



AUTOMATIC TRAFFIC RECORDERS 1995 - 2005

Prepared by

OFFICE OF TRANSPORTATION DATA

In Cooperation With

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

PHONE 515-239-1526

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INTRODUCTION

This report contains graphic comparisons of daily and monthly traffic collected on Iowa's highway system at 134 Permanent Continuous Automatic Traffic Recorder locations. Sixteen (16) stations are located on the Rural Interstate system, four (4) are on the Municipal Interstate system, fifty-one (51) are on the Rural Primary system, twenty-five (25) 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 24 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 17.

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 1996 - 2005.

Information from the permanent traffic recorders indicates a 1% decrease in statewide travel from 2004 to 2005. The estimated vehicle miles of travel for 2005 is 31.75 billion. Final 2005 traffic figures will be published near June 2006, when all traffic data collected during 2005 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

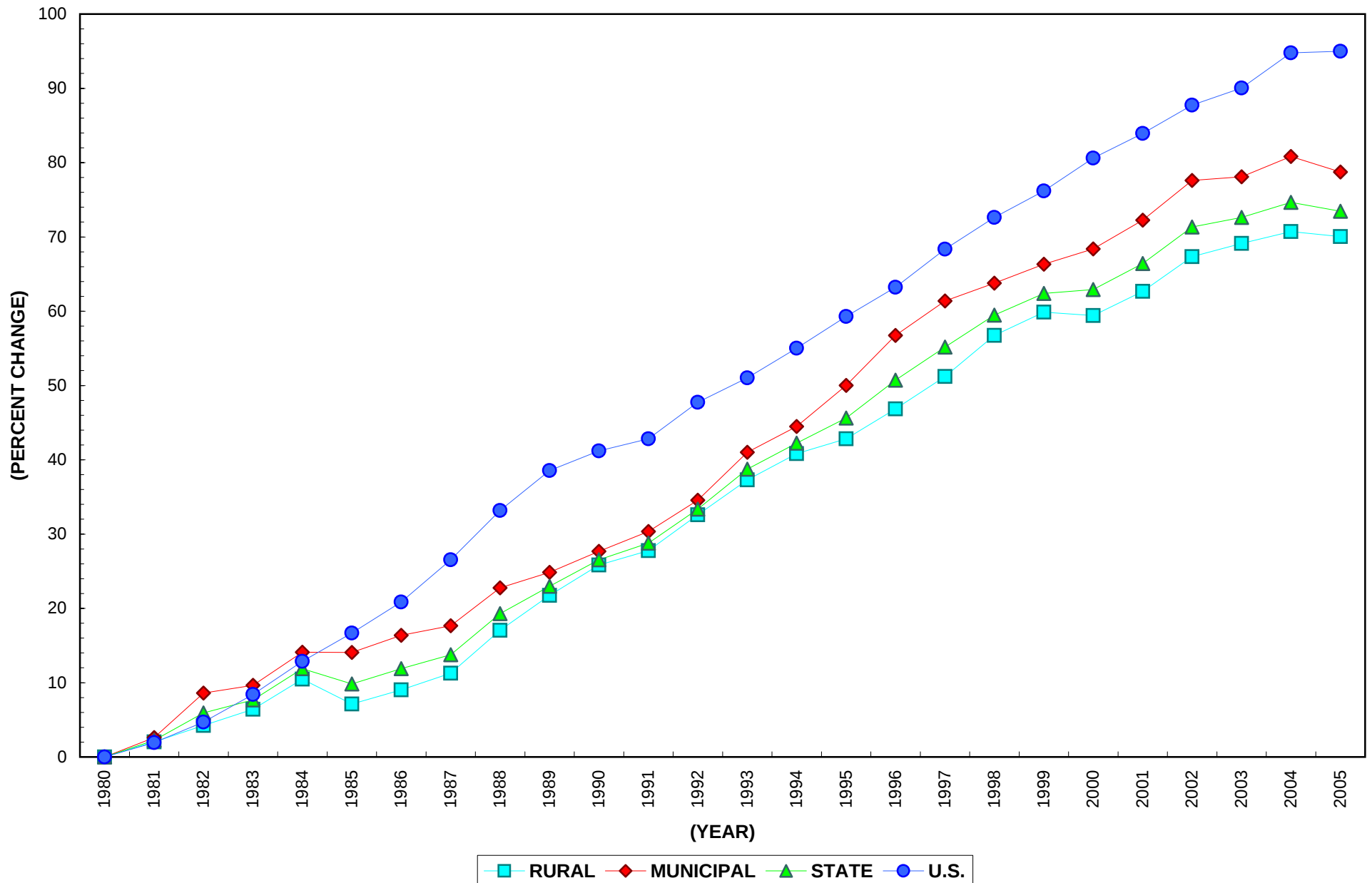
IOWA ROAD SYSTEMS

	2005 COMPARED TO 2004
RURAL INTERSTATE	No Change
RURAL PRIMARY	No Change
RURAL SECONDARY	-2%
RURAL TOTAL	No Change
MUNICIPAL INTERSTATE	+ 1%
MUNICIPAL PRIMARY	No Change
MUNICIPAL STREETS	- 2%
MUNICIPAL TOTAL	-1%
STATE TOTAL	-1%

Data collected at continuous automatic traffic recorder locations (see pages 17 – 23) were utilized to compute the above percentages. The rural, municipal and state totals were weighted based on estimated vehicle miles of travel.

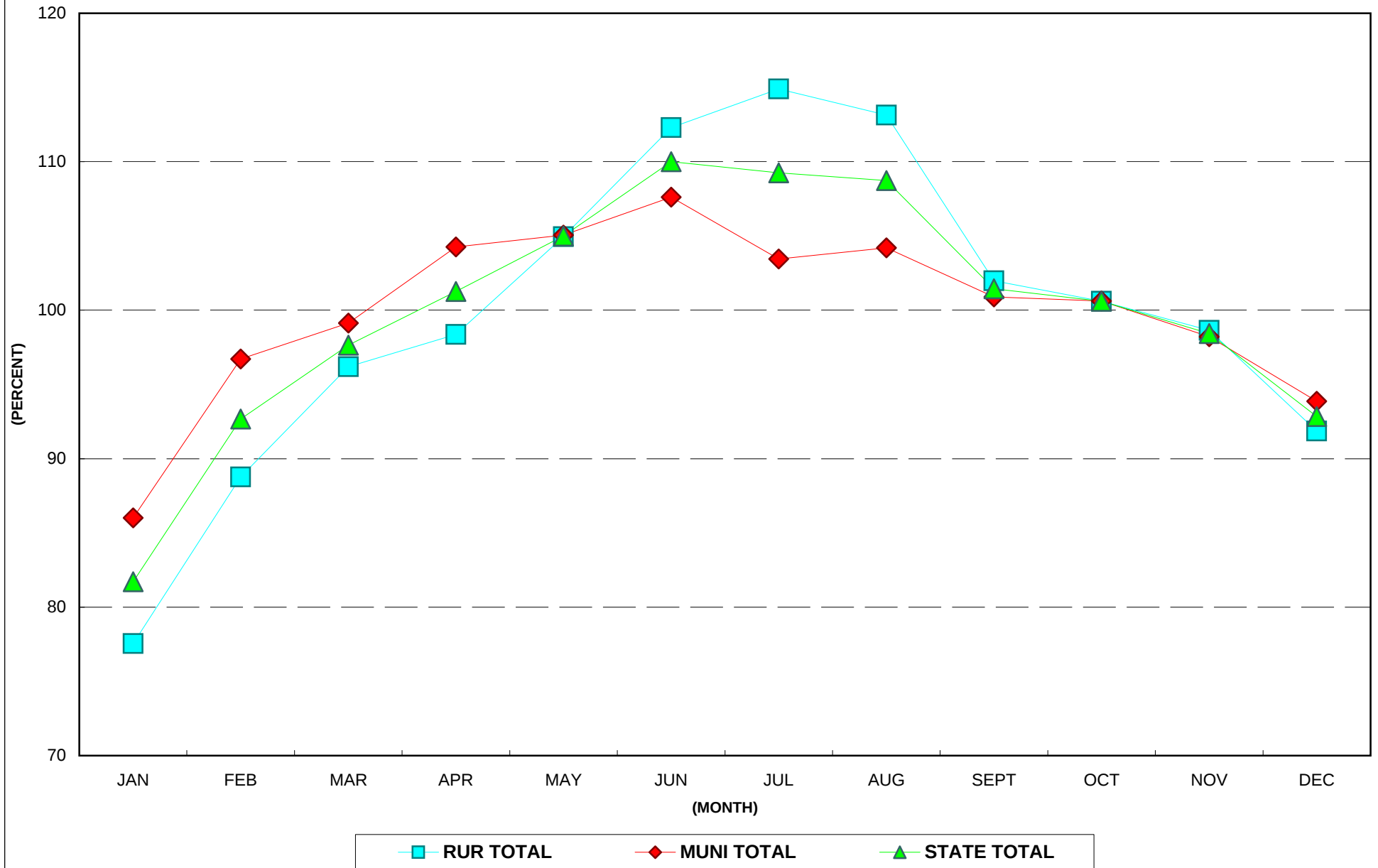
PERCENT CHANGE IN TRAFFIC

BASE YEAR 1980



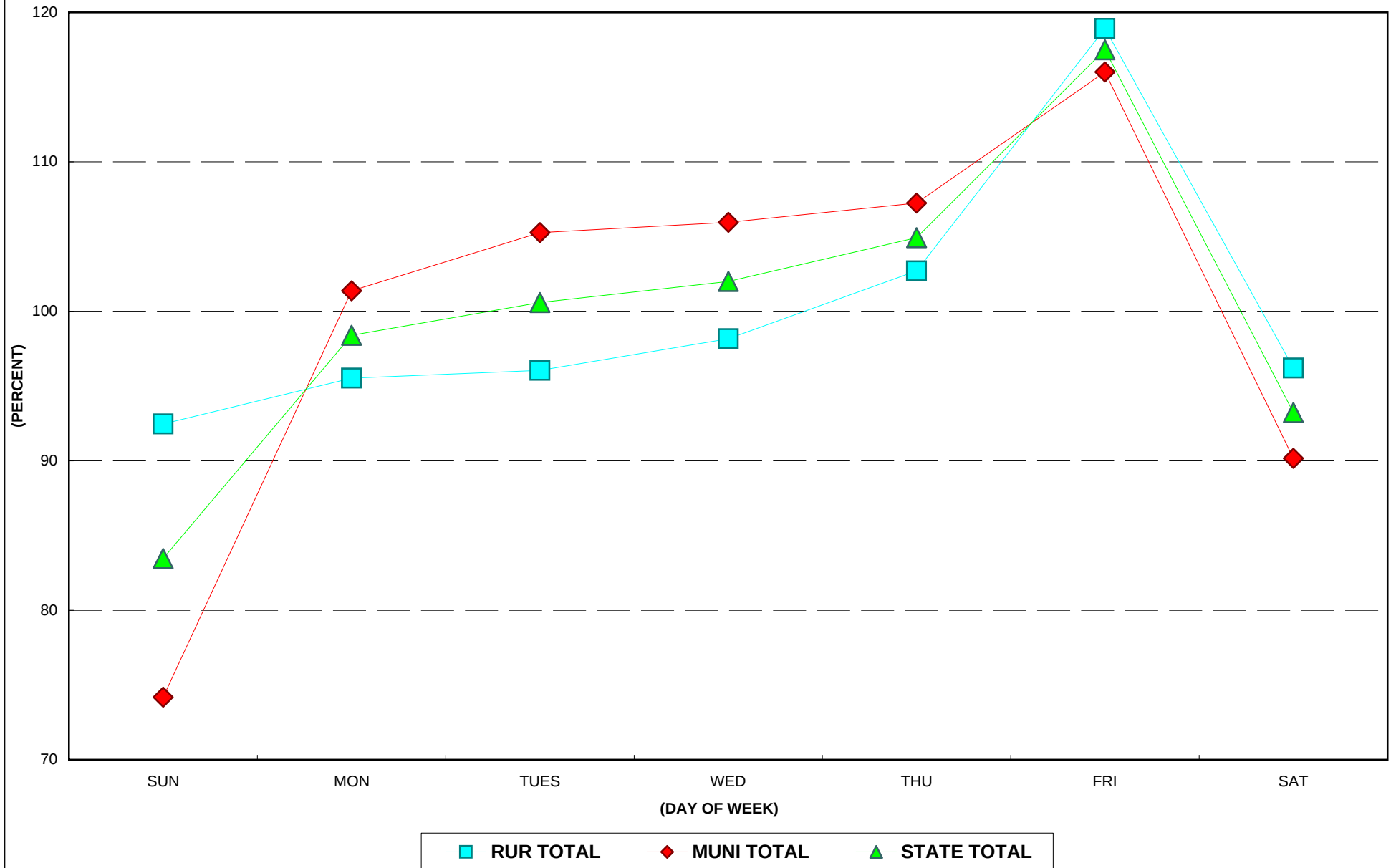
2005 MONTHLY TRAFFIC

AS A % OF ANNUAL AVERAGE DAILY TRAFFIC

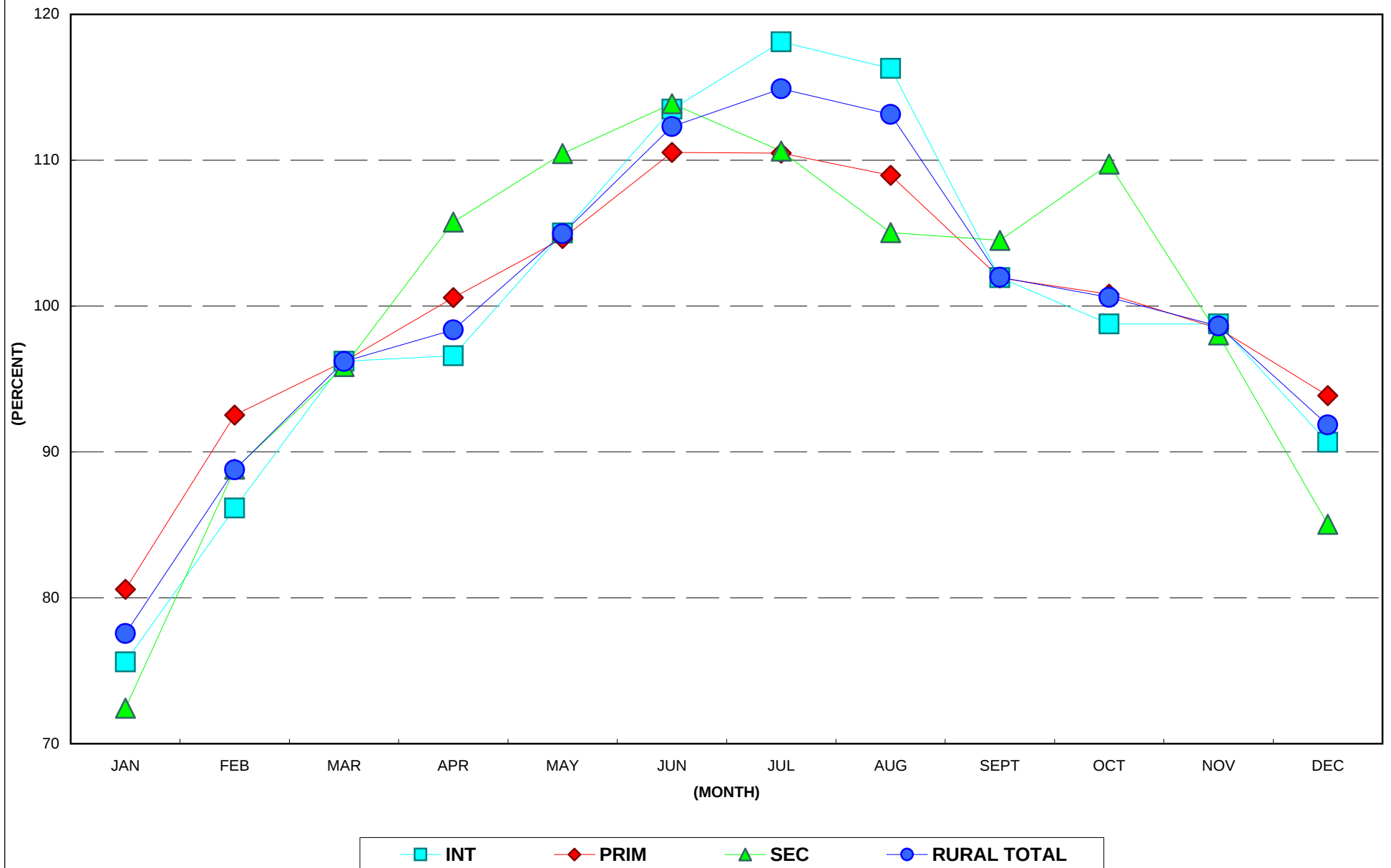


2005 DAY OF WEEK TRAFFIC

AS A % OF ANNUAL AVERAGE DAILY TRAFFIC

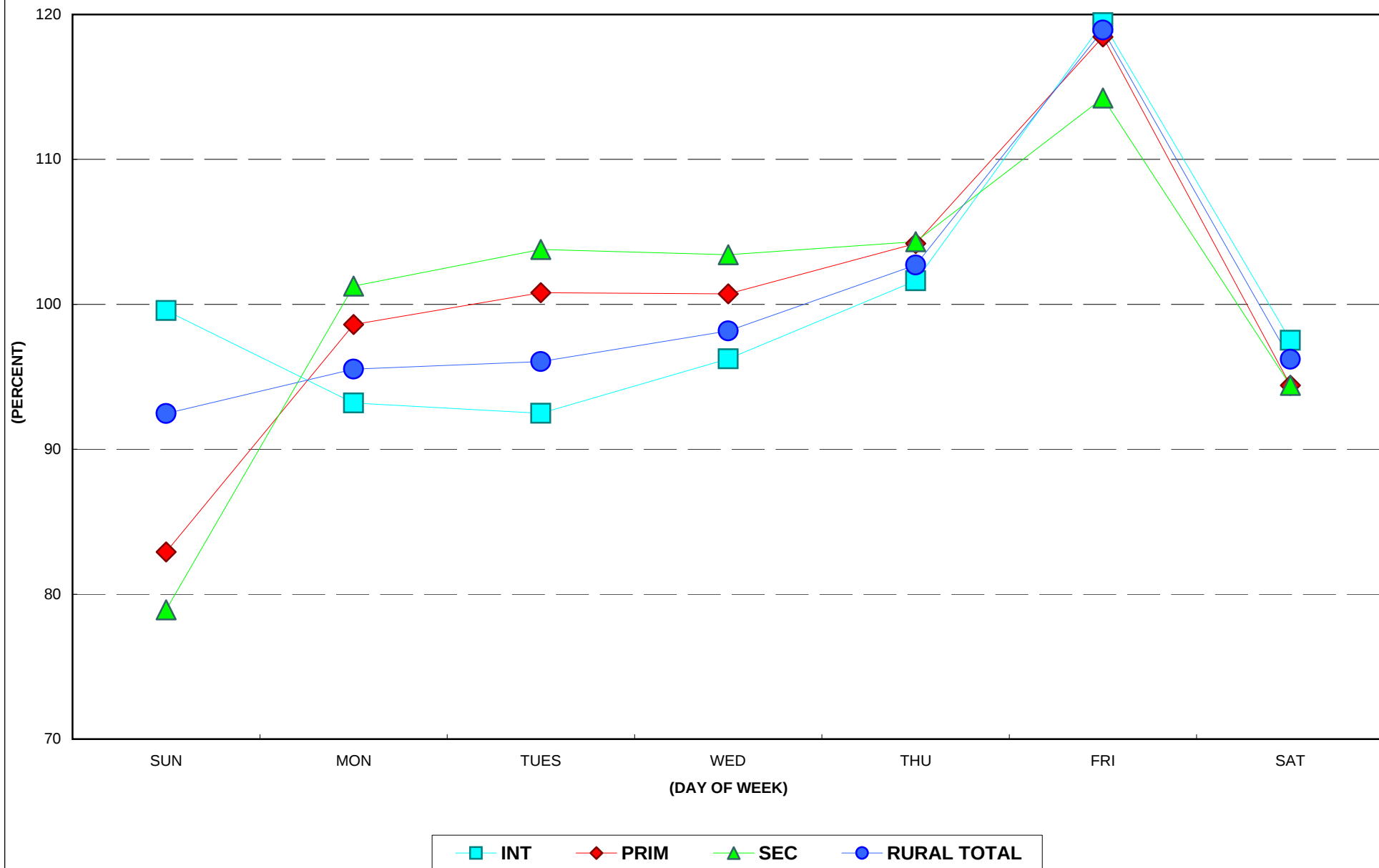


2005 RURAL MONTHLY TRAFFIC AS A % OF ANNUAL AVERAGE DAILY TRAFFIC



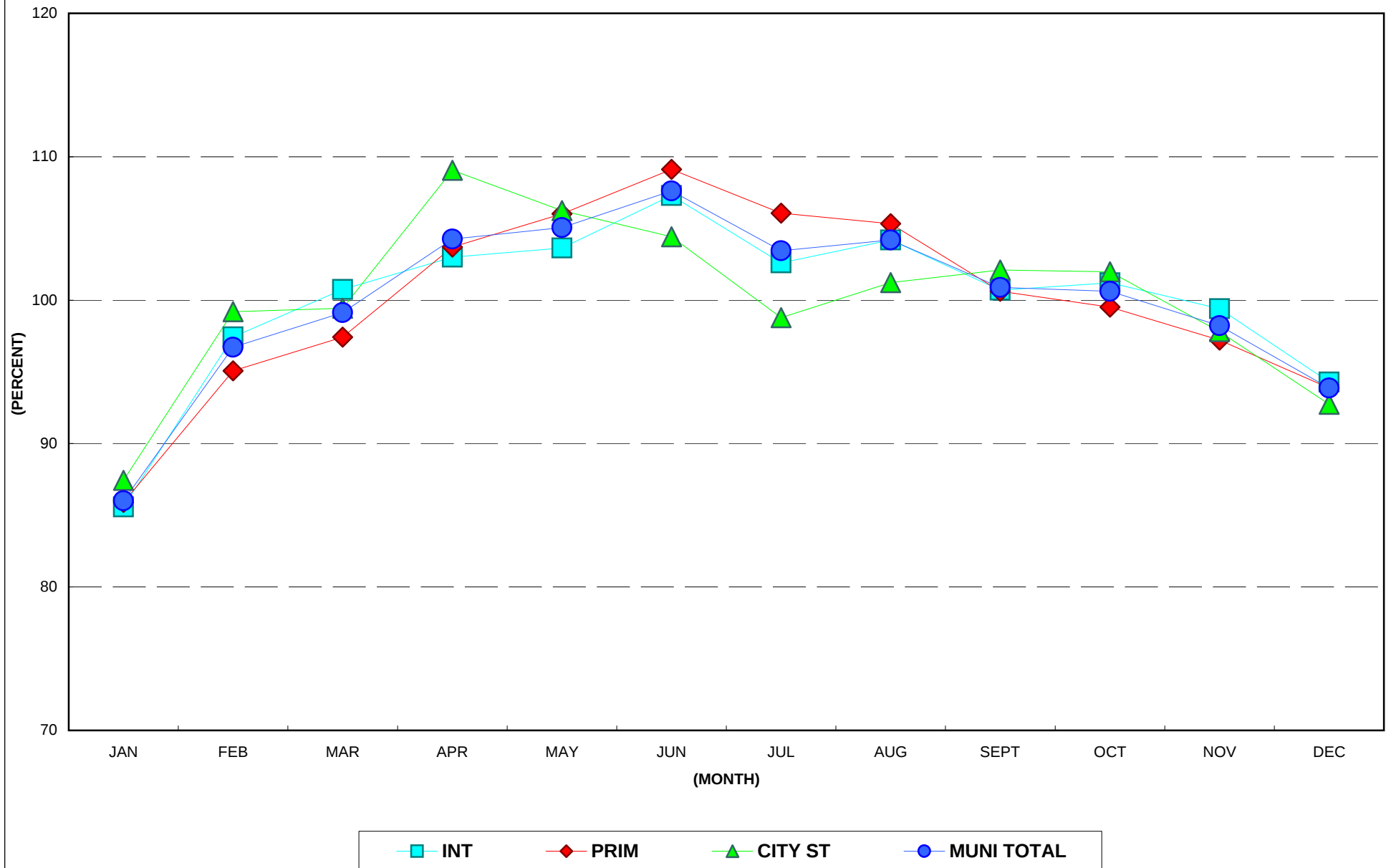
2005 RURAL DAY OF WEEK TRAFFIC

AS A % OF ANNUAL AVERAGE DAILY TRAFFIC



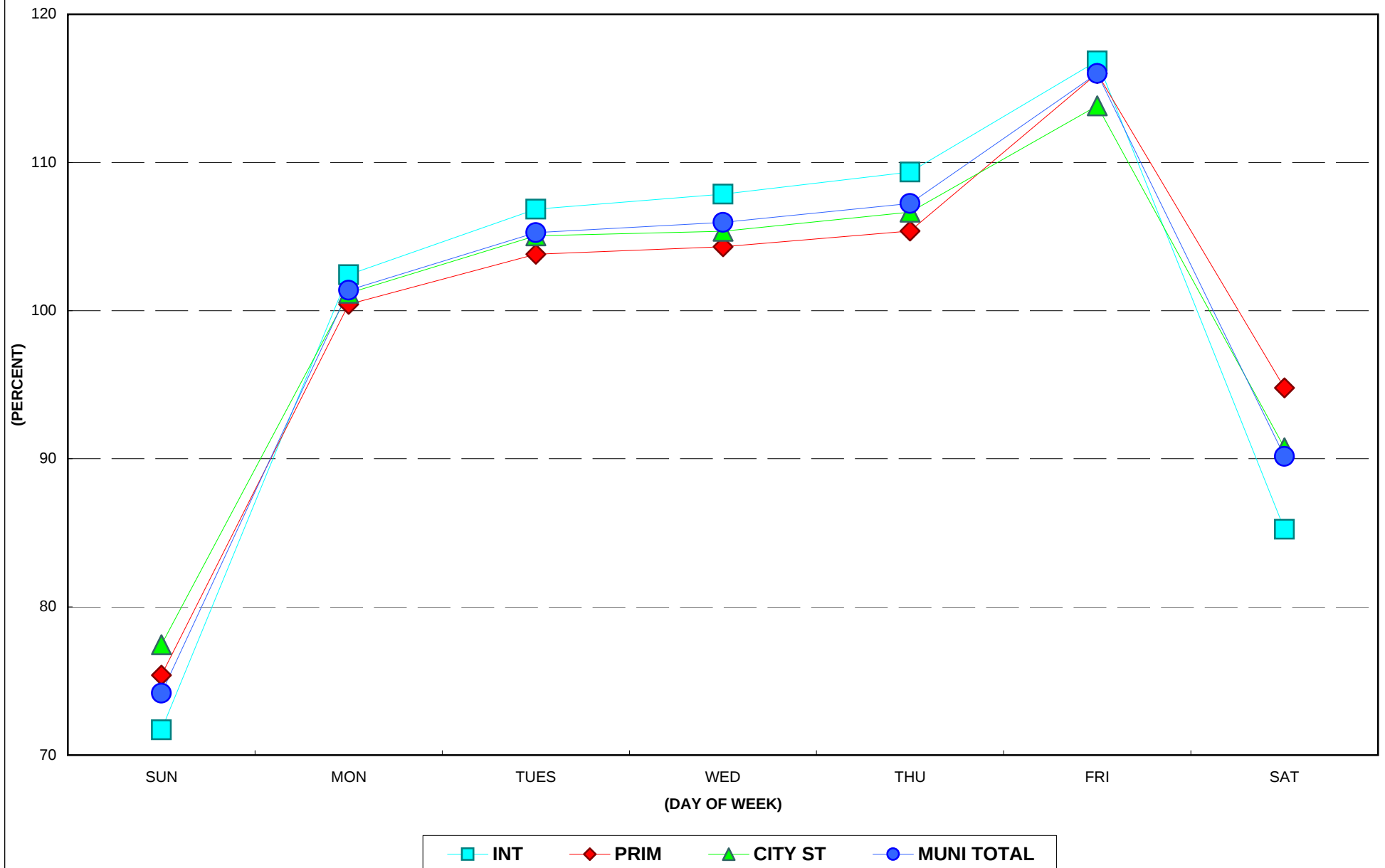
2005 MUNICIPAL MONTHLY TRAFFIC

AS A % OF ANNUAL AVERAGE DAILY TRAFFIC



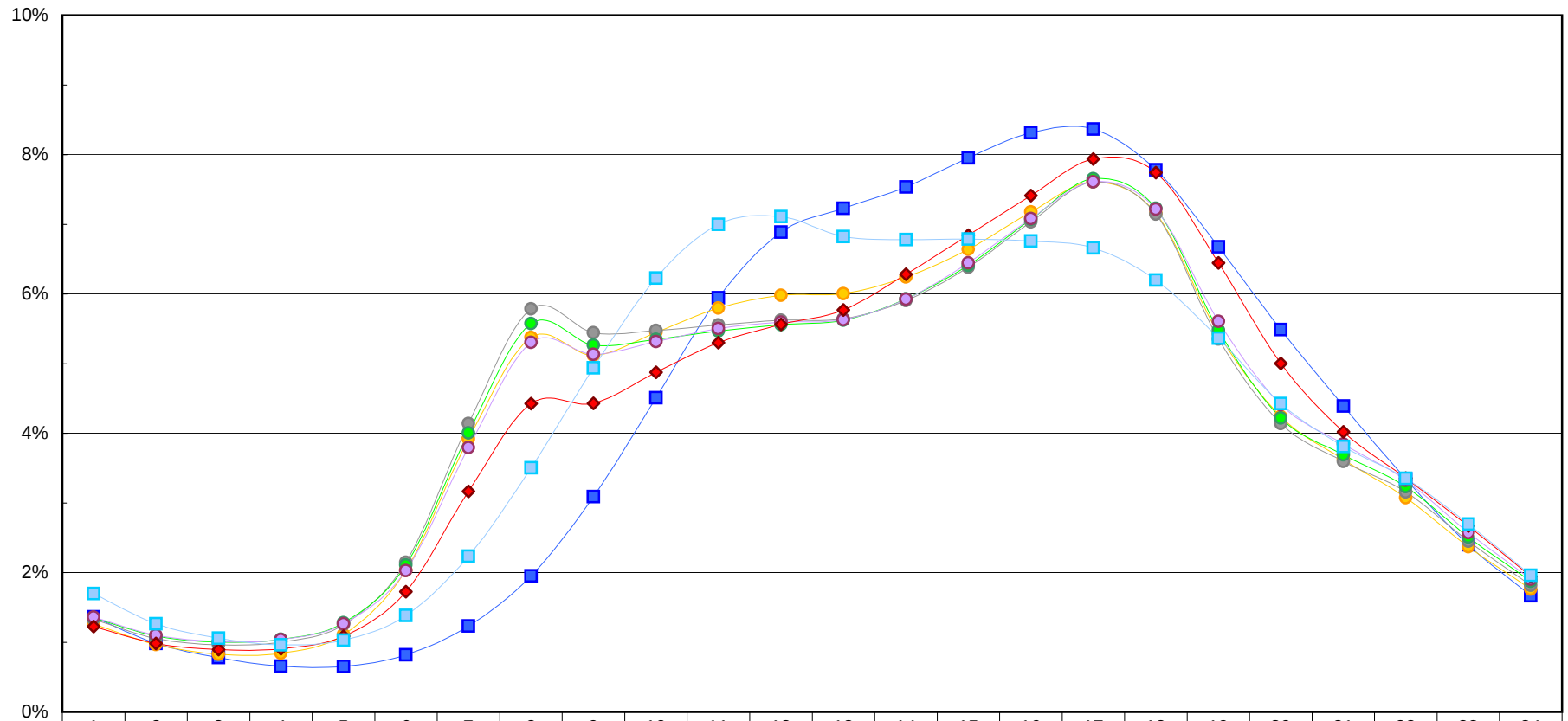
2005 MUNICIPAL DAY OF WEEK TRAFFIC

AS A % OF ANNUAL AVERAGE DAILY TRAFFIC



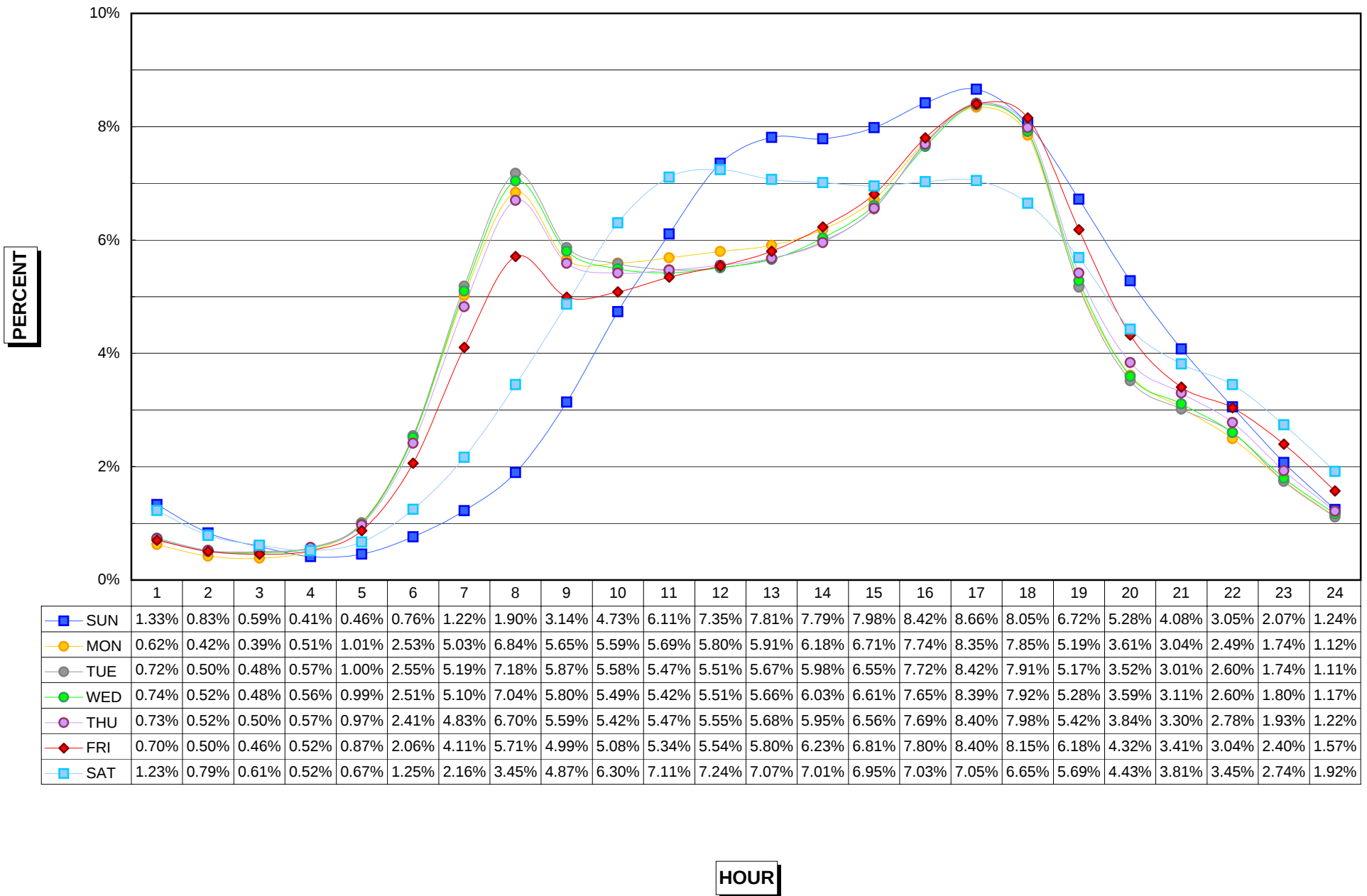
HOURLY DISTRIBUTION OF DAILY TRAFFIC 2005 RURAL INTERSTATE

PERCENT



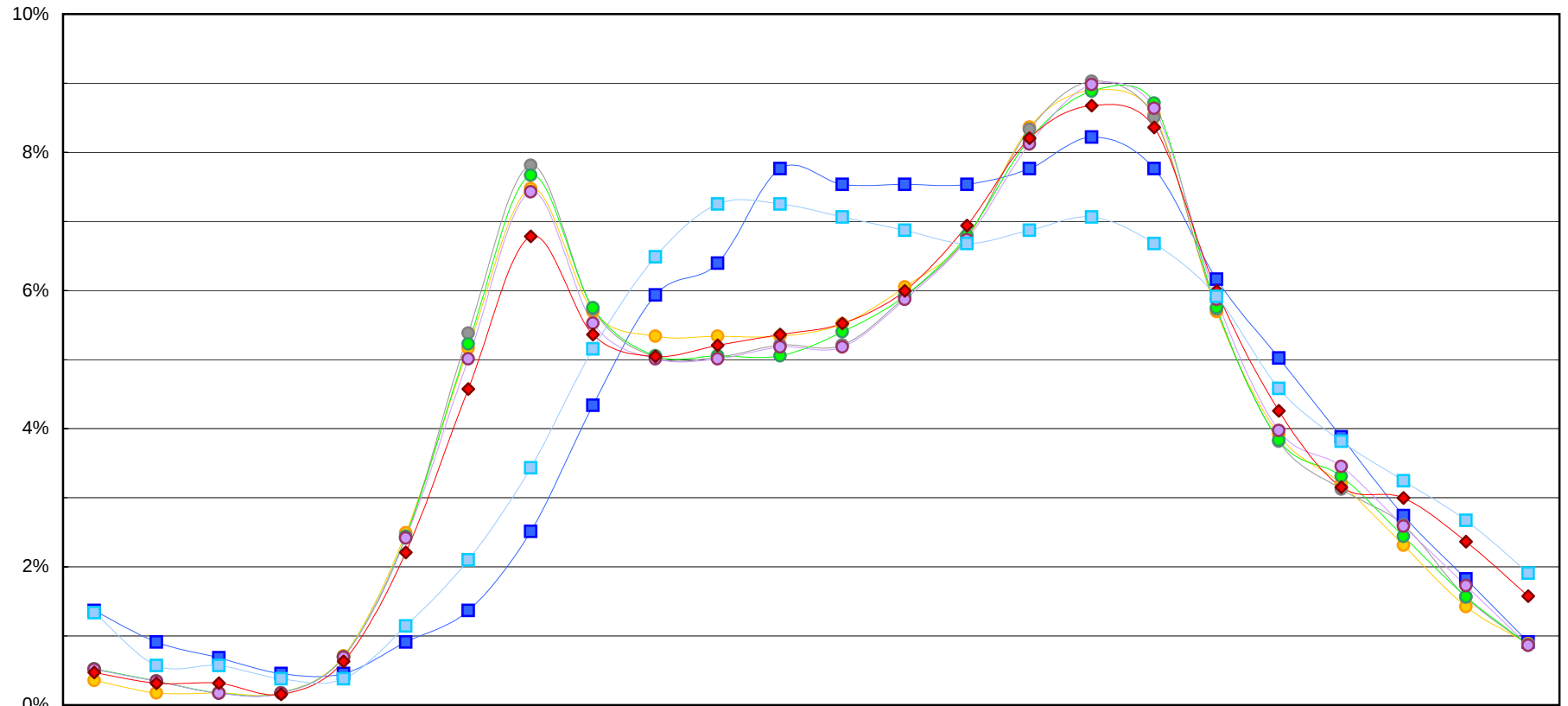
HOURLY

HOURLY DISTRIBUTION OF DAILY TRAFFIC 2005 RURAL PRIMARY



HOURLY DISTRIBUTION OF DAILY TRAFFIC 2005 RURAL SECONDARY

PERCENT

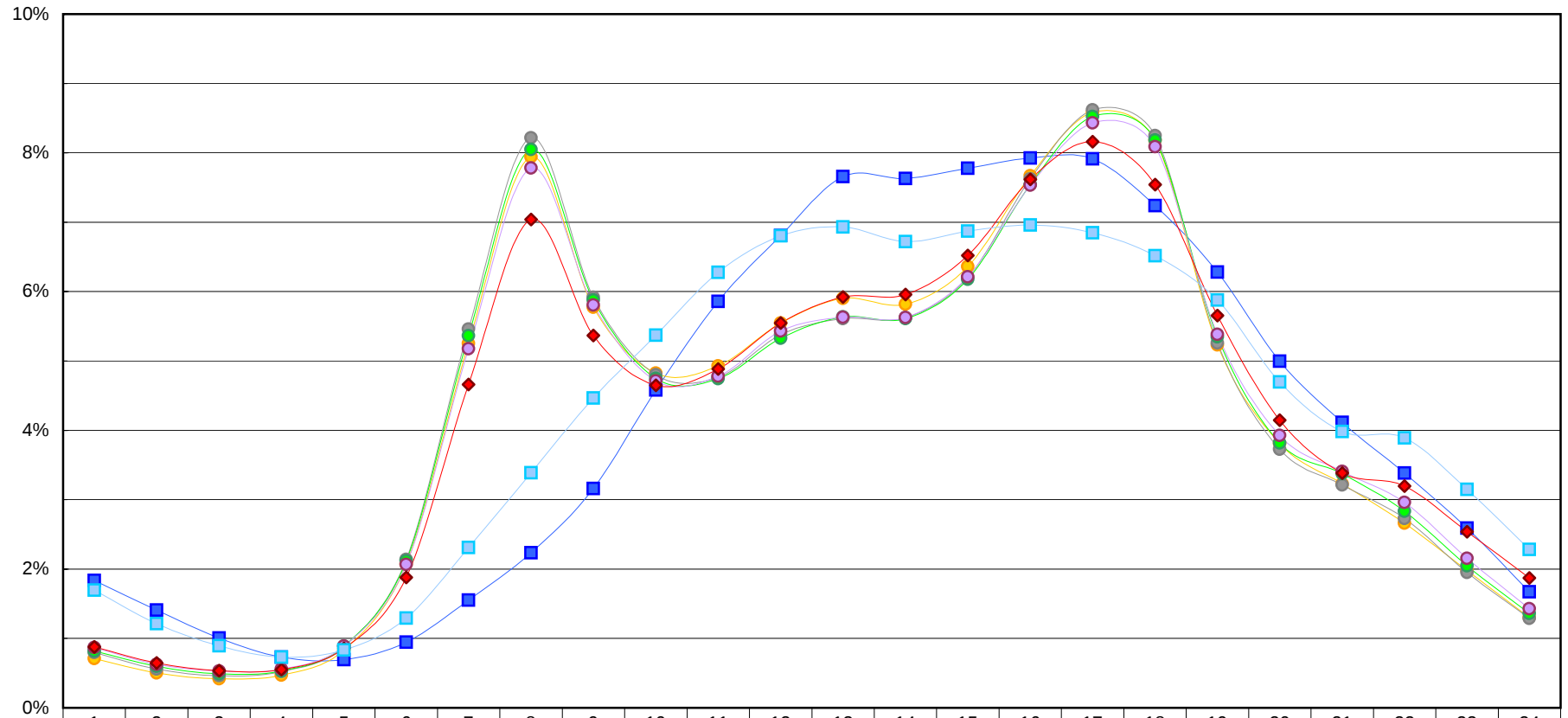


	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24
SUN	1.37%	0.91%	0.68%	0.46%	0.46%	0.91%	1.37%	2.51%	4.34%	5.94%	6.39%	7.76%	7.53%	7.53%	7.53%	7.76%	8.22%	7.76%	6.16%	5.02%	3.88%	2.74%	1.83%	0.91%
MON	0.36%	0.18%	0.18%	0.18%	0.71%	2.49%	5.16%	7.47%	5.69%	5.34%	5.34%	5.34%	5.52%	6.05%	6.76%	8.36%	8.90%	8.54%	5.69%	3.91%	3.20%	2.31%	1.42%	0.89%
TUE	0.52%	0.35%	0.17%	0.17%	0.69%	2.43%	5.38%	7.81%	5.73%	5.03%	5.03%	5.21%	5.21%	5.90%	6.77%	8.33%	9.03%	8.51%	5.73%	3.82%	3.13%	2.60%	1.56%	0.87%
WED	0.52%	0.35%	0.17%	0.17%	0.70%	2.44%	5.23%	7.67%	5.75%	5.05%	5.05%	5.05%	5.40%	5.92%	6.79%	8.19%	8.89%	8.71%	5.75%	3.83%	3.31%	2.44%	1.57%	0.87%
THU	0.52%	0.35%	0.17%	0.17%	0.69%	2.42%	5.01%	7.43%	5.53%	5.01%	5.01%	5.18%	5.18%	5.87%	6.74%	8.12%	8.98%	8.64%	5.87%	3.97%	3.45%	2.59%	1.73%	0.86%
FRI	0.47%	0.32%	0.32%	0.16%	0.63%	2.21%	4.57%	6.78%	5.36%	5.05%	5.21%	5.36%	5.52%	5.99%	6.94%	8.20%	8.68%	8.36%	5.99%	4.26%	3.15%	3.00%	2.37%	1.58%
SAT	1.34%	0.57%	0.57%	0.38%	0.38%	1.15%	2.10%	3.44%	5.15%	6.49%	7.25%	7.25%	7.06%	6.87%	6.68%	6.87%	7.06%	6.68%	5.92%	4.58%	3.82%	3.24%	2.67%	1.91%

HOURLY

HOURLY DISTRIBUTION OF DAILY TRAFFIC 2005 MUNICIPAL INTERSTATE

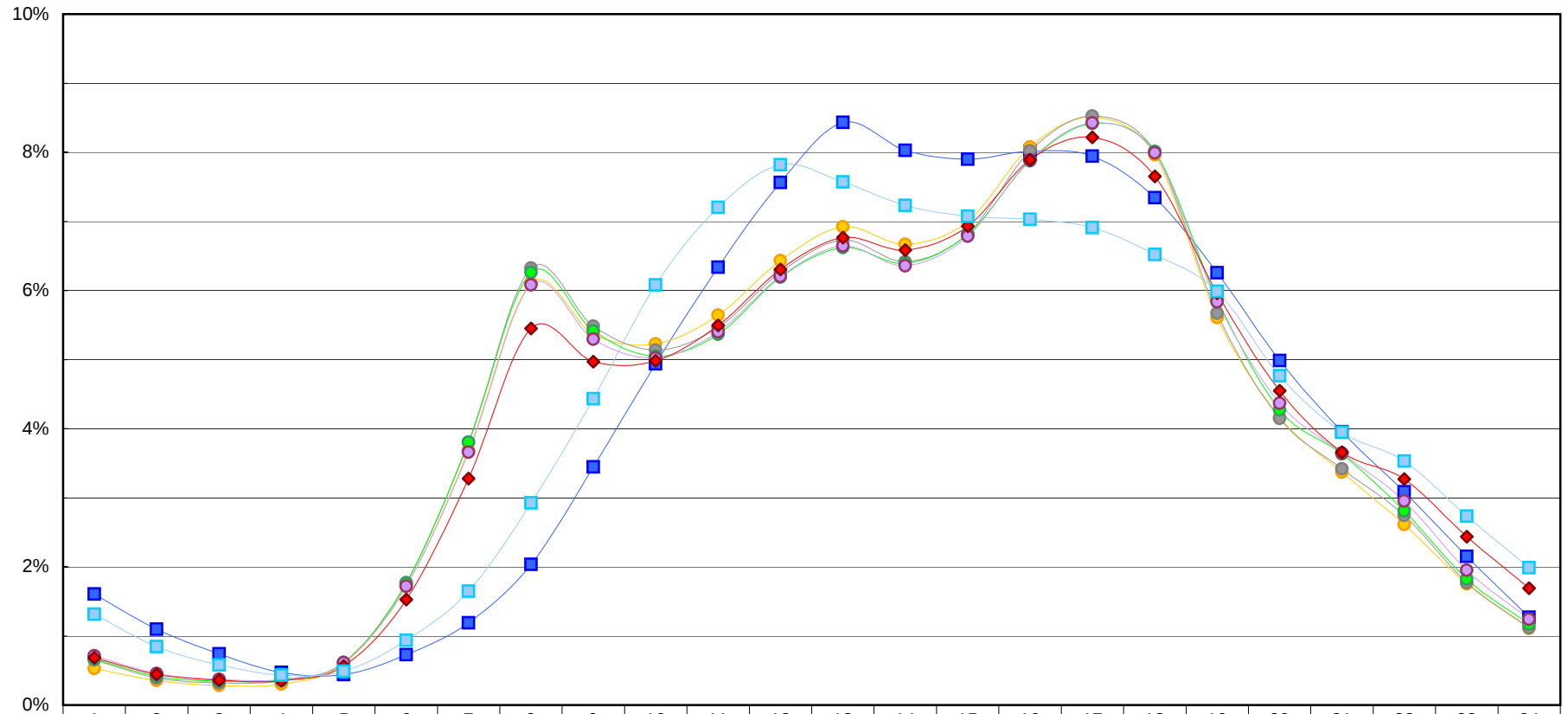
PERCENT



HOUR

HOURLY DISTRIBUTION OF DAILY TRAFFIC 2005 MUNICIPAL PRIMARY

PERCENT

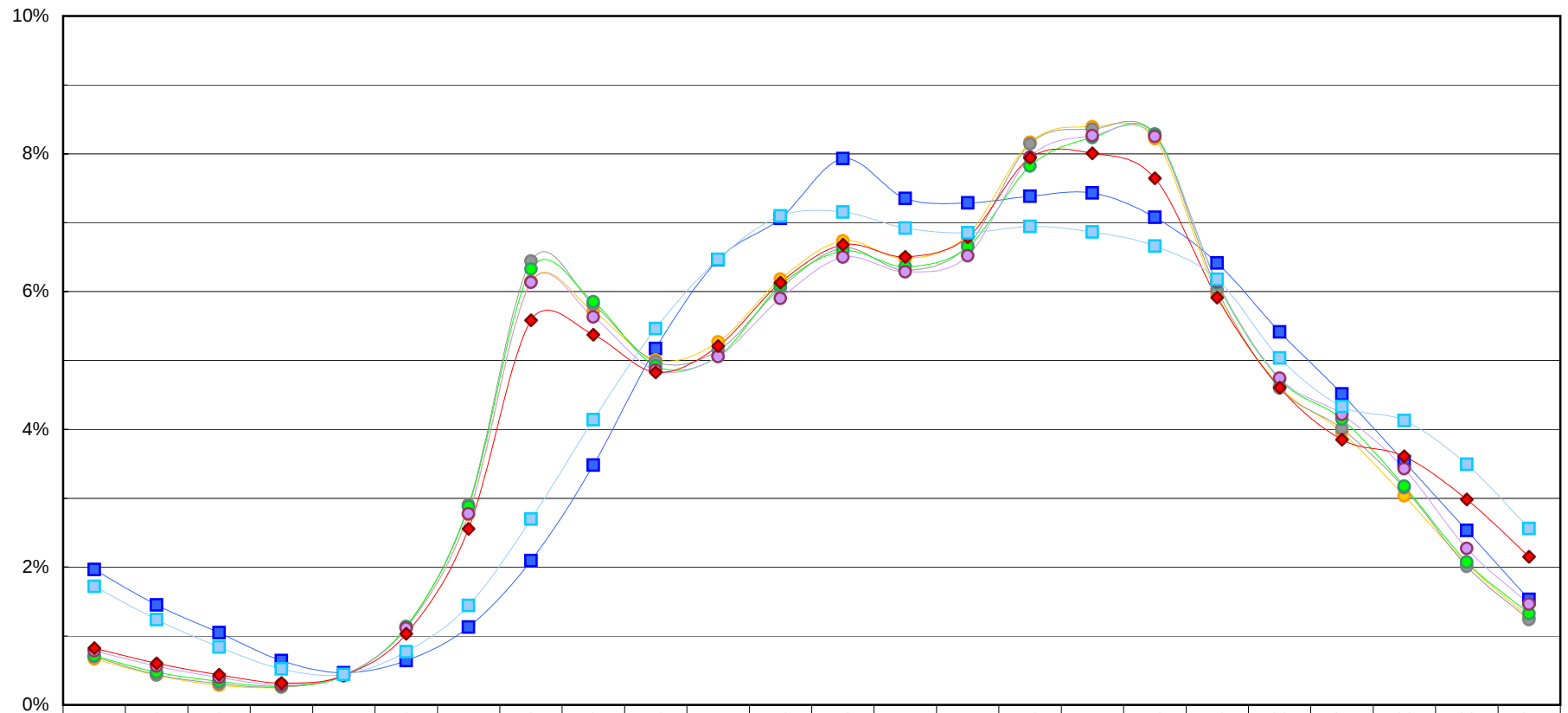


	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24
SUN	1.61%	1.10%	0.74%	0.47%	0.44%	0.73%	1.19%	2.04%	3.45%	4.94%	6.34%	7.56%	8.43%	8.03%	7.90%	8.02%	7.95%	7.34%	6.26%	4.98%	3.96%	3.09%	2.15%	1.27%
MON	0.53%	0.36%	0.29%	0.30%	0.60%	1.72%	3.68%	6.10%	5.37%	5.23%	5.64%	6.43%	6.92%	6.67%	7.00%	8.08%	8.51%	7.96%	5.61%	4.17%	3.37%	2.61%	1.75%	1.11%
TUE	0.66%	0.39%	0.32%	0.35%	0.61%	1.77%	3.80%	6.32%	5.48%	5.14%	5.47%	6.27%	6.73%	6.42%	6.82%	8.02%	8.53%	8.01%	5.67%	4.15%	3.42%	2.75%	1.77%	1.12%
WED	0.67%	0.42%	0.34%	0.37%	0.62%	1.76%	3.80%	6.26%	5.42%	5.05%	5.37%	6.19%	6.62%	6.39%	6.81%	7.87%	8.42%	8.01%	5.88%	4.27%	3.64%	2.81%	1.82%	1.17%
THU	0.71%	0.46%	0.37%	0.37%	0.61%	1.72%	3.66%	6.08%	5.30%	5.02%	5.40%	6.21%	6.64%	6.35%	6.79%	7.89%	8.42%	7.99%	5.83%	4.37%	3.65%	2.95%	1.95%	1.24%
FRI	0.68%	0.44%	0.36%	0.35%	0.56%	1.53%	3.28%	5.45%	4.97%	4.98%	5.49%	6.31%	6.76%	6.58%	6.93%	7.89%	8.21%	7.65%	5.96%	4.55%	3.66%	3.27%	2.44%	1.69%
SAT	1.32%	0.85%	0.58%	0.43%	0.49%	0.94%	1.65%	2.93%	4.43%	6.08%	7.20%	7.82%	7.57%	7.23%	7.07%	7.03%	6.91%	6.52%	5.99%	4.77%	3.95%	3.53%	2.73%	1.99%

HOUR

HOURLY DISTRIBUTION OF DAILY TRAFFIC 2005 MUNICIPAL STREETS

PERCENT



	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	1.97%	1.45%	1.05%	0.64%	0.47%	0.64%	1.13%	2.10%	3.48%	5.17%	6.46%	7.06%	7.93%	7.35%	7.29%	7.38%	7.43%	7.08%	6.42%	5.42%	4.51%	3.53%	2.53%	1.53%
MON	0.67%	0.43%	0.28%	0.26%	0.43%	1.12%	2.76%	6.15%	5.71%	5.01%	5.27%	6.18%	6.74%	6.48%	6.82%	8.17%	8.39%	8.22%	5.96%	4.63%	3.96%	3.04%	2.05%	1.27%
TUE	0.70%	0.44%	0.31%	0.26%	0.43%	1.13%	2.90%	6.44%	5.81%	4.98%	5.15%	6.05%	6.63%	6.31%	6.67%	8.14%	8.36%	8.28%	6.03%	4.60%	4.01%	3.15%	2.01%	1.24%
WED	0.71%	0.47%	0.34%	0.27%	0.43%	1.14%	2.88%	6.33%	5.85%	4.92%	5.06%	6.09%	6.59%	6.36%	6.65%	7.82%	8.24%	8.28%	6.13%	4.73%	4.15%	3.18%	2.07%	1.33%
THU	0.78%	0.56%	0.40%	0.29%	0.43%	1.11%	2.77%	6.13%	5.63%	4.86%	5.06%	5.90%	6.50%	6.29%	6.52%	7.95%	8.27%	8.25%	6.15%	4.74%	4.21%	3.43%	2.27%	1.46%
FRI	0.82%	0.60%	0.44%	0.32%	0.43%	1.03%	2.56%	5.58%	5.37%	4.83%	5.21%	6.13%	6.68%	6.50%	6.79%	7.94%	8.01%	7.65%	5.91%	4.61%	3.85%	3.61%	2.98%	2.15%
SAT	1.72%	1.24%	0.84%	0.52%	0.44%	0.77%	1.44%	2.70%	4.14%	5.46%	6.47%	7.10%	7.15%	6.92%	6.85%	6.95%	6.86%	6.66%	6.18%	5.04%	4.33%	4.13%	3.49%	2.56%

HOUR

SUMMARY OF ANALYSIS

Analysis of the Thirtieth Highest Hour at the Permanent Continuous Automatic Traffic Recorder Stations 1996 - 2005

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, 1996 through 2005.

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	11.48	10.50	383.65	9.63	5.63	11.95	-	-
Municipal	67.66	9.73	286.52	9.75	-	-	62.70	9.83

ANNUAL AVERAGE DAILY TRAFFIC BY STATIONS FOR THE YEARS 1995 TO 2005

RURAL INTERSTATE

STATION	ROUTE	LOCATION	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005
100	I 29	3.0 MI N OF S JCT I 680 HONEY CREEK	19696	19092	19300	19983	20419	20202	20192	21070	20906	21319	20959
102	I 29	4.0 MI S OF US 34 PACIFIC JCT	9596	10232	9708	10487	11247	11221	11402	11917	12010	12101	12151
103	I 80	5.0 MI E OF IA 146 GRINNELL	23077	22751	23892	25114	26366	26178	26249	27346	26917	26726	26325
104	I 35	3.0 MI N OF IA 175 JEWELL	14915	15811	16345	17177	17411	17547	17848	18596	18996	20269	20200
105	I 29	3.8 MI S OF IA 175 ONAWA	10865	10361	10011	10316	11200	11016	11092	11346	12031	12171	12015
106	I 35	1.5 MI N OF IA 2 LEON	10334	10683	11076	11907	12271	12486	12659	13234	13265	13233	12982
109	I 35	3.0 MI N OF CO B20 HANLONTOWN	12752	13550	13664	14534	14965	15221	15880	16575	17046	17556	17373
110	I 80	1.5 MI W OF CO M16 SHELBY	18427	19163	19791	20777	21572	21441	21468	22379	22254	22496	22208
111	I 80	2.0 MI E OF IA 149 WILLIAMSBURG	25004	25570	26002	28844	29838	29808	29952	31092	31021	31258	30939
113	I 380	3.75 MI NW OF IA 150 BRANDON	10132	10462	10914	11465	11854	12029	12224	12934	13422	14156	14308
115	I 80	2.0 MI E OF US 71 ATLANTIC	16001	16593	17001	17722	18365	18339	18377	19018	19013	19324	19282
116	I 80	0.8 MI W OF 74TH ST WAUKEE	26808	28581	28235	31267	31937	34507	32492	34059	33413	33870	33880
117	I 80	1.75 MI E OF E JCT I 35/80/235 ALTOONA		52053	52840	58151	60719	60851	62242	65755	66846	69050	70547
119	I 80	1.5 MI E OF MIDDLE RD LECLAIRE							25685	28206	29720	29201	28264
120	I 80	2.5 MI E OF CO RD X40 TIPTON					29391	29329	30323	31234	31513	32318	32239
121	I 35	2.0 MI N OF CO RD R75 DOWS											13800

2005 EXPANSION FACTORS

RURAL INTERSTATE

MON - THU		MON	TUE	WED	THU	FRI	SAT	SUN
1.313	Jan	1.272	1.295	1.449	1.253	1.089	1.369	1.381
1.190	Feb	1.249	1.236	1.176	1.114	0.940	1.141	1.253
1.068	Mar	1.134	1.120	1.066	1.007	0.866	1.054	1.032
1.080	Apr	1.134	1.115	1.072	1.012	0.866	1.049	1.034
1.020	May	1.065	1.043	1.026	0.951	0.805	0.956	0.962
0.910	Jun	0.939	0.958	0.920	0.848	0.749	0.901	0.851
0.899	Jul	0.929	0.942	0.894	0.840	0.724	0.849	0.831
0.880	Aug	0.884	0.924	0.878	0.841	0.730	0.835	0.820
1.041	Sep	1.074	1.078	1.043	0.992	0.832	1.014	0.981
1.050	Oct	1.095	1.088	1.041	0.976	0.814	1.001	0.976
1.093	Nov	1.125	1.161	1.085	1.015	0.847	1.045	1.072
1.178	Dec	1.214	1.145	1.151	1.207	0.973	1.222	1.268

ANNUAL AVERAGE DAILY TRAFFIC BY STATIONS FOR THE YEARS 1995 TO 2005

MUNICIPAL INTERSTATE

STATION	ROUTE	LOCATION
701	I 380	BTWN WILSON AND 33RD CEDAR RAPIDS
703	I 380	AT J AVE S OF COLDSTREAM CEDAR RAPIDS
704	I 29/80	0.6 MI W OF IA 192 COUNCIL BLUFFS
705	I 74	0.6 MI S OF US 6 BETTENDORF

1995	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005
53207	53950	55762	58581	60722	60803	61973	63391	63338	64289	64150
70745	73819	75550	77246	78696	78969	79802	81023	81222	82356	81384
53891	58802	59356	65887	68638	69496	70860	76024	74081	75623	77569
37738	39192	38593	39730	41466	43683	47438	48380	48022	47671	48031

2005 EXPANSION FACTORS MUNICIPAL INTERSTATE

MON - THU		MON	TUE	WED	THU	FRI	SAT	SUN
1.051	Jan	1.002	1.018	1.163	1.029	0.938	1.299	1.555
0.961	Feb	0.986	0.975	0.959	0.929	0.853	1.132	1.494
0.929	Mar	0.951	0.939	0.919	0.912	0.868	1.137	1.388
0.907	Apr	0.937	0.916	0.894	0.883	0.828	1.115	1.362
0.891	May	0.917	0.892	0.888	0.870	0.816	1.091	1.301
0.870	Jun	0.898	0.884	0.866	0.844	0.813	1.110	1.268
0.882	Jul	0.907	0.891	0.874	0.858	0.821	1.127	1.312
0.891	Aug	0.904	0.899	0.887	0.876	0.846	1.136	1.329
0.910	Sep	0.936	0.921	0.903	0.892	0.838	1.168	1.373
0.916	Oct	0.945	0.921	0.906	0.886	0.825	1.123	1.352
0.923	Nov	0.937	0.952	0.920	0.889	0.826	1.127	1.386
0.970	Dec	0.962	0.929	0.980	1.013	0.875	1.201	1.444

ANNUAL AVERAGE DAILY TRAFFIC BY STATIONS FOR THE YEARS 1995 TO 2005

RURAL PRIMARY

STATION	ROUTE	LOCATION	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005
201	US 65	2.7 MI N OF IA 3 HAMPTON	3416	3350	3535	3492	3152	2958	2869	3005	2981	2959	2886
202	US 71	2.0 MI N OF IA 44 HAMLIN	3313	3363	3480	3295	3082	3238	3162	3458	3416	3544	3504
204	US 75	1.3 MI N OF CO C60 HINTON	9601	9888	9812	9565	9934	9960	10003	11049	11440	11718	12095
205	US 218	2.7 MI S OF IA 78 SWEDESBURG	6303	6380	6615	7290	8018	8144	8930	9346	9671	10174	10375
206	US 30	AT BOONE/STORY CO LINE NAPIER	7538	8210	8843	9748	10479	10431	10920	11746	12011	12366	12760
207	US 18	2.2 MI E OF US 169 ALGONA	2881	2937	3118	3177	3186	3158	3220	3363	3353	3381	3332
208	US 6	3.0 MI E OF CO V66 MARENGO	3143	3183	3297	3439	3511	3386	3404	3511	3437	3466	3344
209	US 67	1.5 MI S OF CO F45 PRINCETON	4134	3903	4044	4532	4690	4575	4436	4380	4305	4433	4471
210	US 18	4.2 MI E OF IA 60 SHELTON	3470	3513	3679	3777	3800	3702	3736	3771	3776	3939	4066
211	US 20	2.8 MI E OF CO N57 ROCKWELL CITY	2629	2735	2783	2951	2888	2845	2862	2929	2984	3152	3099
212	IA 92	0.6 MI W OF CO V45 SIGOURNEY	2772	2840	3007	3053	2954	2832	2849	2868	2821	2792	2753
213	US 30	1.8 MI E OF US 65 COLO	4840	4894	5173	5303	5666	5753	5765	5988	5431	5332	5074
214	US 61	3.8 MI N OF US 34 BURLINGTON	7064	7222	7167	7574	7532	7275	7101	7234	7200	7183	7097
216	US 34/169	2.5 MI E OF W JCT US 169 AFTON	3193	3178	3364	3520	3491	3647	3651	3690	3913	3835	3654
217	US 18	2.5 MI E OF I-35 CLEAR LAKE	14741	14886	15646	15833	15625	13978	14089	14615	14916	14876	15140
218	IA 44	0.2 MI W OF US 169 ADEL	3443	3291	3227	3239	3382	3478	3466	3528	3645	3707	3646
219	US 34	1.0 MI W OF I-35 OSCEOLA	4056	4235	4414	4527	4612	4675	4618	4650	4742	4762	4724
220	US 52	1.0 MI NW OF US 18 POSTVILLE	1723	1686	1682	1744	1762	1656	1698	1793	1746	1746	1757
221	IA 9	2.5 MI W OF CO N52 ARMSTRONG	1700	1751	1805	1829	1788	1780	1750	1760	1748	1768	1703
222	IA 3	0.1 MI W OF CO P66 HUMBOLDT	2378	2376	2390	2578	2569	2483	2443	2323	2235	2183	1989
223	IA 48	4.0 MI S OF IA 92 GRISWOLD	1306	1292	1285	1427	1402	1366	1306	1309	1297	1209	1238
224	US 59	0.5 MI S OF CO F16 DEFIANCE	2267	2366	2477	2664	2676	2552	2572	2577	2557	2635	2644
226	US 18	3.8 MI E OF CO W14 WEST UNION	2375	2439	2428	2479	2525	2539	2380	2385	2431	2358	2292
228	IA 117	2.5 MI S OF US 65 MINGO	856	864	908	915	987	958	965	1189	946	948	967
229	IA 78	1.2 MI W OF CO X23 WINFIELD	795	799	823	885	879	813	829	798	775	733	757
230	US 169	3.5 MI S OF S JCT IA 92 WINTERSET	1888	1855	1831	1919	1985	2032	1858	1770	1837	1795	1701
231	IA 148	9.3 MI N OF IA 92 ANITA	674	703	717	758	780	812	769	761	756	776	756
233	IA 110	1.5 MI S OF CO C65 SCHALLER	1422	1380	1356	1378	1321	1284	1299	1299	1301	1337	1318
234	IA 12	2.5 MI N OF CO K18 AKRON	1496	1618	1605	1577	1596	1637	1589	1555	1548	1469	1465
235	IA 143	3.4 MI S OF IA 10 MARCUS	755	754	749	880	866	821	831	825	800	795	826
236	IA 196	3.0 MI S OF US 20 SAC CITY	1013	1078	1140	1117	1139	1079	1106	1109	1082	1094	1037
238	IA 149	2.1 MI N OF IA 78 MARTINSBURG	1164	999	995	998	1013	1014	1096	1153	1175	1216	1158
240	IA 2	3.0 MI E OF US 275 SIDNEY	1821	1900	1864	1935	1969	1840	1841	1882	1887	1936	1857
241	IA 13	5.0 MI S OF US 20 RYAN	4114	4259	4520	4793	5051	5058	5118	5048	4979	4694	4408
242	US 61	3.8 MI N OF CO F41 ELDRIDGE	11681	12668	13008	13960	14614	14483	15108	15911	16104	16459	16082
243	US 30	0.3 MI E OF CO Z24 DEWITT	7163	7959	8428	8528	8387	8477	8723	9222	9295	9413	9488
244	IA 1	0.8 MI S OF CO F67 KALONA	5799	6047	5925	5932	6293	5798	5804	5948	5950	5969	5956
245	US 20	1.5 MI E OF CO V62 JESUP	7252	7777	8231	8686	9105	9115	9185	9538	10032	10392	10194
246	IA 141	1.0 MI E OF WILLIS AVE PERRY	8517	8496	9058	9473	9701	9598	9630	9805	9785	9940	9806
247	US 20	3.0 MI E OF E JCT IA 17 WEBSTER CITY	5407	5650	6000	6415	6537	6560	6685	6848	6995	7827	7958
248	IA 21	2.8 MI N OF US 6 BELLE PLAINE					1303	1248	1260	1297	1283	1318	1270
249	US 218	0.5 MI N OF HILLS INTERCHANGE HILLS							15447	16116	16404	16852	16973
250	US 65	1.5 MI N OF IA 163 PLEASANT HILL					15690	16724	18451	20559	22221	23923	25288
251	US 34	1.1 MI W OF IA 16 AGENCY											7146
252	US 18/63	0.5 MI S OF CO RD B54 NEW HAMPTON											4803
253	US 218	3.5 MI S OF CO RD T64 CHARLES CITY											8316
254	IA 60	4.1 MI N OF IA 9 SIBLEY											3013
255	US 20	1.0 MI E OF US 65 IOWA FALLS											7531
256	US 18	3.3 MI E OF I35 MASON CITY											7066

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

2005 EXPANSION FACTORS RURAL PRIMARY

MON - THU		MON	TUE	WED	THU	FRI	SAT	SUN
1.136	Jan	1.073	1.094	1.276	1.113	0.978	1.276	1.501
1.040	Feb	1.075	1.045	1.040	1.004	0.879	1.050	1.466
0.999	Mar	1.018	1.009	0.999	0.979	0.906	1.087	1.258
0.966	Apr	0.992	0.977	0.966	0.931	0.839	1.018	1.221
0.940	May	0.967	0.934	0.951	0.915	0.805	0.953	1.138
0.879	Jun	0.902	0.889	0.883	0.851	0.774	0.942	1.053
0.874	Jul	0.896	0.885	0.866	0.850	0.763	0.938	1.081
0.889	Aug	0.900	0.898	0.887	0.872	0.786	0.950	1.074
0.958	Sep	0.978	0.964	0.964	0.936	0.821	1.017	1.187
0.972	Oct	0.994	0.976	0.975	0.943	0.825	1.014	1.220
0.996	Nov	0.994	1.027	1.015	0.956	0.848	1.065	1.319
1.034	Dec	1.017	0.986	1.069	1.069	0.889	1.127	1.377

ANNUAL AVERAGE DAILY TRAFFIC BY STATIONS FOR THE YEARS 1995 TO 2005

MUNICIPAL PRIMARY

STATION	ROUTE	LOCATION
801	US 34	E OF HARRISON ST MT PLEASANT
** 802	US 71	W OF MEMPHIS AVE SPIRIT LAKE
803	IA 12	ON VIADUCT E OF COURT ST SIOUX CITY
804	IA 4	N OF 4TH AVE NW POCAHONTAS
805	IA 148	S OF 11TH ST CORNING
806	US 6	E OF SHASTA WINDSOR HEIGHTS
808	US 71	S OF BIRCH ST AUDUBON
809	IA 14	N OF WOODLAND ST MARSHALLTOWN
810	IA 92	W OF N ST INDIANOLA
811	IA 192	S OF AVE N COUNCIL BLUFFS
812	IA 122	W OF VIRGINIA AVE MASON CITY
813	US 6	E OF PINE ST DAVENPORT
815	IA 922	BTWN WILEY BLVD & WESTDALE CDR RPDS
816	US 34	W OF US 61 WEST BURLINGTON
819	IA 9	EAST OF 14TH ST OSAGE
820	IA 17	N OF NW 11TH ST EAGLE GROVE
821	IA 4	S OF EDGEWOOD AVE E JEFFERSON
823	US 6	BETWEEN SYCAMORE & 1ST AVE IOWA CITY
824	US 69	BETWEEN 15TH AND 16TH ST AMES
826	US 65	1.5 MI NE OF I-80 BONDURANT
827	US 61/151	W OF MISSISSIPPI R DUBUQUE
828	IA 150	S OF 12TH ST OELWEIN
829	US 59	S OF 5TH AVE SHENANDOAH
830	IA 23	S OF IA 92 OSKALOOSA

1995	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005
14598	14415	14245	15316	16087	14866	14032	13998	13942	13728	12834
16103	15391	13768	13090	13207	12667	12948	12038	11884	12408	12408
27471	27859	27939	28682	27834	26772	27293	26866	26579	25631	25518
3027	3089	3230	3480	3213	3059	3049	3019	2962	3012	3052
3513	3383	3360	3389	3351	3256	3208	3325	3230	3223	3098
21377	22286	22545	22960	22551	22199	21766	21952	21382	22129	22989
5737	5813	5705	6305	6862	5177	4592	4811	4757	4992	4858
6514	6956	6709	6771	6736	6729	6401	6636	6604	6540	6484
9824	9835	9966	10830	11109	10513	11077	11793	11634	11725	11582
10071	10252	10754	10431	10419	10474	10792	10061	9665	9442	9474
16255	16094	15996	15697	15650	12925	13941	13489	13326	13052	12706
20865	21037	21055	20998	21129	20440	20584	19789	19891	21888	22078
7564	8033	8062	8136	8107	8044	8249	8560	8783	9027	9006
12174	12599	12557	13117	13716	13015	13036	13162	13096	13085	12814
5640	5810	6299	6900	7047	6750	6024	5857	5627	5546	5536
3392	3381	3491	3591	3609	3443	3151	2970	2934	2902	2997
4353	4459	4504	4796	4790	4548	4405	4285	4206	4343	4211
20512	20619	21396	21554	21880	20968	21027	21564	21677	21858	21726
17509	17393	18458	19802	19468	19214	19331	19624	19394	19737	20080
9496	9498	9956	10509	10708	10710	10863	11068	11293	11824	12737
16534	17266	17003	17629	18001	18133	18270	18716	19036	19188	19238
				6928	6840	6652	6600	6470	6555	6505
					10383	9688	9842	9697	9964	10054
							3622	3506	3279	3204

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

2005 EXPANSION FACTORS

MUNICIPAL PRIMARY

MON - THU		MON	TUE	WED	THU	FRI	SAT	SUN
1.079	Jan	1.039	1.056	1.162	1.066	0.953	1.202	1.514
1.010	Feb	1.036	1.020	1.006	0.981	0.880	1.058	1.461
0.982	Mar	1.000	0.991	0.975	0.969	0.903	1.068	1.356
0.935	Apr	0.955	0.946	0.925	0.916	0.834	0.985	1.255
0.910	May	0.929	0.907	0.914	0.893	0.808	0.954	1.211
0.887	Jun	0.909	0.893	0.887	0.867	0.814	0.982	1.193
0.900	Jul	0.918	0.910	0.893	0.883	0.816	0.999	1.235
0.917	Aug	0.924	0.923	0.916	0.907	0.844	1.015	1.233
0.957	Sep	0.976	0.967	0.955	0.940	0.852	1.047	1.312
0.961	Oct	0.977	0.967	0.956	0.942	0.851	1.032	1.312
0.963	Nov	0.968	0.981	0.969	0.938	0.861	1.054	1.358
0.997	Dec	0.988	0.972	1.006	1.026	0.890	1.084	1.393

ANNUAL AVERAGE DAILY TRAFFIC BY STATIONS FOR THE YEARS 1995 TO 2005

SECONDARY

PAVED ROADS

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

1995	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005
246	275	297	297	302	294	288	292	286	303	296
881	942	964	1005	1043	964	931	1005	985	1001	979
975	948	976	963	923	943	975	936	875	845	824
1166	1174	1230	1189	1177	1138	1107	1115	1075	1005	1025
596	616	583	630	646	623	572	599	614	643	640
538	526	524	531	572	558	568	625	595	575	579
1204	1232	1317	1315	1316	1230	1257	1308	1309	1341	1292
329	343	335	357	364	369	353	360	360	361	361
700	705	699	748	803	959	972	998	992	999	974
576	578	570	588	559	526	518	533	531	529	529
782	835	869	856	795	758	800	861	847	864	835
1348	1316	1259	1295	1438	1386	1364	1405	1383	1406	1336
583	606	627	545	659	675	682	734	746	707	715
720	712	721	781	740	697	675	647	638	667	675
656	661	655	716	743	706	706	721	734	712	722

GRAVEL ROADS

STATION	ROUTE	LOCATION
400	CO B30	0.5 MI E OF CO L48 PRIMGHAR
401	"U" AVE	1.75 MI N OF CO E36 CLUTIER
402	230TH ST	0.75 MI E OF CO V18 CLUTIER
403	CO H47	5.0 MI SE OF US 34 ALBIA
405	EXETER AVE	2.5 MI N OF US 18 NEW HAMPTON
406	YELLOWROSE	2.0 MI E OF US 169 LORIMOR
407	140TH ST	2.0 MI E OF US 169 LORIMOR

1995	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005
29	28	28	28	25	22	24	26	27	28	26
34	31	31	28	30	29	36	33	36	52	32
48	39	37	40	42	39	38	38	40	51	42
106	99	90	78	87	75	77	91	103	115	109
74	67	62	54	57	54	43	60	57	56	47
70	81	81	93	86	80	73	68	67	76	71
69	68	61	73	66	69	62	62	73	75	81

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

2005 EXPANSION FACTORS

SECONDARY

MON - THU		MON	TUE	WED	THU	FRI	SAT	SUN
1.277	Jan	1.162	1.215	1.486	1.269	1.154	1.484	1.703
1.098	Feb	1.147	1.109	1.073	1.067	0.953	1.179	1.679
1.017	Mar	1.035	1.010	0.998	1.022	0.988	1.167	1.319
0.946	Apr	0.957	0.967	0.941	0.914	0.845	1.002	1.205
0.902	May	0.927	0.888	0.909	0.891	0.795	0.933	1.164
0.862	Jun	0.877	0.869	0.867	0.839	0.796	0.940	1.051
0.894	Jul	0.916	0.904	0.872	0.884	0.818	0.966	1.149
0.940	Aug	0.946	0.938	0.935	0.938	0.865	1.018	1.181
0.937	Sep	0.962	0.930	0.931	0.927	0.840	1.017	1.223
0.908	Oct	0.910	0.894	0.919	0.901	0.804	0.939	1.205
0.991	Nov	0.952	1.012	1.023	0.974	0.883	1.082	1.304
1.153	Dec	1.110	1.076	1.173	1.271	1.056	1.332	1.534

ANNUAL AVERAGE DAILY TRAFFIC BY STATIONS FOR THE YEARS 1995 TO 2005

MUNICIPAL STREETS

STATION	ROUTE	LOCATION	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005
900	LAKE ST	N OF 3RD ST STORM LAKE	3858	3562	3284	3511	3662	3508	3502	3266	3128	3046	2911
901	2ND AVE N	E OF 15TH ST FORT DODGE	6913	6870	6932	7331	7264	7211	7368	6681	6471	6795	6780
902	LOCUST ST	E OF SPRING ST DAVENPORT	21191	21731	21483	22938	23322	22415	22498	23162	22986	22382	22369
903	JEFFERSON	NE OF E 5TH ST OTTUMWA	7721	7392	7203	7030	6905	6678	6768	6935	6862	6901	6549
904	JOHNSON	W OF JANICE DR CEDAR RAPIDS	10020	10221	9965	10036	9527	9821	10174	9499	10202	10381	10360
905	N'WESTERN	N OF 20TH ST AMES	2719	3092	2854	2910	2842	2727	2741	2791	2797	2652	2460
906	DUBUQUE	S OF DAVENPORT ST IOWA CITY	13573	13976	13572	14484	15358	15324	15899	16201	15593	15615	15177
907	COLLEGE	S OF 23RD ST CEDAR FALLS	9258	8978	8963	9454	9469	9564	9973	9272	9036	8440	7947
908	LIND'WOOD	S OF 35TH ST SIOUX CITY	1115	1176	1138	1177	1171	1193	1139	1171	1134	1129	1056
909	HAMILTON	N OF CLIFTON AVE SIOUX CITY	12044	14688	14675	14979	15700	15280	15448	15596	15335	14789	14529
910	GRANDVIEW	SE OF PLYMOUTH CT DUBUQUE	9313	9158	9940	8982	9020	8973	9090	9218	9272	9402	9094
911	HUMBOLDT	S OF 4TH ST BODE	1096	939	926	916	942	886	898	869	794	773	796
912	ELM ST	N OF LUCAS ST CRESTON				4301	4207	4066	4024	4054	4081	4422	4126

2005 EXPANSION FACTORS

MUNICIPAL STREETS

MON - THU		MON	TUE	WED	THU	FRI	SAT	SUN
1.097	Jan	1.062	1.073	1.179	1.079	0.984	1.277	1.473
0.998	Feb	1.029	1.010	0.986	0.973	0.901	1.110	1.406
0.989	Mar	1.016	0.998	0.977	0.973	0.943	1.169	1.342
0.914	Apr	0.935	0.928	0.905	0.889	0.841	1.023	1.193
0.913	May	0.939	0.912	0.913	0.894	0.835	1.013	1.223
0.941	Jun	0.962	0.947	0.943	0.921	0.890	1.094	1.262
0.977	Jul	0.993	0.988	0.975	0.955	0.917	1.134	1.329
0.983	Aug	0.995	0.985	0.986	0.969	0.910	1.101	1.281
0.953	Sep	0.977	0.958	0.947	0.937	0.869	1.108	1.271
0.955	Oct	0.973	0.961	0.950	0.935	0.875	1.085	1.271
0.960	Nov	0.979	0.969	0.964	0.933	0.879	1.115	1.329
0.999	Dec	1.003	0.980	1.016	0.999	0.912	1.166	1.385

ANNUAL AVERAGE DAILY TRAFFIC BY STATIONS FOR THE YEARS 1995 TO 2005

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

1995	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005
	7488	7712	7823	7985	8197	8178	8174	8358	8497	8263
3233	3264	3264	3434	3557	3292	3328	3437	3492	3650	3644
3780	3945	4178	4207	4540	4531	4344	4544	4926	5541	5789

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.

1995	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005
264	277	248	250	250	250	260	223	203	210	204
	1274	1222	1319	1170	1200	1032	994	937	826	822
			329	324	257	256	301	346	348	339

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.

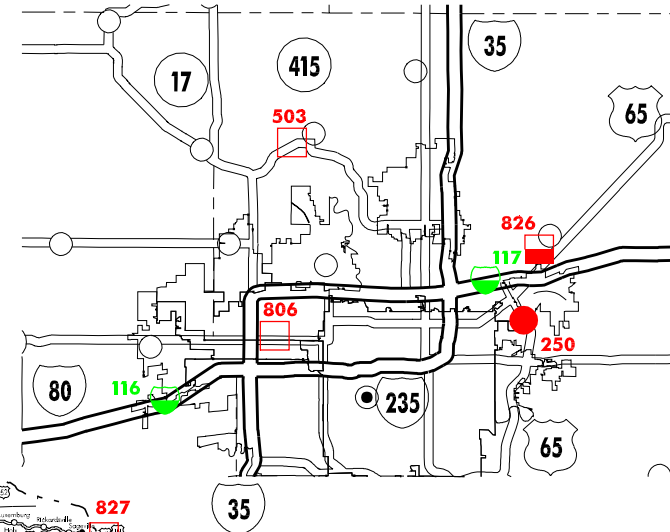
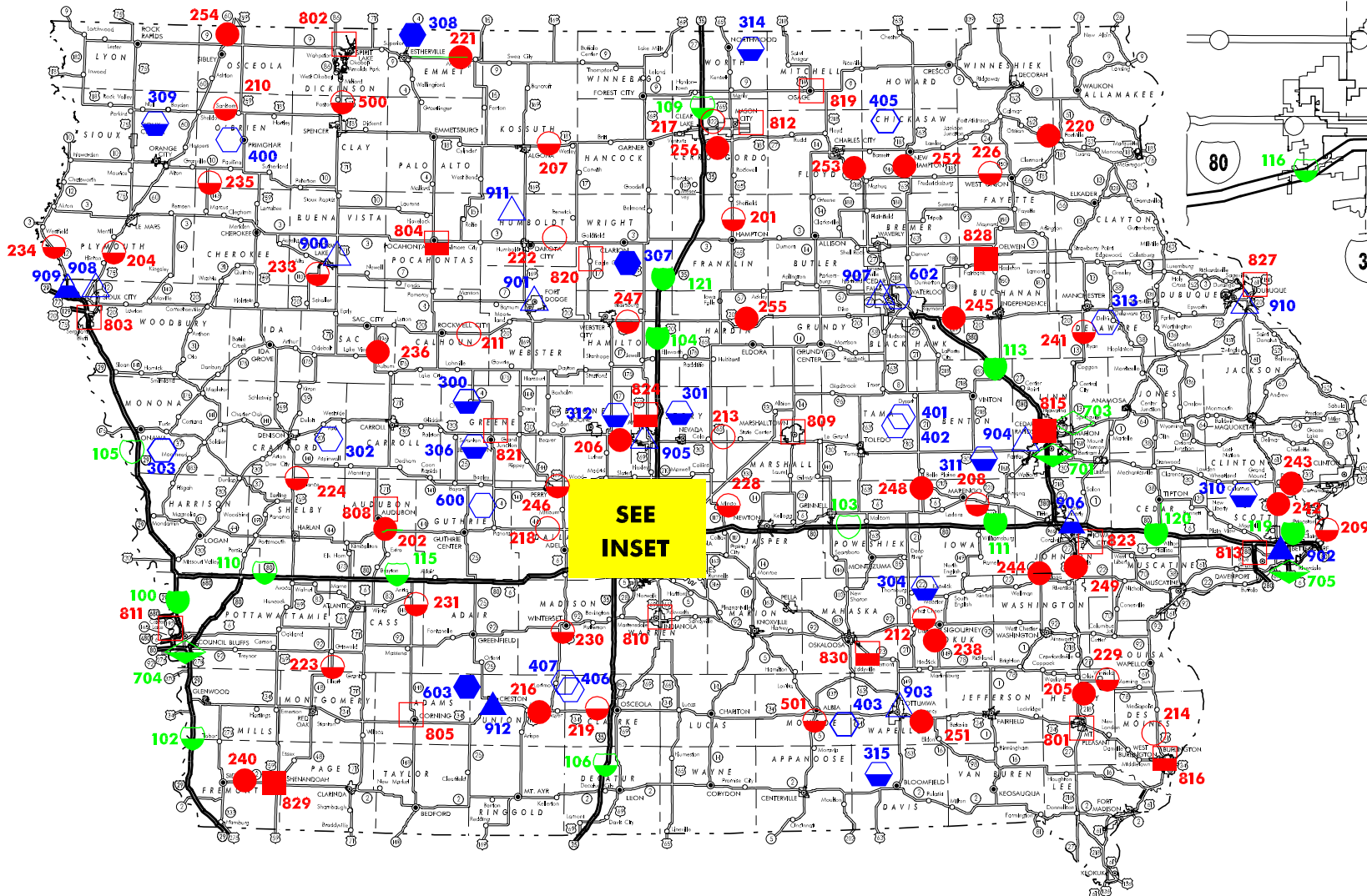
2005 EXPANSION FACTORS

RECREATIONAL

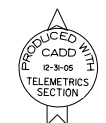
MON - THU		MON	TUE	WED	THU	FRI	SAT	SUN
1.184	Jan	1.148	1.134	1.304	1.156	1.051	1.282	1.696
1.131	Feb	1.163	1.125	1.143	1.099	0.992	1.222	1.829
1.079	Mar	1.099	1.078	1.085	1.063	1.071	1.210	1.471
1.017	Apr	1.043	1.025	1.026	0.979	0.909	1.044	1.281
0.916	May	0.940	0.895	0.944	0.896	0.790	0.881	1.142
0.812	Jun	0.827	0.828	0.825	0.775	0.702	0.747	0.846
0.808	Jul	0.818	0.825	0.813	0.779	0.690	0.741	0.862
0.852	Aug	0.855	0.862	0.852	0.838	0.738	0.815	0.941
0.959	Sep	0.972	0.976	0.965	0.936	0.829	0.896	1.101
1.039	Oct	1.063	1.030	1.053	1.009	0.911	1.114	1.412
1.084	Nov	1.086	1.100	1.104	1.049	0.979	1.246	1.616
1.121	Dec	1.161	1.083	1.114	1.134	1.028	1.260	1.700

AUTOMATIC TRAFFIC RECORDER LOCATIONS

JANUARY 1, 2006



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	7 2
MUNICIPAL INTERSTATE		0	3 1
RURAL PRIMARY		22	23 6
MUNICIPAL PRIMARY		3	5 17
RURAL SECONDARY		3	10 12
MUNICIPAL STREETS		2	2 9
TOTAL	134	37	50 47