



AUTOMATIC TRAFFIC RECORDERS 1998 - 2008

Prepared by

OFFICE OF TRANSPORTATION DATA

In Cooperation With

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

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JANUARY 2009

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INTRODUCTION

This report contains graphic comparisons of daily and monthly traffic collected on Iowa's highway system at 149 Permanent Continuous Automatic Traffic Recorder locations. Seventeen (17) stations are located on the Rural Interstate system, five (5) are on the Municipal Interstate system, sixty-five (65) 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 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.

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 1999 - 2008.

Information from the permanent traffic recorders indicates a 2.5% decrease in statewide travel from 2007 to 2008. The estimated vehicle miles of travel for 2008 is 30.70 billion. Final 2008 traffic figures will be published near June 2009, when all traffic data collected during 2008 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

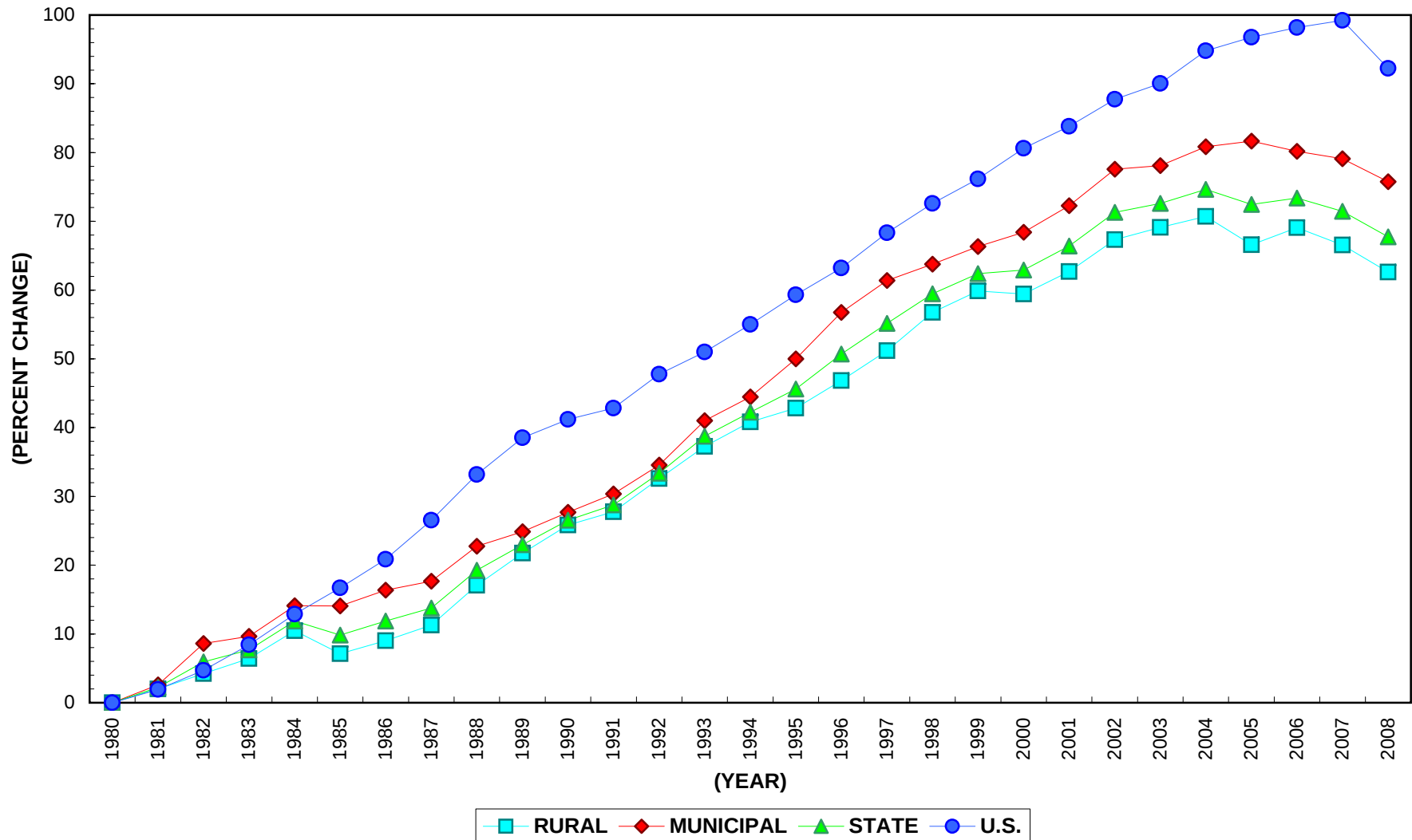
IOWA ROAD SYSTEMS

	2008 COMPARED TO 2007
RURAL INTERSTATE	-3.2 %
RURAL PRIMARY	-1.8%
RURAL SECONDARY	-3.4 %
RURAL TOTAL	-2.7 %
MUNICIPAL INTERSTATE	-1.9 %
MUNICIPAL PRIMARY	- 2.9 %
MUNICIPAL STREETS	- 2.0 %
MUNICIPAL TOTAL	- 2.2 %
STATE TOTAL	-2.5 %

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.

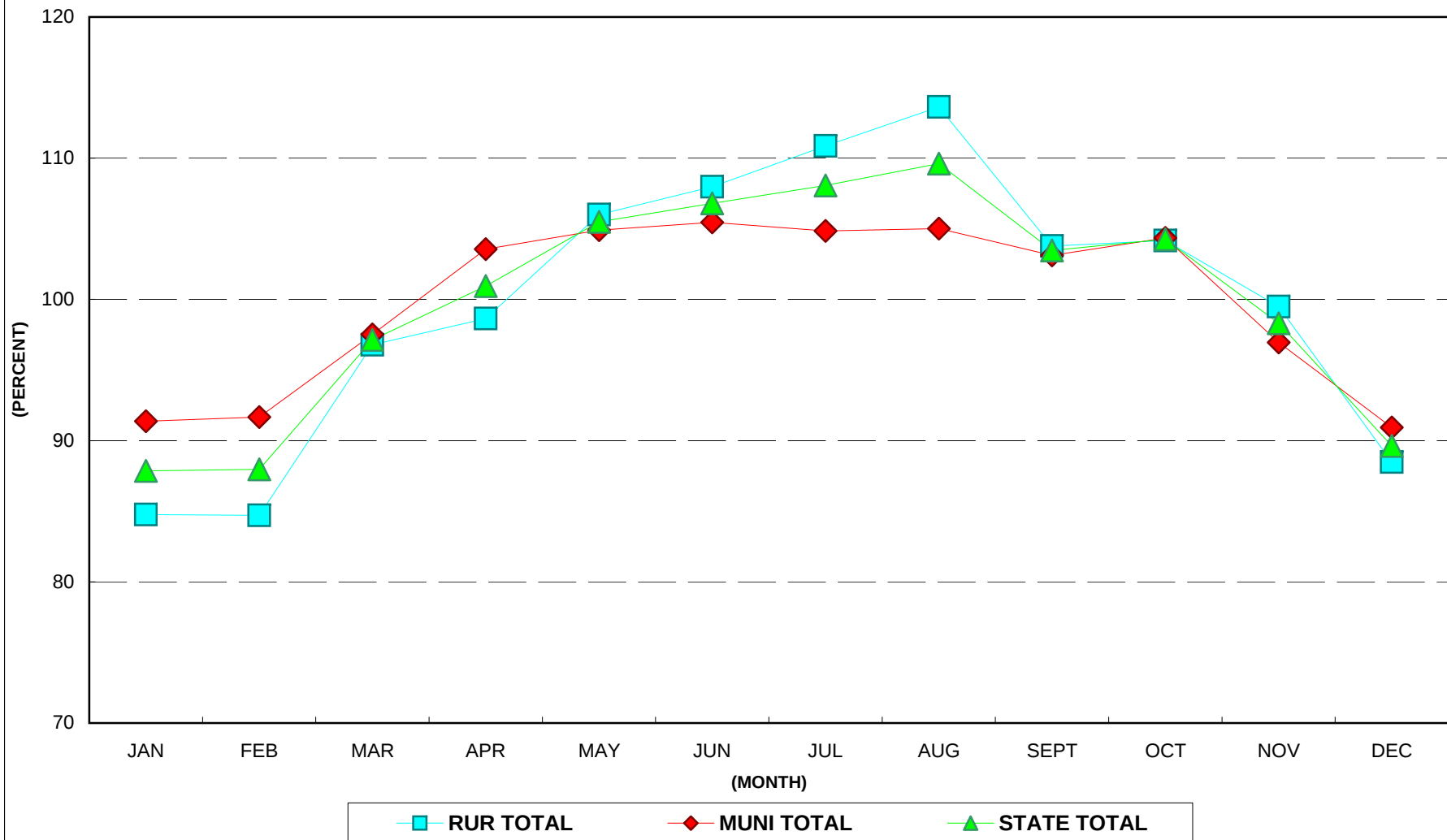
PERCENT CHANGE IN TRAFFIC

BASE YEAR 1980



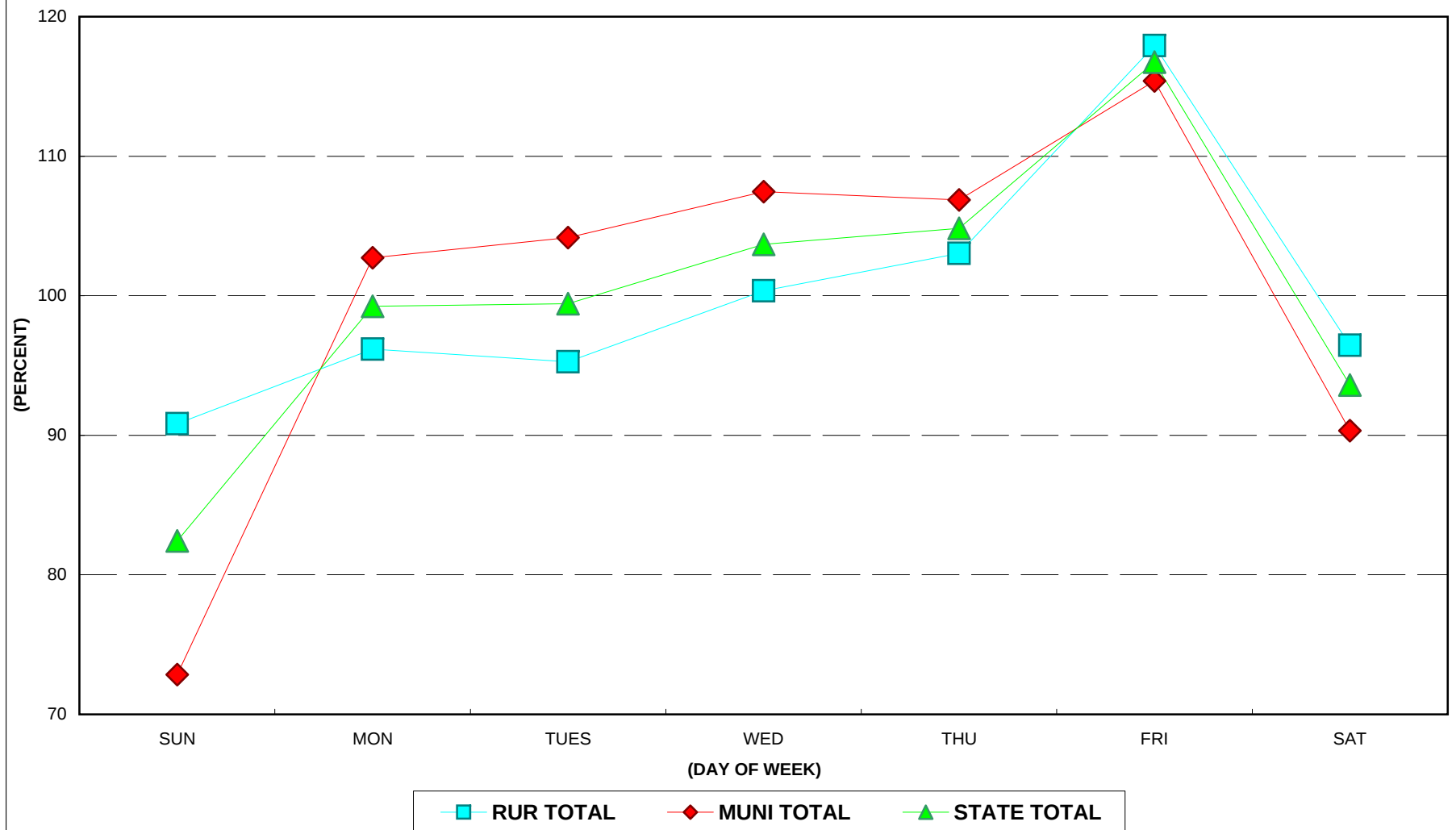
2008 MONTHLY TRAFFIC

AS A % OF ANNUAL AVERAGE DAILY TRAFFIC



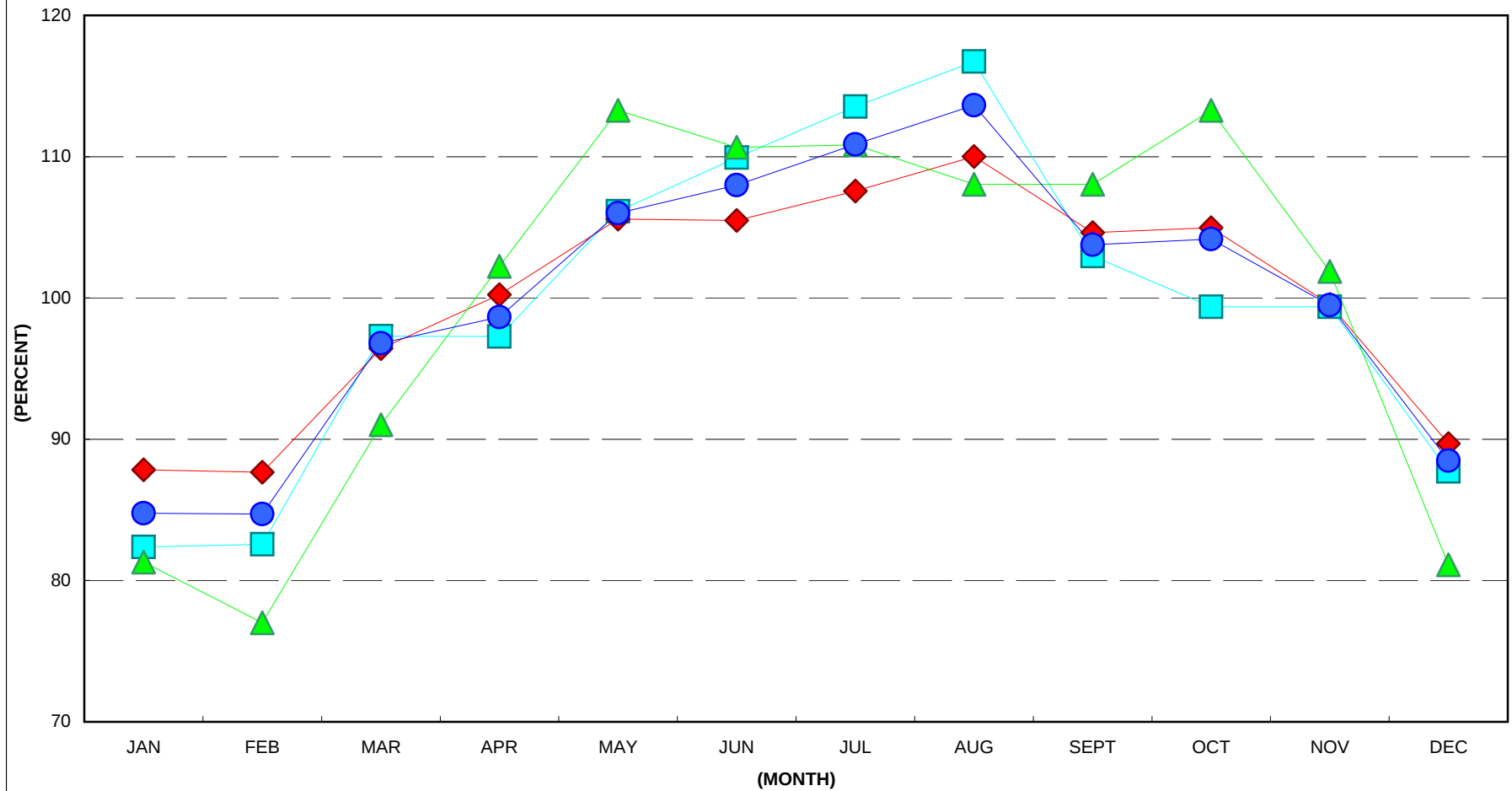
2008 DAY OF WEEK TRAFFIC

AS A % OF ANNUAL AVERAGE DAILY TRAFFIC



2008 RURAL MONTHLY TRAFFIC

AS A % OF ANNUAL AVERAGE DAILY TRAFFIC



INT

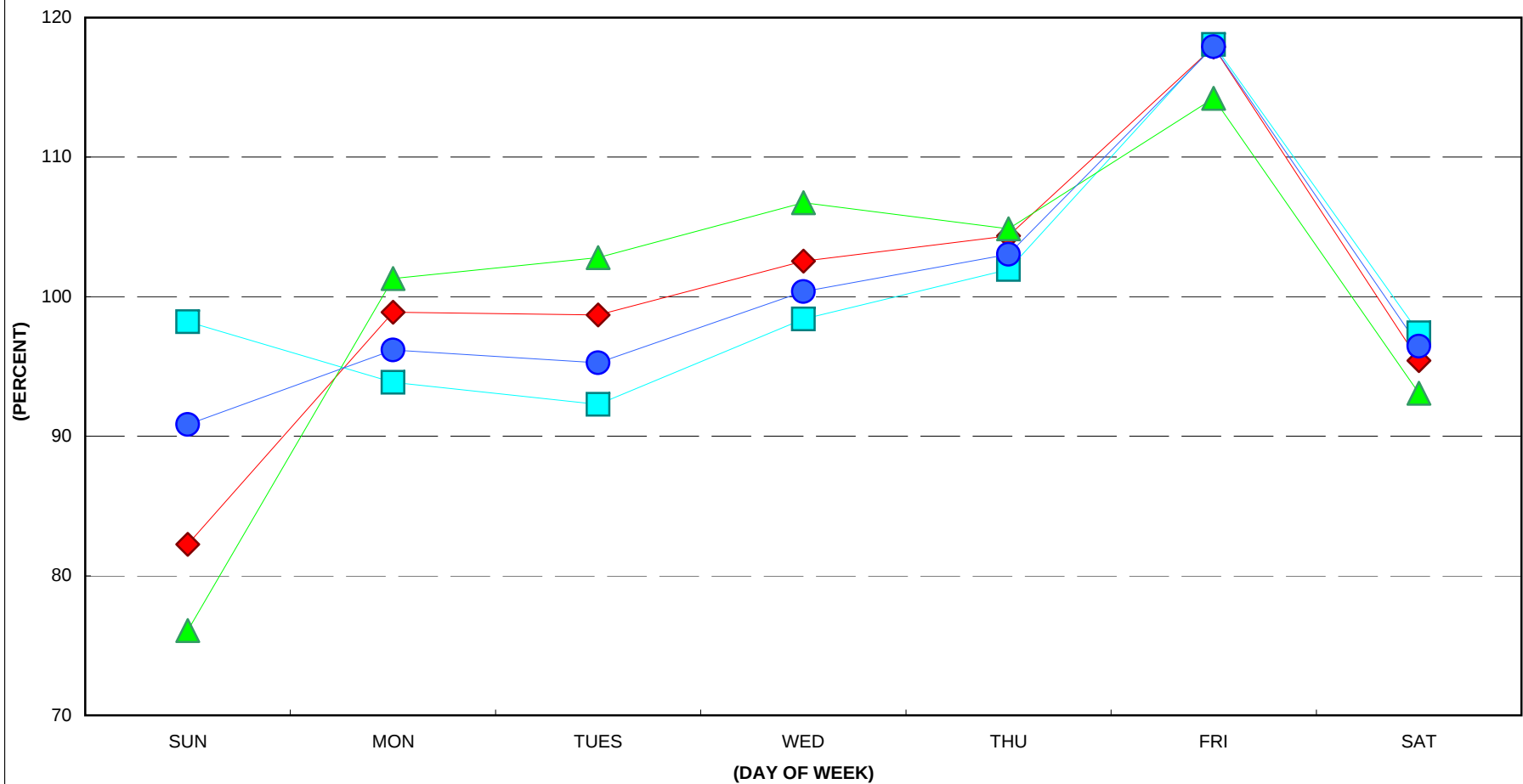
PRIM

SEC

RURAL TOTAL

2008 RURAL DAY OF WEEK TRAFFIC

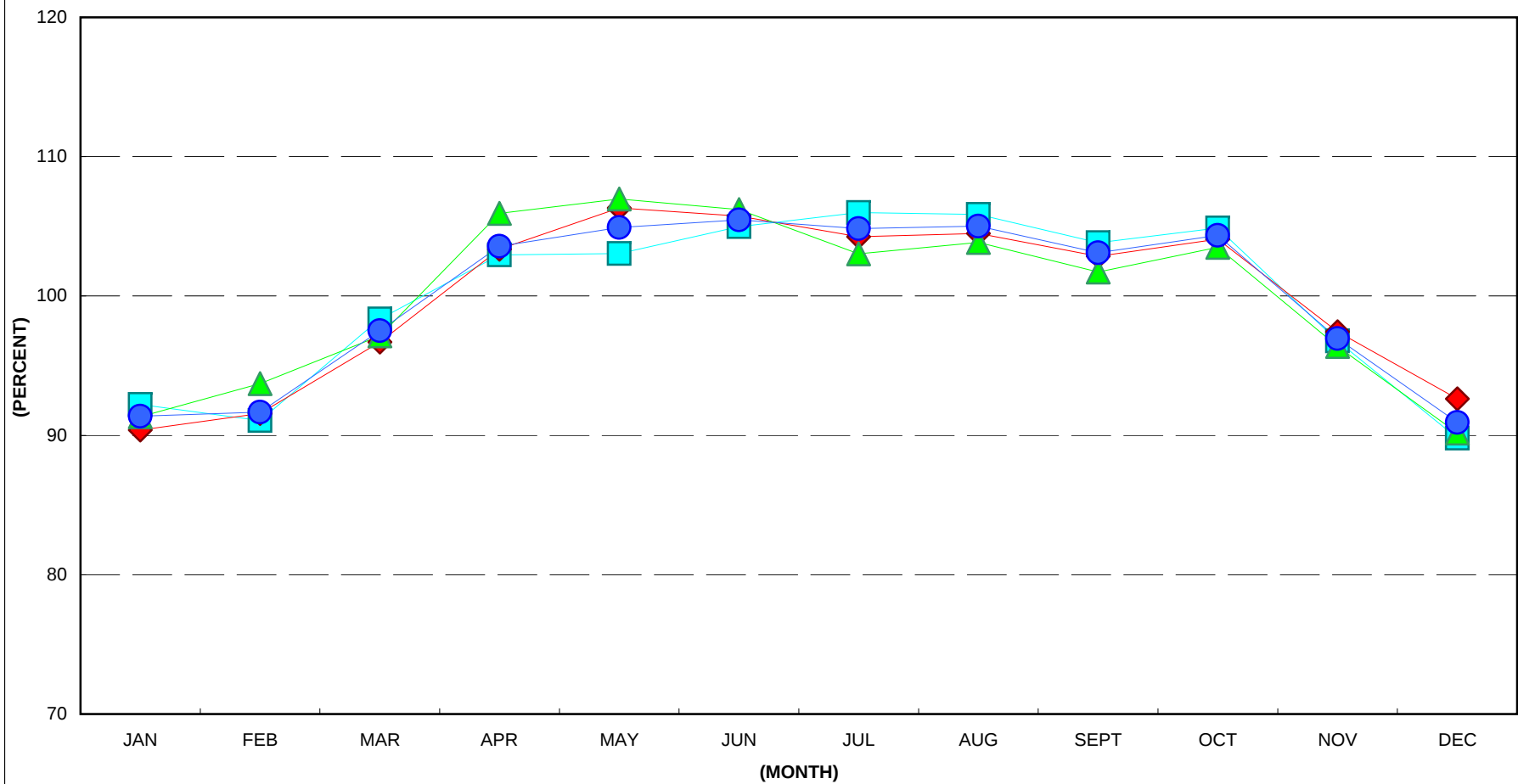
AS A % OF ANNUAL AVERAGE DAILY TRAFFIC



—■— INT —◆— PRIM —▲— SEC —●— RURAL TOTAL

2008 MUNICIPAL MONTHLY TRAFFIC

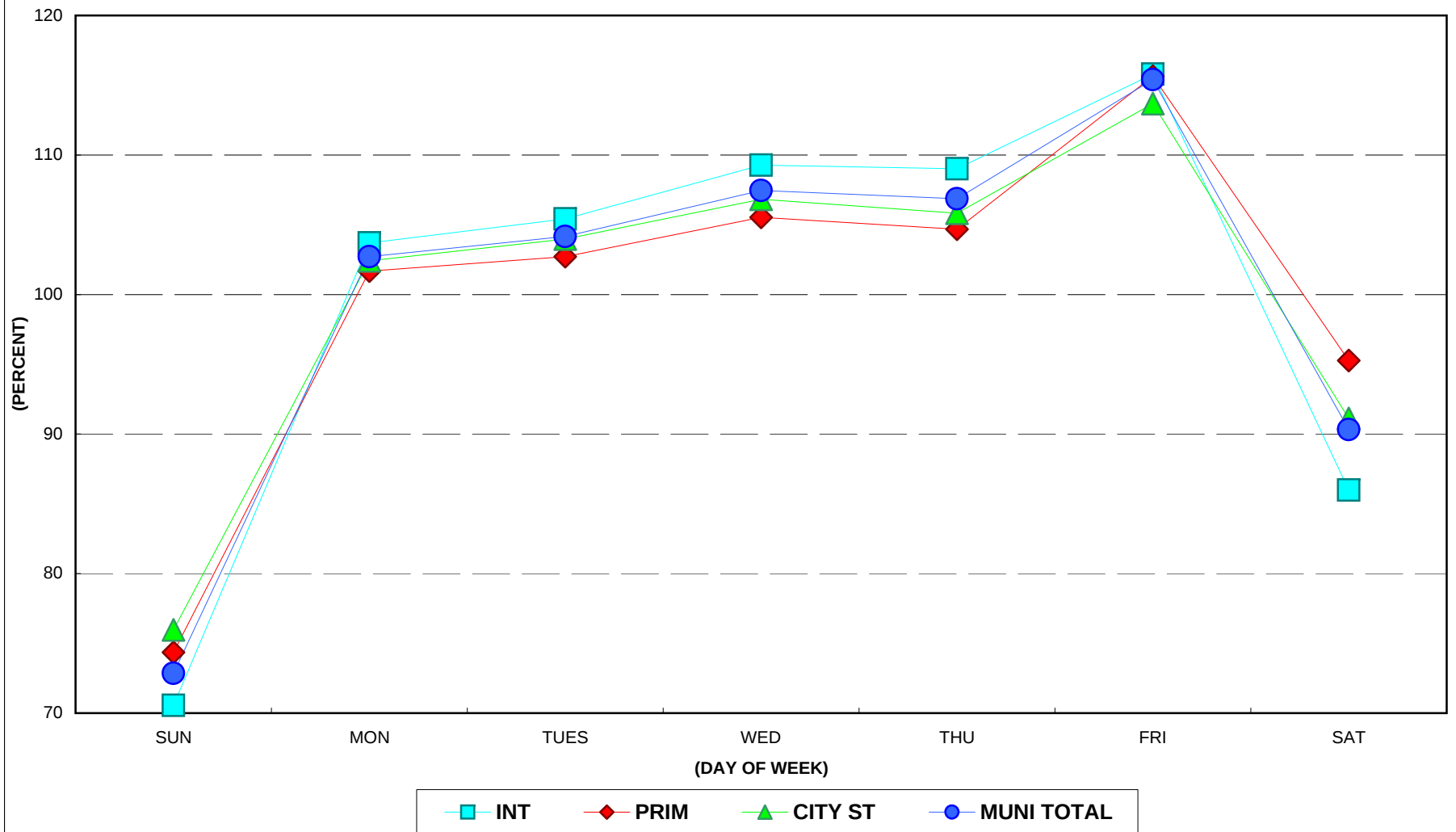
AS A % OF ANNUAL AVERAGE DAILY TRAFFIC



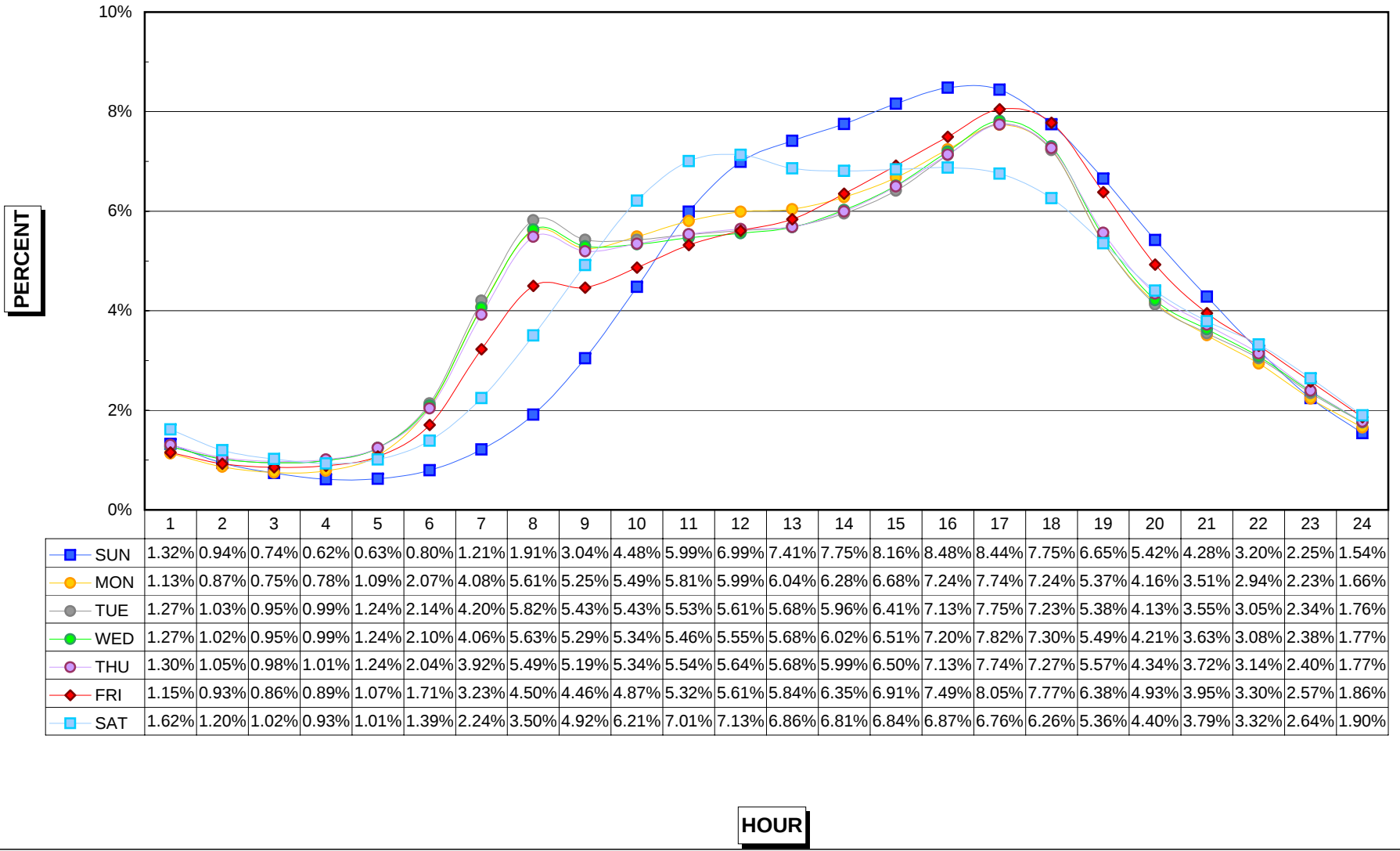
INT PRIM CITY ST MUNI TOTAL

2008 MUNICIPAL DAY OF WEEK TRAFFIC

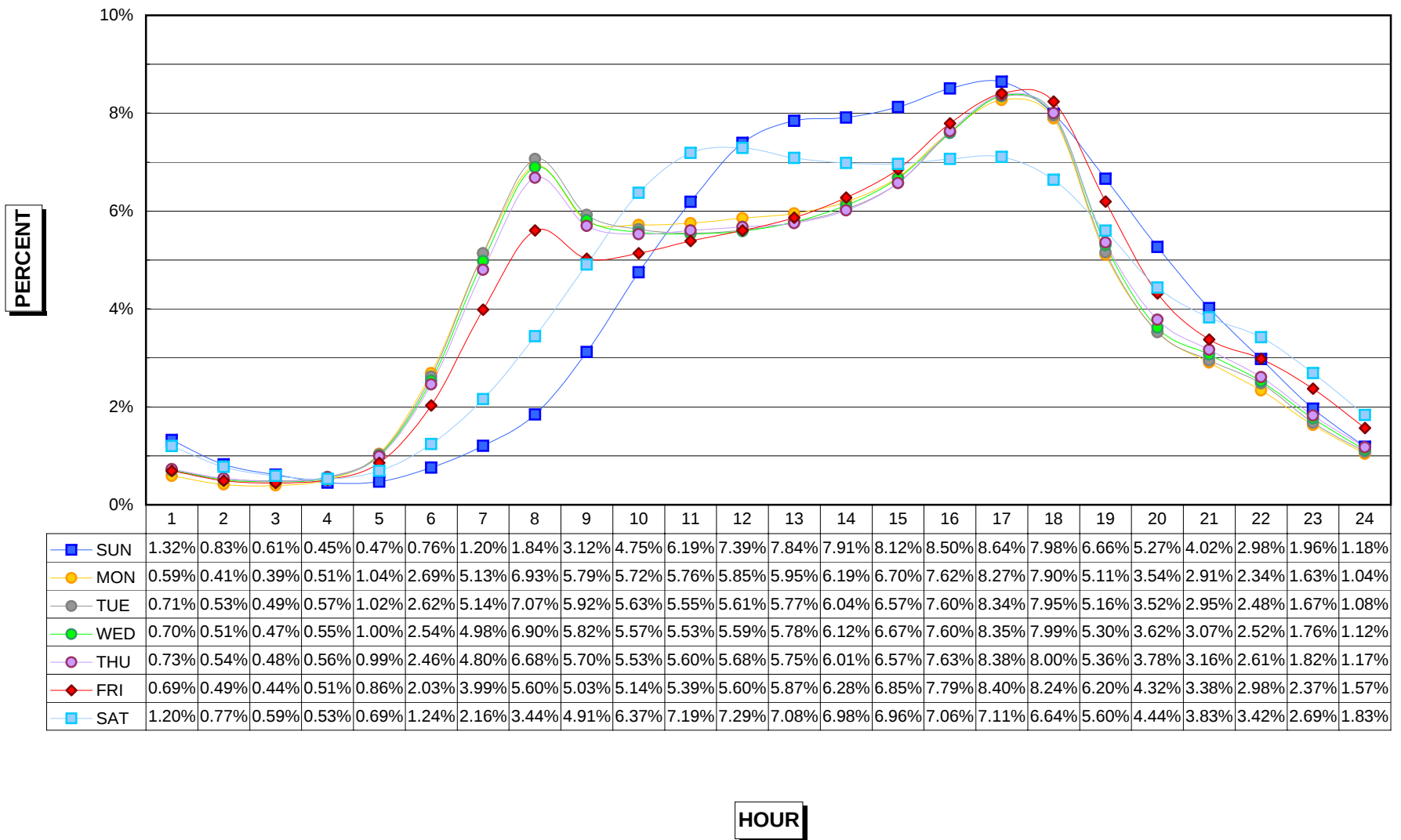
AS A % OF ANNUAL AVERAGE DAILY TRAFFIC



HOURLY DISTRIBUTION OF DAILY TRAFFIC 2008 RURAL INTERSTATE

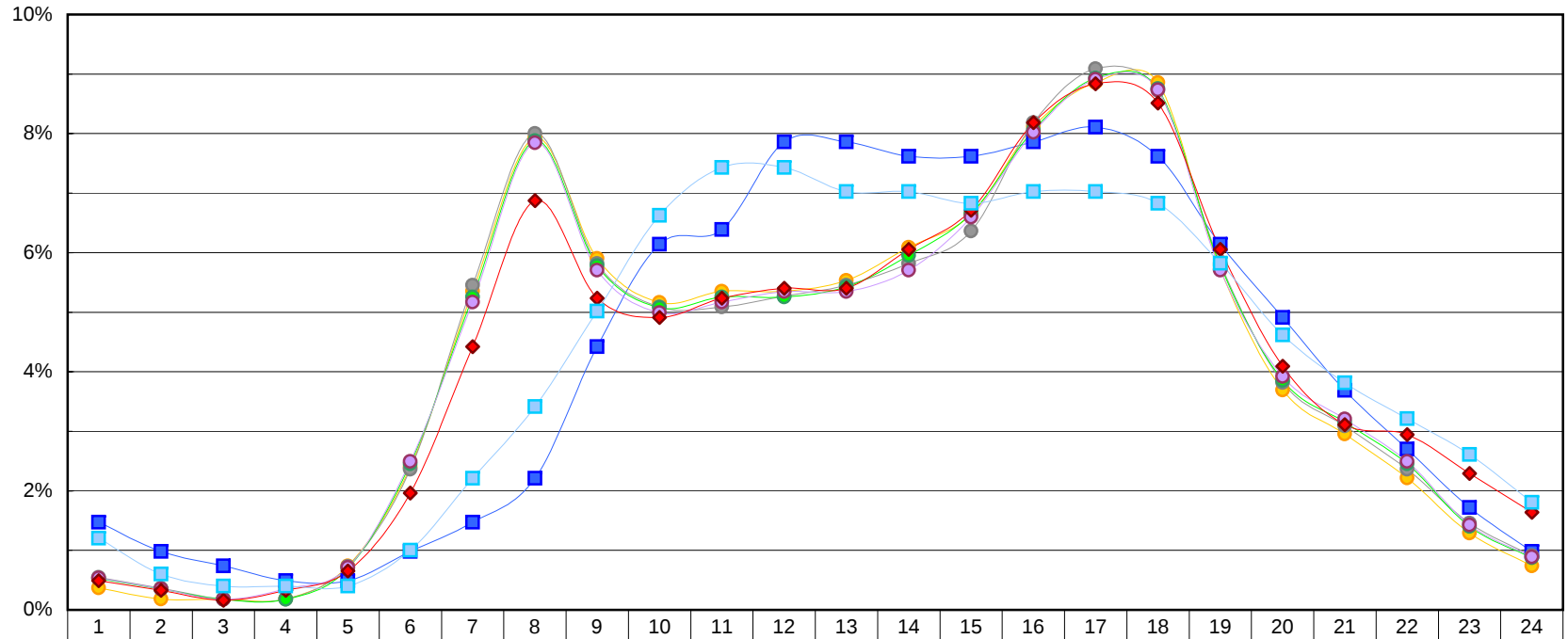


HOURLY DISTRIBUTION OF DAILY TRAFFIC 2008 RURAL PRIMARY



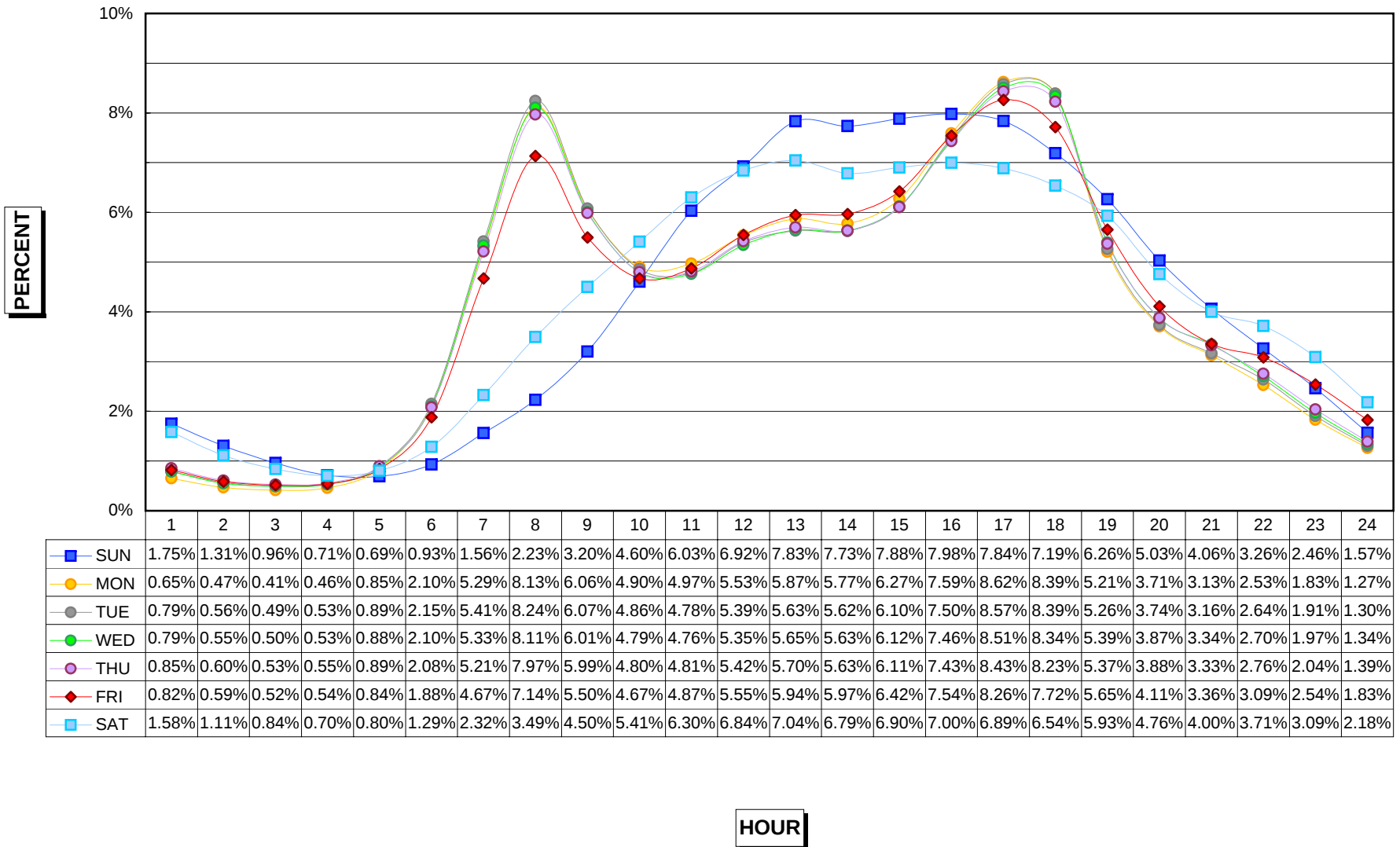
HOURLY DISTRIBUTION OF DAILY TRAFFIC 2008 RURAL SECONDARY

PERCENT

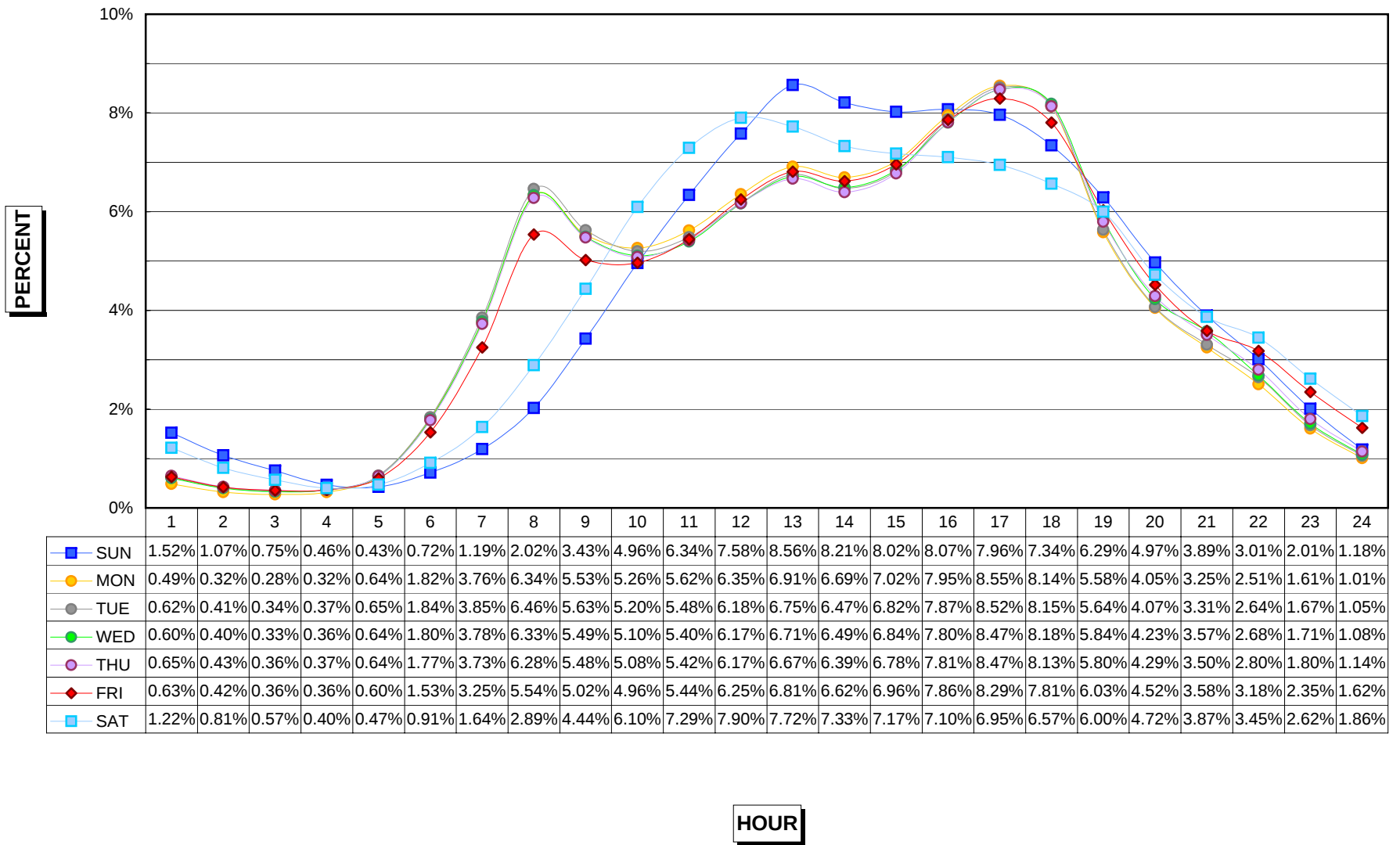


HOURLY

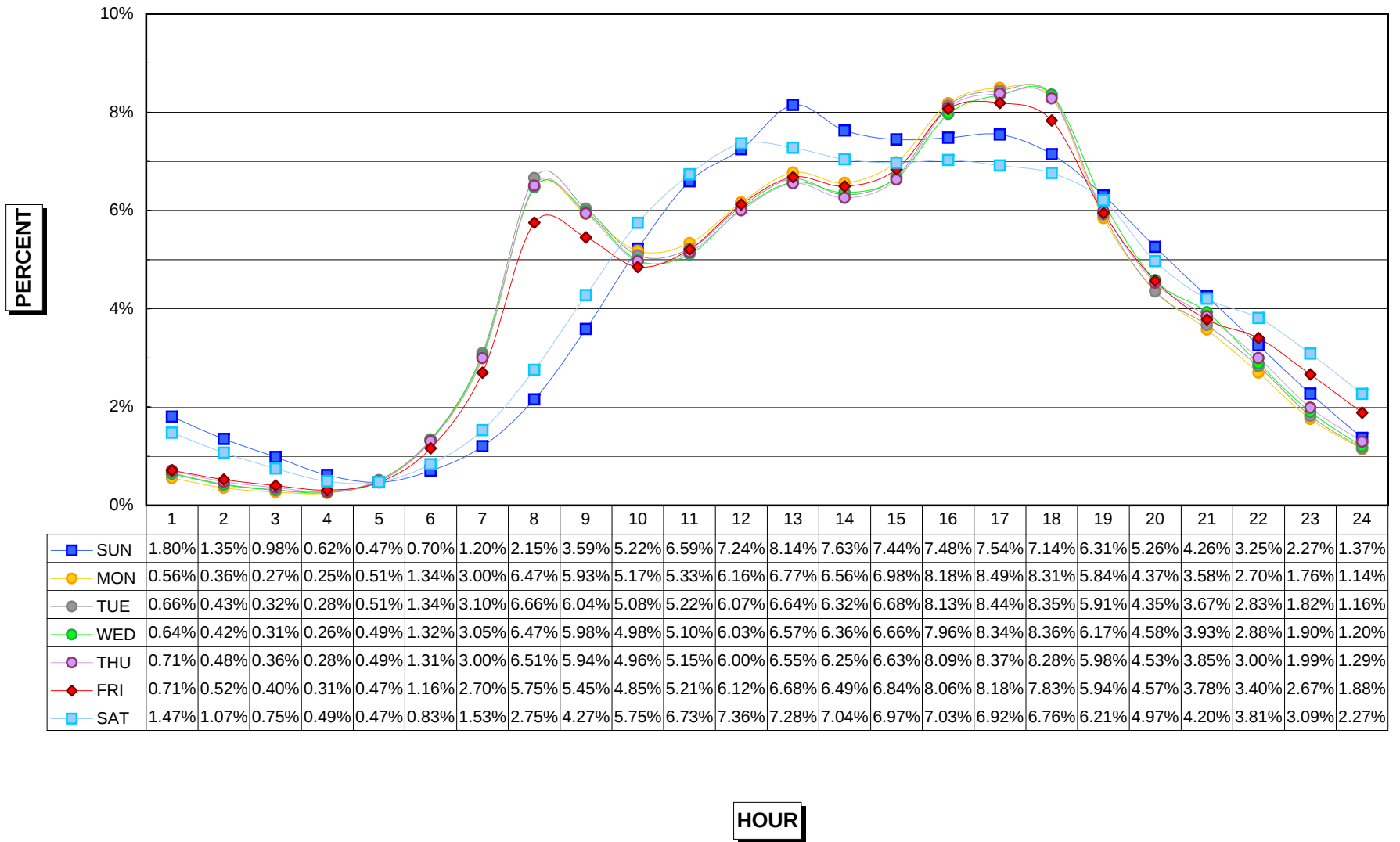
HOURLY DISTRIBUTION OF DAILY TRAFFIC 2008 MUNICIPAL INTERSTATE



HOURLY DISTRIBUTION OF DAILY TRAFFIC 2008 MUNICIPAL PRIMARY



HOURLY DISTRIBUTION OF DAILY TRAFFIC 2008 MUNICIPAL STREETS



SUMMARY OF ANALYSIS

Analysis of the Thirtieth Highest Hour at the Permanent Continuous Automatic Traffic Recorder Stations 1999 - 2008

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, 1999 through 2008.

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	9.42	10.67	371.27	9.67	5.27	12.07	-	-
Municipal	67.81	9.73	279.14	9.70	-	-	62.68	9.80

ANNUAL AVERAGE DAILY TRAFFIC BY STATIONS FOR THE YEARS 1998 TO 2008

RURAL INTERSTATE

STATION	ROUTE	LOCATION	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008
100	I 29	3.0 MI N OF S JCT I 680 HONEY CREEK	19983	20419	20202	20192	21070	20906	21319	20959	21484	21033	20246
102	I 29	4.0 MI S OF US 34 PACIFIC JCT	10487	11247	11221	11402	11917	12010	12101	12151	12495	12300	11793
103	I 80	5.0 MI E OF IA 146 GRINNELL	25114	26366	26178	26249	27346	26917	26726	26325	26940	26853	26118
104	I 35	3.0 MI N OF IA 175 JEWELL	17177	17411	17547	17848	18596	18996	20269	20200	20629	20598	20147
105	I 29	3.8 MI S OF IA 175 ONAWA	10316	11200	11016	11092	11346	12031	12171	12015	12283	12418	12096
106	I 35	1.5 MI N OF IA 2 LEON	11907	12271	12486	12659	13234	13265	13233	12982	13290	13227	12705
109	I 35	3.0 MI N OF CO B20 HANLONTOWN	14534	14965	15221	15880	16575	17046	17556	17373	18466	18611	17794
110	I 80	1.5 MI W OF CO M16 SHELBY	20777	21572	21441	21468	22379	22254	22496	22208	22670	22752	21727
111	I 80	2.0 MI E OF IA 149 WILLIAMSBURG	28844	29838	29808	29952	31092	31021	31258	30939	31347	31325	29718
113	I 380	3.75 MI NW OF IA 150 BRANDON	11465	11854	12029	12224	12934	13422	14156	14308	14695	14976	14648
115	I 80	2.0 MI E OF US 71 ATLANTIC	17722	18365	18339	18377	19018	19013	19324	19282	19480	19697	19267
116	I 80	0.8 MI W OF 74TH ST WAUKEE	31267	31937	34507	32492	34059	33413	33870	33880	35190	34897	33977
117	I 80	1.75 MI E OF E JCT I 35/80/235 ALTOONA	58151	60719	60851	62242	65755	66846	69050	70547	70362	68589	67650
119	I 80	1.5 MI E OF MIDDLE RD LECLAIRE				25685	28206	29720	29201	28264	28926	28639	27436
120	I 80	2.5 MI E OF CO RD X40 TIPTON		29391	29329	30323	31234	31513	32318	32239	32583	32755	31284
121	I 35	2.0 MI N OF CO RD R75 DOWS								13800	14112	13858	13376
122	I 35	1.0 MI N OF IA 92 CUMMING											21255

2008 EXPANSION FACTORS RURAL INTERSTATE

MON - THU		MON	TUE	WED	THU	FRI	SAT	SUN
1.273	JAN	1.314	1.311	1.229	1.247	1.081	1.300	1.398
1.310	FEB	1.402	1.382	1.289	1.193	0.992	1.247	1.495
1.096	MAR	1.167	1.118	1.079	1.018	0.878	1.094	1.091
1.093	APR	1.128	1.132	1.072	1.043	0.890	1.125	1.063
1.023	MAY	1.056	1.073	1.017	0.958	0.828	1.005	0.974
0.971	JUN	0.994	1.015	0.966	0.911	0.785	0.953	0.935
0.930	JUL	0.965	0.979	0.930	0.874	0.768	0.917	0.884
0.924	AUG	0.945	0.963	0.921	0.873	0.745	0.877	0.850
1.053	SEP	1.092	1.088	1.041	0.980	0.822	0.997	0.957
1.044	OCT	1.085	1.091	1.043	0.985	0.830	1.025	0.975
1.123	NOV	1.171	1.180	1.108	1.048	0.883	1.088	1.109
1.248	DEC	1.251	1.459	1.175	1.156	1.036	1.206	1.434

ANNUAL AVERAGE DAILY TRAFFIC BY STATIONS FOR THE YEARS 1998 TO 2008

MUNICIPAL INTERSTATE

STATION	ROUTE	LOCATION	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008
701	I 380	BTWN WILSON AND 33RD CEDAR RAPIDS	58581	60722	60803	61973	63391	63338	64289	64150	64968	64650	63791
703	I 380	AT J AVE S OF COLDSTREAM CEDAR RAPIDS	77246	78696	78969	79802	81023	81222	82356	81384	82503	82450	80922
704	I 29/80	0.6 MI W OF IA 192 COUNCIL BLUFFS	65887	68638	69496	70860	76024	74081	75623	77569	79350	79516	76838
705	I 74	0.6 MI S OF US 6 BETTENDORF	39730	41466	43683	47438	48380	48022	47671	48031	49099	48849	48427
707	I 29	AT SOUTH DAKOTA BORDER SIOUX CITY										28070	27931

2008 EXPANSION FACTORS

MUNICIPAL INTERSTATE

MON - THU		MON	TUE	WED	THU	FRI	SAT	SUN
1.019	JAN	1.047	1.036	0.980	1.019	0.928	1.253	1.605
1.079	FEB	1.161	1.090	1.096	0.987	0.889	1.198	1.805
0.947	MAR	0.981	0.950	0.933	0.921	0.876	1.164	1.486
0.919	APR	0.927	0.927	0.903	0.923	0.862	1.155	1.400
0.909	MAY	0.935	0.918	0.897	0.889	0.847	1.131	1.347
0.899	JUN	0.916	0.910	0.896	0.874	0.837	1.143	1.328
0.883	JUL	0.908	0.900	0.873	0.866	0.836	1.165	1.336
0.891	AUG	0.913	0.897	0.881	0.874	0.826	1.121	1.315
0.909	SEP	0.941	0.911	0.895	0.881	0.833	1.137	1.345
0.917	OCT	0.947	0.927	0.908	0.897	0.843	1.148	1.370
0.938	NOV	0.963	0.960	0.924	0.908	0.863	1.173	1.472
1.028	DEC	1.027	1.155	0.989	0.965	0.964	1.226	1.678

ANNUAL AVERAGE DAILY TRAFFIC BY STATIONS FOR THE YEARS 1998 TO 2008

RURAL PRIMARY

STATION	ROUTE	LOCATION	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008
201	US 65	2.7 MI N OF IA 3 HAMPTON	3492	3152	2958	2869	3005	2981	2959	2886	2831	2808	2777
202	US 71	2.0 MI N OF IA 44 HAMLIN	3295	3082	3238	3162	3458	3416	3544	3504	3450	3473	3375
204	US 75	1.3 MI N OF CO C60 HINTON	9565	9934	9960	10003	11049	11440	11718	12095	12296	12264	12302
205	US 218	2.7 MI S OF IA 78 SWEDESBURG	7290	8018	8144	8930	9346	9671	10174	10375	10831	11292	11063
206	US 30	AT BOONE/STORY CO LINE NAPIER	9748	10479	10431	10920	11746	12011	12366	12760	12793	12929	13039
207	US 18	2.2 MI E OF US 169 ALGONA	3177	3186	3158	3220	3363	3353	3381	3332	3306	3449	3226
208	US 6	3.0 MI E OF CO V66 MARENGO	3439	3511	3386	3404	3511	3437	3466	3344	3256	3157	3113
209	US 67	1.5 MI S OF CO F45 PRINCETON	4532	4690	4575	4436	4380	4305	4433	4471	4424	4372	4181
210	US 18	4.2 MI E OF IA 60 SHELDON	3777	3800	3702	3736	3771	3776	3939	4066	4061	4066	4053
211	US 20	2.8 MI E OF CO N57 ROCKWELL CITY	2951	2888	2845	2862	2929	2984	3152	3099	3138	3111	3087
212	IA 92	0.6 MI W OF CO V45 SIGOURNEY	3053	2954	2832	2849	2868	2821	2792	2753	2731	2684	2554
213	US 30	1.8 MI E OF US 65 COLO	5303	5666	5753	5765	5988	5431	5332	5074	5105	5058	4908
214	US 61	3.8 MI N OF US 34 BURLINGTON	7574	7532	7275	7101	7234	7200	7183	7097	7050	6985	6953
216	US 34/169	2.5 MI E OF W JCT US 169 AFTON	3520	3491	3647	3651	3690	3913	3835	3654	3696	3671	3537
217	US 18	2.5 MI E OF I 35 CLEAR LAKE	15833	15625	13978	14089	14615	14916	14876	15140	14373	14364	14173
218	IA 44	0.2 MI W OF US 169 ADEL	3239	3382	3478	3466	3528	3645	3707	3646	3645	3444	3396
219	US 34	1.0 MI W OF I 35 OSCEOLA	4527	4612	4675	4618	4650	4742	4762	4724	4724	4702	4575
220	US 52	1.0 MI NW OF US 18 POSTVILLE	1744	1762	1656	1698	1793	1746	1746	1757	1715	1658	1578
221	IA 9	2.5 MI W OF CO N52 ARMSTRONG	1829	1788	1780	1750	1760	1748	1768	1703	1678	1690	1592
222	IA 3	0.1 MI W OF CO P66 HUMBOLDT	2578	2569	2483	2443	2323	2235	2183	1989	1956	1919	1844
223	IA 48	4.0 MI S OF IA 92 GRISWOLD	1427	1402	1366	1306	1309	1297	1209	1238	1248	1221	1171
224	US 59	0.5 MI S OF CO F16 DEFIANCE	2664	2676	2552	2572	2577	2557	2635	2644	2613	2561	2507
226	US 18	3.8 MI E OF CO W14 WEST UNION	2479	2525	2539	2380	2385	2431	2358	2292	2357	2339	2197
228	IA 117	2.5 MI S OF US 65 MINGO	915	987	958	965	1189	946	948	967	993	986	979
229	IA 78	1.2 MI W OF CO X23 WINFIELD	885	879	813	829	798	775	733	757	785	742	738
230	US 169	3.5 MI S OF S JCT IA 92 WINTERSET	1919	1985	2032	1858	1770	1837	1795	1701	1726	1610	1588
231	IA 148	9.3 MI N OF IA 92 ANITA	758	780	812	769	761	756	776	756	782	761	755
233	IA 110	1.5 MI S OF CO C65 SCHALLER	1378	1321	1284	1299	1299	1301	1337	1318	1260	1294	1298
234	IA 12	2.5 MI N OF CO K18 AKRON	1577	1596	1637	1589	1555	1548	1469	1465	1435	1415	1304
235	IA 143	3.4 MI S OF IA 10 MARCUS	880	866	821	831	825	800	795	826	825	802	765
236	IA 196	3.0 MI S OF US 20 SAC CITY	1117	1139	1079	1106	1109	1082	1094	1037	1060	1082	1088
238	IA 149	2.1 MI N OF IA 78 MARTINSBURG	998	1013	1014	1096	1153	1175	1216	1158	1153	1132	1071
240	IA 2	3.0 MI E OF US 275 SIDNEY	1935	1969	1840	1841	1882	1887	1936	1857	1879	1949	1914
241	IA 13	5.0 MI S OF US 20 RYAN	4793	5051	5058	5118	5048	4979	4694	4408	4460	4280	4034
242	US 61	3.8 MI N OF CO F41 ELDRIDGE	13960	14614	14483	15108	15911	16104	16459	16082	16108	16214	15940
243	US 30	0.3 MI E OF CO Z24 DEWITT	8528	8387	8477	8723	9222	9295	9413	9488	9124	9448	9408
244	IA 1	0.8 MI S OF CO F67 KALONA	5932	6293	5798	5804	5948	5950	5969	5956	5858	5624	5765
245	US 20	1.5 MI E OF CO V62 JESUP	8686	9105	9115	9185	9538	10032	10392	10194	10345	10571	10532
246	IA 141	1.0 MI E OF WILLIS AVE PERRY	9473	9701	9598	9630	9805	9785	9940	9806	9676	9448	9315
247	US 20	3.0 MI E OF E JCT IA 17 WEBSTER CITY	6415	6537	6560	6685	6848	6995	7827	7958	7888	7945	7858
248	IA 21	2.8 MI N OF US 6 BELLE PLAINE		1303	1248	1260	1297	1283	1318	1270	1246	1193	1120
249	US 218	0.5 MI S OF HILLS INTERCHANGE HILLS				15447	16116	16404	16852	16973	18313	19527	18686
250	US 65	1.5 MI N OF IA 163 PLEASANT HILL		15690	16724	18451	20559	22221	23923	25288	25274	24416	23942
252	US 18/63	0.5 MI S OF CO B54 NEW HAMPTON								4803	4780	4831	4797
253	US 218	3.5 MI S OF CO T64 CHARLES CITY								8316	8436	8649	8542
255	US 20	1.0 MI E OF US 65 IOWA FALLS								7531	7926	8057	8148
256	US 18	3.3 MI E OF I 35 MASON CITY								7066	7290	7507	7342
257	US 20	3.6 MI W OF W JCT US 59 HOLSTEIN										2781	2881
258	US 30	0.6 MI E OF CO V66 BLAIRSTOWN										6424	5940
259	US 30	3.5 MI E OF IA 1 LISBON											5427
260	US 71	0.6 MI S OF CO J64 BRADYVILLE										2182	2240
261	US 169	2.3 MI N OF CO D14 FORT DODGE										5783	5360
262	US 63	1.6 MI S OF IA 2 BLOOMFIELD										2247	2217
263	US 52	0.3 MI E OF CO X47 GARNAVILLO										2395	2225
264	IA 27	3.0 MI S OF CO W62 ARGYLE										4532	4764
265	US 61	1.0 MI N OF CO E17 MAQUOKETA										7349	7053
266	IA 2	0.8 MI W OF US 63 WEST GROVE										1560	1546
267	US 34	3.0 MI W OF US 59 EMERSON										4176	4168
268	US 30	4.0 MI SW OF CO M14 DOW CITY										2997	2977
269	US 30	3.6 MI E OF IA 144 GRAND JUNCTION											4137
271	US 18	4.3 MI E OF IA 4 EMMETSBURG											3111
272	US 71	5.2 MI S OF W JCT US 6 ATLANTIC											2112
274	IA 163	2.6 MI NW OF CO RD G28 PELLA											9872

Note: Stations 500 & 501 are used in the calculation of the Rural Primary Factors and the Recreational Factors.

2008 EXPANSION FACTORS

RURAL PRIMARY

MON - THU		MON	TUE	WED	THU	FRI	SAT	SUN
1.124	JAN	1.131	1.159	1.088	1.123	0.974	1.204	1.510
1.174	FEB	1.292	1.190	1.165	1.075	0.913	1.121	1.729
1.031	MAR	1.081	1.023	1.019	0.994	0.898	1.112	1.319
0.991	APR	1.003	1.003	0.977	0.984	0.869	1.091	1.259
0.954	MAY	0.967	0.975	0.950	0.925	0.823	1.001	1.119
0.936	JUN	0.941	0.951	0.936	0.916	0.814	1.010	1.138
0.921	JUL	0.948	0.938	0.918	0.896	0.803	1.003	1.087
0.913	AUG	0.939	0.930	0.907	0.880	0.788	0.968	1.063
0.958	SEP	0.984	0.970	0.952	0.920	0.806	1.015	1.142
0.973	OCT	0.996	0.993	0.977	0.938	0.822	1.003	1.162
1.002	NOV	1.004	1.041	0.998	0.971	0.859	1.076	1.277
1.105	DEC	1.104	1.262	1.060	1.025	0.986	1.200	1.652

ANNUAL AVERAGE DAILY TRAFFIC BY STATIONS FOR THE YEARS 1998 TO 2008

MUNICIPAL PRIMARY

STATION	ROUTE	LOCATION	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008
** 802	US 71	W OF MEMPHIS AVE SPIRIT LAKE	13090	13207	12667	12948	12038	11884	12408	12408	12102	11721	11530
803	IA 12	ON VIADUCT E OF COURT ST SIOUX CITY	28682	27834	26772	27293	26866	26579	25631	25518	23924	23112	22228
804	IA 4	N OF 4TH AVE NW POCAHONTAS	3480	3213	3059	3049	3019	2962	3012	3052	3082	3012	2950
805	IA 148	S OF 11TH ST CORNING	3389	3351	3256	3208	3325	3230	3223	3098	3202	3046	2852
806	US 6	E OF SHASTA WINDSOR HEIGHTS	22960	22551	22199	21766	21952	21382	22129	22989	21425	19954	19072
808	US 71	S OF BIRCH ST AUDUBON	6305	6862	5177	4592	4811	4757	4992	4858	4750	4701	4655
809	IA 14	N OF WOODLAND ST MARSHALLTOWN	6771	6736	6729	6401	6636	6604	6540	6484	6268	6304	6164
810	IA 92	W OF N ST INDIANOLA	10830	11109	10513	11077	11793	11634	11725	11582	11203	10858	10837
811	IA 192	S OF AVE N COUNCIL BLUFFS	10431	10419	10474	10792	10061	9665	9442	9474	9047	8858	9139
812	IA 122	W OF VIRGINIA AVE MASON CITY	15697	15650	12925	13941	13489	13326	13052	12706	12014	12035	11825
813	US 6	E OF PINE ST DAVENPORT	20998	21129	20440	20584	19789	19891	21888	22078	21648	22022	21686
815	IA 922	BTWN WILEY BLVD & WESTDALE CDR RPDS	8136	8107	8044	8249	8560	8783	9027	9006	9474	9565	9551
816	US 34	W OF US 61 WEST BURLINGTON	13117	13716	13015	13036	13162	13096	13085	12814	13878	13666	13097
819	IA 9	EAST OF 14TH ST OSAGE	6900	7047	6750	6024	5857	5627	5546	5536	5391	5374	5264
820	IA 17	N OF NW 11TH ST EAGLE GROVE	3591	3609	3443	3151	2970	2934	2902	2997	2867	2818	2739
821	IA 4	S OF EDGEWOOD AVE E JEFFERSON	4796	4790	4548	4405	4285	4206	4343	4211	4166	4102	4074
823	US 6	BETWEEN SYCAMORE & 1ST AVE IOWA CITY	21554	21880	20968	21027	21564	21677	21858	21726	21526	21187	20946
824	US 69	BETWEEN 15TH AND 16TH ST AMES	19802	19468	19214	19331	19624	19394	19737	20080	19804	19440	17551
826	US 65	1.5 MI NE OF I-80 BONDURANT	10509	10708	10710	10863	11068	11293	11824	12737	12397	12052	11761
827	US 61/151	W OF MISSISSIPPI R DUBUQUE	17629	18001	18133	18270	18716	19036	19188	19238	19396	20588	20031
828	IA 150	S OF 12TH ST OELWEIN		6928	6840	6652	6600	6470	6555	6505	6654	6298	6295
829	US 59	S OF 5TH AVE SHENANDOAH			10383	9688	9842	9697	9964	10054	10053	9698	9121
830	IA 23	S OF IA 92 OSKALOOSA					3622	3506	3279	3204	3159	3073	2951

Note: Station 802 is not used in the calculation of the Municipal Primary Factors.
It is used in the calculation of the Recreational Factors.

2008 EXPANSION FACTORS

MUNICIPAL PRIMARY

MON - THU		MON	TUE	WED	THU	FRI	SAT	SUN
1.098	JAN	1.102	1.126	1.069	1.103	0.985	1.213	1.582
1.124	FEB	1.207	1.140	1.116	1.049	0.924	1.124	1.741
1.021	MAR	1.058	1.012	1.005	1.005	0.923	1.108	1.481
0.969	APR	0.978	0.974	0.953	0.979	0.877	1.061	1.340
0.939	MAY	0.955	0.956	0.929	0.921	0.845	1.010	1.250
0.944	JUN	0.948	0.945	0.945	0.938	0.847	1.034	1.282
0.950	JUL	0.967	0.962	0.943	0.938	0.873	1.069	1.298
0.951	AUG	0.967	0.956	0.948	0.938	0.861	1.051	1.290
0.957	SEP	0.980	0.958	0.948	0.939	0.850	1.056	1.309
0.962	OCT	0.988	0.972	0.958	0.939	0.851	1.042	1.313
0.978	NOV	0.987	0.994	0.972	0.963	0.884	1.088	1.375
1.036	DEC	1.029	1.136	1.010	0.985	0.956	1.115	1.553

ANNUAL AVERAGE DAILY TRAFFIC BY STATIONS FOR THE YEARS 1998 TO 2008

SECONDARY

PAVED

STATION	ROUTE	LOCATION
300	CO P14	2.7 MI N OF CO E33 CHURDAN
301	CO S14	0.8 MI S OF CO E29 NEVADA
302	CO M55	0.2 MI N OF IA 141 MANILLA
303	CO K45	2.25 MI S OF IA 175 ONAWA
304	CO V45	3.5 MI N OF IA 92 SIGOURNEY
306	CO E53	1.75 MI E OF IA 25 SCRANTON
307	CO R38	2.2 MI N OF CO C54 CLARION
308	CO N32	1.6 MI N OF IA 9 ESTHERVILLE
309	CO K52	1.5 MI S OF US 18 HULL
310	CO Y52	1.5 MI S OF US 30 GRAND MOUND
311	CO W12	3.5 MI S OF US 30 WATKINS
312	CO E26	2.7 MI W OF CO RD R38 BOONE
313	CO D42	0.2 MI E OF IA 13 MANCHESTER
314	CO 105	1.3 MI E OF CO S56 NORTHWOOD
315	CO RD	5.5 MI E OF US 63 DRAKESVILLE

1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008
297	302	294	288	292	286	303	296	303	250	237
1005	1043	964	931	1005	985	1001	979	1008	989	975
963	923	943	975	936	875	845	824	830	783	739
1189	1177	1138	1107	1115	1075	1005	1025	1029	1059	1106
630	646	623	572	599	614	643	640	645	634	617
531	572	558	568	625	595	575	579	570	515	520
1315	1316	1230	1257	1308	1309	1341	1292	1361	1293	1255
357	364	369	353	360	360	361	361	370	341	330
748	803	959	972	998	992	999	974	1017	987	1001
588	559	526	518	533	531	529	529	534	504	479
856	795	758	800	861	847	864	835	852	853	804
1295	1438	1386	1364	1405	1383	1406	1336	1370	1327	1213
545	659	675	682	734	746	707	715	719	698	679
781	740	697	675	647	638	667	675	766	771	775
716	743	706	706	721	734	712	722	733	720	656

GRAVEL

STATION	ROUTE	LOCATION
400	CO B30	0.5 MI E OF CO L48 PRIMGHAR
401	LOC RD	1.75 MI N OF CO E36 CLUTIER
402	LOC RD	0.75 MI E OF CO V18 CLUTIER
403	CO H47	5.0 MI SE OF US 34 ALBIA
405	LOC RD	2.5 MI N OF US 18 NEW HAMPTON
406	LOC RD	2.0 MI E OF US 169 LORIMOR
407	CO H23	2.0 MI E OF US 169 LORIMOR

1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008
28	25	22	24	26	27	28	26	29	27	21
28	30	29	36	33	36	52	32	33	35	31
40	42	39	38	38	40	51	42	50	50	41
78	87	75	77	91	103	115	109	111	102	88
54	57	54	43	60	57	56	47	55	55	46
93	86	80	73	68	67	76	71	67	70	57
73	66	69	62	62	73	75	81	77	76	68

Note: Stations 600 & 603 are used in the calculation of the Secondary Factors and the Recreational Factors.

2008 EXPANSION FACTORS SECONDARY

MON - THU		MON	TUE	WED	THU	FRI	SAT	SUN
1.255	JAN	1.240	1.287	1.218	1.273	1.158	1.413	1.716
1.402	FEB	1.670	1.440	1.312	1.251	1.042	1.347	2.142
1.097	MAR	1.164	1.074	1.053	1.084	0.999	1.259	1.517
0.980	APR	0.978	0.986	0.937	1.029	0.930	1.112	1.342
0.872	MAY	0.882	0.869	0.854	0.882	0.812	0.940	1.086
0.883	JUN	0.883	0.879	0.875	0.897	0.824	0.972	1.143
0.901	JUL	0.929	0.909	0.878	0.901	0.809	0.991	1.122
0.923	AUG	0.934	0.921	0.917	0.920	0.838	1.038	1.181
0.928	SEP	0.969	0.922	0.908	0.905	0.830	0.997	1.216
0.914	OCT	0.930	0.914	0.922	0.892	0.815	0.947	1.180
0.946	NOV	0.925	0.969	0.930	0.957	0.925	1.057	1.260
1.211	DEC	1.162	1.429	1.196	1.107	1.112	1.366	1.942

ANNUAL AVERAGE DAILY TRAFFIC BY STATIONS FOR THE YEARS 1998 TO 2008

MUNICIPAL STREETS

STATION	ROUTE	LOCATION
900	LAKE ST	N OF 3RD ST in STORM LAKE
901	2ND AVE N	E OF 15TH ST in FORT DODGE
902	LOCUST ST	E OF SPRING ST in DAVENPORT
903	JEFFERSON	NE OF E 5TH ST in OTTUMWA
904	JOHNSON	W OF JANICE DR in CEDAR RAPIDS
905	N'WESTERN	N OF 20TH ST in AMES
906	DUBUQUE	S OF DAVENPORT ST in IOWA CITY
907	COLLEGE	S OF 23RD ST in CEDAR FALLS
908	LIND'WOOD	S OF 35TH ST in SIOUX CITY
909	HAMILTON	N OF CLIFTON AVE in SIOUX CITY
910	GRANDVIEW	SE OF PLYMOUTH CT in DUBUQUE
911	HUMBOLDT	S OF 4TH ST in BODE
912	ELM ST	N OF LUCAS ST in CRESTON
* * 913	WASHINGTON	E OF HARRISON ST in MOUNT PLEASANT

1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008
3511	3662	3508	3502	3266	3128	3046	2911	2818	2872	2756
7331	7264	7211	7368	6681	6471	6795	6780	6695	6760	6775
22938	23322	22415	22498	23162	22986	22382	22369	21934	21750	21300
7030	6905	6678	6768	6935	6862	6901	6549	6627	6456	6272
10036	9527	9821	10174	9499	10202	10381	10360	10086	9947	10000
2910	2842	2727	2741	2791	2797	2652	2460	2348	2304	2202
14484	15358	15324	15899	16201	15593	15615	15177	15448	15230	14688
9454	9469	9564	9973	9272	9036	8440	7947	7862	7444	NO DATA
1177	1171	1193	1139	1171	1134	1129	1056	1026	1008	969
14979	15700	15280	15448	15596	15335	14789	14529	14547	14314	13854
8982	9020	8973	9090	9218	9272	9402	9094	8836	8779	8596
916	942	886	898	869	794	773	796	796	786	776
4301	4207	4066	4024	4054	4081	4422	4126	3938	3710	3798
15316	16087	14866	14032	13998	13942	13728	12834	11283	10632	10540

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

2008 EXPANSION FACTORS

MUNICIPAL STREETS

MON - THU		MON	TUE	WED	THU	FRI	SAT	SUN
1.050	JAN	1.075	1.069	1.023	1.037	0.966	1.239	1.478
1.062	FEB	1.134	1.068	1.056	1.001	0.910	1.164	1.548
1.003	MAR	1.036	1.001	0.988	0.981	0.930	1.155	1.393
0.928	APR	0.933	0.933	0.904	0.951	0.874	1.061	1.235
0.906	MAY	0.919	0.922	0.906	0.879	0.826	1.007	1.170
0.916	JUN	0.934	0.912	0.909	0.909	0.857	1.051	1.234
0.945	JUL	0.964	0.938	0.940	0.942	0.894	1.086	1.274
0.950	AUG	0.960	0.955	0.948	0.937	0.871	1.078	1.257
0.957	SEP	0.982	0.957	0.947	0.935	0.874	1.091	1.263
0.954	OCT	0.988	0.964	0.950	0.928	0.861	1.074	1.284
0.950	NOV	0.963	0.966	0.941	0.934	0.889	1.122	1.309
1.027	DEC	1.027	1.121	0.990	0.984	0.988	1.184	1.556

ANNUAL AVERAGE DAILY TRAFFIC BY STATIONS FOR THE YEARS 1998 TO 2008

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

1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008
7823	7985	8197	8178	8174	8358	8497	8263	8343	8346	7877
3434	3557	3292	3328	3437	3492	3650	3644	3765	3745	3692
4207	4540	4531	4344	4544	4926	5541	5789	5870	5162	5293

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.

1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008
250	250	250	260	223	203	210	204	209	226	205
1319	1170	1200	1032	994	937	826	822	777	799	643
329	324	257	256	301	346	348	339	352	339	273

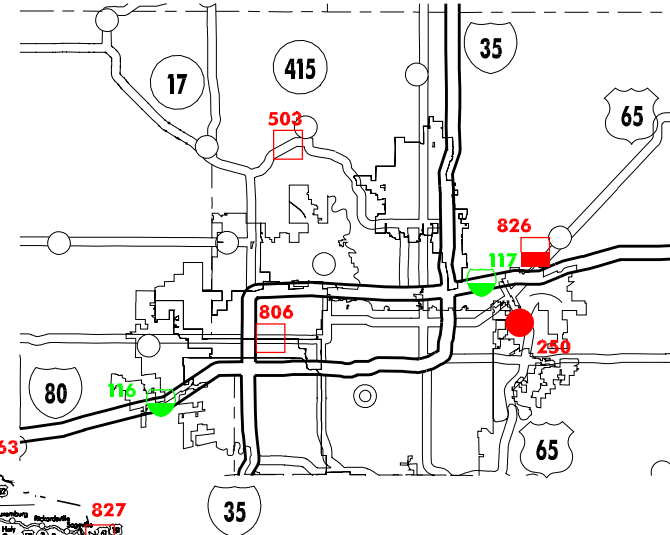
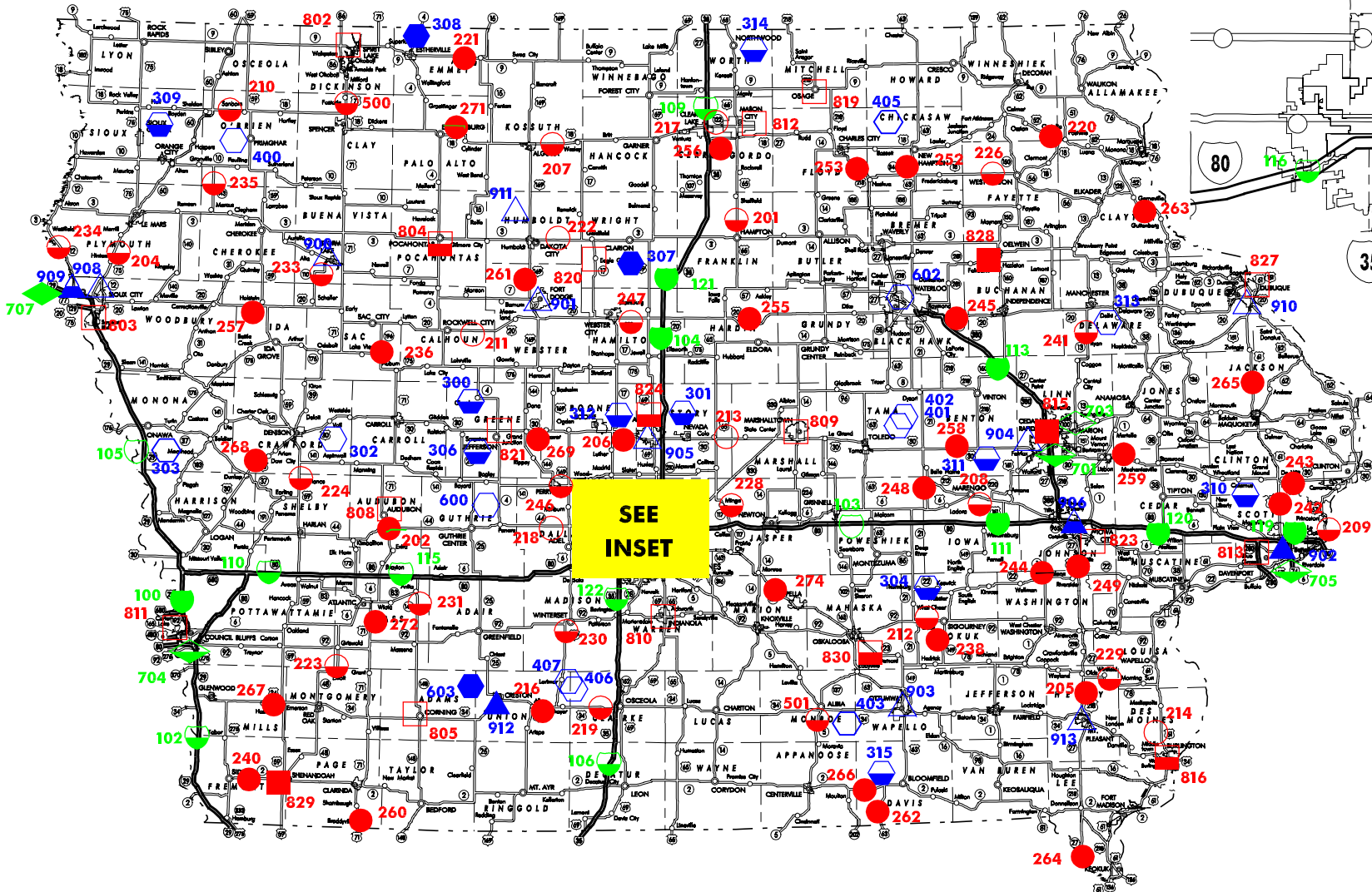
Notes: Stations 500 & 501 are used in the calculation of the Rural Primary Factors and the Recreational Factors.
Stations 600 & 603 are used in the calculation of the Secondary Factors and the Recreational Factors.
Station 802 is used in the calculation of the Recreational Factors.

2008 EXPANSION FACTORS RECREATIONAL

MON - THU		MON	TUE	WED	THU	FRI	SAT	SUN
1.217	JAN	1.232	1.234	1.211	1.196	1.075	1.323	1.712
1.258	FEB	1.402	1.229	1.233	1.192	1.055	1.288	1.948
1.145	MAR	1.211	1.122	1.127	1.114	1.028	1.236	1.656
1.044	APR	1.050	1.042	1.022	1.073	0.979	1.109	1.356
0.952	MAY	0.955	0.973	0.947	0.936	0.853	0.905	1.095
0.899	JUN	0.894	0.918	0.905	0.885	0.768	0.809	0.955
0.871	JUL	0.893	0.889	0.869	0.845	0.756	0.804	0.931
0.925	AUG	0.937	0.944	0.925	0.899	0.774	0.833	0.969
0.961	SEP	0.988	0.973	0.948	0.929	0.826	0.937	1.183
1.045	OCT	1.070	1.059	1.053	1.009	0.917	1.055	1.363
1.093	NOV	1.080	1.141	1.084	1.071	1.021	1.227	1.566
1.150	DEC	1.164	1.270	1.112	1.077	1.074	1.345	1.999

AUTOMATIC TRAFFIC RECORDER LOCATIONS

JANUARY 1, 2009



 Iowa Department
of Transportation

Office of
Transportation Data
Phone 515-239-1526



	13 CLASSES AND SPEED BY AXLE	3 CLASSES AND SPEED BY LENGTH	VOLUME ONLY
RURAL INTERSTATE		7	 8  2
MUNICIPAL INTERSTATE		1	 3  1
RURAL PRIMARY		36	 23  6
MUNICIPAL PRIMARY		3	 5  16
RURAL SECONDARY		3	 10  12
MUNICIPAL STREETS		2	 2  9
TOTAL	149	52	51 46