



AUTOMATIC TRAFFIC RECORDERS

2005 - 2015

Prepared by

OFFICE OF SYSTEMS PLANNING

In Cooperation With

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

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JANUARY 2016

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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 2015 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 2006 - 2015.

Information from the permanent traffic recorders indicates a 2.6% increase in statewide travel from 2014 to 2015. The estimated vehicle miles of travel for 2015 is 33.18 billion. Final 2015 traffic figures will be published near June 2016, when all traffic data collected during 2015 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

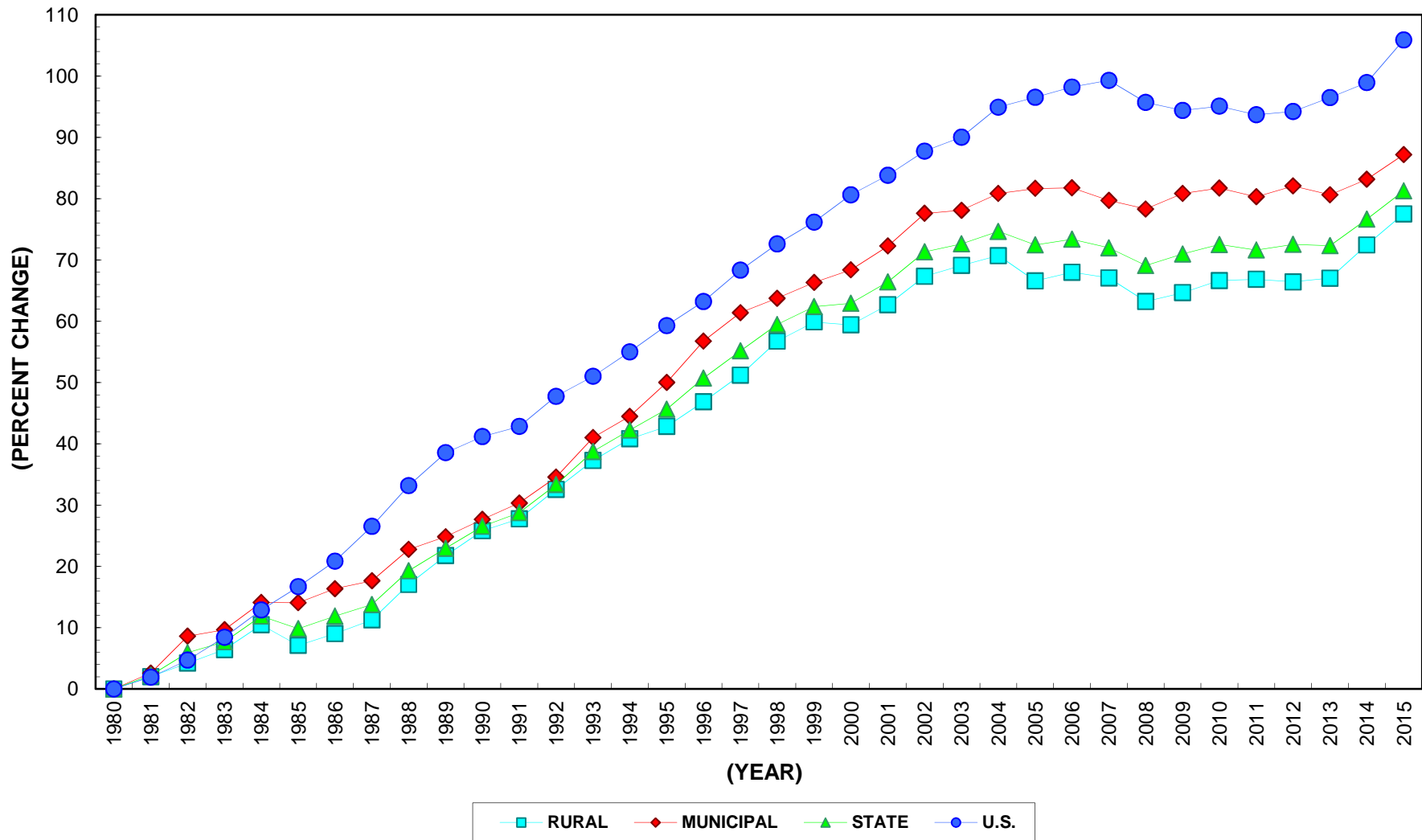
IOWA ROAD SYSTEMS

	2015 COMPARED TO 2014
RURAL INTERSTATE	+ 3.7 %
RURAL PRIMARY	+ 3.7 %
RURAL SECONDARY	+ 1.0 %
RURAL TOTAL	+ 2.9 %
MUNICIPAL INTERSTATE	+ 2.9 %
MUNICIPAL PRIMARY	+ 0.8 %
MUNICIPAL STREETS	+ 2.7 %
MUNICIPAL TOTAL	+ 2.2 %
STATE TOTAL	+ 2.6 %

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.

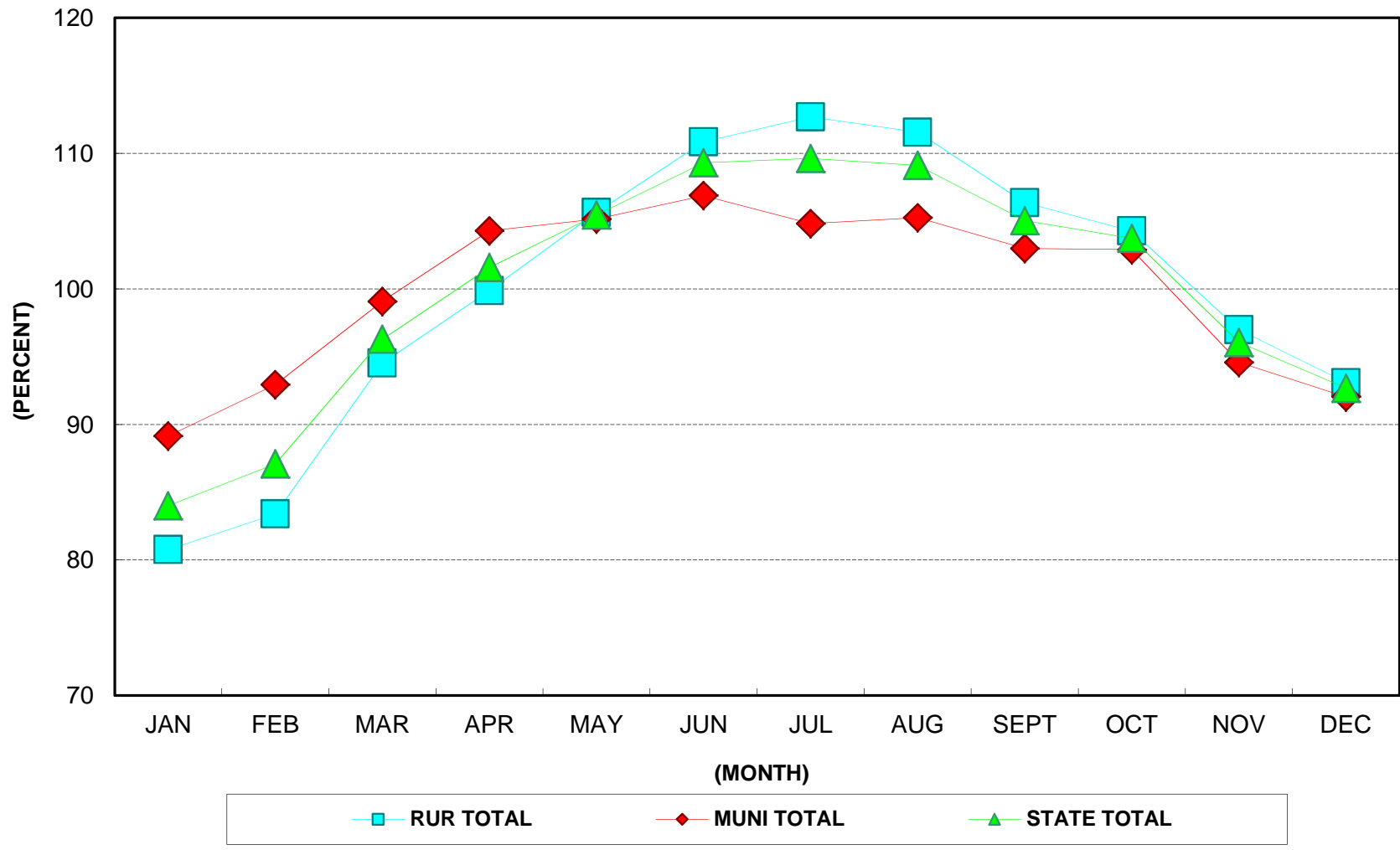
PERCENT CHANGE IN TRAFFIC

BASE YEAR 1980



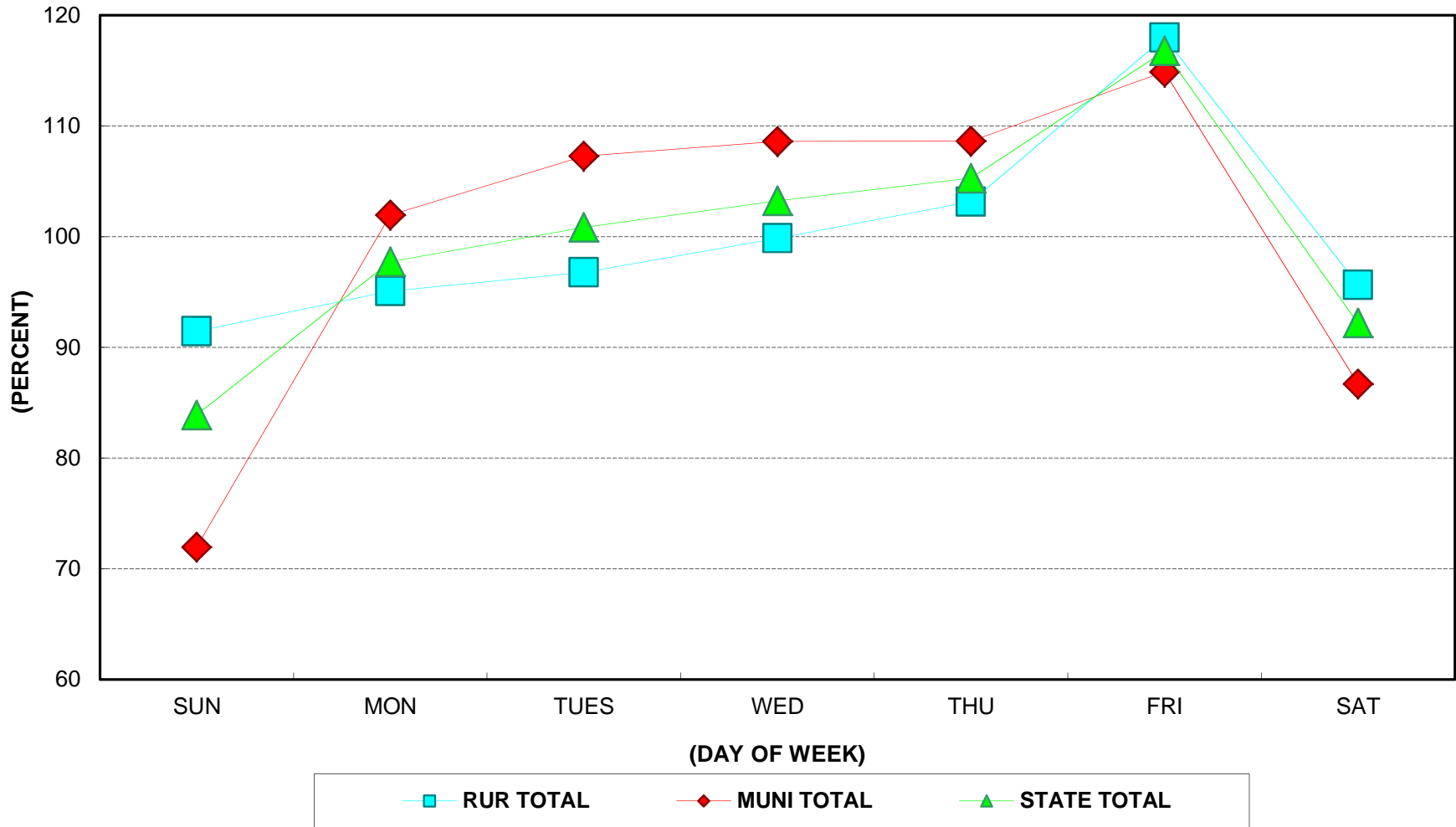
2015 MONTHLY TRAFFIC

AS A % OF ANNUAL AVERAGE DAILY TRAFFIC



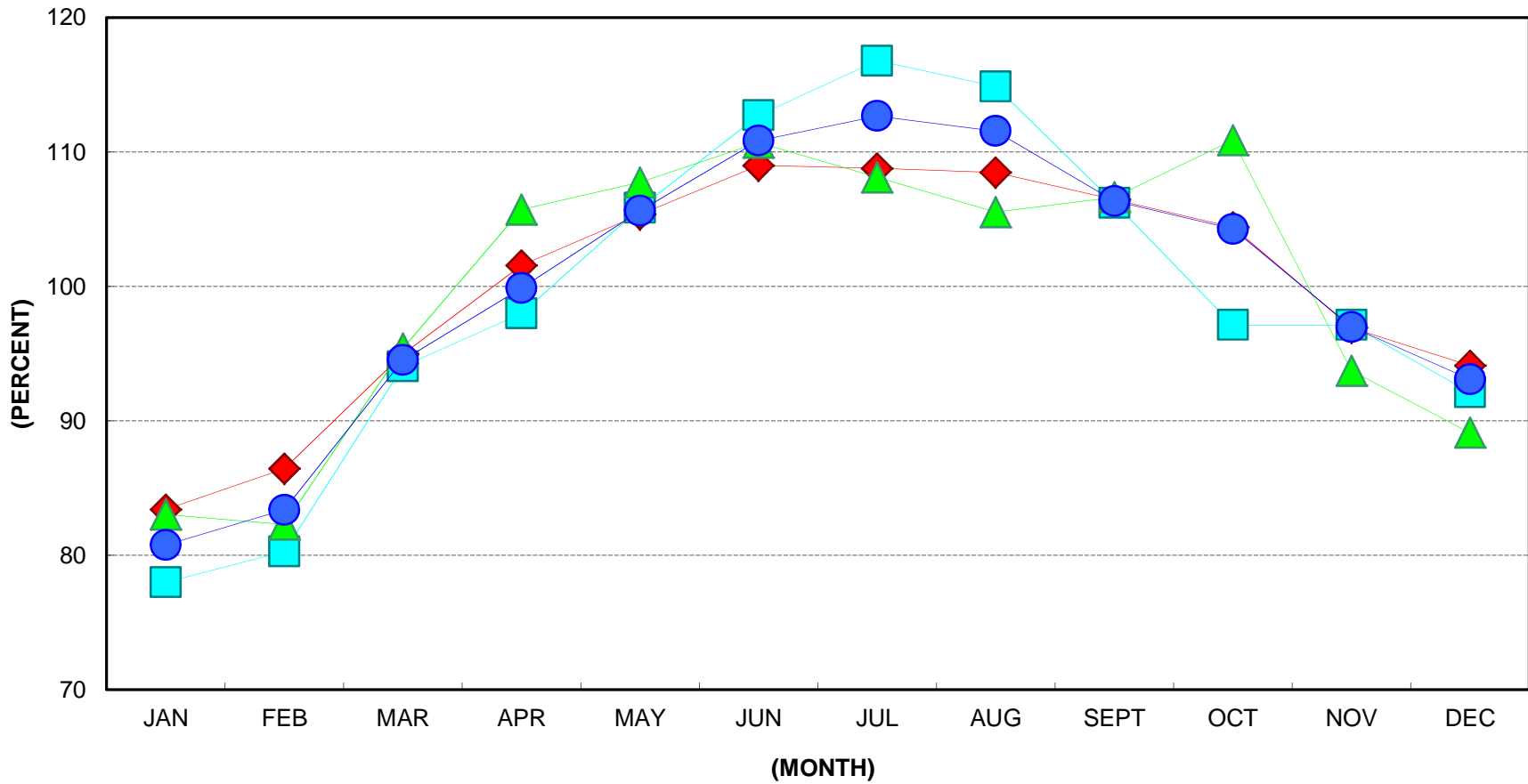
2015 DAY OF WEEK TRAFFIC

AS A % OF ANNUAL AVERAGE DAILY TRAFFIC



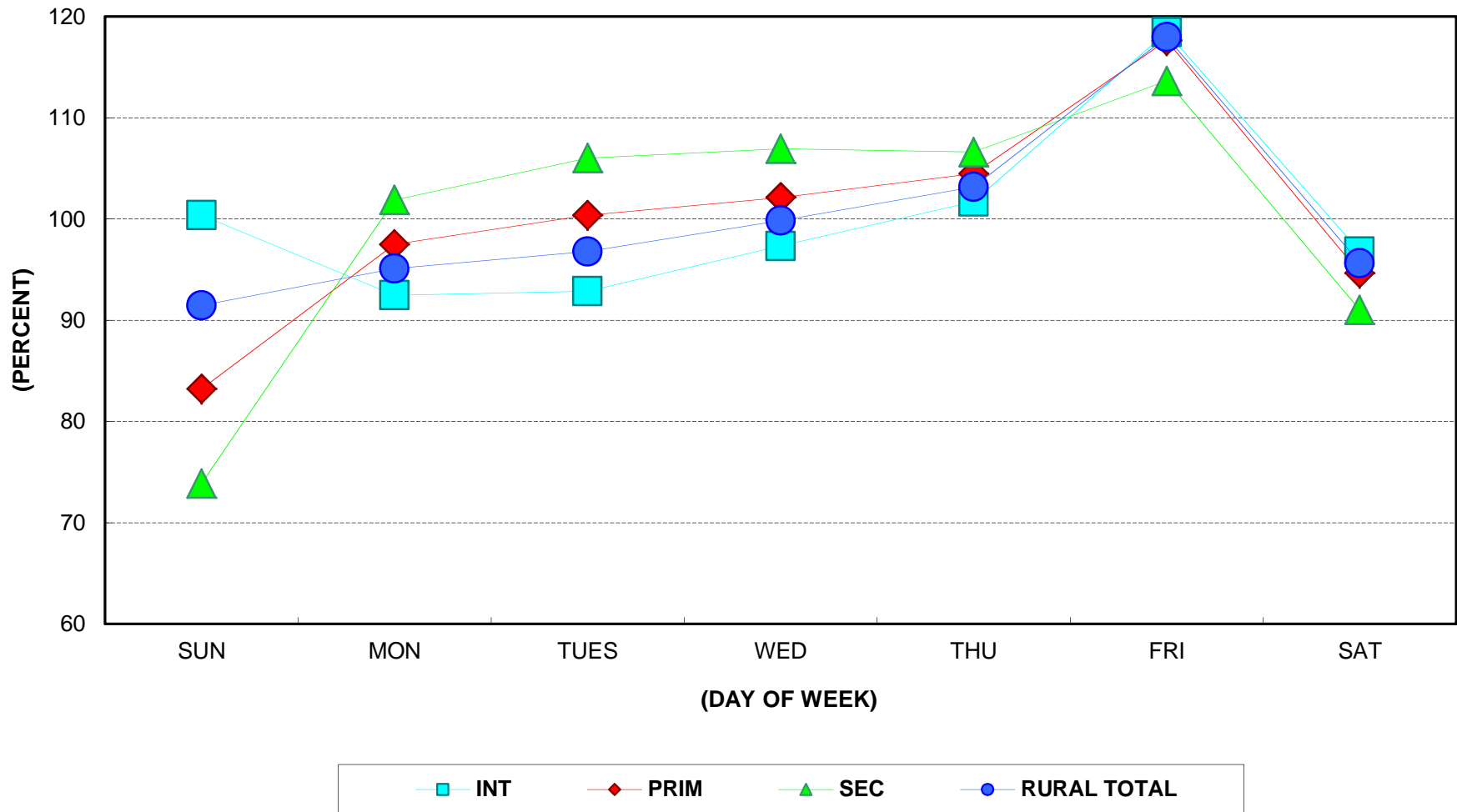
2015 RURAL MONTHLY TRAFFIC

AS A % OF ANNUAL AVERAGE DAILY TRAFFIC



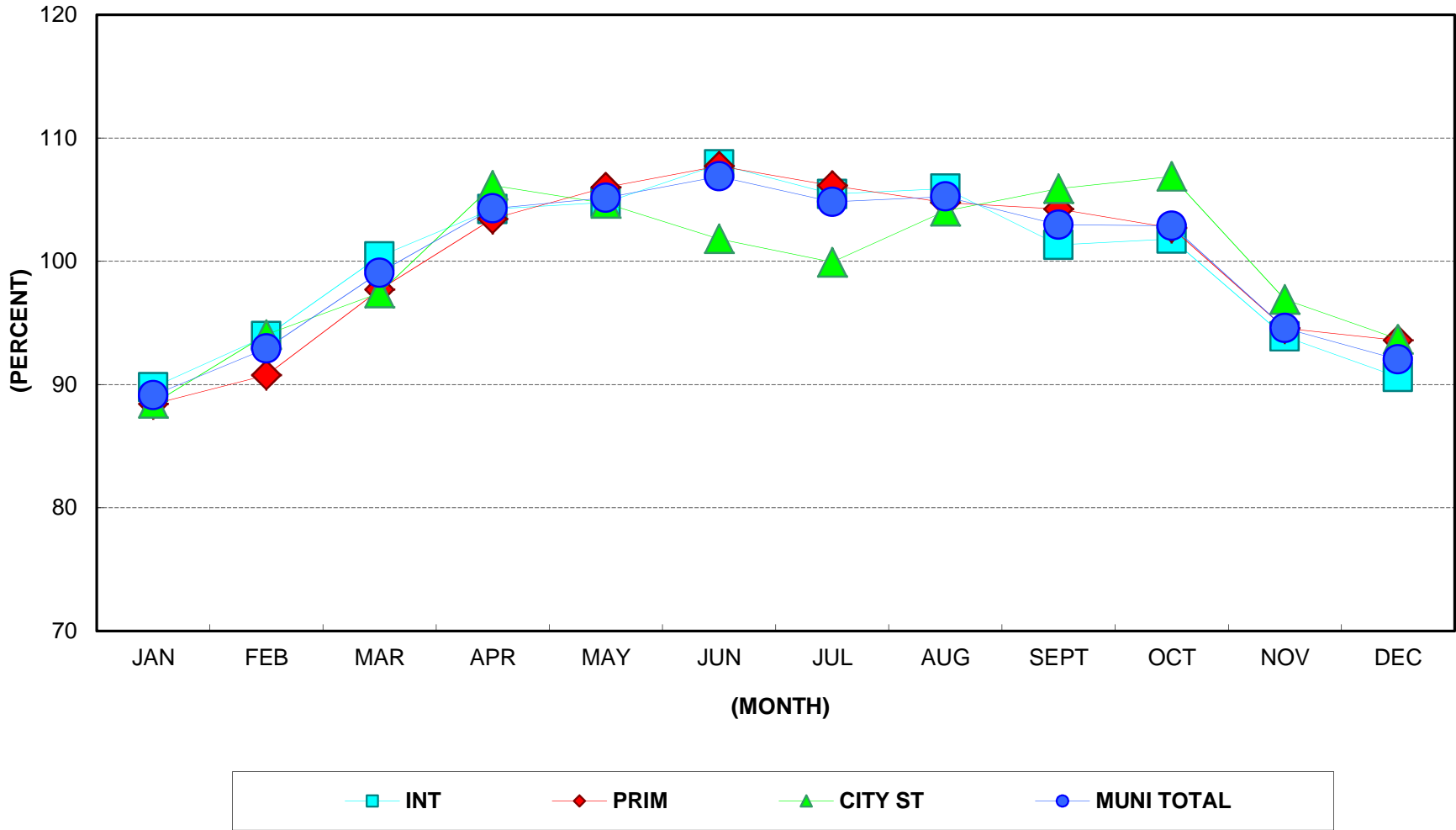
2015 RURAL DAY OF WEEK TRAFFIC

AS A % OF ANNUAL AVERAGE DAILY TRAFFIC



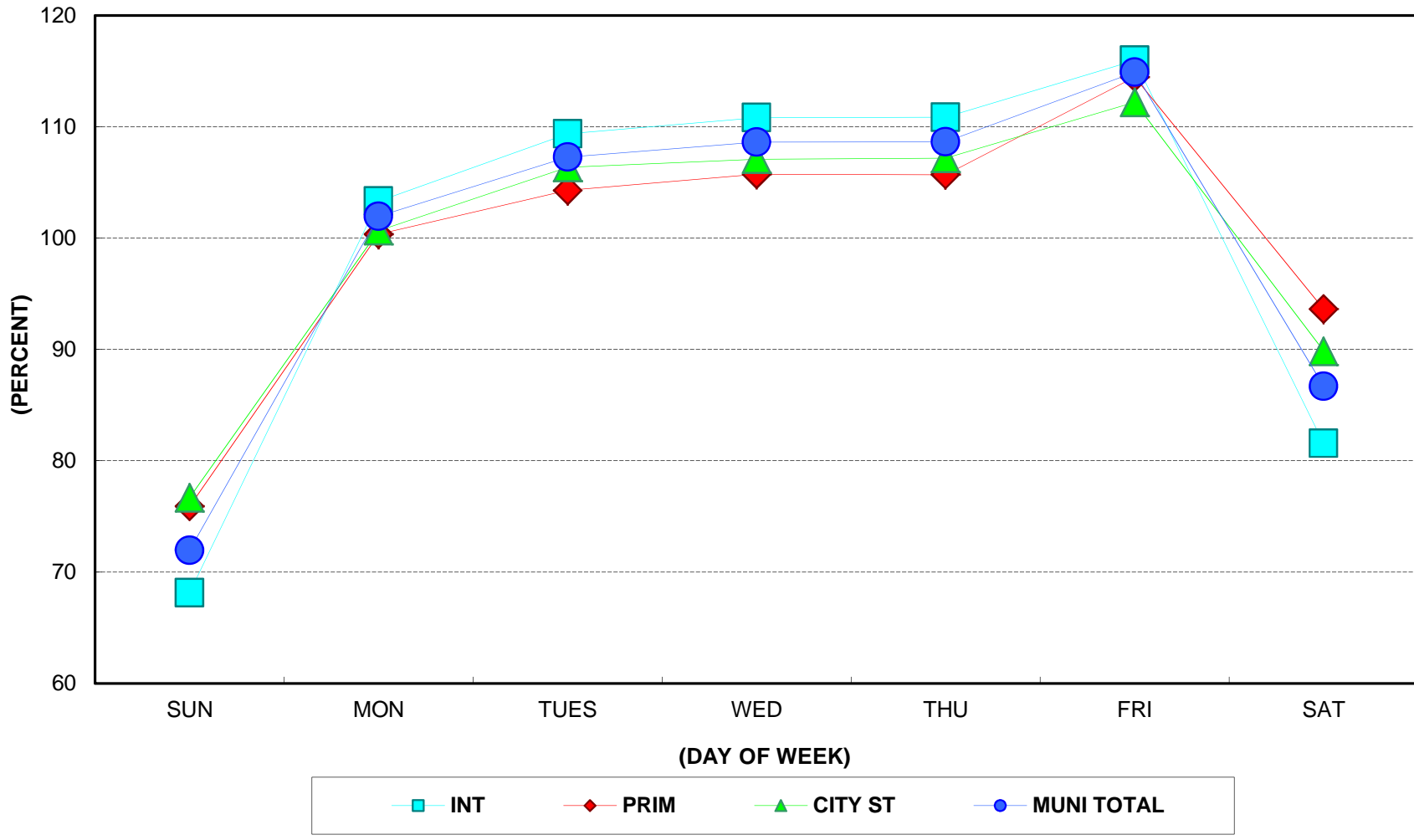
2015 MUNICIPAL MONTHLY TRAFFIC

AS A % OF ANNUAL AVERAGE DAILY TRAFFIC

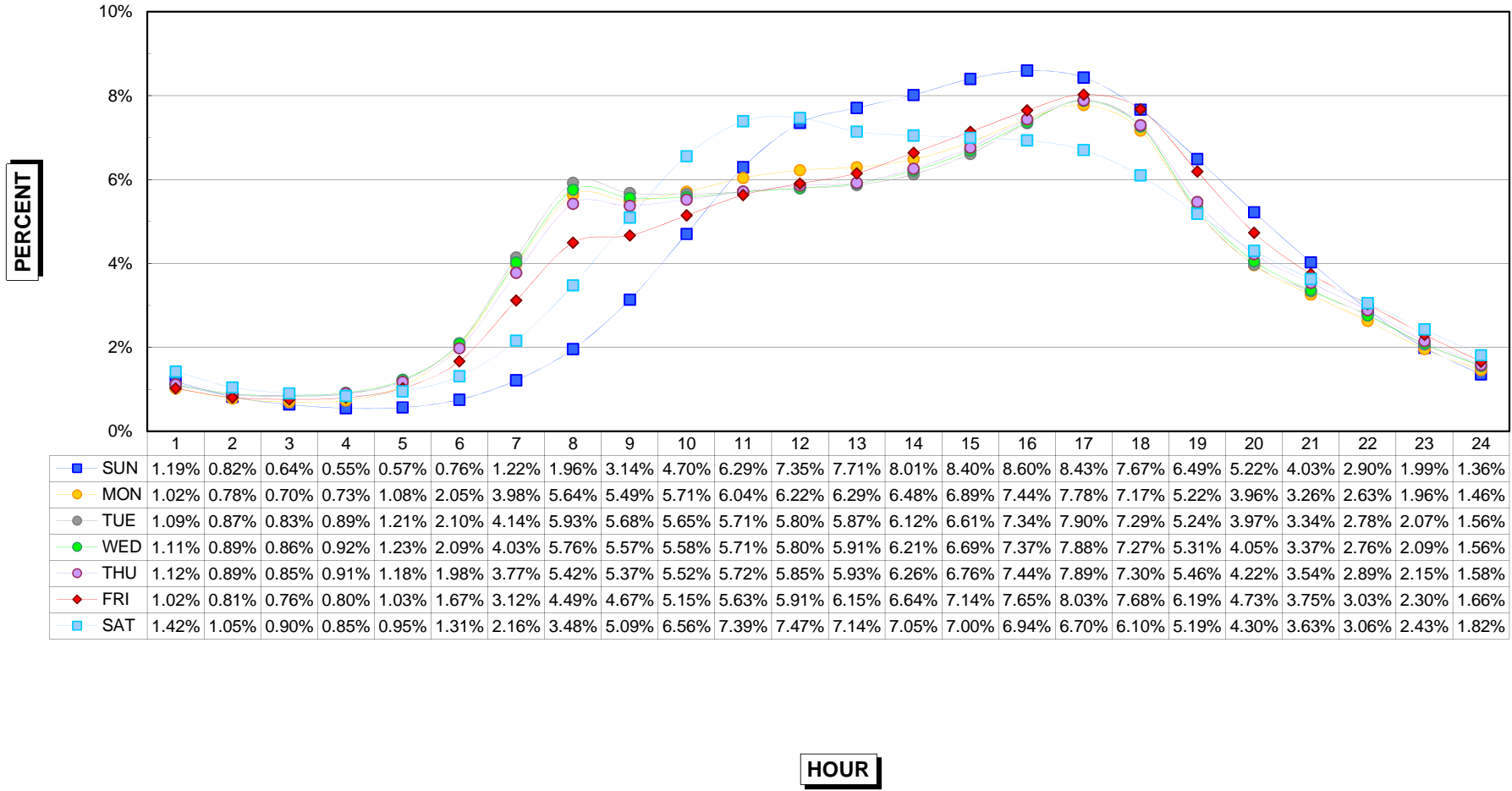


2015 MUNICIPAL DAY OF WEEK TRAFFIC

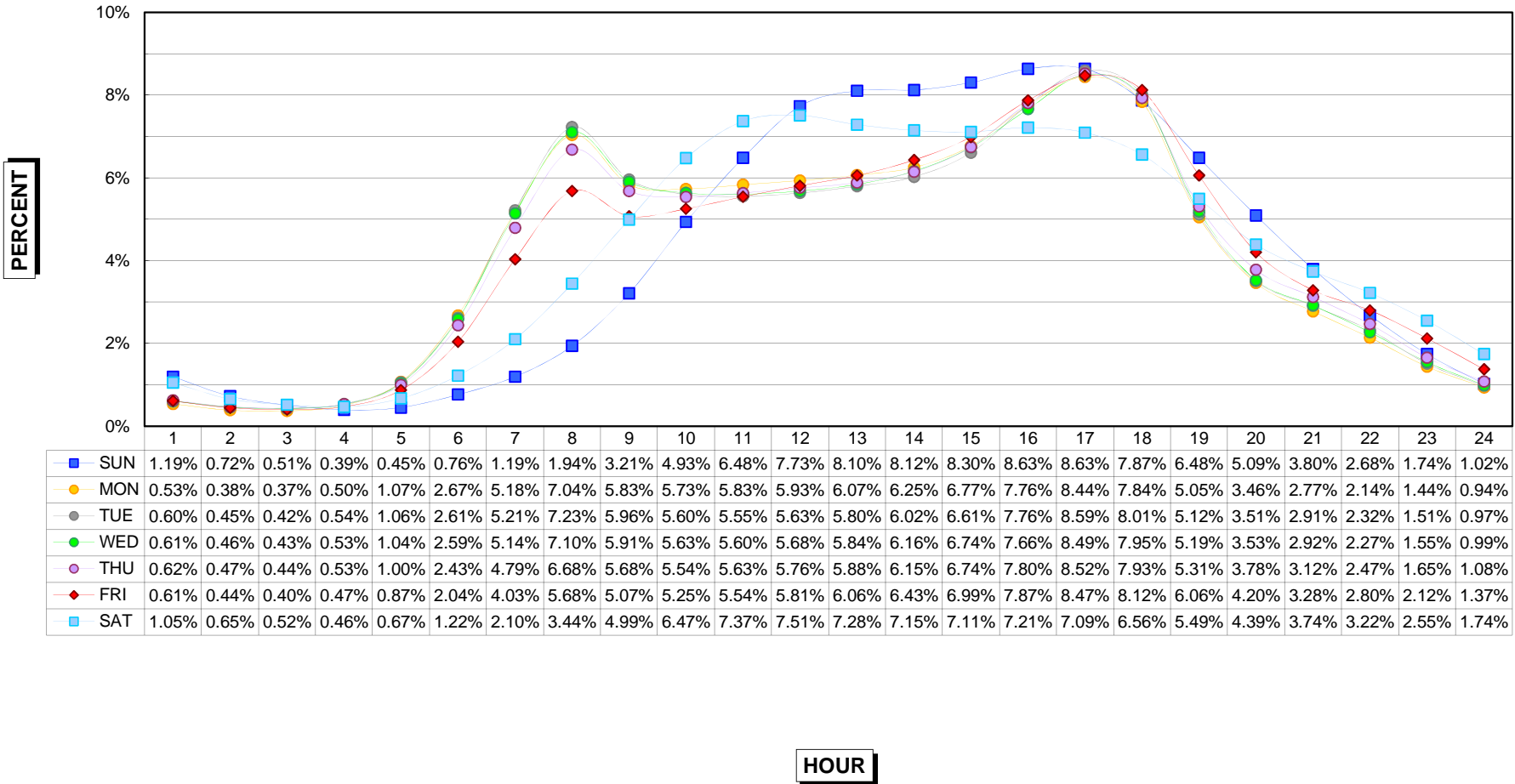
AS A % OF ANNUAL AVERAGE DAILY TRAFFIC



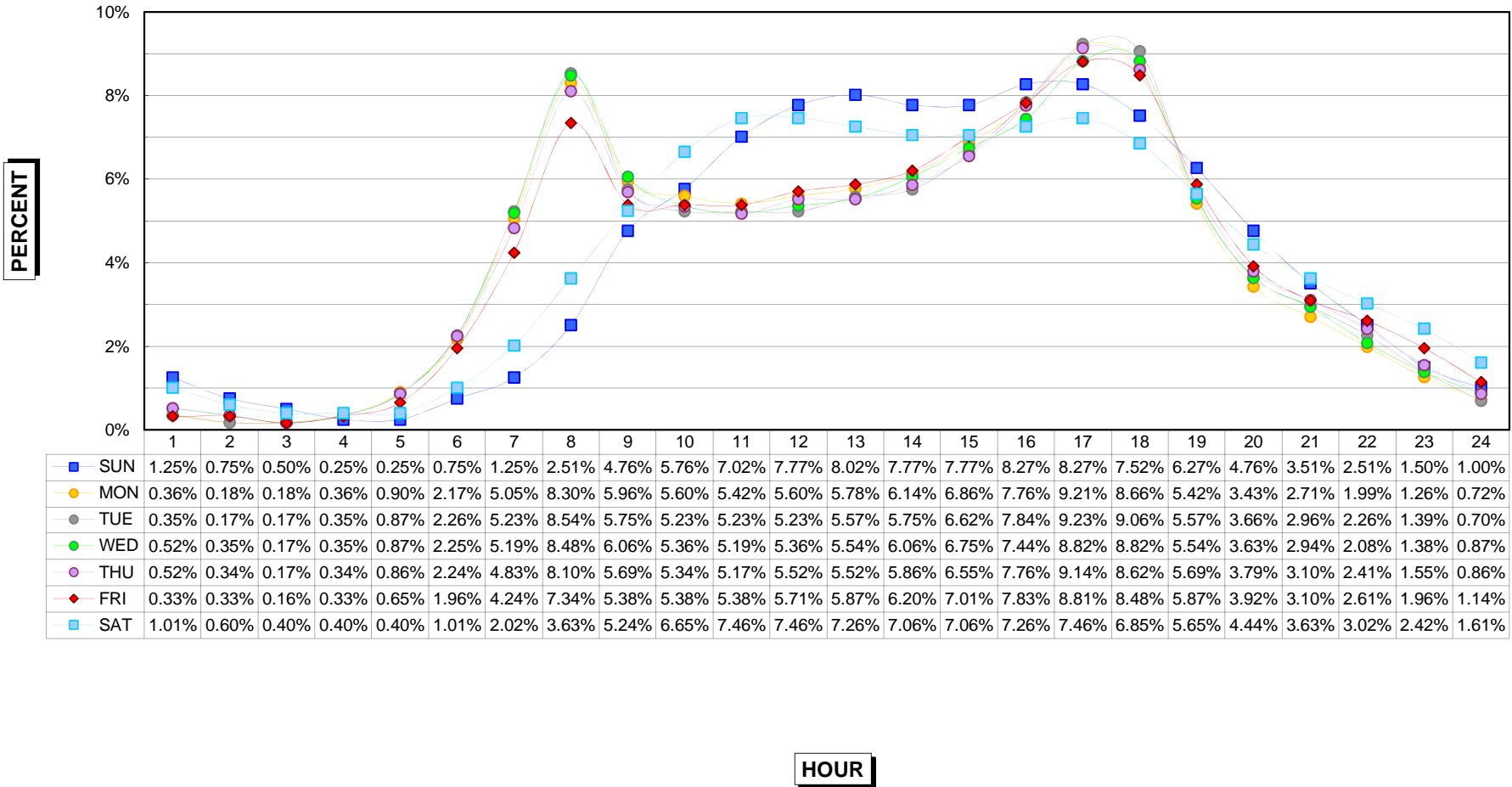
HOURLY DISTRIBUTION OF DAILY TRAFFIC 2015 RURAL INTERSTATE



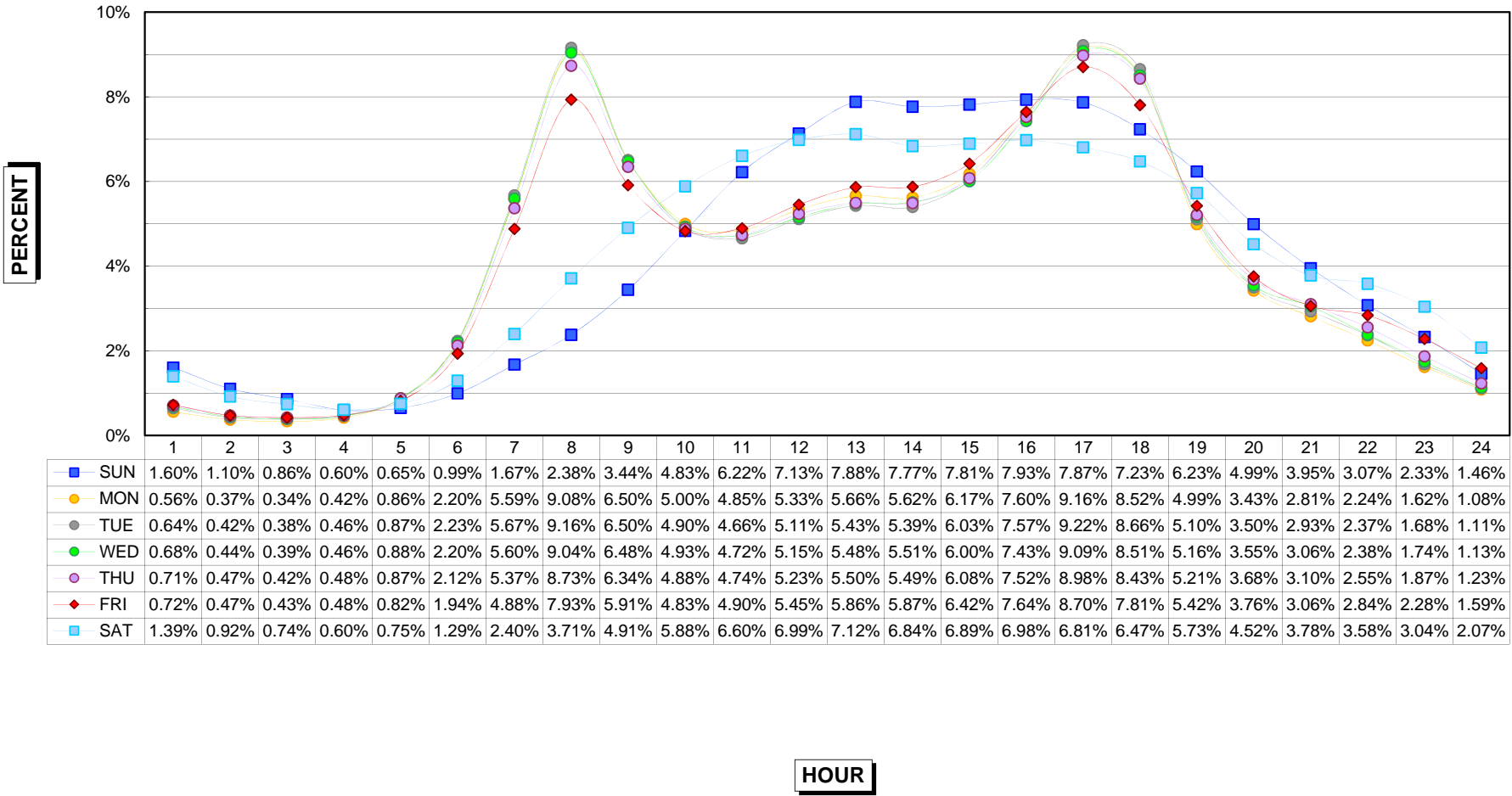
HOURLY DISTRIBUTION OF DAILY TRAFFIC 2015 RURAL PRIMARY



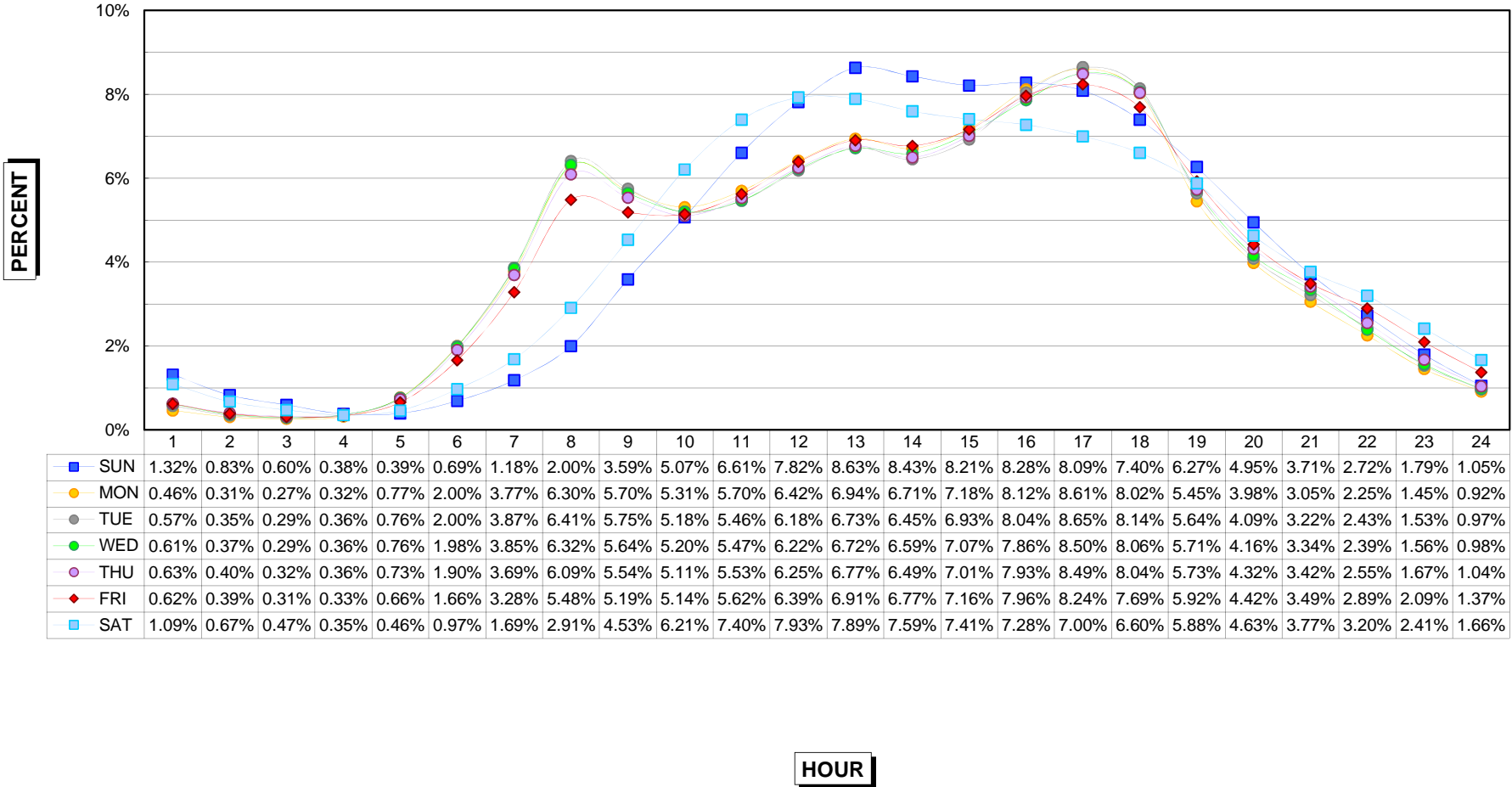
HOURLY DISTRIBUTION OF DAILY TRAFFIC 2015 RURAL SECONDARY



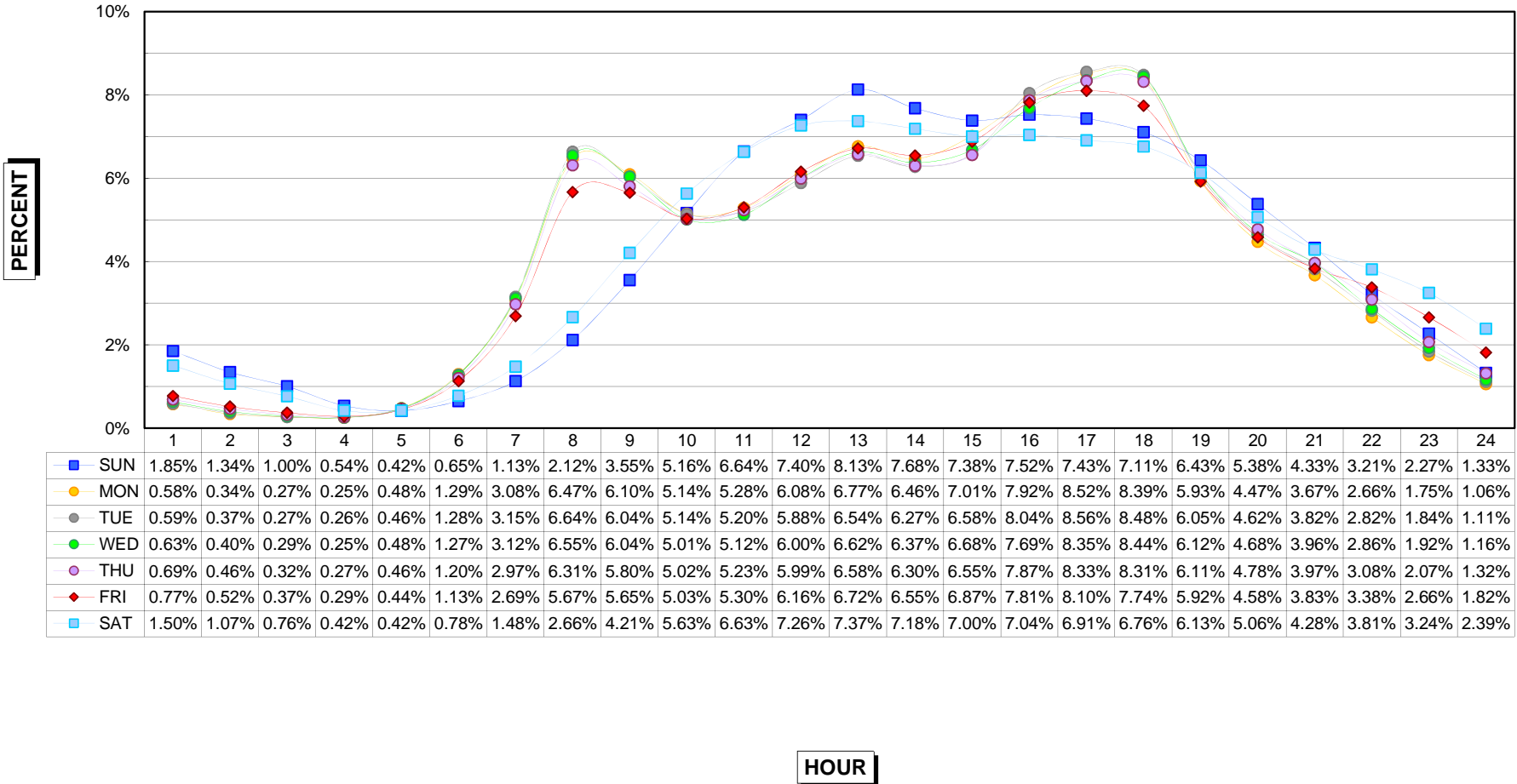
HOURLY DISTRIBUTION OF DAILY TRAFFIC 2015 MUNICIPAL INTERSTATE



HOURLY DISTRIBUTION OF DAILY TRAFFIC 2015 MUNICIPAL PRIMARY



HOURLY DISTRIBUTION OF DAILY TRAFFIC 2015 MUNICIPAL STREETS



SUMMARY OF ANALYSIS

Analysis of the Thirtieth Highest Hour at the Permanent Continuous Automatic Traffic Recorder Stations 2006 - 2015

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	11.74	10.84	367.69	9.72	4.72	12.31	-	-
Municipal	43.11	10.16	66.90	10.46	-	-	53.61	9.98

**ANNUAL AVERAGE DAILY TRAFFIC BY STATIONS FOR THE YEARS 2005 TO 2015
RURAL INTERSTATE**

STATION	ROUTE	LOCATION	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015
100	I 29	2.0 MI N OF S JCT I 680 HONEY CREEK	20959	21484	21033	20246	20170	20593	NONE	19730	19907	20696	21770
102	I 29	7.0 MI S OF US 34 PACIFIC JCT	12151	12495	12300	11793	11761	11868	NONE	12008	12337	13563	13530
103	I 80	1.0 MI W OF US 63 GRINNELL	26325	26940	26853	26118	26234	26569	26045	26046	26235	26523	27320
104	I 35	3.0 MI N OF IA 175 JEWELL	20200	20629	20598	20147	20509	NONE	21248	21437	21726	21775	22963
105	I 29	3.8 MI S OF IA 175 ONAWA	12015	12283	12418	12096	12512	12791	NONE	12587	12667	13150	14096
106	I 35	1.5 MI N OF IA 2 LEON	12982	13290	13227	12705	12715	12786	12783	12699	NONE	NONE	13661
109	I 35	3.0 MI N OF CO B20 HANLONTOWN	17373	18466	18611	17794	18757	19118	19192	19254	19184	19324	20097
110	I 80	1.5 MI W OF CO M16 SHELBY	22208	22670	22752	21727	22189	22950	NONE	NONE	23070	23517	24441
111	I 80	2.0 MI E OF IA 149 WILLIAMSBURG	30939	31347	31325	29718	29950	NONE	NONE	NONE	30642	31210	32352
113	I 380	1.5 MI N OF IA 150 BRANDON	14308	14695	14976	14648	15084	15665	15796	15905	15937	16186	16741
115	I 80	2.0 MI E OF US 71 ATLANTIC	19282	19480	19697	19267	19067	19879	19661	19740	19821	20113	21331
116	I 80	0.8 MI W OF 74TH ST WAUKEE	33880	35190	34897	33977	34437	35427	35272	35527	NONE	NONE	39315
117	I 80	1.8 MI E OF E JCT I 35/80/235 ALTOONA	70547	70362	68589	67650	69757	72678	73105	74017	74863	75290	NONE
119	I 80	1.5 MI E OF MIDDLE RD LECLAIRE	28264	28926	28639	27436	27398	NONE	29604	29978	29000	30825	32582
120	I 80	2.5 MI E OF CO RD X40 TIPTON	32239	32583	32755	31284	31386	32327	NONE	31963	32640	33523	NONE
121	I 35	2.0 MI N OF CO RD R75 DOWS	13800	14112	13858	13376	13822	NONE	14291	14270	14195	14506	15227
122	I 35	1.0 MI N OF IA 92 CUMMING				21255	21339	21205	21105	21087	21044	NONE	NONE
123	I 80	4.8 MI E OF E JCT US 65 MITCHELLVILLE						35329	35061	35253	34996	NONE	NONE
124	I 680	6.4 MI W OF I 80 BEEBETOWN						6196	NONE	5947	5913	6039	6311
125	I 380	6.0 MI N OF I 80 NORTH LIBERTY							NONE	48518	49835	51703	53335

**2015 EXPANSION FACTORS
RURAL INTERSTATE**

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
SEASONAL	1.269	1.236	1.051	1.008	0.929	0.869	0.842	0.859	0.941	0.964	1.022	1.090
Sunday	1.133	1.119	1.025	0.981	1.017	0.963	0.926	0.971	0.958	0.947	0.969	1.000
Monday	1.064	1.042	1.126	1.063	1.060	1.089	1.075	1.091	1.049	1.092	1.164	1.108
Tuesday	1.035	1.043	1.112	1.100	1.110	1.113	1.112	1.115	1.131	1.123	1.064	1.062
Wednesday	1.022	1.015	1.031	1.068	1.078	1.063	1.033	1.063	1.097	1.072	0.929	1.034
Thursday	0.977	0.981	0.956	0.984	0.990	0.986	0.974	0.995	1.011	0.995	1.042	1.005
Friday	0.828	0.825	0.811	0.827	0.818	0.836	0.883	0.846	0.824	0.821	0.882	0.869
Saturday	1.016	1.048	1.035	1.056	1.008	1.029	1.065	0.994	1.016	1.044	1.021	0.984

**ANNUAL AVERAGE DAILY TRAFFIC BY STATIONS FOR THE YEARS 2005 TO 2015
MUNICIPAL INTERSTATE**

STATION	ROUTE	LOCATION	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015
701	I 380	BTWN WILSON AND 33RD CEDAR RAPIDS	64150	64968	64650	63791	65296	66377	66597	66619	66629	67456	69639
703	I 380	AT J AVE S OF COLDSTREAM CEDAR RAPIDS	81384	82503	82450	80922	80465	84299	82907	82911	82286	83915	85038
704	I 29/80	0.6 MI W OF IA 192 COUNCIL BLUFFS	77569	79350	79516	76838	75586	75988	NONE	75521	NONE	NONE	NONE
705	I 74	0.6 MI S OF US 6 BETTENDORF	48031	49099	48849	48427	47738	NONE	45756	47653	49404	49577	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
709	I 35	N OF ORALABOR ROAD ANKENY						NONE	59603	57945	60027	62687	NONE
710	I 235	E. INNERLEG OF 35TH ST WEST DES MOINES						NONE	NONE	NONE	NONE	NONE	NONE
711	I 235	S OF GUTHRIE AVENUE DES MOINES						66548	64950	NONE	NONE	NONE	NONE
712	I 235	E OF SECOND AVENUE DES MOINES						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
715	I 29	I 29 E OF IA 12 SIOUX CITY											33150

**2015 EXPANSION FACTORS
MUNICIPAL INTERSTATE**

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
SEASONAL	1.126	1.065	1.009	0.957	0.952	0.937	0.966	0.950	0.955	0.956	1.020	1.058
Sunday	1.569	1.528	1.459	1.427	1.399	1.457	1.432	1.465	1.383	1.406	1.444	1.453
Monday	0.964	0.984	0.976	0.960	1.054	0.954	0.929	0.941	1.031	0.967	0.942	0.967
Tuesday	0.934	0.928	0.962	0.938	0.933	0.916	0.902	0.917	0.937	0.951	0.893	0.906
Wednesday	0.943	0.925	0.919	0.935	0.918	0.912	0.881	0.906	0.921	0.929	0.883	0.937
Thursday	0.905	0.899	0.895	0.909	0.897	0.896	0.906	0.889	0.898	0.905	0.984	0.917
Friday	0.823	0.843	0.842	0.861	0.845	0.868	0.914	0.864	0.850	0.857	0.878	0.878
Saturday	1.159	1.164	1.181	1.180	1.153	1.240	1.283	1.287	1.174	1.186	1.206	1.152

**ANNUAL AVERAGE DAILY TRAFFIC BY STATIONS FOR THE YEARS 2005 TO 2015
RURAL PRIMARY**

STATION	ROUTE	LOCATION	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015
201	US 65	2.7 MI N OF IA 3 HAMPTON	2886	2831	2808	2777	2824	NONE	2786	2814	2832	2879	2881
202	US 71	2.0 MI N OF IA 44 HAMLIN	3504	3450	3473	3375	3393	3537	NONE	3505	NONE	NONE	NONE
204	US 75	1.3 MI N OF CO C60 HINTON	12095	12296	12264	12302	12671	12918	NONE	12953	12985	13148	13820
205	US 218	2.7 MI S OF IA 78 SWEDESBUURG	10375	10831	11292	11063	11484	11812	11809	11768	11798	12074	12816
206	US 30	AT BOONE/STORY CO LINE NAPIER	12760	12793	12929	13039	13356	13578	NONE	13930	14076	14583	14913
207	US 18	2.2 MI E OF US 169 ALGONA	3332	3306	3449	3226	3326	3377	3402	3444	3460	3361	3425
208	US 6	3.0 MI E OF CO V66 MARENGO	3344	3256	3157	3113	3153	3256	NONE	3202	NONE	3181	3325
209	US 67	1.5 MI S OF CO F45 PRINCETON	4471	4424	4372	4181	4132	NONE	4264	4286	4207	4087	4106
210	US 18	4.2 MI E OF IA 60 SHELTON	4066	4061	4066	4053	4120	4213	4109	4207	4178	4077	4272
212	IA 92	0.6 MI W OF CO V45 SIGOURNEY	2753	2731	2684	2554	2602	2632	2570	NONE	2445	2501	2560
213	US 30	1.8 MI E OF US 65 COLO	5074	5105	5058	4908	5047	NONE	NONE	5719	5872	6248	6587
214	US 61	3.8 MI N OF US 34 BURLINGTON	7097	7050	6985	6953	6814	6635	6520	6592	6612	6690	6882
216	US 34/169	2.5 MI E OF W JCT US 169 AFTON	3654	3696	3671	3537	3665	3870	3864	3845	3701	3661	3708
217	US 18	2.5 MI E OF I 35 CLEAR LAKE	15140	14373	14364	14173	14489	NONE	13763	13740	13508	13582	13712
218	IA 44	0.2 MI W OF US 169 ADEL	3646	3645	3444	3396	3406	3457	3476	3559	3458	3561	NONE
219	US 34	1.0 MI W OF I 35 OSCEOLA	4724	4724	4702	4575	4624	4711	4725	4792	4674	4589	4641
220	US 52	1.0 MI NW OF US 18 POSTVILLE	1757	1715	1658	1578	1609	1676	1616	1614	NONE	1516	NONE
221	IA 9	2.5 MI W OF CO N52 ARMSTRONG	1703	1678	1690	1592	1631	NONE	NONE	1657	NONE	1613	1627
222	IA 3	0.1 MI W OF CO P66 HUMBOLDT	1989	1956	1919	1844	1793	1917	2004	NONE	1732	NONE	NONE
223	IA 48	4.0 MI S OF IA 92 GRISWOLD	1238	1248	1221	1171	1164	1190	1199	1225	1218	1212	1213
224	US 59	0.5 MI S OF CO F16 DEFIANCE	2644	2613	2561	2507	2590	2638	NONE	2656	2623	2642	2696
226	US 18	3.8 MI E OF CO W14 WEST UNION	2292	2357	2339	2197	2291	2269	NONE	NONE	2501	2425	2489
228	IA 117	2.5 MI S OF US 65 MINGO	967	993	986	979	993	951	NONE	NONE	NONE	847	933
229	IA 78	1.2 MI W OF CO X23 WINFIELD	757	785	742	738	748	750	761	NONE	765	781	772
230	US 169	3.5 MI S OF S JCT IA 92 WINTERSET	1701	1726	1610	1588	1651	1686	1657	1677	1631	NONE	1669
231	IA 148	9.3 MI N OF IA 92 ANITA	756	782	761	755	763	NONE	NONE	NONE	NONE	818	853
233	IA 110	1.5 MI S OF CO C65 SCHALLER	1318	1260	1294	1298	1306	NONE	NONE	1331	1293	1322	1307
234	IA 12	2.5 MI N OF CO K18 AKRON	1465	1435	1415	1304	1277	1342	NONE	1287	1224	1248	1244
235	IA 143	3.4 MI S OF IA 10 MARCUS	826	825	802	765	746	785	NONE	NONE	889	894	NONE
236	IA 196	3.0 MI S OF US 20 SAC CITY	1037	1060	1082	1088	1131	1169	NONE	1133	1150	1186	NONE
238	IA 149	2.1 MI N OF IA 78 MARTINSBURG	1158	1153	1132	1071	1102	1180	1164	NONE	1196	1154	1224
240	IA 2	3.0 MI E OF US 275 SIDNEY	1857	1879	1949	1914	1772	1899	NONE	1872	1862	1948	1947
241	IA 13	5.0 MI S OF US 20 RYAN	4408	4460	4280	4034	4069	4270	4142	4184	4205	4226	4340
242	US 61	3.8 MI N OF CO F41 ELDRIDGE	16082	16108	16214	15940	16374	16748	16530	16678	16651	16718	17300
243	US 30	0.3 MI E OF CO Z24 DEWITT	9488	9124	9448	9408	9678	9841	9704	NONE	NONE	NONE	NONE
244	IA 1	0.8 MI S OF CO F67 KALONA	5956	5858	5624	5765	5694	5566	5493	5535	5473	NONE	NONE
245	US 20	1.5 MI E OF CO V62 JESUP	10194	10345	10571	10532	10789	11025	11052	NONE	9964	10566	10976
246	IA 141	1.0 MI E OF WILLIS AVE PERRY	9806	9676	9448	9315	9478	9556	9256	9581	9239	9332	NONE
247	US 20	3.0 MI E OF E JCT IA 17 WEBSTER CITY	7958	7888	7945	7858	7834	NONE	NONE	NONE	8211	8828	9134
248	IA 21	2.8 MI N OF US 6 BELLE PLAINE	1270	1246	1193	1120	1135	1148	1159	1163	1145	1108	1162
249	US 218	0.5 MI N OF HILLS INTERCHANGE HILLS	16973	18313	19527	18686	19548	19804	19698	19594	19810	20472	20683
250	US 65	1.5 MI N OF IA 163 PLEASANT HILL	25288	25274	24416	23942	24223	24789	24953	25083	25034	25599	27101
252	US 18/63	0.5 MI S OF CO B54 NEW HAMPTON	4803	4780	4831	4797	4909	5091	5099	5175	5225	5396	5624
253	US 218	3.5 MI S OF CO T64 CHARLES CITY	8316	8436	8649	8542	8643	NONE	9123	9218	9044	9074	9395
254	IA 60	4.1 MI N OF IA 9 SIBLEY					3296	3378	NONE	NONE	3268	3484	3725
255	US 20	1.0 MI E OF US 65 IOWA FALLS	7531	7926	8057	8148	8335	8548	8497	8608	8730	8859	9144
256	US 18	3.3 MI E OF I 35 MASON CITY	7066	7290	7507	7342	7612	7878	7911	8029	7975	7901	8242
257	US 20	3.6 MI W OF W JCT US 59 HOLSTEIN			2781	2881	2926	2954	NONE	3022	NONE	NONE	3609
258	US 30	0.6 MI E OF CO V66 BLAIRSTOWN			6424	5940	NONE	NONE	NONE	6553	6630	6876	7461
259	US 30	3.5 MI E OF IA 1 LISBON				5427	5610	5753	5739	5812	5584	5598	5792
260	US 71	0.6 MI S OF CO J64 BRADYVILLE			2182	2240	2301	2377	NONE	2404	2346	NONE	NONE
261	US 169	2.3 MI N OF CO D14 FORT DODGE			5783	5360	5389	NONE	NONE	NONE	5604	5679	5790
262	US 63	1.6 MI S OF IA 2 BLOOMFIELD			2247	2217	2288	2318	2253	2225	2218	2255	2297
263	US 52	0.3 MI E OF CO X47 GARNAVILLO			2395	2225	2267	NONE	NONE	2382	2400	2409	2452
264	IA 27	3.0 MI S OF CO W62 ARGYLE			4532	4764	5079	5402	5651	5797	5891	NONE	NONE
265	US 61	1.0 MI N OF CO E17 MAQUOKETA			7349	7053	7236	7475	7444	7537	NONE	NONE	NONE
266	IA 2	0.8 MI W OF US 63 WEST GROVE			1560	1546	1535	1596	1550	1557	1559	1619	1715
267	US 34	3.0 MI W OF US 59 EMERSON			4176	4168	4380	4476	NONE	4421	4225	4162	4308
268	US 30	4.0 MI SW OF CO M14 DOW CITY			2997	2977	3022	NONE	NONE	2995	3028	3064	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	2354
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	NONE
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

**2015 EXPANSION FACTORS
RURAL PRIMARY**

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
SEASONAL	1.189	1.149	1.050	0.980	0.928	0.910	0.911	0.917	0.933	0.948	1.022	1.071
Sunday	1.451	1.395	1.306	1.235	1.210	1.186	1.148	1.167	1.178	1.189	1.269	1.293
Monday	0.992	0.994	1.032	1.000	1.052	1.020	1.014	1.022	1.038	1.022	1.012	1.012
Tuesday	0.971	0.954	1.016	0.997	1.004	1.007	1.014	1.017	1.015	1.021	0.957	0.973
Wednesday	0.983	0.973	0.966	0.997	0.992	0.994	0.969	1.000	1.010	1.007	0.924	0.973
Thursday	0.949	0.952	0.920	0.955	0.965	0.957	0.947	0.965	0.963	0.962	0.985	0.946
Friday	0.816	0.847	0.831	0.857	0.844	0.853	0.883	0.853	0.840	0.846	0.876	0.866
Saturday	1.045	1.058	1.078	1.063	1.025	1.074	1.103	1.061	1.049	1.049	1.094	1.055

**ANNUAL AVERAGE DAILY TRAFFIC BY STATIONS FOR THE YEARS 2005 TO 2015
MUNICIPAL PRIMARY**

STATION	ROUTE	LOCATION	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015
802	US 71	W OF MEMPHIS AVE SPIRIT LAKE	12408	12102	11721	11530	11961	11827	11701	11723	11777	12076	11714
803	IA 12	ON VIADUCT E OF COURT ST SIOUX CITY	25518	23924	23112	22228	NONE	NONE	22563	NONE	20642	NONE	NONE
804	IA 4	N OF 4TH AVE NW POCAHONTAS	3052	3082	3012	2950	2868	2965	3246	3290	3091	3094	3177
805	IA 148	S OF 11TH ST CORNING	3098	3202	3046	2852	2867	2811	2797	2802	2637	2711	2720
806	US 6	E OF SHASTA WINDSOR HEIGHTS	22989	21425	19954	19072	19481	NONE	NONE	18681	19223	18151	18610
808	US 71	S OF BIRCH ST AUDUBON	4858	4750	4701	4655	4769	NONE	NONE	4675	4601	4567	4545
809	IA 14	N OF WOODLAND ST MARSHALLTOWN	6484	6268	6304	6164	6119	6228	6000	5836	5746	5641	5648
810	IA 92	W OF N ST INDIANOLA	11582	11203	10858	10837	11024	11061	11036	11047	10985	11251	NONE
811	IA 192	S OF AVE N COUNCIL BLUFFS	9474	9047	8858	9139	9057	8718	NONE	6004	5949	6208	9535
812	IA 122	W OF VIRGINIA AVE MASON CITY	12706	12014	12035	11825	12186	11450	11754	11469	10842	10768	10542
813	US 6	E OF PINE ST DAVENPORT	22078	21648	22022	21686	21312	21935	21137	22050	20189	19925	NONE
815	IA 922	BTWN WILEY BLVD & WESTDALE CDR RPDS	9006	9474	9565	9551	10812	10940	10658	NONE	NONE	NONE	10989
816	US 34	W OF US 61 WEST BURLINGTON	12814	13878	13666	13097	13168	13671	13076	13173	12909	NONE	NONE
819	IA 9	EAST OF 14TH ST OSAGE	5536	5391	5374	5264	5237	5262	NONE	5207	5200	5244	5080
820	IA 17	N OF NW 11TH ST EAGLE GROVE	2997	2867	2818	2739	2722	2832	2898	2810	2891	NONE	NONE
821	IA 4	S OF EDGEWOOD AVE E JEFFERSON	4211	4166	4102	4074	4154	4138	3995	NONE	3832	3923	4093
823	US 6	BETWEEN SYCAMORE & 1ST AVE IOWA CITY	21726	21526	21187	20946	20652	20543	20148	NONE	NONE	NONE	19998
824	US 69	BETWEEN 15TH AND 16TH ST AMES	20080	19804	19440	17551	17318	18148	17567	NONE	17619	17298	17323
826	US 65	1.5 MI NE OF I-80 BONDURANT	12737	12397	12052	11761	12272	12608	12446	NONE	12817	12625	NONE
827	US 61/151	W OF MISSISSIPPI R DUBUQUE	19238	19396	20588	20031	20744	21554	21609	21611	21381	21990	22069
828	IA 150	S OF 12TH ST OELWEIN	6505	6654	6298	6295	6461	6550	6490	6354	6305	6196	6198
829	US 59	S OF 5TH AVE SHENANDOAH	10054	10053	9698	9121	8694	8819	SITE REMOVED JUNE 2011				
830	IA 23	S OF IA 92 OSKALOOSA	3204	3159	3073	2951	2871	2866	2808	2794	2742	NONE	2789
831	IA 5	W OF FLUER DRIVE DES MOINES						NONE	23086	22771	22572	23262	NONE

**2015 EXPANSION FACTORS
MUNICIPAL PRIMARY**

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
SEASONAL	1.146	1.101	1.028	0.964	0.931	0.922	0.936	0.940	0.947	0.957	1.030	1.062
Sunday	1.532	1.495	1.422	1.391	1.316	1.310	1.282	1.272	1.289	1.306	1.379	1.411
Monday	0.966	0.969	0.990	0.973	1.052	0.981	0.969	0.982	1.037	0.993	0.957	0.966
Tuesday	0.953	0.935	0.973	0.964	0.956	0.967	0.958	0.979	0.969	0.981	0.918	0.933
Wednesday	0.957	0.938	0.936	0.957	0.949	0.954	0.927	0.963	0.960	0.961	0.905	0.946
Thursday	0.936	0.940	0.916	0.935	0.949	0.943	0.944	0.947	0.936	0.936	1.004	0.936
Friday	0.821	0.846	0.849	0.862	0.855	0.872	0.903	0.873	0.851	0.856	0.880	0.886
Saturday	1.099	1.119	1.111	1.081	1.050	1.100	1.142	1.088	1.079	1.088	1.128	1.101

ANNUAL AVERAGE DAILY TRAFFIC BY STATIONS FOR THE YEARS 2005 TO 2015

SECONDARY

PAVED

STATION	ROUTE	LOCATION	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015
300	CO P14	2.7 MI N OF CO E33 CHURDAN	296	303	250	237	247	239	234	268	237	241	238
301	CO S14	0.8 MI S OF CO E29 NEVADA	979	1008	989	975	973	958	988	988	965	967	969
302	CO M55	0.2 MI N OF IA 141 MANILLA	824	830	783	739	736	739	777	798	787	793	804
303	CO K45	2.25 MI S OF IA 175 ONAWA	1025	1029	1059	1106	1152	NONE	NONE	NONE	1162	1155	NONE
304	CO V45	3.5 MI N OF IA 92 SIGOURNEY	640	645	634	617	636	665	652	NONE	646	631	636
306	CO E53	1.75 MI E OF IA 25 SCRANTON	579	570	515	520	544	NONE	NONE	524	497	507	530
307	CO R38	2.2 MI N OF CO C54 CLARION	1292	1361	1293	1255	1240	1278	NONE	1339	1379	NONE	NONE
308	CO N32	1.6 MI N OF IA 9 ESTHERVILLE	361	370	341	330	357	NONE	344	NONE	323	NONE	340
309	CO K52	1.5 MI S OF US 18 HULL	974	1017	987	1001	1063	NONE	1149	1178	1228	1249	NONE
310	CO Y52	1.5 MI S OF US 30 GRAND MOUND	529	534	504	479	501	NONE	502	498	NONE	NONE	NONE
311	CO W12	3.5 MI S OF US 30 WATKINS	835	852	853	804	825	NONE	804	799	773	744	756
312	CO E26	2.7 MI W OF CO RD R38 BOONE	1336	1370	1327	1213	1269	1395	NONE	1525	NONE	1481	1525
313	CO D42	0.2 MI E OF IA 13 MANCHESTER	715	719	698	679	691	702	630	612	623	679	699
314	CO 105	1.3 MI E OF CO S56 NORTHWOOD	675	766	771	775	778	800	767	744	737	731	772
315	CO RD	5.5 MI E OF US 63 DRAKESVILLE	722	733	720	656	676	675	665	682	666	665	679
316	CO D36	2.8 MI E OF CO N57 ROCKWELL CITY	3099	3138	3111	3087	3155	3292	1201	1157	1014	974	949

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	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015
400	CO B30	0.5 MI E OF CO L48 PRIMGHAR	26	29	27	21	23	21	23	18	22	22	22
401	LOC RD	1.75 MI N OF CO E36 CLUTIER	32	33	35	31	30	36	36	39	34	35	NONE
402	LOC RD	0.75 MI E OF CO V18 CLUTIER	42	50	50	41	47	51	55	54	47	48	46
403	CO H47	5.0 MI SE OF US 34 ALBIA	109	111	102	88	98	89	92	104	100	NONE	100
405	LOC RD	2.5 MI N OF US 18 NEW HAMPTON	47	55	55	46	48	46	48	51	49	57	NONE
406	LOC RD	2.0 MI E OF US 169 LORIMOR	71	67	70	57	63	62	57	NONE	70	68	69
407	CO H23	2.0 MI E OF US 169 LORIMOR	81	77	76	68	70	75	66	76	77	75	72

2015 EXPANSION FACTORS

SECONDARY

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
SEASONAL	1.247	1.239	1.097	0.980	0.908	0.918	0.916	0.970	0.944	0.876	1.010	1.119
Sunday	1.472	1.435	1.349	1.354	1.311	1.341	1.316	1.321	1.293	1.318	1.346	1.367
Monday	0.962	0.970	0.987	0.998	1.039	0.978	0.961	0.964	1.005	0.973	0.972	0.993
Tuesday	0.972	0.927	0.999	0.956	0.961	0.938	0.952	0.944	0.939	0.950	0.934	0.952
Wednesday	0.977	0.945	0.955	0.978	0.932	0.916	0.918	0.950	0.944	0.984	0.928	0.972
Thursday	0.955	0.950	0.929	0.962	0.978	0.943	0.921	0.937	0.946	0.959	0.997	0.932
Friday	0.833	0.871	0.866	0.884	0.879	0.907	0.933	0.910	0.903	0.902	0.900	0.889
Saturday	1.071	1.098	1.078	1.016	1.033	1.147	1.147	1.117	1.100	1.048	1.067	1.050

**ANNUAL AVERAGE DAILY TRAFFIC BY STATIONS FOR THE YEARS 2005 TO 2015
MUNICIPAL STREETS**

STATION	ROUTE	LOCATION	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015
900	LAKE ST	N OF 3RD ST in STORM LAKE	2911	2818	2872	2756	2848	2811	NONE	2610	2587	2556	2616
901	2ND AVE N	E OF 15TH ST in FORT DODGE	6780	6695	6760	6775	6665	6728	6620	6444	6024	NONE	NONE
902	LOCUST ST	E OF SPRING ST in DAVENPORT	22369	21934	21750	21300	20726	20521	NONE	NONE	20336	19630	20177
903	JEFFERSON	NE OF E 5TH ST in OTTUMWA	6549	6627	6456	6272	6006	5694	NONE	5699	5628	NONE	5329
904	JOHNSON	W OF JANICE DR in CEDAR RAPIDS	10360	10086	9947	10000	9818	9613	9391	9258	9057	8931	NONE
905	N'WESTERN	N OF 20TH ST in AMES	2460	2348	2304	2202	2264	NONE	2193	NONE	2211	2178	NONE
906	DUBUQUE	S OF DAVENPORT ST in IOWA CITY	15177	15448	15230	14688	14411	14245	13859	13518	NONE	12861	13339
907	COLLEGE	S OF 23RD ST in CEDAR FALLS	7947	7862	7444	NONE	NONE	NONE	7974	NONE	NONE	7410	7323
908	LIND'WOOD	S OF 35TH ST in SIOUX CITY	1056	1026	1008	969	977	954	976	960	NONE	NONE	NONE
909	HAMILTON	N OF CLIFTON AVE in SIOUX CITY	14529	14547	14314	13854	14159	14586	14388	14584	NONE	13719	14701
910	GRANDVIEW	SE OF PLYMOUTH CT in DUBUQUE	9094	8836	8779	8596	8871	8946	8917	8833	8411	7983	8465
911	HUMBOLDT	S OF 4TH ST in BODE	796	796	786	776	770	767	739	NONE	684	695	665
912	ELM ST	N OF LUCAS ST in CRESTON	4126	3938	3710	3798	3807	3782	3802	3735	3550	NONE	3364
** 913	WASHINGTON	E OF HARRISON ST in MOUNT PLEASANT	12834	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.

**2015 EXPANSION FACTORS
MUNICIPAL STREETS**

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
SEASONAL	1.143	1.080	1.042	0.963	0.945	0.980	0.961	0.961	0.958	0.944	1.038	1.066
Sunday	1.430	1.404	1.367	1.348	1.327	1.330	1.353	1.288	1.240	1.322	1.330	1.358
Monday	0.977	0.976	0.976	0.974	1.057	0.969	0.972	0.973	1.050	0.980	0.957	0.965
Tuesday	0.943	0.931	0.965	0.955	0.949	0.953	0.951	0.960	0.957	0.970	0.907	0.933
Wednesday	0.951	0.928	0.929	0.946	0.938	0.960	0.935	0.955	0.939	0.944	0.901	0.946
Thursday	0.934	0.936	0.921	0.939	0.928	0.938	0.935	0.939	0.926	0.934	1.011	0.936
Friday	0.846	0.874	0.871	0.881	0.866	0.884	0.896	0.891	0.874	0.878	0.911	0.901
Saturday	1.122	1.141	1.140	1.103	1.076	1.106	1.119	1.120	1.122	1.106	1.133	1.110

ANNUAL AVERAGE DAILY TRAFFIC BY STATIONS FOR THE YEARS 2005 TO 2015

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

2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015
8263	8343	8346	7877	8067	8213	8250	NONE	NONE	8284	8724
3644	3765	3745	3692	3922	3910	3801	3772	3711	3582	4041
5789	5870	5162	5293	6076	NONE	6130	6445	6697	NONE	7530

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.

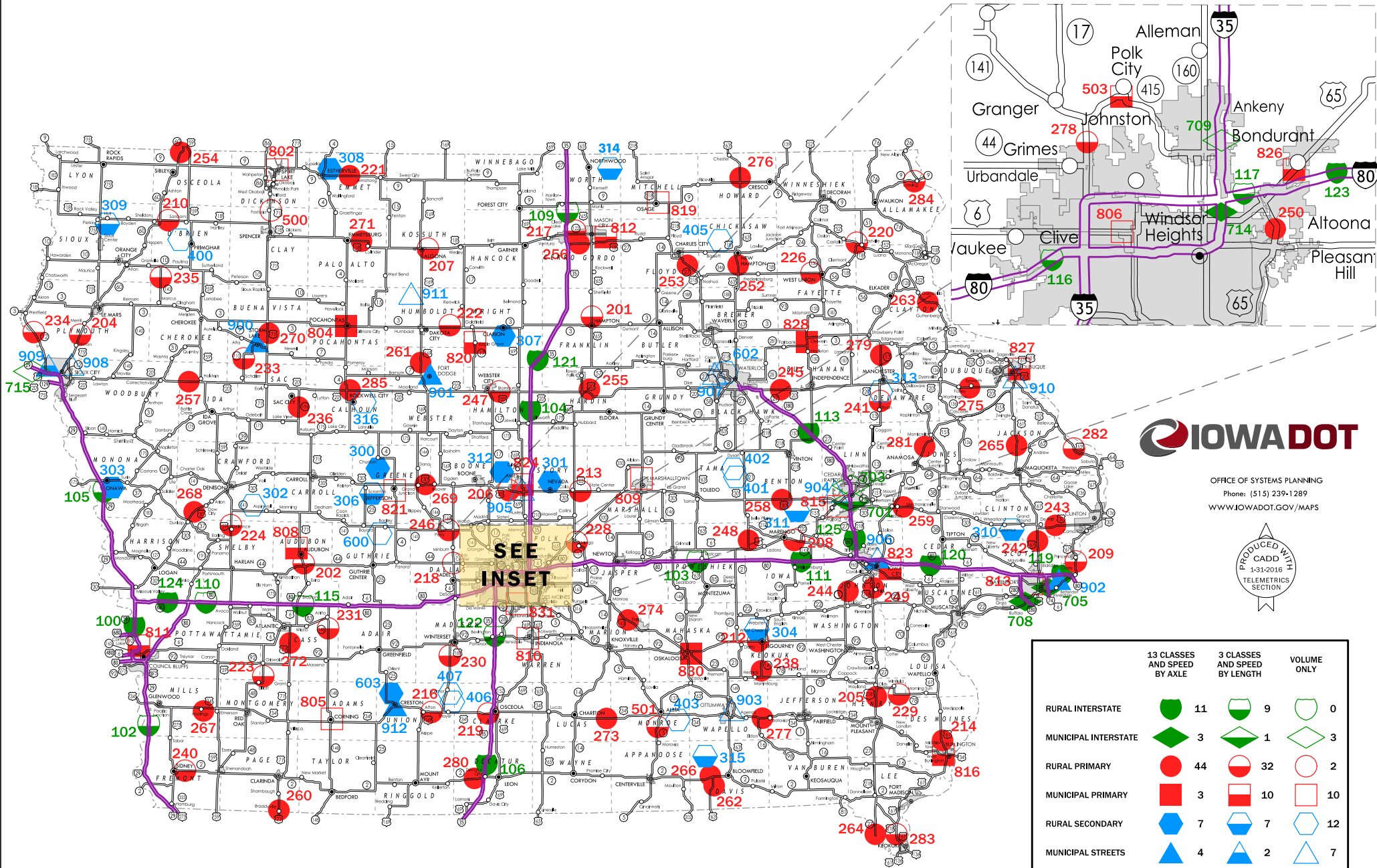
2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015
204	209	226	205	216	207	199	188	181	176	178
822	777	799	643	731	766	759	850	NONE	748	748
339	352	339	273	175	NONE	NONE	262	283	279	NONE

**2015 EXPANSION FACTORS
RECREATIONAL**

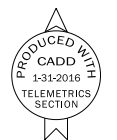
	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
SEASONAL	1.766	1.836	1.382	0.960	0.747	0.738	0.663	0.770	0.856	1.039	1.489	1.745
Sunday	1.142	1.126	1.077	0.931	0.936	0.960	0.917	0.896	0.941	1.017	1.149	1.188
Monday	1.088	1.061	1.111	1.166	1.065	1.168	1.290	1.243	1.081	1.113	1.043	1.037
Tuesday	1.094	1.003	1.098	1.220	1.207	1.159	1.243	1.229	1.271	1.116	0.984	1.025
Wednesday	1.065	1.025	1.050	1.257	1.156	1.105	1.125	1.178	1.212	1.065	0.963	1.002
Thursday	1.068	1.095	0.986	1.141	1.194	1.088	0.998	1.110	1.165	1.031	1.068	0.951
Friday	0.904	0.947	0.890	0.914	0.916	0.857	0.884	0.901	0.927	0.937	0.938	0.943
Saturday	0.847	0.913	0.928	0.762	0.804	0.862	0.837	0.795	0.808	0.882	0.963	0.952

AUTOMATIC TRAFFIC RECORDER LOCATIONS

JANUARY 1, 2016



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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	1	3
RURAL PRIMARY	44	32	2
MUNICIPAL PRIMARY	3	10	10
RURAL SECONDARY	7	7	12
MUNICIPAL STREETS	4	2	7
TOTAL	167	72	34