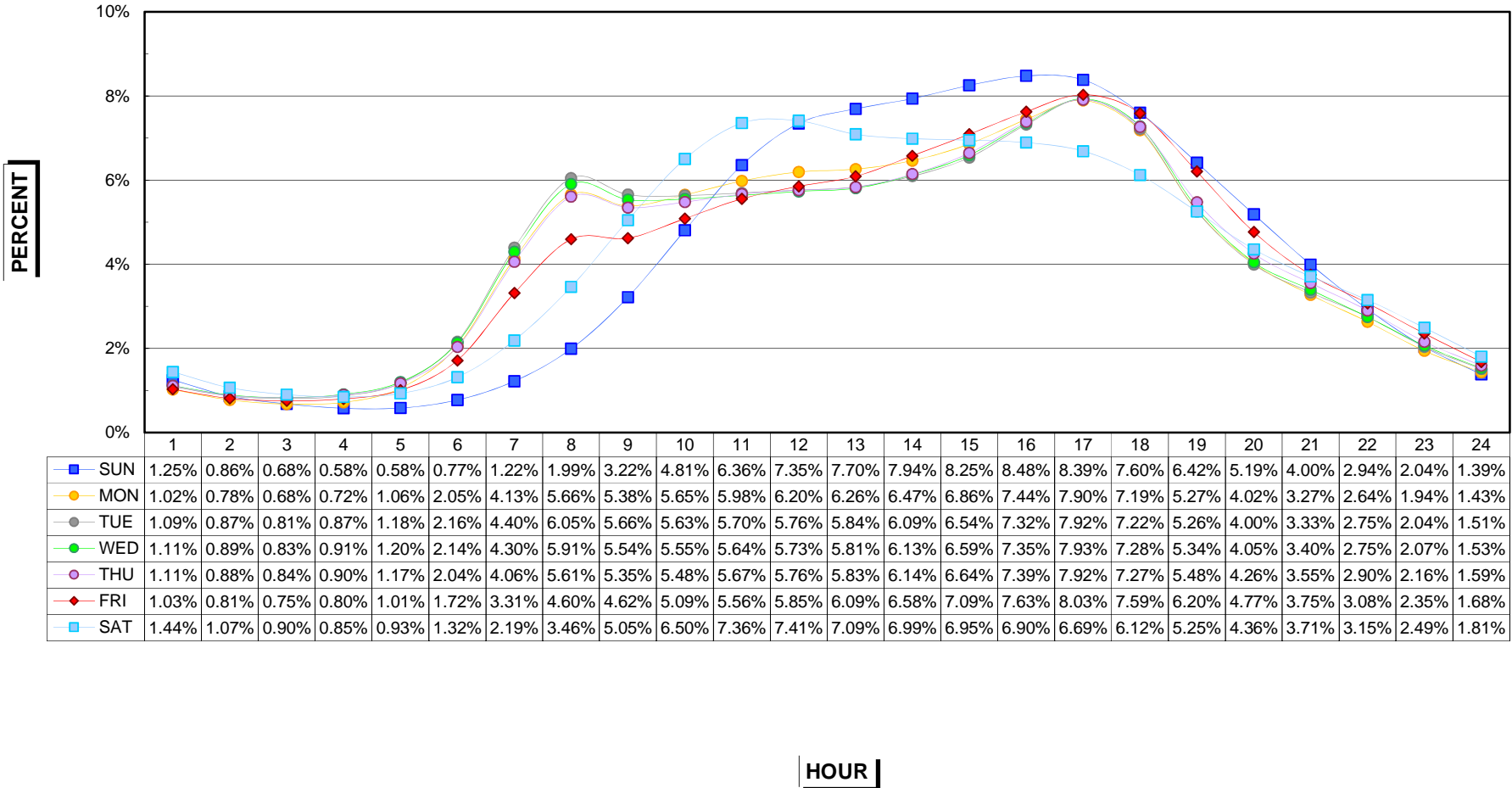
MUNI TOTAL

2016 MUNICIPAL DAY OF WEEK TRAFFIC

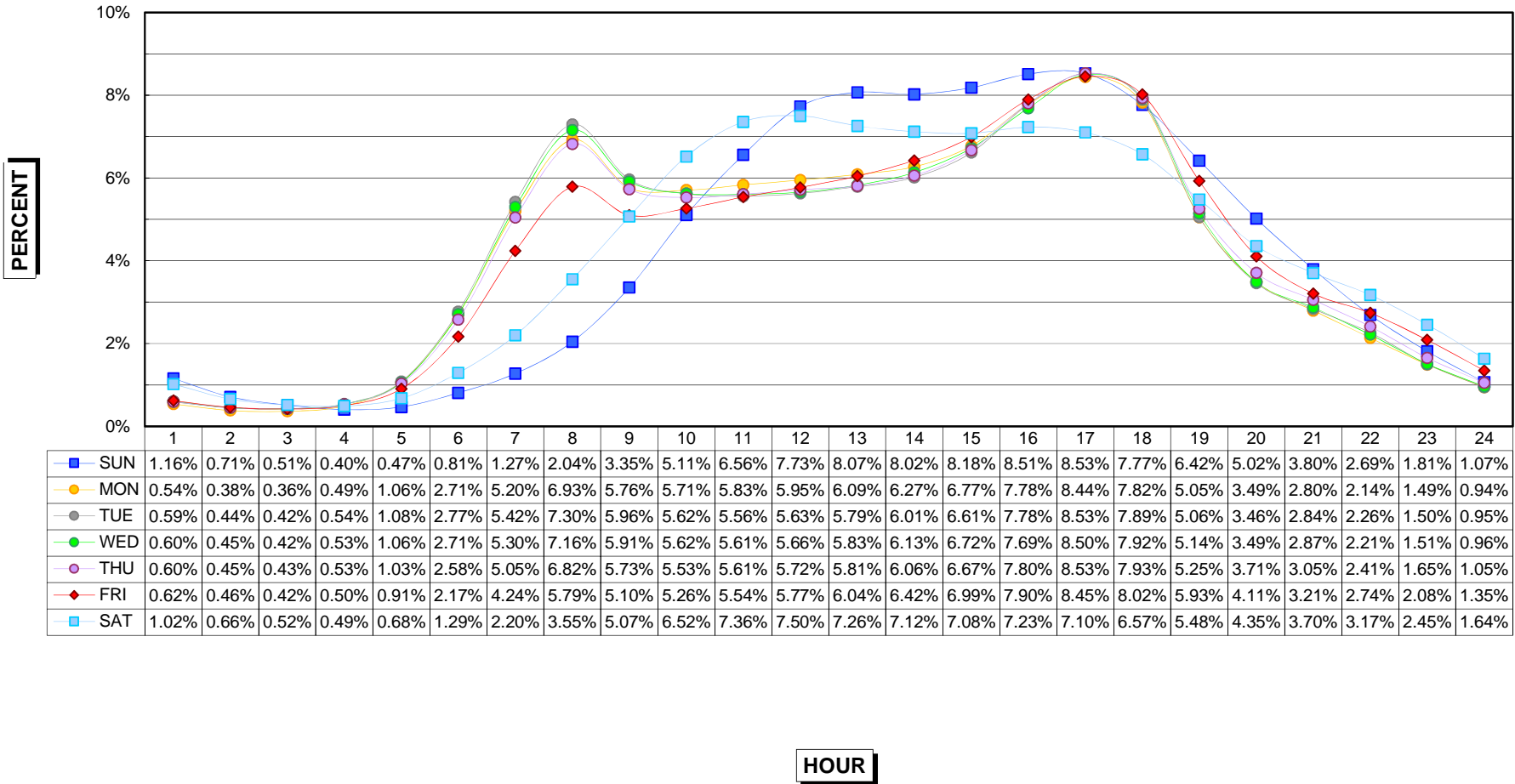
AS A % OF ANNUAL AVERAGE DAILY TRAFFIC



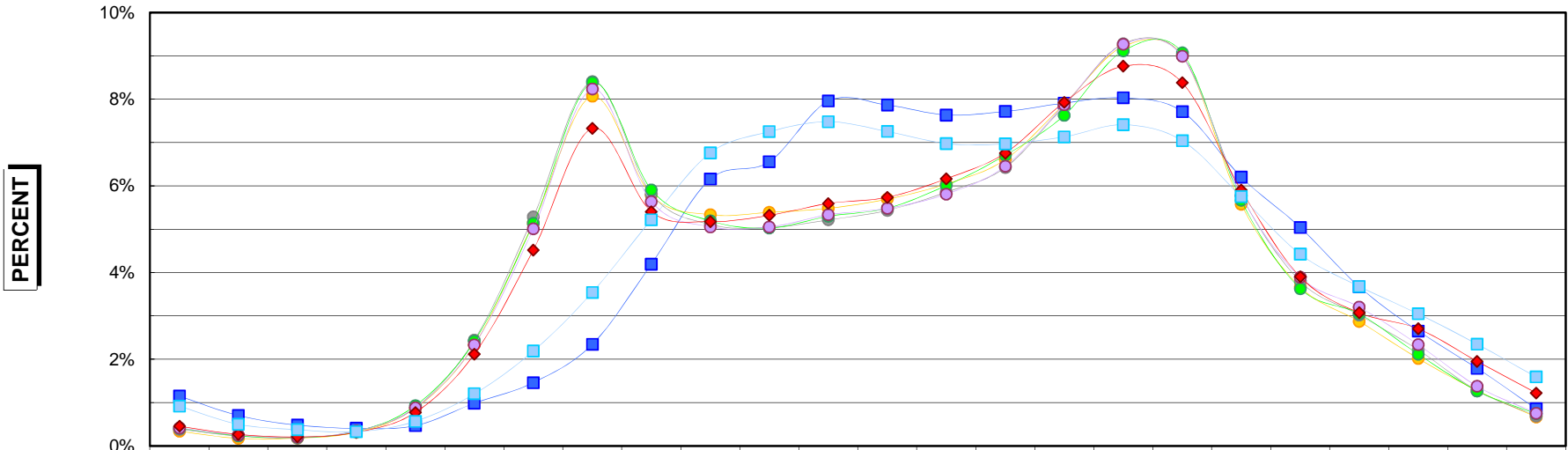
HOURLY DISTRIBUTION OF DAILY TRAFFIC 2016 RURAL INTERSTATE



HOURLY DISTRIBUTION OF DAILY TRAFFIC 2016 RURAL PRIMARY



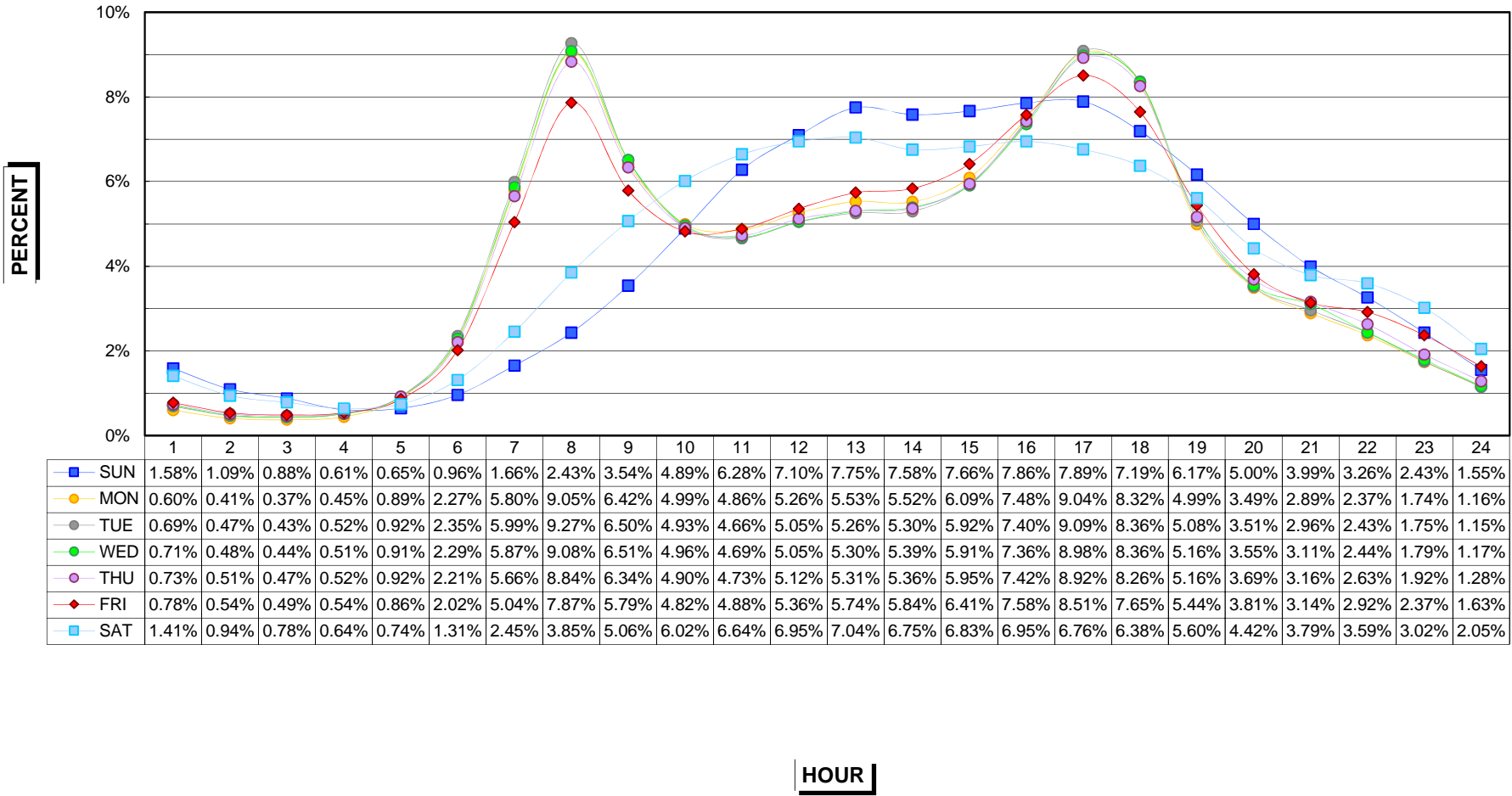
HOURLY DISTRIBUTION OF DAILY TRAFFIC 2016 RURAL SECONDARY



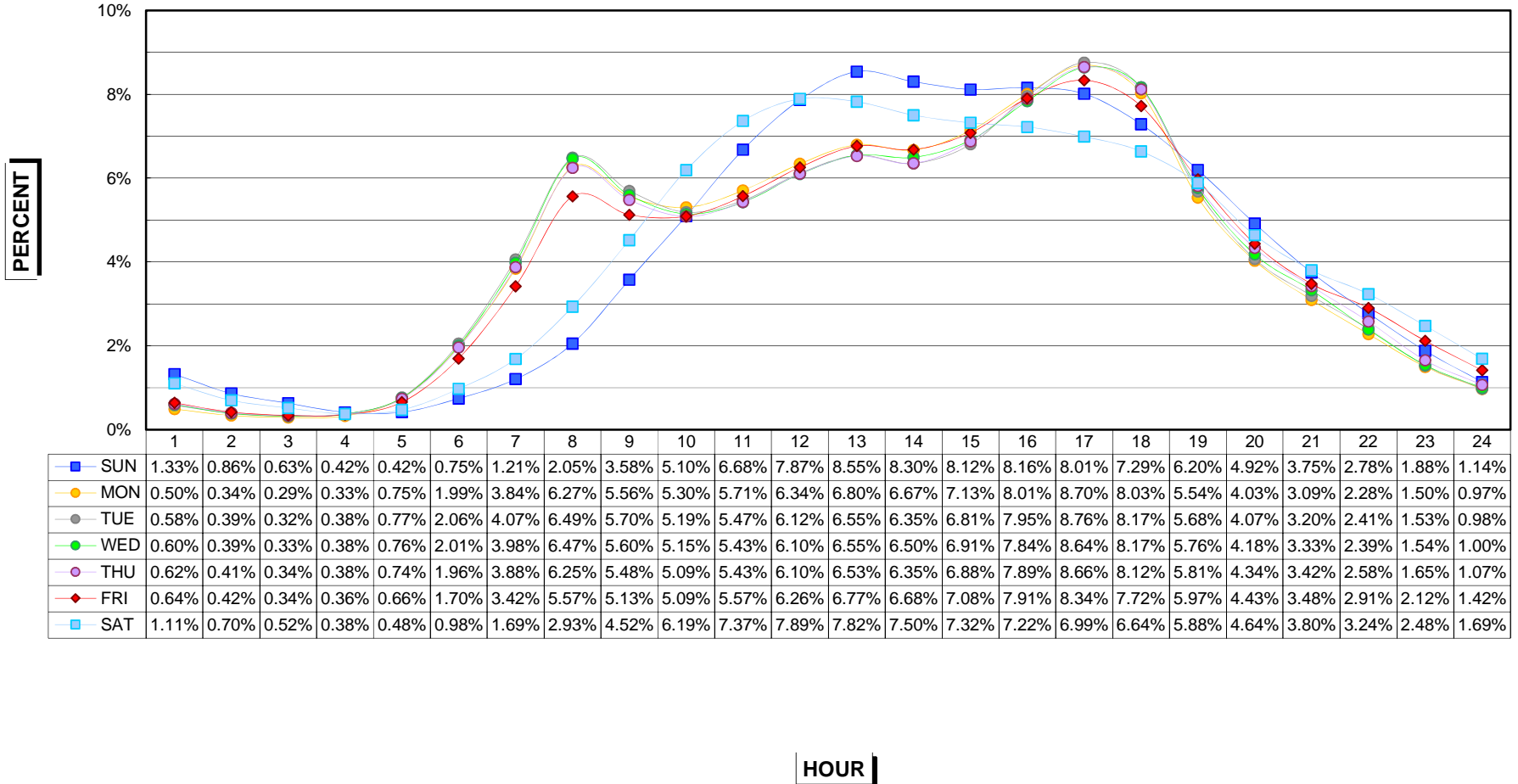
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24
SUN	1.15%	0.70%	0.48%	0.41%	0.47%	0.99%	1.46%	2.35%	4.19%	6.16%	6.56%	7.96%	7.87%	7.64%	7.72%	7.91%	8.03%	7.72%	6.21%	5.04%	3.67%	2.65%	1.79%	0.86%
MON	0.34%	0.18%	0.18%	0.32%	0.87%	2.33%	5.15%	8.07%	5.78%	5.34%	5.39%	5.48%	5.70%	6.05%	6.61%	7.89%	9.22%	9.01%	5.58%	3.67%	2.88%	2.02%	1.28%	0.67%
TUE	0.39%	0.23%	0.19%	0.35%	0.89%	2.44%	5.28%	8.41%	5.81%	5.11%	5.04%	5.22%	5.44%	5.86%	6.43%	7.85%	9.28%	9.01%	5.78%	3.80%	3.02%	2.22%	1.27%	0.70%
WED	0.41%	0.24%	0.20%	0.34%	0.93%	2.42%	5.14%	8.39%	5.91%	5.20%	5.03%	5.30%	5.48%	6.01%	6.71%	7.63%	9.12%	9.07%	5.67%	3.63%	3.05%	2.12%	1.27%	0.74%
THU	0.42%	0.26%	0.20%	0.34%	0.88%	2.33%	5.01%	8.23%	5.64%	5.06%	5.05%	5.34%	5.48%	5.81%	6.46%	7.87%	9.26%	8.99%	5.77%	3.90%	3.20%	2.34%	1.38%	0.76%
FRI	0.46%	0.27%	0.21%	0.31%	0.78%	2.12%	4.52%	7.33%	5.41%	5.18%	5.32%	5.60%	5.74%	6.17%	6.76%	7.93%	8.76%	8.38%	5.90%	3.90%	3.07%	2.71%	1.95%	1.22%
SAT	0.92%	0.50%	0.38%	0.33%	0.57%	1.21%	2.19%	3.55%	5.22%	6.76%	7.25%	7.48%	7.26%	6.98%	6.97%	7.13%	7.41%	7.05%	5.75%	4.43%	3.68%	3.05%	2.35%	1.59%

HOUR

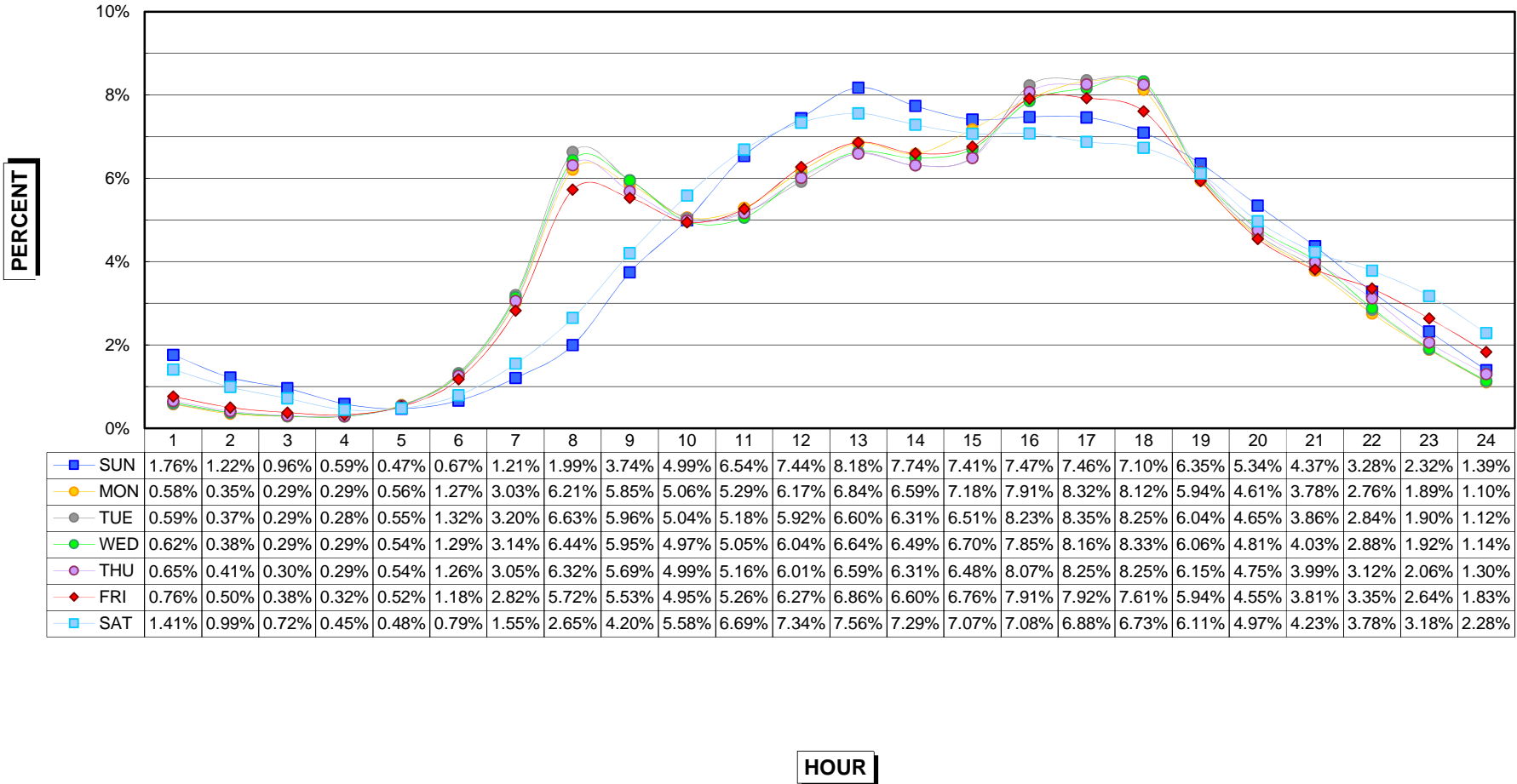
HOURLY DISTRIBUTION OF DAILY TRAFFIC 2016 MUNICIPAL INTERSTATE



HOURLY DISTRIBUTION OF DAILY TRAFFIC 2016 MUNICIPAL PRIMARY



HOURLY DISTRIBUTION OF DAILY TRAFFIC 2016 MUNICIPAL STREETS



SUMMARY OF ANALYSIS

Analysis of the Thirtieth Highest Hour at the Permanent Continuous Automatic Traffic Recorder Stations 2007 - 2016

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, 2006 through 2015.

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	12.24	10.84	372.85	9.72	4.21	12.43	-	-
Municipal	40.13	10.23	26.69	10.59	-	-	51.97	10.00

**ANNUAL AVERAGE DAILY TRAFFIC BY STATIONS FOR THE YEARS 2006 TO 2016
RURAL INTERSTATE**

STATION	ROUTE	LOCATION	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016
100	I 29	2.0 MI N OF S JCT I 680 HONEY CREEK	21484	21033	20246	20170	20593	NONE	19730	19907	20696	21770	22259
102	I 29	7.0 MI S OF US 34 PACIFIC JCT	12495	12300	11793	11761	11868	NONE	12008	12337	13563	13530	13780
103	I 80	1.0 MI W OF US 63 GRINNELL	26940	26853	26118	26234	26569	26045	26046	26235	26523	27320	28119
104	I 35	3.0 MI N OF IA 175 JEWELL	20629	20598	20147	20509	NONE	21248	21437	21726	21775	22963	23783
105	I 29	3.8 MI S OF IA 175 ONAWA	12283	12418	12096	12512	12791	NONE	12587	12667	13150	14096	14350
106	I 35	1.5 MI N OF IA 2 LEON	13290	13227	12705	12715	12786	12783	12699	NONE	NONE	13661	14115
109	I 35	3.0 MI N OF CO B20 HANLONTOWN	18466	18611	17794	18757	19118	19192	19254	19184	19324	20097	20923
110	I 80	1.5 MI W OF CO M16 SHELBY	22670	22752	21727	22189	22950	NONE	NONE	23070	23517	24441	25519
111	I 80	2.0 MI E OF IA 149 WILLIAMSBURG	31347	31325	29718	29950	NONE	NONE	NONE	30642	31210	32352	33298
113	I 380	1.5 MI N OF IA 150 BRANDON	14695	14976	14648	15084	15665	15796	15905	15937	16186	16741	17520
115	I 80	2.0 MI E OF US 71 ATLANTIC	19480	19697	19267	19067	19879	19661	19740	19821	20113	21331	22176
116	I 80	0.8 MI W OF 74TH ST WAUKEE	35190	34897	33977	34437	35427	35272	35527	NONE	NONE	39315	45973
117	I 80	1.8 MI E OF E JCT I 35/80/235 ALTOONA	70362	68589	67650	69757	72678	73105	74017	74863	75290	NONE	77337
119	I 80	1.5 MI E OF MIDDLE RD LECLAIRE	28926	28639	27436	27398	NONE	29604	29978	29000	30825	32582	NONE
120	I 80	2.5 MI E OF CO RD X40 TIPTON	32583	32755	31284	31386	32327	NONE	31963	32640	33523	NONE	NONE
121	I 35	2.0 MI N OF CO RD R75 DOWS	14112	13858	13376	13822	NONE	14291	14270	14195	14506	15227	15730
122	I 35	1.0 MI N OF IA 92 CUMMING			21255	21339	21205	21105	21087	21044	NONE	NONE	21974
123	I 80	4.8 MI E OF E JCT US 65 MITCHELLVILLE					35329	35061	35253	34996	NONE	NONE	NONE
124	I 680	6.4 MI W OF I 80 BEEBETOWN					6196	NONE	5947	5913	6039	6311	NONE
125	I 380	6.0 MI N OF I 80 NORTH LIBERTY						NONE	48518	49835	51703	53335	NONE

**2016 EXPANSION FACTORS
RURAL INTERSTATE**

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
SEASONAL	1.259	1.223	1.036	1.003	0.921	0.865	0.842	0.868	0.946	0.974	1.015	1.109
Sunday	1.083	1.113	1.007	0.979	1.009	0.948	0.943	0.959	0.939	0.931	0.927	1.074
Monday	1.076	1.052	1.083	1.076	1.069	1.094	1.091	1.092	1.051	1.106	1.163	1.078
Tuesday	1.045	1.098	1.106	1.102	1.118	1.123	1.108	1.122	1.155	1.131	1.080	1.017
Wednesday	1.008	1.049	1.059	1.067	1.083	1.069	1.057	1.067	1.118	1.078	0.958	0.979
Thursday	0.982	0.955	0.982	0.976	0.988	0.989	0.963	1.002	1.020	0.998	1.044	0.973
Friday	0.851	0.800	0.814	0.825	0.817	0.840	0.860	0.849	0.820	0.824	0.891	0.873
Saturday	1.015	1.032	1.034	1.058	1.001	1.020	1.051	0.987	0.992	1.027	1.013	1.059

**ANNUAL AVERAGE DAILY TRAFFIC BY STATIONS FOR THE YEARS 2006 TO 2016
MUNICIPAL INTERSTATE**

STATION	ROUTE	LOCATION	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016
701	I 380	BTWN WILSON AND 33RD CEDAR RAPIDS	64968	64650	63791	65296	66377	66597	66619	66629	67456	69639	71681
703	I 380	AT J AVE S OF COLDSTREAM CEDAR RAPIDS	82503	82450	80922	80465	84299	82907	82911	82286	83915	85038	81120
704	I 29/80	0.6 MI W OF IA 192 COUNCIL BLUFFS	79350	79516	76838	75586	75988	NONE	75521	NONE	NONE	NONE	NONE
705	I 74	0.6 MI S OF US 6 BETTENDORF	49099	48849	48427	47738	NONE	45756	47653	49404	49577	NONE	NONE
707	I 29	AT SOUTH DAKOTA BORDER SIOUX CITY		28070	27931	28175			SITE REMOVED JANUARY 2010				
708	I 280	0.3 MI S OF IA 22 DAVENPORT					NONE	19943	NONE	NONE	NONE	NONE	NONE
709	I 35	N OF ORALABOR ROAD ANKENY					NONE	59603	57945	60027	62687	NONE	65440
710	I 235	E. INNERLEG OF 35TH ST WEST DES MOINES					NONE	NONE	NONE	NONE	NONE	NONE	NONE
711	I 235	S OF GUTHRIE AVENUE DES MOINES					66548	64950	NONE	NONE	NONE	NONE	NONE
712	I 235	E OF SECOND AVENUE DES MOINES					NONE	NONE	NONE	NONE	NONE	NONE	NONE
713	I 35/80	E OF MERLE HAY ROAD DES MOINES					NONE	NONE	SITE REMOVED MARCH 2012				
714	I 235	0.4 MI N OF EUCLID AVENUE DES MOINES							NONE	65417	68332	72475	
715	I 29	I 29 E OF IA 12 SIOUX CITY										33150	NONE

**2016 EXPANSION FACTORS
MUNICIPAL INTERSTATE**

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
SEASONAL	1.106	1.049	0.994	0.947	0.939	0.929	0.957	0.936	0.956	0.946	1.011	1.051
Sunday	1.533	1.561	1.468	1.432	1.407	1.468	1.465	1.446	1.375	1.399	1.409	1.507
Monday	0.973	0.985	0.955	0.962	1.059	0.953	0.967	0.950	1.039	0.972	0.936	0.980
Tuesday	0.907	0.951	0.943	0.936	0.937	0.920	0.907	0.926	0.938	0.948	0.896	0.886
Wednesday	0.916	0.936	0.925	0.933	0.918	0.909	0.884	0.911	0.920	0.930	0.889	0.894
Thursday	0.903	0.885	0.906	0.903	0.888	0.894	0.864	0.897	0.895	0.906	0.984	0.907
Friday	0.858	0.822	0.848	0.853	0.843	0.861	0.896	0.865	0.853	0.857	0.889	0.884
Saturday	1.185	1.154	1.193	1.204	1.155	1.249	1.290	1.240	1.163	1.184	1.205	1.209

ANNUAL AVERAGE DAILY TRAFFIC BY STATIONS FOR THE YEARS 2006 TO 2016

RURAL PRIMARY

STATION	ROUTE	LOCATION	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016
201	US 65	2.7 MI N OF IA 3 HAMPTON	2831	2808	2777	2824	NONE	2786	2814	2832	2879	2881	2937
202	US 71	2.0 MI N OF IA 44 HAMLIN	3450	3473	3375	3393	3537	NONE	3505	NONE	NONE	NONE	NONE
204	US 75	1.3 MI N OF CO C60 HINTON	12296	12264	12302	12671	12918	NONE	12953	12985	13148	13820	14353
205	US 218	2.7 MI S OF IA 78 SWEDESBUURG	10831	11292	11063	11484	11812	11809	11768	11798	12074	12816	13208
206	US 30	AT BOONE/STORY CO LINE NAPIER	12793	12929	13039	13356	13578	NONE	13930	14076	14583	14913	15538
207	US 18	2.2 MI E OF US 169 ALGONA	3306	3449	3226	3326	3377	3402	3444	3460	3361	3425	3372
208	US 6	3.0 MI E OF CO V66 MARENGO	3256	3157	3113	3153	3256	NONE	3202	NONE	3181	3325	3441
209	US 67	1.5 MI S OF CO F45 PRINCETON	4424	4372	4181	4132	NONE	4264	4286	4207	4087	4106	4173
210	US 18	4.2 MI E OF IA 60 SHELDON	4061	4066	4053	4120	4213	4109	4207	4178	4077	4272	4365
212	IA 92	0.6 MI W OF CO V45 SIGOURNEY	2731	2684	2554	2602	2632	2570	NONE	2445	2501	2560	NONE
213	US 30	1.8 MI E OF US 65 COLO	5105	5058	4908	5047	NONE	NONE	5719	5872	6248	6587	6891
214	US 61	3.8 MI N OF US 34 BURLINGTON	7050	6985	6953	6814	6635	6520	6592	6612	6690	6882	6977
216	US 34/169	2.5 MI E OF W JCT US 169 AFTON	3696	3671	3537	3665	3870	3864	3845	3701	3661	3708	3688
217	US 18	2.5 MI E OF I 35 CLEAR LAKE	14373	14364	14173	14489	NONE	13763	13740	13508	13582	13712	NONE
218	IA 44	0.2 MI W OF US 169 ADEL	3645	3444	3396	3406	3457	3476	3559	3458	3561	NONE	3781
219	US 34	1.0 MI W OF I 35 OSCEOLA	4724	4702	4575	4624	4711	4725	4792	4674	4589	4641	4682
220	US 52	1.0 MI NW OF US 18 POSTVILLE	1715	1658	1578	1609	1676	1616	1614	NONE	1516	NONE	NONE
221	IA 9	2.5 MI W OF CO N52 ARMSTRONG	1678	1690	1592	1631	NONE	NONE	1657	NONE	1613	1627	1614
222	IA 3	0.1 MI W OF CO P66 HUMBOLDT	1956	1919	1844	1793	1917	2004	NONE	1732	NONE	NONE	NONE
223	IA 48	4.0 MI S OF IA 92 GRISWOLD	1248	1221	1171	1164	1190	1199	1225	1218	1212	1213	1215
224	US 59	0.5 MI S OF CO F16 DEFIANCE	2613	2561	2507	2590	2638	NONE	2656	2623	2642	2696	2820
226	US 18	3.8 MI E OF CO W14 WEST UNION	2357	2339	2197	2291	2269	NONE	NONE	2501	2425	2489	NONE
228	IA 117	2.5 MI S OF US 65 MINGO	993	986	979	993	951	NONE	NONE	NONE	847	933	NONE
229	IA 78	1.2 MI W OF CO X23 WINFIELD	785	742	738	748	750	761	NONE	765	781	772	802
230	US 169	3.5 MI S OF S JCT IA 92 WINTERSET	1726	1610	1588	1651	1686	1657	1677	1631	NONE	1669	1754
231	IA 148	9.3 MI N OF IA 92 ANITA	782	761	755	763	NONE	NONE	NONE	NONE	818	853	883
233	IA 110	1.5 MI S OF CO C65 SCHALLER	1260	1294	1298	1306	NONE	NONE	1331	1293	1322	1307	1331
234	IA 12	2.5 MI N OF CO K18 AKRON	1435	1415	1304	1277	1342	NONE	1287	1224	1248	1244	1306
235	IA 143	3.4 MI S OF IA 10 MARCUS	825	802	765	746	785	NONE	NONE	889	894	NONE	NONE
236	IA 196	3.0 MI S OF US 20 SAC CITY	1060	1082	1088	1131	1169	NONE	1133	1150	1186	NONE	NONE
238	IA 149	2.1 MI N OF IA 78 MARTINSBURG	1153	1132	1071	1102	1180	1164	NONE	1196	1154	1224	1234
240	IA 2	3.0 MI E OF US 275 SIDNEY	1879	1949	1914	1772	1899	NONE	1872	1862	1948	1947	1978
241	IA 13	5.0 MI S OF US 20 RYAN	4460	4280	4034	4069	4270	4142	4184	4205	4226	4340	4448
242	US 61	3.8 MI N OF CO F41 ELDRIDGE	16108	16214	15940	16374	16748	16530	16678	16651	16718	17300	17808
243	US 30	0.3 MI E OF CO Z24 DEWITT	9124	9448	9408	9678	9841	9704	NONE	NONE	NONE	NONE	9869
244	IA 1	0.8 MI S OF CO F67 KALONA	5858	5624	5765	5694	5566	5493	5535	5473	NONE	NONE	5773
245	US 20	1.5 MI E OF CO V62 JESUP	10345	10571	10532	10789	11025	11052	NONE	9964	10566	10976	NONE
246	IA 141	1.0 MI E OF WILLIS AVE PERRY	9676	9448	9315	9478	9556	9256	9581	9239	9332	NONE	9996
247	US 20	3.0 MI E OF E JCT IA 17 WEBSTER CITY	7888	7945	7858	7834	NONE	NONE	NONE	8211	8828	9134	9325
248	IA 21	2.8 MI N OF US 6 BELLE PLAINE	1246	1193	1120	1135	1148	1159	1163	1145	1108	1162	1211
249	US 218	0.5 MI N OF HILLS INTERCHANGE HILLS	18313	19527	18686	19548	19804	19698	19594	19810	20472	20683	21112
250	US 65	1.5 MI N OF IA 163 PLEASANT HILL	25274	24416	23942	24223	24789	24953	25083	25034	25599	27101	28598
252	US 18/63	0.5 MI S OF CO B64 NEW HAMPTON	4780	4831	4797	4909	5091	5099	5175	5225	5396	5624	5749
253	US 218	3.5 MI S OF CO T64 CHARLES CITY	8436	8649	8542	8643	NONE	9123	9218	9044	9074	9395	9678
254	IA 60	4.1 MI N OF IA 9 SIBLEY				3296	3378	NONE	NONE	3268	3484	3725	NONE
255	US 20	1.0 MI E OF US 65 IOWA FALLS	7926	8057	8148	8335	8548	8497	8608	8730	8859	9144	9216
256	US 18	3.3 MI E OF I 35 MASON CITY	7290	7507	7342	7612	7878	7911	8029	7975	7901	8242	NONE
257	US 20	3.6 MI W OF W JCT US 59 HOLSTEIN		2781	2881	2926	2954	NONE	3022	NONE	NONE	3609	NONE
258	US 30	0.6 MI E OF CO V66 BLAIRSTOWN		6424	5940	NONE	NONE	NONE	6553	6630	6876	7461	7789
259	US 30	3.5 MI E OF IA 1 LISBON			5427	5610	5753	5739	5812	5584	5598	5792	5978
260	US 71	0.6 MI S OF CO J64 BRADYVILLE				2182	2240	2301	2377	NONE	2404	2346	NONE
261	US 169	2.3 MI N OF CO D14 FORT DODGE				5783	5360	5389	NONE	NONE	5604	5679	6015
262	US 63	1.6 MI S OF IA 2 BLOOMFIELD				2247	2217	2288	2318	2253	2225	2218	2297
263	US 52	0.3 MI E OF CO X47 GARNAVILLO				2395	2225	2267	NONE	NONE	2382	2400	2452
264	IA 27	3.0 MI S OF CO W62 ARGYLE				4532	4764	5079	5402	5651	5797	5891	6745
265	US 61	1.0 MI N OF CO E17 MAQUOKETA				7349	7053	7236	7475	7444	7537	NONE	NONE
266	IA 2	0.8 MI W OF US 63 WEST GROVE				1560	1546	1535	1596	1550	1557	1599	1715
267	US 34	3.0 MI W OF US 59 EMERSON				4176	4168	4380	4476	NONE	4421	4225	4308
268	US 30	4.0 MI SW OF CO M14 DOW CITY				2997	2977	3022	NONE	NONE	2995	3028	3143
269	US 30	3.6 MI E OF IA 144 GRAND JUNCTION				4137	4320	4359	4343	4384	4196	4272	4466
270	US 71	3.1 MI S OF IA 3 STORM LAKE					2441	2594	NONE	2685	2833	3010	3058
271	US 18	4.3 MI E OF IA 4 EMMETSBURG				3111	3218	3386	3233	3347	3283	3120	3084
272	US 71	5.2 MI S OF W JCT US 6 ATLANTIC				2112	2228	NONE	NONE	2330	2253	2294	2405
273	US 34	3.6 MI E OF CO RD S56 RUSSELL					2109	2073	2070	2116	2047	2123	2222
274	IA 163	2.6 MI NW OF CO RD G28 PELLA				9872	10331	10795	10858	11056	11215	NONE	11927
275	US 20	0.5 MI W OF CENTER AVE EPWORTH					12096	12376	12573	12661	12652	12696	13205
276	US 63	1.5 MI N OF IA 9 LIME SPRINGS					2870	2961	2920	2903	3016	3096	3169
277	US 34	1.1 MI E OF IA 16 AGENCY					7804	7792	7883	8047	8085	8380	8562
278	IA 141	0.5 MI N OF IA 44 GRIMES					20594	20395	20906	21762	21702	21922	23410
279	IA 13	1.5 MI N OF CO RD C64 DUNDEE					2311	2344	2305	2349	2358	2361	2395
280	IA 2	2.0 MI W OF I 35 LEON						1303	NONE	1262	1232	1274	1299
281	US 151	4.4 MI S OF IA 38 MONTICELLO						10635	10625	10807	10940	11122	11609
282	US 52	9.5 MI S OF IA 62 BELLEVUE						NONE	842	842	799	824	888
283	US 61/218	0.8 MI S OF N JCT US 61/218 KEOKUK						7810	7666	8009	8004	8257	8684
284	IA 9	1.0 MI W OF 6TH STREET LANSING						2163	NONE	2010	1939	1970	2066
285	US 20	1.3 MI E OF IA 4 ROCKWELL CITY							NONE	3407	4745	5444	5952
286	US 34	2.0 MI W OF I 29 GLENWOOD											6112
287	US 20	0.6 MI E OF US 75 LAWTON											6554
													11584

2016 EXPANSION FACTORS

RURAL PRIMARY

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
SEASONAL	1.182	1.144	1.036	0.972	0.922	0.905	0.915	0.920	0.930	0.943	1.018	1.077
Sunday	1.410	1.402	1.287	1.242	1.211	1.184	1.164	1.173	1.184	1.194	1.247	1.338
Monday	1.000	0.999	0.988	1.002	1.059	1.020	1.029	1.015	1.041	1.022	1.008	1.013
Tuesday	0.959	1.001	0.999	0.995	1.008	1.007	1.005	1.012	1.010	1.014	0.958	0.946
Wednesday	0.959	1.000	0.983	0.994	0.993	0.991	0.979	0.992	1.010	1.006	0.933	0.935
Thursday	0.940	0.927	0.946	0.944	0.956	0.959	0.931	0.963	0.959	0.962	0.984	0.931
Friday	0.849	0.818	0.842	0.857	0.845	0.857	0.873	0.860	0.842	0.850	0.884	0.870
Saturday	1.062	1.039	1.086	1.074	1.024	1.068	1.100	1.070	1.048	1.052	1.096	1.115

**ANNUAL AVERAGE DAILY TRAFFIC BY STATIONS FOR THE YEARS 2006 TO 2016
MUNICIPAL PRIMARY**

STATION	ROUTE	LOCATION	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016
802	US 71	W OF MEMPHIS AVE SPIRIT LAKE	12102	11721	11530	11961	11827	11701	11723	11777	12076	11714	11665
803	IA 12	ON VIADUCT E OF COURT ST SIOUX CITY	23924	23112	22228	NONE	NONE	22563	NONE	20642	NONE	NONE	NONE
804	IA 4	N OF 4TH AVE NW POCAHONTAS	3082	3012	2950	2868	2965	3246	3290	3091	3094	3177	3229
805	IA 148	S OF 11TH ST CORNING	3202	3046	2852	2867	2811	2797	2802	2637	2711	2720	2758
806	US 6	E OF SHASTA WINDSOR HEIGHTS	21425	19954	19072	19481	NONE	NONE	18681	19223	18151	18610	18621
808	US 71	S OF BIRCH ST AUDUBON	4750	4701	4655	4769	NONE	NONE	4675	4601	4567	4545	NONE
809	IA 14	N OF WOODLAND ST MARSHALLTOWN	6268	6304	6164	6119	6228	6000	5836	5746	5641	5648	NONE
810	IA 92	W OF N ST INDIANOLA	11203	10858	10837	11024	11061	11036	11047	10985	11251	NONE	NONE
811	IA 192	S OF AVE N COUNCIL BLUFFS	9047	8858	9139	9057	8718	NONE	6004	5949	6208	9535	10236
812	IA 122	W OF VIRGINIA AVE MASON CITY	12014	12035	11825	12186	11450	11754	11469	10842	10768	10542	10542
813	US 6	E OF PINE ST DAVENPORT	21648	22022	21686	21312	21935	21137	22050	20189	19925	NONE	20323
815	IA 922	BTWN WILEY BLVD & WESTDALE CDR RPDS	9474	9565	9551	10812	10940	10658	NONE	NONE	NONE	10989	11355
816	US 34	W OF US 61 WEST BURLINGTON	13878	13666	13097	13168	13671	13076	13173	12909	NONE	NONE	NONE
819	IA 9	EAST OF 14TH ST OSAGE	5391	5374	5264	5237	5262	NONE	5207	5200	5244	5080	4946
820	IA 17	N OF NW 11TH ST EAGLE GROVE	2867	2818	2739	2722	2832	2898	2810	2891	NONE	NONE	2870
821	IA 4	S OF EDGEWOOD AVE E JEFFERSON	4166	4102	4074	4154	4138	3995	NONE	3832	3923	4093	4170
823	US 6	BETWEEN SYCAMORE & 1ST AVE IOWA CITY	21526	21187	20946	20652	20543	20148	NONE	NONE	NONE	19998	20069
824	US 69	BETWEEN 15TH AND 16TH ST AMES	19804	19440	17551	17318	18148	17567	NONE	17619	17298	17323	NONE
826	US 65	1.5 MI NE OF I-80 BONDURANT	12397	12052	11761	12272	12608	12446	NONE	12817	12625	NONE	14483
827	US 61/151	W OF MISSISSIPPI R DUBUQUE	19396	20588	20031	20744	21554	21609	21611	21381	21990	22069	22344
828	IA 150	S OF 12TH ST OELWEIN	6654	6298	6295	6461	6550	6490	6354	6305	6196	6198	6167
829	US 59	S OF 5TH AVE SHENANDOAH	10053	9698	9121	8694	8819	SITE REMOVED JUNE 2011					
830	IA 23	S OF IA 92 OSKALOOSA	3159	3073	2951	2871	2866	2808	2794	2742	NONE	2789	NONE
831	IA 5	W OF FLUER DRIVE DES MOINES					NONE	23086	22771	22572	23262	NONE	NONE

**2016 EXPANSION FACTORS
MUNICIPAL PRIMARY**

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
SEASONAL	1.141	1.095	1.019	0.960	0.923	0.921	0.931	0.939	0.952	0.963	1.030	1.058
Sunday	1.489	1.493	1.404	1.381	1.299	1.288	1.258	1.254	1.274	1.291	1.356	1.429
Monday	0.969	0.972	0.956	0.974	1.059	0.986	0.996	0.981	1.046	0.991	0.958	0.985
Tuesday	0.935	0.972	0.963	0.963	0.965	0.972	0.967	0.981	0.970	0.983	0.921	0.924
Wednesday	0.935	0.956	0.948	0.956	0.954	0.955	0.944	0.960	0.962	0.963	0.916	0.908
Thursday	0.932	0.920	0.930	0.929	0.940	0.946	0.925	0.947	0.934	0.941	0.999	0.930
Friday	0.854	0.828	0.859	0.864	0.857	0.877	0.891	0.879	0.858	0.859	0.886	0.894
Saturday	1.122	1.101	1.124	1.095	1.047	1.091	1.131	1.093	1.066	1.085	1.118	1.127

ANNUAL AVERAGE DAILY TRAFFIC BY STATIONS FOR THE YEARS 2006 TO 2016

SECONDARY

PAVED

STATION	ROUTE	LOCATION	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016
300	CO P14	2.7 MI N OF CO E33 CHURDAN	303	250	237	247	239	234	268	237	241	238	247
301	CO S14	0.8 MI S OF CO E29 NEVADA	1008	989	975	973	958	988	988	965	967	969	992
302	CO M55	0.2 MI N OF IA 141 MANILLA	830	783	739	736	739	777	798	787	793	804	818
303	CO K45	2.25 MI S OF IA 175 ONAWA	1029	1059	1106	1152	NONE	NONE	NONE	1162	1155	NONE	1120
304	CO V45	3.5 MI N OF IA 92 SIGOURNEY	645	634	617	636	665	652	NONE	646	631	636	643
306	CO E53	1.75 MI E OF IA 25 SCRANTON	570	515	520	544	NONE	NONE	524	497	507	530	539
307	CO R38	2.2 MI N OF CO C54 CLARION	1361	1293	1255	1240	1278	NONE	1339	1379	NONE	NONE	1421
308	CO N32	1.6 MI N OF IA 9 ESTHERVILLE	370	341	330	357	NONE	344	NONE	323	NONE	340	NONE
309	CO K52	1.5 MI S OF US 18 HULL	1017	987	1001	1063	NONE	1149	1178	1228	1249	NONE	1379
310	CO Y52	1.5 MI S OF US 30 GRAND MOUND	534	504	479	501	NONE	502	498	NONE	NONE	NONE	507
311	CO W12	3.5 MI S OF US 30 WATKINS	852	853	804	825	NONE	804	799	773	744	756	799
312	CO E26	2.7 MI W OF CO RD R38 BOONE	1370	1327	1213	1269	1395	NONE	1525	NONE	1481	1525	1630
313	CO D42	0.2 MI E OF IA 13 MANCHESTER	719	698	679	691	702	630	612	623	679	699	756
314	CO 105	1.3 MI E OF CO S56 NORTHWOOD	766	771	775	778	800	767	744	737	731	772	754
315	CO RD	5.5 MI E OF US 63 DRAKESVILLE	733	720	656	676	675	665	682	666	665	679	691
316	CO D36	2.8 MI E OF CO N57 ROCKWELL CITY	3138	3111	3087	3155	3292	1201	1157	1014	974	949	NONE

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	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016
400	CO B30	0.5 MI E OF CO L48 PRIMGHAR	29	27	21	23	21	23	18	22	22	22	NONE
401	LOC RD	1.75 MI N OF CO E36 CLUTIER	33	35	31	30	36	36	39	34	35	NONE	NONE
402	LOC RD	0.75 MI E OF CO V18 CLUTIER	50	50	41	47	51	55	54	47	48	46	NONE
403	CO H47	5.0 MI SE OF US 34 ALBIA	111	102	88	98	89	92	104	100	NONE	100	99
405	LOC RD	2.5 MI N OF US 18 NEW HAMPTON	55	55	46	48	46	48	51	49	57	NONE	65
406	LOC RD	2.0 MI E OF US 169 LORIMOR	67	70	57	63	62	57	NONE	70	68	69	59
407	CO H23	2.0 MI E OF US 169 LORIMOR	77	76	68	70	75	66	76	77	75	72	67

2016 EXPANSION FACTORS

SECONDARY

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
SEASONAL	1.243	1.231	1.059	0.952	0.885	0.908	0.925	0.964	0.938	0.868	1.016	1.124
Sunday	1.442	1.441	1.365	1.362	1.312	1.321	1.326	1.305	1.287	1.311	1.384	1.441
Monday	0.977	0.974	0.939	0.989	1.062	0.983	0.987	0.954	1.020	0.969	0.976	1.006
Tuesday	0.951	0.966	0.971	0.958	0.985	0.950	0.950	0.951	0.937	0.945	0.918	0.928
Wednesday	0.939	0.961	0.957	0.967	0.944	0.920	0.920	0.937	0.947	0.985	0.925	0.915
Thursday	0.933	0.926	0.949	0.957	0.958	0.951	0.910	0.945	0.936	0.959	0.976	0.927
Friday	0.867	0.858	0.875	0.885	0.871	0.897	0.917	0.913	0.903	0.916	0.912	0.884
Saturday	1.095	1.075	1.107	1.037	1.009	1.131	1.148	1.130	1.091	1.050	1.079	1.113

ANNUAL AVERAGE DAILY TRAFFIC BY STATIONS FOR THE YEARS 2006 TO 2016 MUNICIPAL STREETS

STATION	ROUTE	LOCATION	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016
900	LAKE ST	N OF 3RD ST in STORM LAKE	2818	2872	2756	2848	2811	NONE	2610	2587	2556	2616	2662
901	2ND AVE N	E OF 15TH ST in FORT DODGE	6695	6760	6775	6665	6728	6620	6444	6024	NONE	NONE	NONE
902	LOCUST ST	E OF SPRING ST in DAVENPORT	21934	21750	21300	20726	20521	NONE	NONE	20336	19630	20177	19332
903	JEFFERSON	NE OF E 5TH ST in OTTUMWA	6627	6456	6272	6006	5694	NONE	5699	5628	NONE	5329	NONE
904	JOHNSON	W OF JANICE DR in CEDAR RAPIDS	10086	9947	10000	9818	9613	9391	9258	9057	8931	NONE	NONE
905	N'WESTERN	N OF 20TH ST in AMES	2348	2304	2202	2264	NONE	2193	NONE	2211	2178	NONE	NONE
906	DUBUQUE	S OF DAVENPORT ST in IOWA CITY	15448	15230	14688	14411	14245	13859	13518	NONE	12861	13339	NONE
907	COLLEGE	S OF 23RD ST in CEDAR FALLS	7862	7444	NONE	NONE	NONE	7974	NONE	NONE	7410	7323	7177
908	LIND'WOOD	S OF 35TH ST in SIOUX CITY	1026	1008	969	977	954	976	960	NONE	NONE	NONE	904
909	HAMILTON	N OF CLIFTON AVE in SIOUX CITY	14547	14314	13854	14159	14586	14388	14584	NONE	13719	14701	15289
910	GRANDVIEW	SE OF PLYMOUTH CT in DUBUQUE	8836	8779	8596	8871	8946	8917	8833	8411	7983	8465	NONE
911	HUMBOLDT	S OF 4TH ST in BODE	796	786	776	770	767	739	NONE	684	695	665	660
912	ELM ST	N OF LUCAS ST in CRESTON	3938	3710	3798	3807	3782	3802	3735	3550	NONE	3364	3440
** 913	WASHINGTON	E OF HARRISON ST in MOUNT PLEASANT	11283	10632	10540	10161	SITE REMOVED SEPTEMBER 2010						

Note: Station 913 was previously station 801.
Washington Street was US 34 until Nov. 2005 when the US 34 bypass opened.

2016 EXPANSION FACTORS MUNICIPAL STREETS

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
SEASONAL	1.122	1.066	1.018	0.944	0.953	0.988	1.004	0.965	0.950	0.937	1.033	1.057
Sunday	1.403	1.419	1.369	1.347	1.315	1.325	1.331	1.297	1.260	1.311	1.349	1.396
Monday	0.979	0.973	0.947	0.976	1.061	0.980	0.977	0.968	1.041	0.975	0.944	0.977
Tuesday	0.922	0.963	0.947	0.954	0.955	0.954	0.945	0.955	0.948	0.957	0.898	0.920
Wednesday	0.932	0.937	0.936	0.949	0.933	0.953	0.941	0.956	0.930	0.943	0.897	0.907
Thursday	0.932	0.925	0.931	0.932	0.925	0.943	0.929	0.946	0.923	0.938	1.002	0.929
Friday	0.878	0.854	0.878	0.883	0.874	0.884	0.902	0.888	0.885	0.893	0.930	0.907
Saturday	1.142	1.129	1.170	1.106	1.073	1.095	1.129	1.119	1.128	1.105	1.139	1.146

ANNUAL AVERAGE DAILY TRAFFIC BY STATIONS FOR THE YEARS 2006 TO 2016

RECREATIONAL

PRIMARY

STATION	ROUTE	LOCATION	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016
500	US 71	0.1 MI S OF CO RD B14 FOSTORIA	8343	8346	7877	8067	8213	8250	NONE	NONE	8284	8724	8741
501	IA 5	3.8 MI S OF US 34 MORAVIA	3765	3745	3692	3922	3910	3801	3772	3711	3582	4041	4106
503	IA 415	0.5 MI W OF NW POLK CITY RD POLK CITY	5870	5162	5293	6076	NONE	6130	6445	6697	NONE	7530	8418

SECONDARY

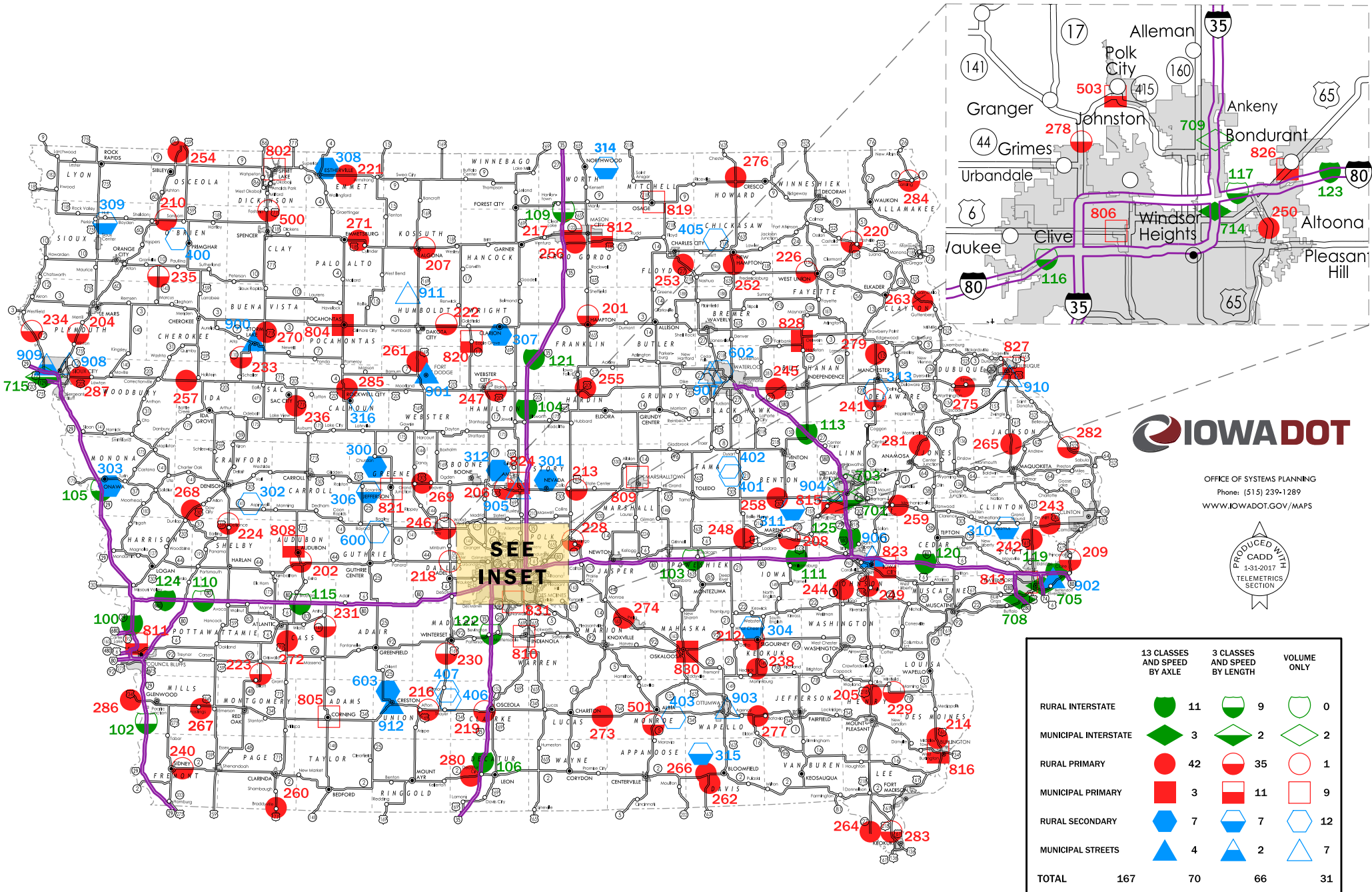
STATION	ROUTE	LOCATION	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016
600	CO F25	0.1 MI W OF CO P18 SPRINGBROOK	209	226	205	216	207	199	188	181	176	178	182
602	ENTRANCE	GEORGE WYTH S. P. WATERLOO	777	799	643	731	766	759	850	NONE	748	748	789
603	ENTRANCE	3.3 MI N OF IA 25 GREEN VALLEY S. P.	352	339	273	175	NONE	NONE	262	283	279	NONE	324

**2016 EXPANSION FACTORS
RECREATIONAL**

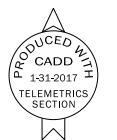
	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
SEASONAL	1.614	1.598	1.236	0.944	0.757	0.693	0.703	0.805	0.873	1.057	1.522	1.810
Sunday	1.167	1.216	1.113	1.010	0.966	0.926	0.951	0.946	0.957	1.002	1.187	1.234
Monday	1.056	1.066	1.002	1.102	1.091	1.186	1.141	1.182	1.046	1.119	1.031	1.024
Tuesday	1.098	1.042	1.048	1.186	1.209	1.143	1.186	1.185	1.217	1.123	0.972	0.976
Wednesday	1.006	1.051	1.051	1.191	1.138	1.109	1.129	1.128	1.210	1.091	0.977	0.960
Thursday	1.028	1.023	1.013	1.073	1.123	1.106	1.059	1.078	1.104	1.045	1.023	0.946
Friday	0.919	0.900	0.900	0.898	0.890	0.883	0.885	0.895	0.935	0.925	0.945	0.931
Saturday	0.904	0.900	0.987	0.840	0.838	0.872	0.870	0.845	0.844	0.886	0.966	1.027

AUTOMATIC TRAFFIC RECORDER LOCATIONS

JANUARY 1, 2017



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	13 CLASSES AND SPEED BY AXLE	3 CLASSES AND SPEED BY LENGTH	VOLUME ONLY
RURAL INTERSTATE	11	9	0
MUNICIPAL INTERSTATE	3	2	2
RURAL PRIMARY	42	35	1
MUNICIPAL PRIMARY	3	11	9
RURAL SECONDARY	7	7	12
MUNICIPAL STREETS	4	2	7
TOTAL	167	70	31