



**AUTOMATIC TRAFFIC  
RECORDERS  
2008 - 2018**

**Prepared by**

**OFFICE OF SYSTEMS PLANNING**

**In Cooperation With**

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

**PHONE 515-239-1526**

**JANUARY 2019**

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## INTRODUCTION

**This report contains graphic comparisons of daily and monthly traffic collected on Iowa's highway system at 176 Permanent Continuous Automatic Traffic Recorder locations. Eighteen (18) stations are located on the Rural Interstate system, thirteen (13) are on the Municipal Interstate system, eighty (80) are on the Rural Primary system, twenty-five (25) are on the Municipal Primary system, twenty-six (26) are on the Rural Secondary system and fourteen (14) are on the Municipal Street system. The map on page 26 shows the general location of count sites. Specific descriptions of locations, along with AADT's for the previous eleven years for each station, start on page 19. Sites without an AADT for 2018 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 2009 - 2018.**

**Information from the permanent traffic recorders indicates a 0.7% decrease in statewide travel from 2017 to 2018. The estimated vehicle miles of travel for 2018 is 33.52 billion. Final 2018 traffic figures will be published near June 2019, when all traffic data collected during 2018 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

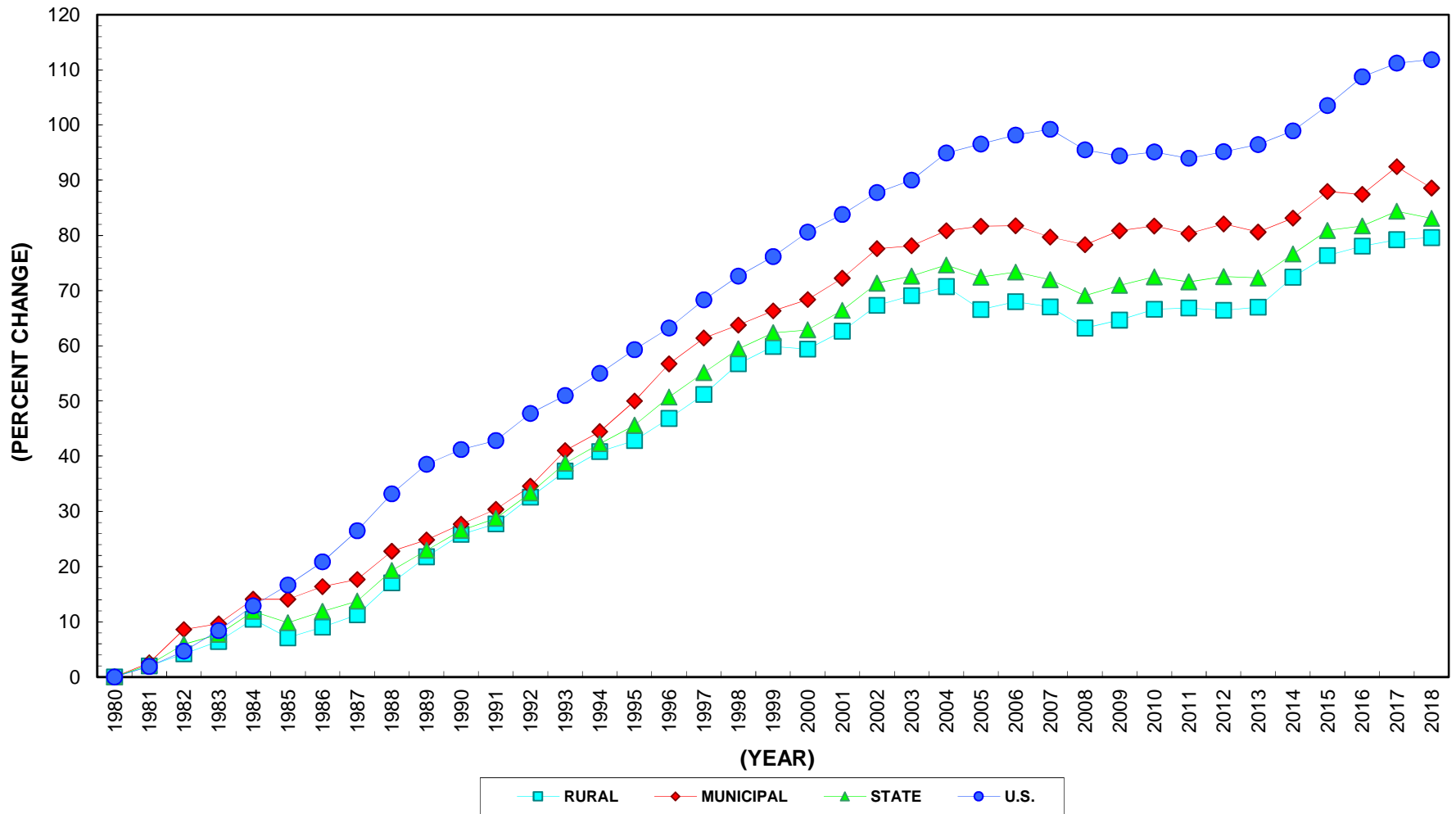
## IOWA ROAD SYSTEMS

	2018 COMPARED TO 2017
RURAL INTERSTATE	+ 0.1 %
RURAL PRIMARY	- 0.2 %
RURAL SECONDARY	- 2.0 %
<b>RURAL TOTAL</b>	<b>- 0.6 %</b>
MUNICIPAL INTERSTATE	+ 0.9 %
MUNICIPAL PRIMARY	+ 0.2 %
MUNICIPAL STREETS	- 2.0 %
<b>MUNICIPAL TOTAL</b>	<b>- 0.8 %</b>
<b>STATE TOTAL</b>	<b>-0.7 %</b>

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

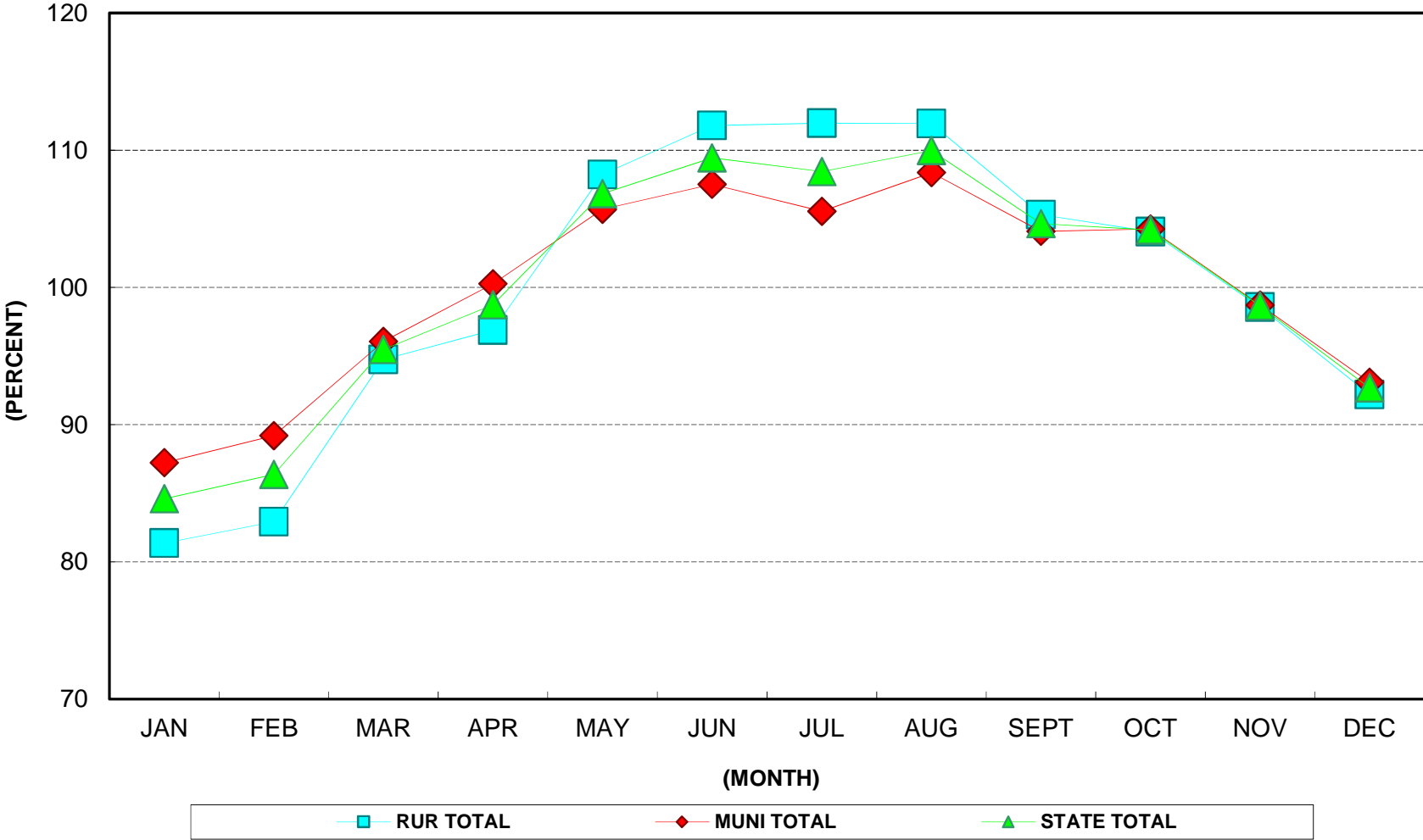
# PERCENT CHANGE IN TRAFFIC

BASE YEAR 1980

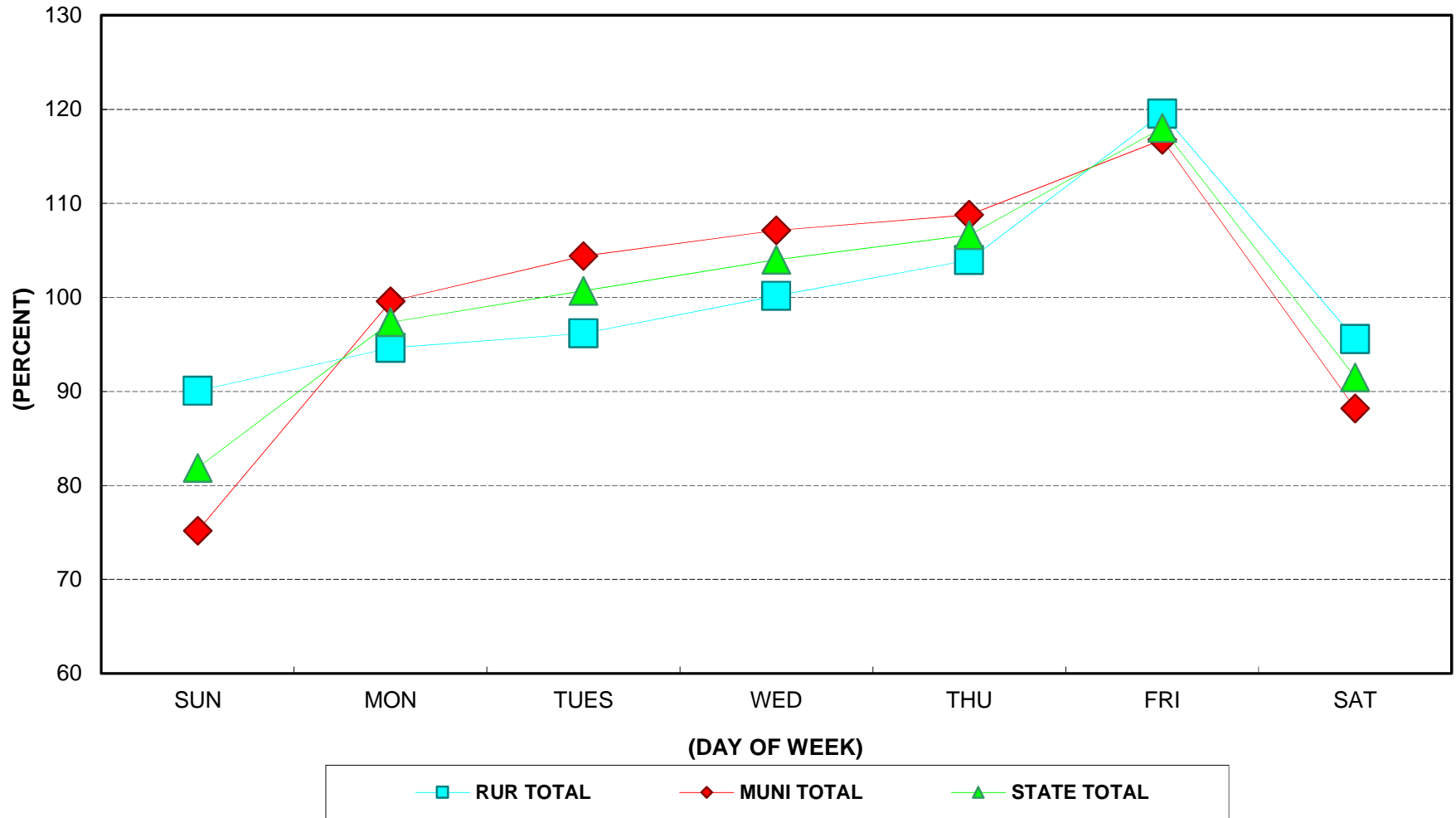


# 2018 MONTHLY TRAFFIC

AS A % OF ANNUAL AVERAGE DAILY TRAFFIC

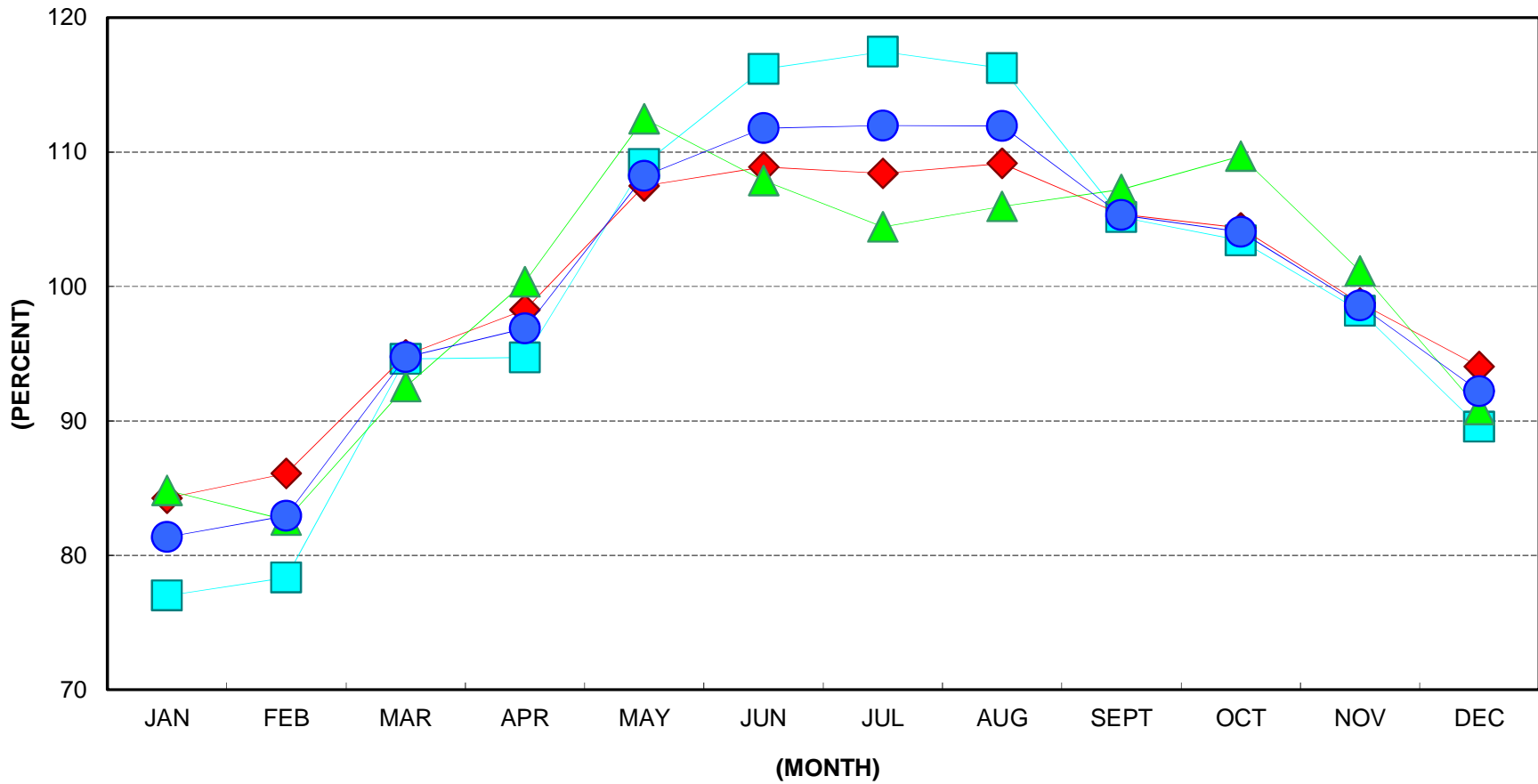


# 2018 DAY OF WEEK TRAFFIC AS A % OF ANNUAL AVERAGE DAILY TRAFFIC



# 2018 RURAL MONTHLY TRAFFIC

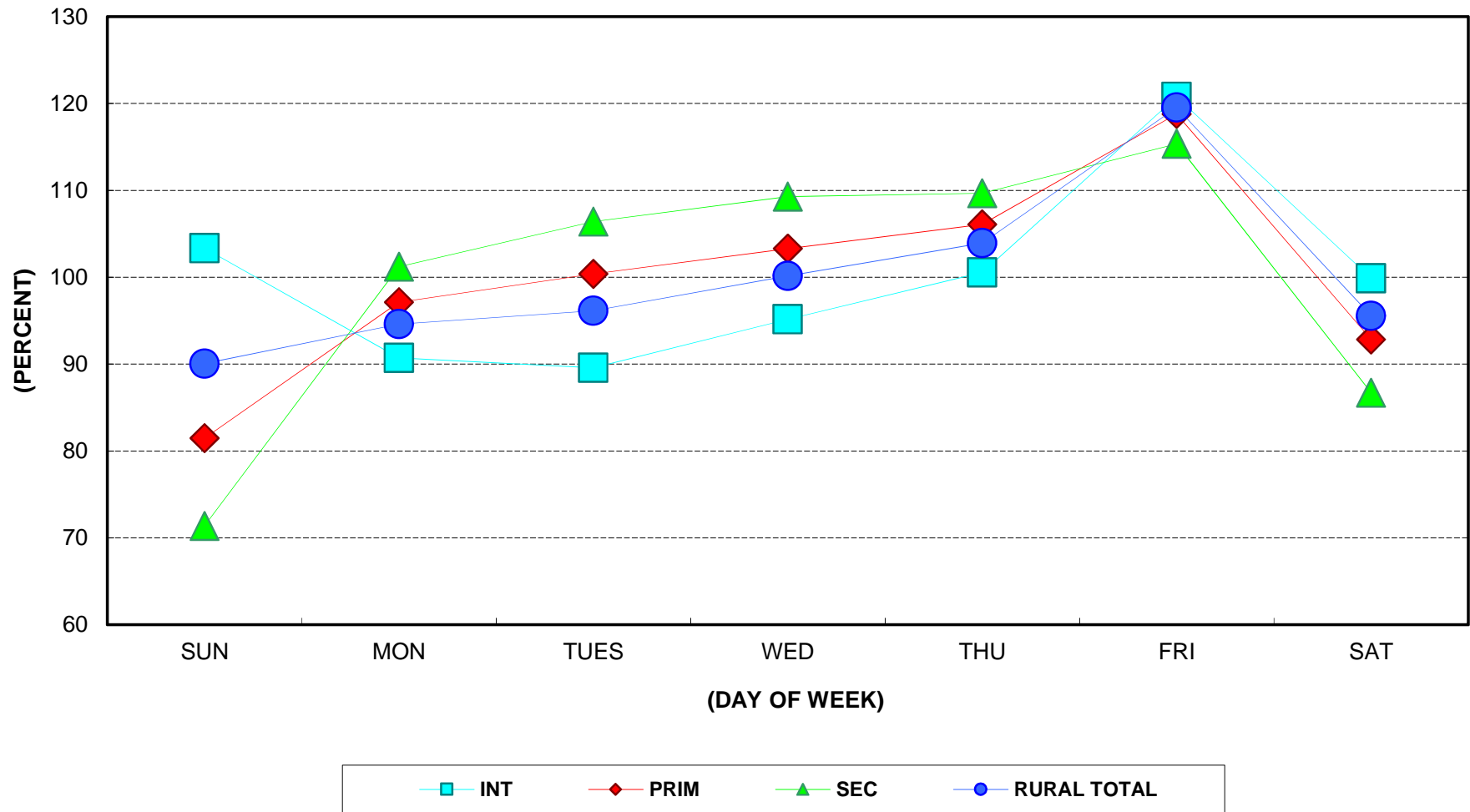
## AS A % OF ANNUAL AVERAGE DAILY TRAFFIC





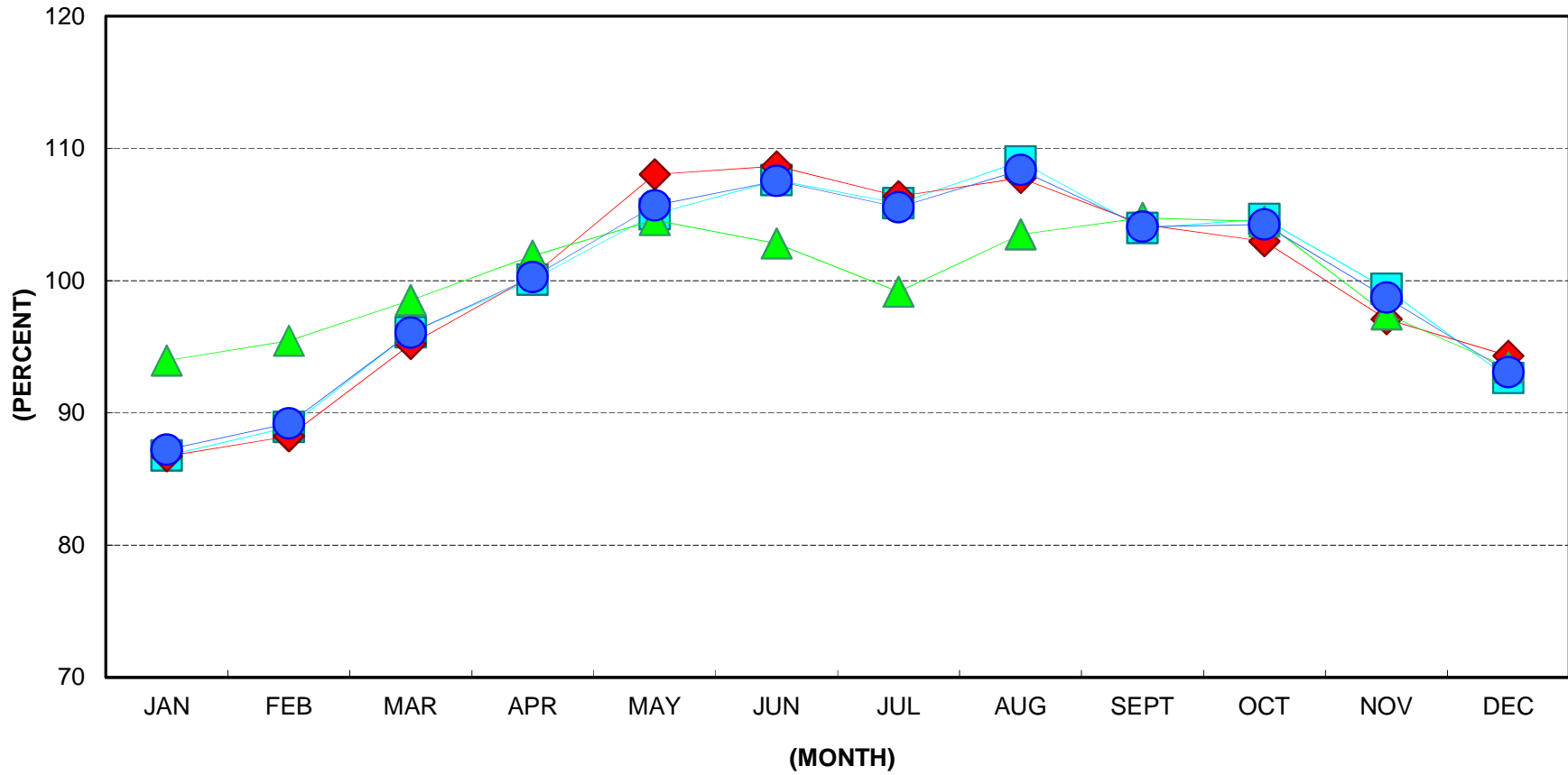
# 2018 RURAL DAY OF WEEK TRAFFIC

AS A % OF ANNUAL AVERAGE DAILY TRAFFIC



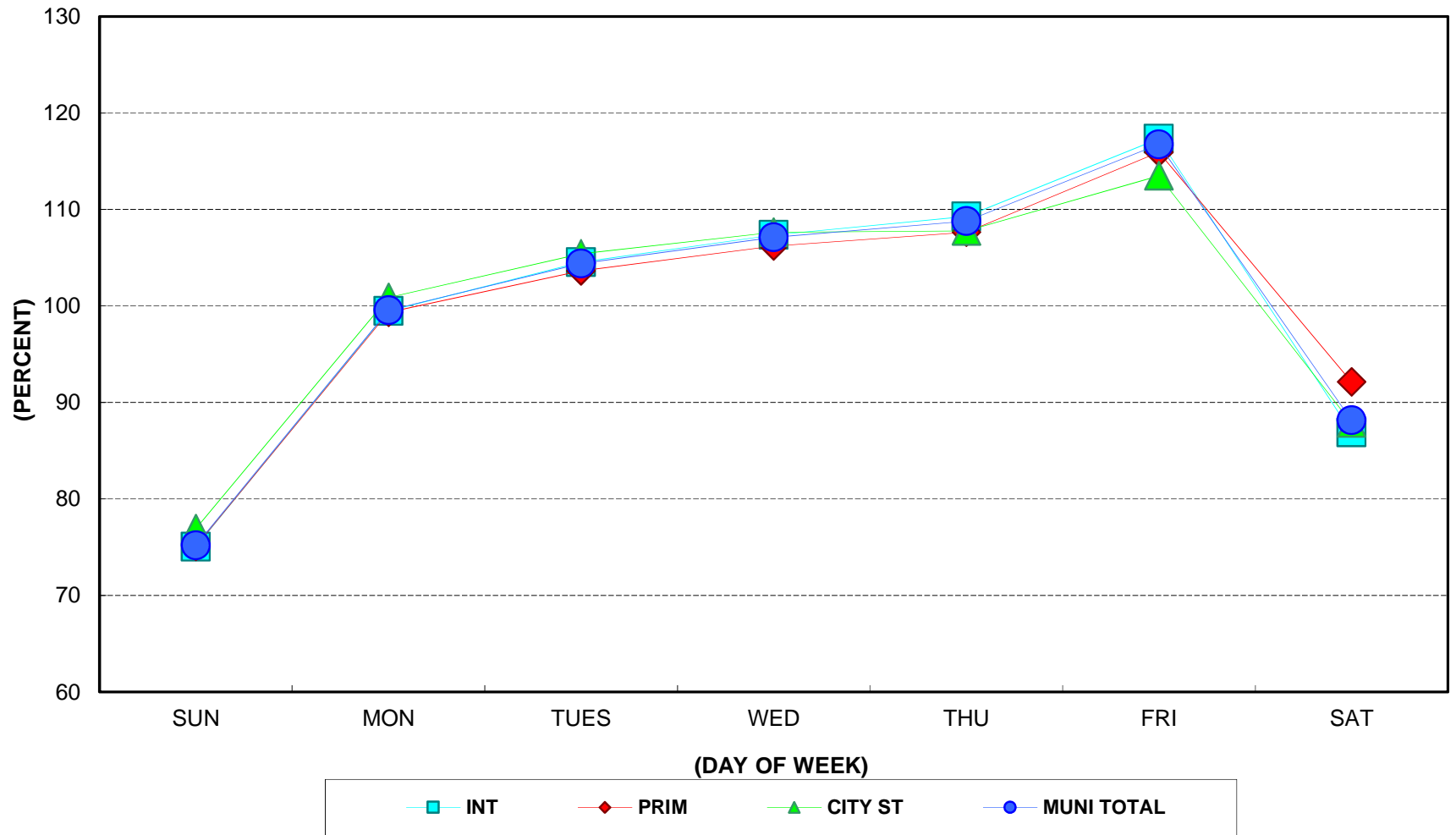
# 2018 MUNICIPAL MONTHLY TRAFFIC

## AS A % OF ANNUAL AVERAGE DAILY TRAFFIC

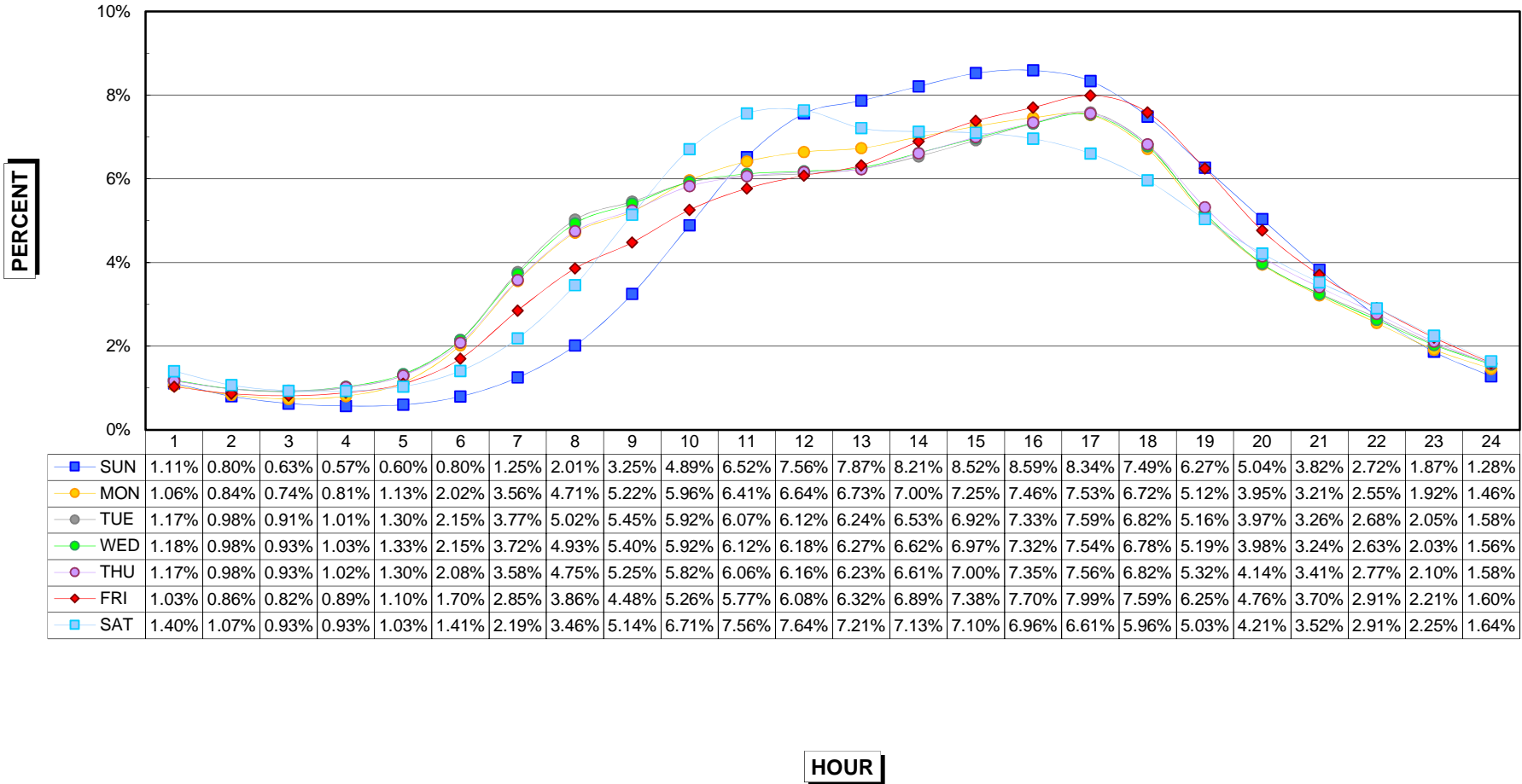


# 2018 MUNICIPAL DAY OF WEEK TRAFFIC

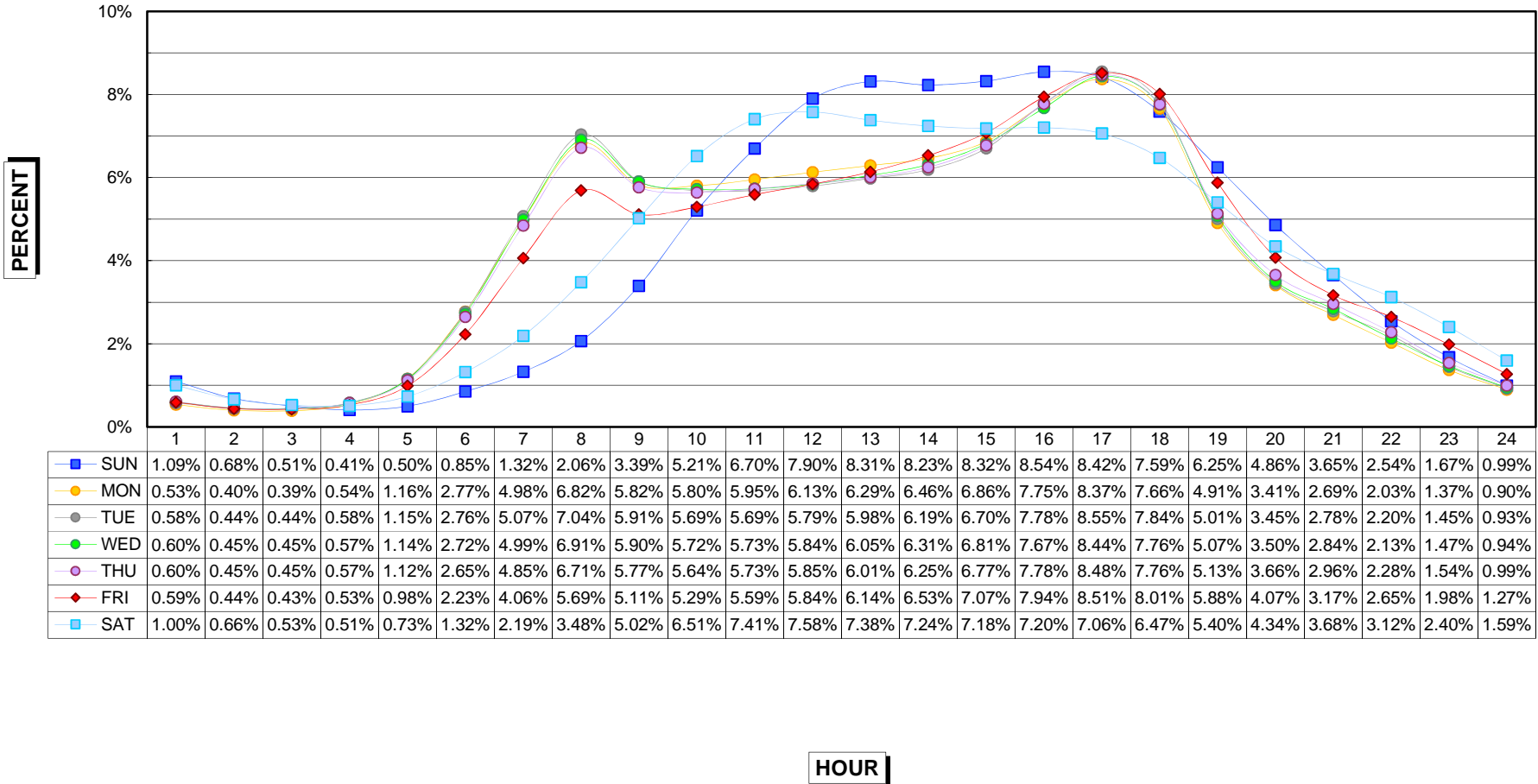
AS A % OF ANNUAL AVERAGE DAILY TRAFFIC



### HOURLY DISTRIBUTION OF DAILY TRAFFIC 2018 RURAL INTERSTATE

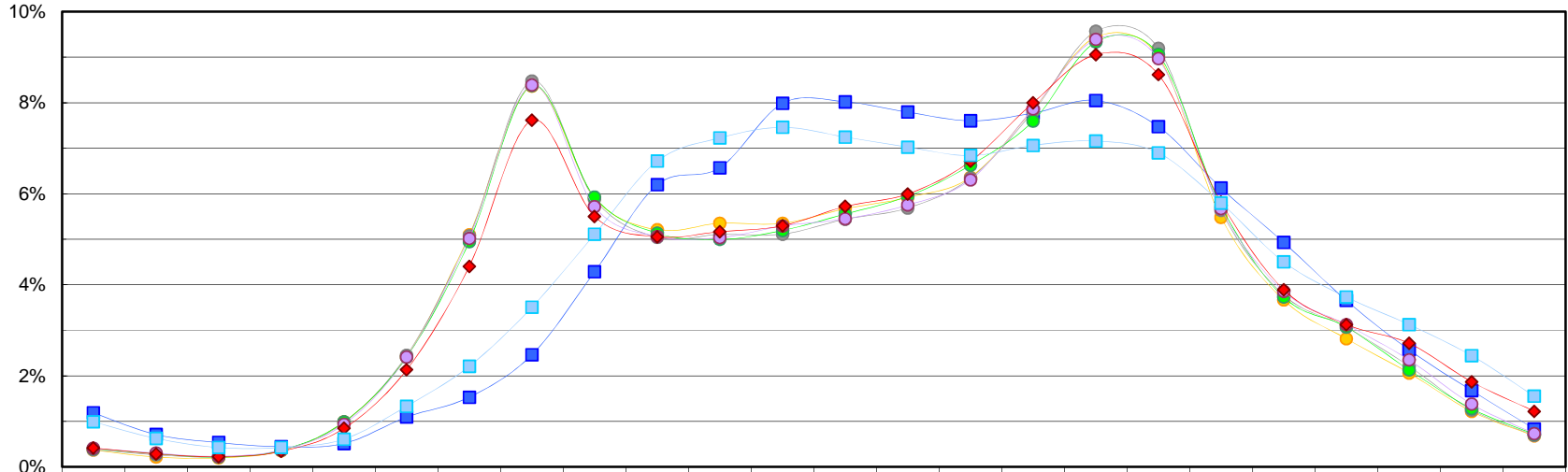


### HOURLY DISTRIBUTION OF DAILY TRAFFIC 2018 RURAL PRIMARY



### HOURLY DISTRIBUTION OF DAILY TRAFFIC 2018 RURAL SECONDARY

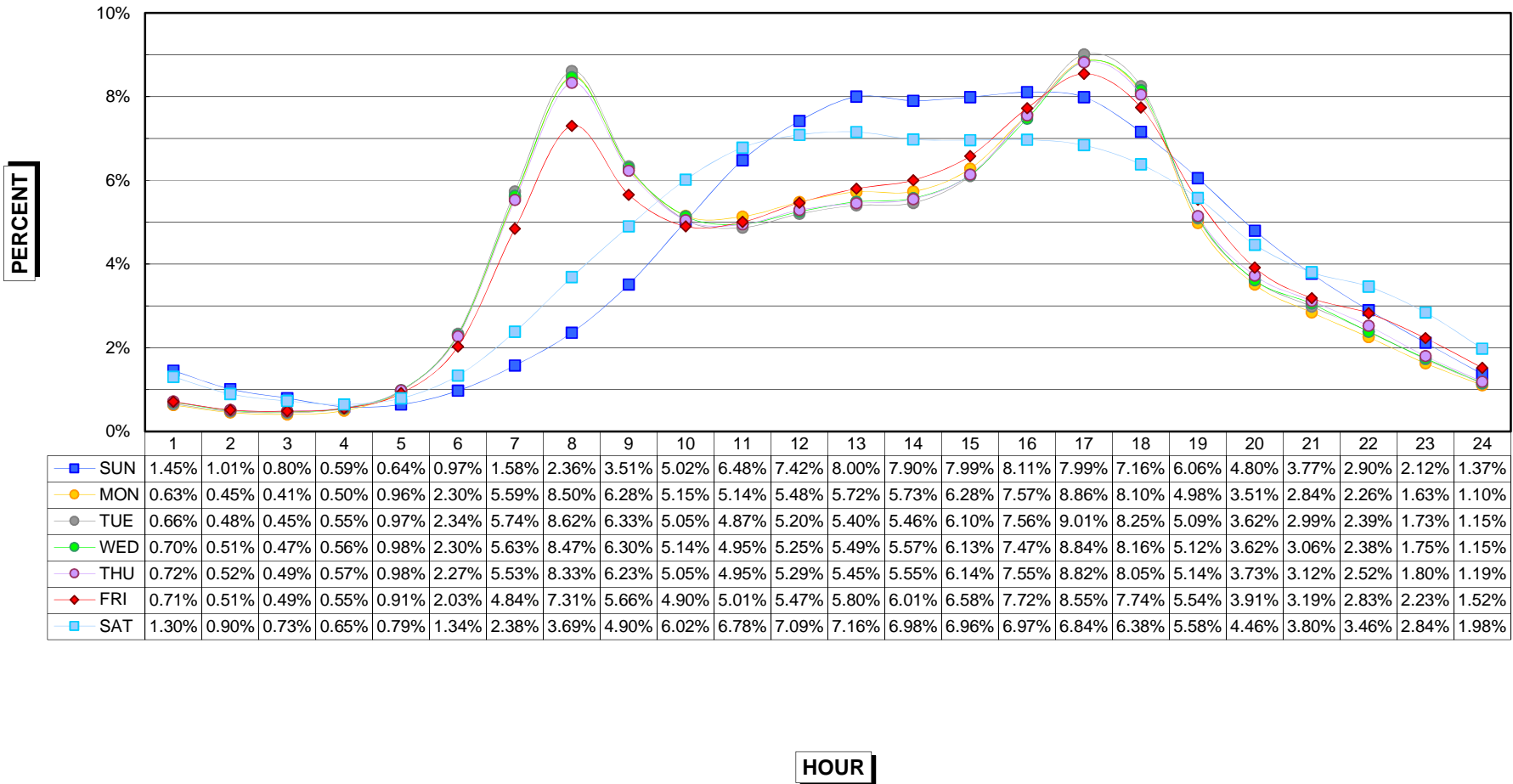
PERCENT



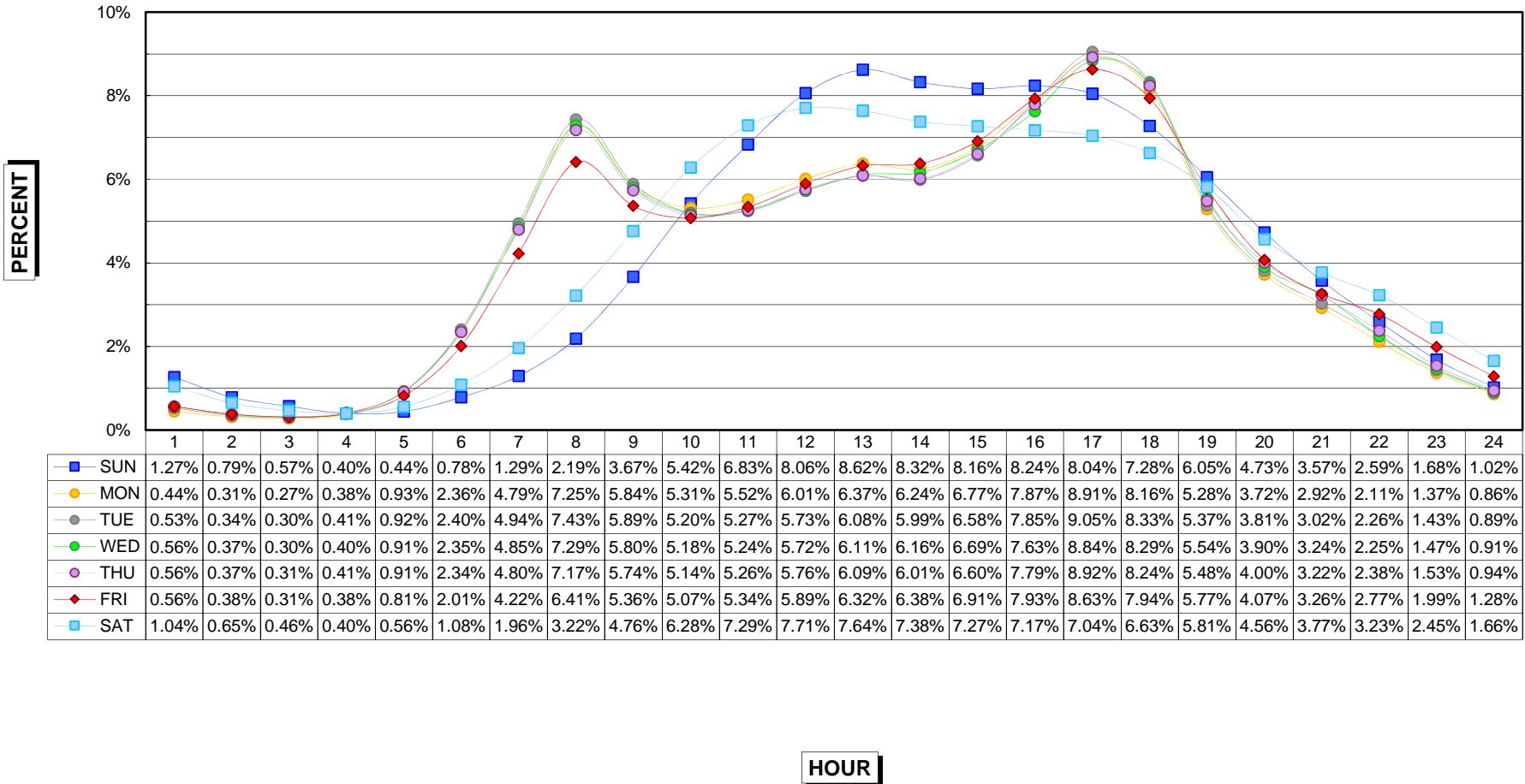
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24
SUN	1.19%	0.71%	0.54%	0.44%	0.51%	1.09%	1.53%	2.46%	4.28%	6.20%	6.57%	7.98%	8.02%	7.79%	7.60%	7.77%	8.05%	7.47%	6.12%	4.93%	3.65%	2.57%	1.68%	0.83%
MON	0.37%	0.22%	0.20%	0.35%	0.99%	2.42%	5.09%	8.36%	5.91%	5.21%	5.35%	5.35%	5.67%	5.92%	6.36%	7.85%	9.44%	9.01%	5.48%	3.67%	2.82%	2.06%	1.22%	0.68%
TUE	0.37%	0.27%	0.21%	0.37%	0.98%	2.45%	5.07%	8.47%	5.88%	5.04%	5.10%	5.11%	5.44%	5.69%	6.34%	7.80%	9.57%	9.19%	5.64%	3.78%	3.07%	2.21%	1.25%	0.69%
WED	0.40%	0.29%	0.21%	0.36%	0.99%	2.41%	4.95%	8.38%	5.92%	5.13%	4.99%	5.19%	5.56%	5.94%	6.63%	7.59%	9.33%	9.06%	5.73%	3.73%	3.07%	2.13%	1.28%	0.72%
THU	0.41%	0.30%	0.23%	0.37%	0.93%	2.41%	5.02%	8.39%	5.71%	5.06%	5.03%	5.29%	5.45%	5.75%	6.31%	7.86%	9.39%	8.97%	5.67%	3.85%	3.13%	2.35%	1.38%	0.73%
FRI	0.41%	0.29%	0.22%	0.34%	0.84%	2.13%	4.40%	7.61%	5.50%	5.05%	5.17%	5.30%	5.72%	5.99%	6.71%	8.00%	9.05%	8.62%	5.81%	3.89%	3.13%	2.71%	1.87%	1.22%
SAT	0.99%	0.63%	0.42%	0.42%	0.61%	1.33%	2.21%	3.51%	5.11%	6.72%	7.23%	7.46%	7.25%	7.02%	6.84%	7.06%	7.16%	6.90%	5.80%	4.50%	3.73%	3.13%	2.44%	1.55%

HOUR

### HOURLY DISTRIBUTION OF DAILY TRAFFIC 2018 MUNICIPAL INTERSTATE

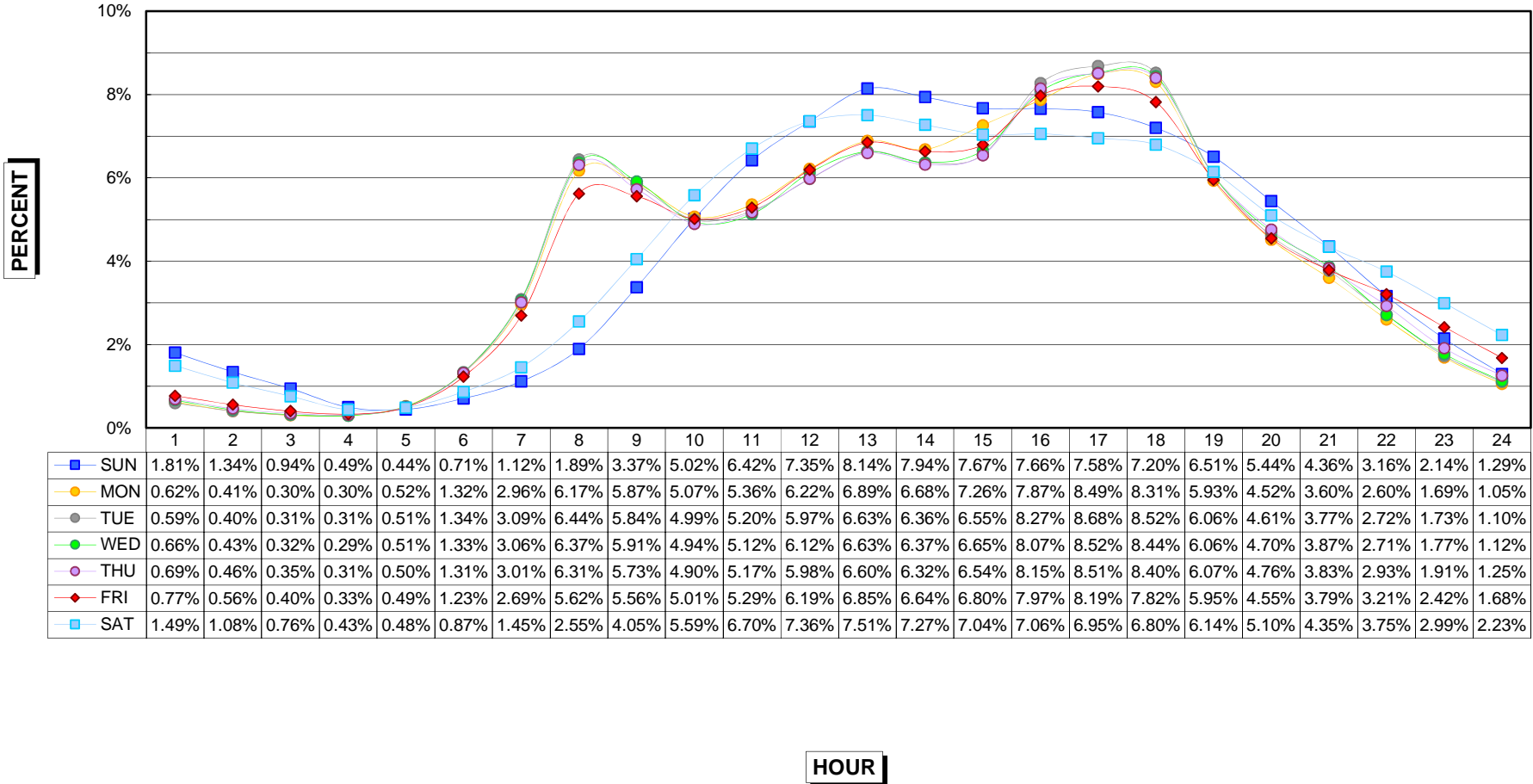


### HOURLY DISTRIBUTION OF DAILY TRAFFIC 2018 MUNICIPAL PRIMARY





### HOURLY DISTRIBUTION OF DAILY TRAFFIC 2018 MUNICIPAL STREETS



## SUMMARY OF ANALYSIS

### Analysis of the Thirtieth Highest Hour at the Permanent Continuous Automatic Traffic Recorder Stations 2009 - 2018

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, 2009 through 2018.

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	14.96	10.79	390.19	9.67	4.02	12.41	-	-
Municipal	3.41	10.69	-85.99	10.83	-	-	50.92	10.00

**ANNUAL AVERAGE DAILY TRAFFIC BY STATIONS FOR THE YEARS 2008 TO 2018  
RURAL INTERSTATE**

STATION	ROUTE	LOCATION	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018
100	I 29	2.0 MI N OF S JCT I 680 HONEY CREEK	20246	20170	20593	NONE	19730	19907	20696	21770	22259	NONE	22409
102	I 29	7.0 MI S OF US 34 PACIFIC JCT	11793	11761	11868	NONE	12008	12337	13563	13530	13780	14226	14056
103	I 80	1.0 MI W OF US 63 GRINNELL	26118	26234	26569	26045	26046	26235	26523	27320	28119	28598	28661
104	I 35	3.0 MI N OF IA 175 JEWELL	20147	20509	NONE	21248	21437	21726	21775	22963	23783	24342	24452
105	I 29	3.8 MI S OF IA 175 ONAWA	12096	12512	12791	NONE	12587	12667	13150	14096	14350	14694	14635
106	I 35	1.5 MI N OF IA 2 LEON	12705	12715	12786	12783	12699	NONE	NONE	13661	14115	14246	14279
109	I 35	3.0 MI N OF CO B20 HANLONTOWN	17794	18757	19118	19192	19254	19184	19324	20097	20923	21338	NONE
110	I 80	1.5 MI W OF CO M16 SHELBY	21727	22189	22950	NONE	NONE	23070	23517	24441	25519	25906	24920
111	I 80	2.0 MI E OF IA 149 WILLIAMSBURG	29718	29950	NONE	NONE	NONE	30642	31210	32352	33298	33865	33735
113	I 380	1.5 MI N OF IA 150 BRANDON	14648	15084	15665	15796	15905	15937	16186	16741	17520	17658	17645
115	I 80	2.0 MI E OF US 71 ATLANTIC	19267	19067	19879	19661	19740	19821	20113	21331	22176	22541	22190
119	I 80	1.5 MI E OF MIDDLE RD LECLAIRE	27436	27398	NONE	29604	29978	29000	30825	32582	NONE	NONE	NONE
120	I 80	2.5 MI E OF CO RD X40 TIPTON	31284	31386	32327	NONE	31963	32640	33523	NONE	NONE	36095	36266
121	I 35	2.0 MI N OF CO RD R75 DOWS	13376	13822	NONE	14291	14270	14195	14506	15227	15730	15995	16050
122	I 35	1.0 MI N OF IA 92 CUMMING	21255	21339	21205	21105	21087	21044	NONE	NONE	21974	22577	23321
123	I 80	4.8 MI E OF E JCT US 65 MITCHELLVILLE			35329	35061	35253	34996	NONE	NONE	NONE	NONE	NONE
124	I 680	6.4 MI W OF I 80 BEEBETOWN			6196	NONE	5947	5913	6039	6311	NONE	NONE	NONE
126	I 29	9.0 MI S OF IA 2										14507	14520

**2018 EXPANSION FACTORS  
RURAL INTERSTATE**

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
SEASONAL	1.270	1.218	1.027	1.022	0.918	0.865	0.850	0.870	0.942	0.963	0.992	1.113
Sunday	1.038	1.020	0.939	0.949	0.956	0.920	0.919	0.899	0.949	0.907	0.955	1.147
Monday	1.115	1.064	1.127	1.072	1.074	1.101	1.105	1.116	1.040	1.120	1.143	1.105
Tuesday	1.058	1.118	1.129	1.119	1.156	1.145	1.131	1.157	1.151	1.156	1.099	1.030
Wednesday	1.014	1.029	1.069	1.097	1.116	1.081	1.102	1.091	1.121	1.101	0.977	0.970
Thursday	0.994	0.957	0.987	0.972	0.996	0.992	1.010	1.009	1.023	0.999	1.038	0.946
Friday	0.852	0.837	0.810	0.820	0.803	0.833	0.837	0.832	0.818	0.813	0.883	0.836
Saturday	0.985	1.038	1.032	1.055	0.998	1.011	0.983	0.994	0.989	1.012	0.965	1.038

**ANNUAL AVERAGE DAILY TRAFFIC BY STATIONS FOR THE YEARS 2008 TO 2018  
MUNICIPAL INTERSTATE**

STATION	ROUTE	LOCATION	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018
701	I 380	BTWN WILSON AND 33RD CEDAR RAPIDS	63791	65296	66377	66597	66619	66629	67456	69639	71681	NONE	73258
703	I 380	AT J AVE S OF COLDSTREAM CEDAR RAPIDS	80922	80465	84299	82907	82911	82286	83915	85038	81120	NONE	88560
704	I 29/80	0.6 MI W OF IA 192 COUNCIL BLUFFS	76838	75586	75988	NONE	75521	NONE	NONE	NONE	NONE	NONE	NONE
705	I 74	0.6 MI S OF US 6 BETTENDORF	48427	47738	NONE	45756	47653	49404	49577	NONE	NONE	52108	NONE
707	I 29	AT SOUTH DAKOTA BORDER SIOUX CITY	27931	28175	SITE REMOVED JANUARY 2010								
708	I 280	0.3 MI S OF IA 22 DAVENPORT			NONE	19943	NONE	NONE	NONE	NONE	NONE	24970	23577
709	I 35	N OF ORALABOR ROAD ANKENY			NONE	59603	57945	60027	62687	NONE	65440	66343	67231
710	I 235	E. INNERLEG OF 35TH ST WEST DES MOINES			NONE	NONE	NONE	NONE	NONE	NONE	NONE	NONE	NONE
711	I 235	S OF GUTHRIE AVENUE DES MOINES			66548	64950	NONE	NONE	NONE	NONE	NONE	NONE	NONE
712	I 235	E OF SECOND AVENUE DES MOINES			NONE	NONE	NONE	NONE	NONE	NONE	NONE	NONE	NONE
713	I 35/80	E OF MERLE HAY ROAD DES MOINES			NONE	NONE	SITE REMOVED MARCH 2012						
714	I 235	0.7 MI N OF EUCLID AVENUE DES MOINES					NONE	65417	68332	72475	74926	75741	
715	I 29	1.5 MI E OF IA 12 SIOUX CITY							33150	NONE	NONE	36099	
716	I 35/80	0.8 MI W OF IA 415 DES MOINES								NONE	NONE	100804	
717	I 380	1.0 MI W OF EVANSDALE DR EVANSDALE								NONE	NONE	33972	
116	I 80	0.8 MI W OF 74TH ST WAUKEE	33977	34437	35427	35272	35527	NONE	NONE	39315	45973	48840	50147
117	I 80	1.8 MI E OF E JCT I 35/80/235 ALTOONA	67650	69757	72678	73105	74017	74863	75290	NONE	77337	NONE	86136
125	I 380	6.0 MI N OF I 80 NORTH LIBERTY				NONE	48518	49835	51703	53335	NONE	56073	57112

**2018 EXPANSION FACTORS  
MUNICIPAL INTERSTATE**

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
SEASONAL	1.116	1.073	1.004	0.970	0.938	0.909	0.925	0.900	0.971	0.976	1.005	1.092
Sunday	1.427	1.374	1.304	1.356	1.296	1.279	1.244	1.233	1.267	1.310	1.336	1.459
Monday	1.062	0.990	0.994	0.978	1.058	0.990	1.011	0.998	1.054	0.991	0.976	1.024
Tuesday	0.926	0.989	0.969	0.952	0.963	0.971	0.994	0.983	0.971	0.970	0.934	0.943
Wednesday	0.899	0.930	0.936	0.961	0.949	0.957	0.977	0.957	0.949	0.946	0.905	0.894
Thursday	0.905	0.902	0.912	0.904	0.903	0.924	0.921	0.933	0.917	0.917	0.978	0.880
Friday	0.857	0.850	0.849	0.852	0.848	0.864	0.851	0.867	0.845	0.852	0.892	0.859
Saturday	1.133	1.136	1.191	1.172	1.126	1.139	1.104	1.120	1.118	1.164	1.121	1.180



**ANNUAL AVERAGE DAILY TRAFFIC BY STATIONS FOR THE YEARS 2008 TO 2018  
MUNICIPAL PRIMARY**

STATION	ROUTE	LOCATION	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	
802	US 71	W OF MEMPHIS AVE SPIRIT LAKE	11530	11961	11827	11701	11723	11777	12076	11714	11665	11507	12385	
803	IA 12	ON VIADUCT E OF COURT ST SIOUX CITY	22228	NONE	NONE	22563	NONE	20642	NONE	NONE	NONE	NONE	NONE	
804	IA 4	N OF 4TH AVE NW POCAHONTAS	2950	2868	2965	3246	3290	3091	3094	3177	3229	3257	3242	
805	IA 148	S OF 11TH ST CORNING	2852	2867	2811	2797	2802	2637	2711	2720	2758	2620	2692	
806	US 6	E OF SHASTA WINDSOR HEIGHTS	19072	19481	NONE	NONE	18681	19223	18151	18610	18621	NONE	17937	
808	US 71	S OF BIRCH ST AUDUBON	4655	4769	NONE	NONE	4675	4601	4567	4545	NONE	NONE	4346	
809	IA 14	N OF WOODLAND ST MARSHALLTOWN	6164	6119	6228	6000	5836	5746	5641	5648	NONE	NONE	5517	
810	IA 92	W OF N ST INDIANOLA	10837	11024	11061	11036	11047	10985	11251	NONE	NONE	NONE	11457	
812	IA 122	W OF VIRGINIA AVE MASON CITY	11825	12186	11450	11754	11469	10842	10768	10542	10542	10238	NONE	
813	US 6	E OF PINE ST DAVENPORT	21686	21312	21935	21137	22050	20189	19925	NONE	20323	NONE	18872	
815	IA 922	BTWN WILEY BLVD & WESTDALE CDR RPDS	9551	10812	10940	10658	NONE	NONE	NONE	10989	11355	11637	11684	
816	US 34	W OF US 61 WEST BURLINGTON	13097	13168	13671	13076	13173	12909	NONE	NONE	NONE	NONE	14325	
819	IA 9	EAST OF 14TH ST OSAGE	5264	5237	5262	NONE	5207	5200	5244	5080	4946	NONE	4965	
820	IA 17	N OF NW 11TH ST EAGLE GROVE	2739	2722	2832	2898	2810	2891	NONE	NONE	2870	2901	NONE	
821	IA 4	S OF EDGEWOOD AVE E JEFFERSON	4074	4154	4138	3995	NONE	3832	3923	4093	4170	4139	4212	
823	US 6	BETWEEN SYCAMORE & 1ST AVE IOWA CITY	20946	20652	20543	20148	NONE	NONE	NONE	19998	20069	20967	21289	
824	US 69	BETWEEN 15TH AND 16TH ST AMES	17551	17318	18148	17567	NONE	17619	17298	17323	NONE	17099	17307	
826	US 65	1.5 MI NE OF I-80 BONDURANT	11761	12272	12608	12446	NONE	12817	12625	NONE	14483	14796	14858	
827	US 61/151	W OF MISSISSIPPI R DUBUQUE	20031	20744	21554	21609	21611	21381	21990	22069	22344	22726	22881	
828	IA 150	S OF 12TH ST OELWEIN	6295	6461	6550	6490	6354	6305	6196	6198	6167	6195	6206	
829	US 59	S OF 5TH AVE SHENANDOAH	9121	8694	8819	SITE REMOVED JUNE 2011								
830	IA 23	S OF IA 92 OSKALOOSA	2951	2871	2866	2808	2794	2742	NONE	2789	NONE	2656	2584	
831	IA 5	W OF FLUER DRIVE DES MOINES			NONE	23086	22771	22572	23262	NONE	NONE	29065	28024	
250	US 65	2.1 MI N OF IA 163 PLEASANT HILL	23942	24223	24789	24953	25083	25034	25599	27101	28598	29994	30739	
278	IA 141	0.5 MI N OF IA 44 GRIMES		20594	20395	20906	21762	21702	21922	23410	NONE	25970	27110	

**2018 EXPANSION FACTORS  
MUNICIPAL PRIMARY**

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
SEASONAL	1.138	1.088	1.030	0.976	0.924	0.914	0.933	0.934	0.965	0.971	1.027	1.066
Sunday	1.402	1.370	1.328	1.362	1.280	1.297	1.259	1.310	1.327	1.347	1.417	1.454
Monday	1.054	0.984	0.986	0.977	1.056	0.988	0.993	0.990	1.053	0.985	0.955	1.007
Tuesday	0.950	0.993	0.970	0.966	0.971	0.972	0.982	0.976	0.961	0.970	0.927	0.953
Wednesday	0.919	0.934	0.943	0.976	0.963	0.960	0.981	0.953	0.952	0.952	0.913	0.908
Thursday	0.922	0.919	0.929	0.923	0.927	0.937	0.936	0.937	0.915	0.928	0.979	0.902
Friday	0.859	0.870	0.862	0.864	0.862	0.873	0.865	0.874	0.846	0.856	0.880	0.855
Saturday	1.073	1.083	1.125	1.083	1.056	1.099	1.087	1.086	1.094	1.109	1.111	1.139

**ANNUAL AVERAGE DAILY TRAFFIC BY STATIONS FOR THE YEARS 2008 TO 2018**

**SECONDARY**

**PAVED**

STATION	ROUTE	LOCATION	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018
300	CO P14	2.7 MI N OF CO E33 CHURDAN	237	247	239	234	268	237	241	238	247	NONE	258
301	CO S14	0.8 MI S OF CO E29 NEVADA	975	973	958	988	988	965	967	969	992	1009	989
302	CO M55	0.2 MI N OF IA 141 MANILLA	739	736	739	777	798	787	793	804	818	NONE	763
303	CO K45	2.3 MI S OF IA 175 ONAWA	1106	1152	NONE	NONE	NONE	1162	1155	NONE	1120	1105	1051
304	CO V45	3.5 MI N OF IA 92 SIGOURNEY	617	636	665	652	NONE	646	631	636	643	663	671
306	CO E53	1.8 MI E OF IA 25 SCRANTON	520	544	NONE	NONE	524	497	507	530	539	NONE	526
307	CO R38	2.2 MI N OF CO C54 CLARION	1255	1240	1278	NONE	1339	1379	NONE	NONE	1421	1398	1376
308	CO N32	1.6 MI N OF IA 9 ESTHERVILLE	330	357	NONE	344	NONE	323	NONE	340	NONE	NONE	348
309	CO K52	1.5 MI S OF US 18 HULL	1001	1063	NONE	1149	1178	1228	1249	NONE	1379	NONE	1415
310	CO Y52	1.5 MI S OF US 30 GRAND MOUND	479	501	NONE	502	498	NONE	NONE	NONE	507	509	505
311	CO W12	3.5 MI S OF US 30 WATKINS	804	825	NONE	804	799	773	744	756	799	799	818
312	CO E26	2.7 MI W OF CO RD R38 BOONE	1213	1269	1395	NONE	1525	NONE	1481	1525	1630	NONE	1714
313	CO D42	0.2 MI E OF IA 13 MANCHESTER	679	691	702	630	612	623	679	699	756	783	769
314	CO 105	1.3 MI E OF CO S56 NORTHWOOD	775	778	800	767	744	737	731	772	754	NONE	708
315	CO RD	5.5 MI E OF US 63 DRAKESVILLE	656	676	675	665	682	666	665	679	691	NONE	768
316	CO D36	2.8 MI E OF CO N57 ROCKWELL CITY	3087	3155	3292	1201	1157	1014	974	949	NONE	NONE	929

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	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018
400	CO B30	0.5 MI E OF CO L48 PRIMGHAR	21	23	21	23	18	22	22	22	NONE	20	21
401	LOC RD	1.8 MI N OF CO E36 CLUTIER	31	30	36	36	39	34	35	NONE	NONE	30	29
402	LOC RD	0.8 MI E OF CO V18 CLUTIER	41	47	51	55	54	47	48	46	NONE	NONE	37
403	CO H47	5.0 MI SE OF US 34 ALBIA	88	98	89	92	104	100	NONE	100	99	102	93
405	LOC RD	2.5 MI N OF US 18 NEW HAMPTON	46	48	46	48	51	49	57	NONE	65	NONE	66
406	LOC RD	2.0 MI E OF US 169 LORIMOR	57	63	62	57	NONE	70	68	69	59	59	56
407	CO H23	2.0 MI E OF US 169 LORIMOR	68	70	75	66	76	77	75	72	67	70	65

**2018 EXPANSION FACTORS**

**SECONDARY**

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
SEASONAL	1.242	1.234	1.110	0.971	0.883	0.913	0.953	0.979	0.945	0.892	0.978	1.122
Sunday	1.417	1.351	1.342	1.353	1.295	1.317	1.364	1.313	1.270	1.329	1.447	1.443
Monday	1.045	0.998	0.971	0.950	1.045	0.965	0.955	0.970	1.032	0.975	0.969	0.986
Tuesday	0.956	0.979	0.965	0.957	0.961	0.958	0.945	0.955	0.956	0.957	0.906	0.940
Wednesday	0.914	0.933	0.930	0.989	0.957	0.953	0.946	0.937	0.962	0.946	0.920	0.899
Thursday	0.923	0.912	0.928	0.925	0.949	0.936	0.921	0.943	0.926	0.940	0.963	0.922
Friday	0.875	0.910	0.879	0.890	0.892	0.895	0.900	0.903	0.879	0.918	0.915	0.881
Saturday	1.058	1.084	1.144	1.088	1.048	1.117	1.140	1.122	1.100	1.074	1.082	1.153

**ANNUAL AVERAGE DAILY TRAFFIC BY STATIONS FOR THE YEARS 2008 TO 2018  
MUNICIPAL STREETS**

STATION	ROUTE	LOCATION	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018
900	LAKE ST	N OF 3RD ST in STORM LAKE	2756	2848	2811	NONE	2610	2587	2556	2616	2662	2570	2454
901	2ND AVE N	E OF 15TH ST in FORT DODGE	6775	6665	6728	6620	6444	6024	NONE	NONE	NONE	NONE	6243
902	LOCUST ST	E OF SPRING ST in DAVENPORT	21300	20726	20521	NONE	NONE	20336	19630	20177	19332	19515	18481
903	JEFFERSON	NE OF E 5TH ST in OTTUMWA	6272	6006	5694	NONE	5699	5628	NONE	5329	NONE	NONE	4367
904	JOHNSON	W OF JANICE DR in CEDAR RAPIDS	10000	9818	9613	9391	9258	9057	8931	NONE	NONE	NONE	NONE
905	N'WESTERN	N OF 20TH ST in AMES	2202	2264	NONE	2193	NONE	2211	2178	NONE	NONE	2131	2118
906	DUBUQUE	S OF DAVENPORT ST in IOWA CITY	14688	14411	14245	13859	13518	NONE	12861	13339	NONE	NONE	NONE
907	COLLEGE	S OF 23RD ST in CEDAR FALLS	NONE	NONE	NONE	7974	NONE	NONE	7410	7323	7177	7341	7195
908	LIND'WOOD	S OF 35TH ST in SIOUX CITY	969	977	954	976	960	NONE	NONE	NONE	904	874	784
909	HAMILTON	N OF CLIFTON AVE in SIOUX CITY	13854	14159	14586	14388	14584	NONE	13719	14701	15289	15446	15197
910	GRANDVIEW	SE OF PLYMOUTH CT in DUBUQUE	8596	8871	8946	8917	8833	8411	7983	8465	NONE	8541	8453
911	HUMBOLDT	S OF 4TH ST in BODE	776	770	767	739	NONE	684	695	665	660	673	696
912	ELM ST	N OF LUCAS ST in CRESTON	3798	3807	3782	3802	3735	3550	NONE	3364	3440	3310	3212
913	WASHINGTON	E OF HARRISON ST in MOUNT PLEASANT	10540	10161	SITE REMOVED SEPTEMBER 2010								
* 914	16TH ST	S OF AVE N in COUNCIL BLUFFS	9139	9057	8718	NONE	6004	5949	6208	9535	10236	10880	10876

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

**2018 EXPANSION FACTORS  
MUNICIPAL STREETS**

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
SEASONAL	1.114	1.058	1.026	0.957	0.953	0.975	1.008	0.971	0.954	0.947	1.021	1.085
Sunday	1.407	1.410	1.375	1.370	1.308	1.339	1.305	1.329	1.332	1.347	1.385	1.421
Monday	1.039	0.971	0.945	0.960	1.048	0.984	0.971	0.965	1.039	0.968	0.945	0.992
Tuesday	0.932	0.956	0.944	0.941	0.943	0.946	0.943	0.949	0.933	0.943	0.910	0.941
Wednesday	0.904	0.903	0.918	0.960	0.933	0.955	0.961	0.940	0.928	0.926	0.904	0.906
Thursday	0.905	0.917	0.913	0.913	0.917	0.939	0.939	0.948	0.915	0.931	0.979	0.910
Friday	0.875	0.885	0.887	0.883	0.890	0.888	0.898	0.892	0.865	0.889	0.915	0.877
Saturday	1.138	1.162	1.226	1.145	1.094	1.107	1.110	1.126	1.157	1.153	1.138	1.165



**ANNUAL AVERAGE DAILY TRAFFIC BY STATIONS FOR THE YEARS 2008 TO 2018**

**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

2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018
7877	8067	8213	8250	NONE	NONE	8284	8724	8741	8908	8867
3692	3922	3910	3801	3772	3711	3582	4041	4106	4112	4112
5293	6076	NONE	6130	6445	6697	NONE	7530	8418	8872	9185

**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.

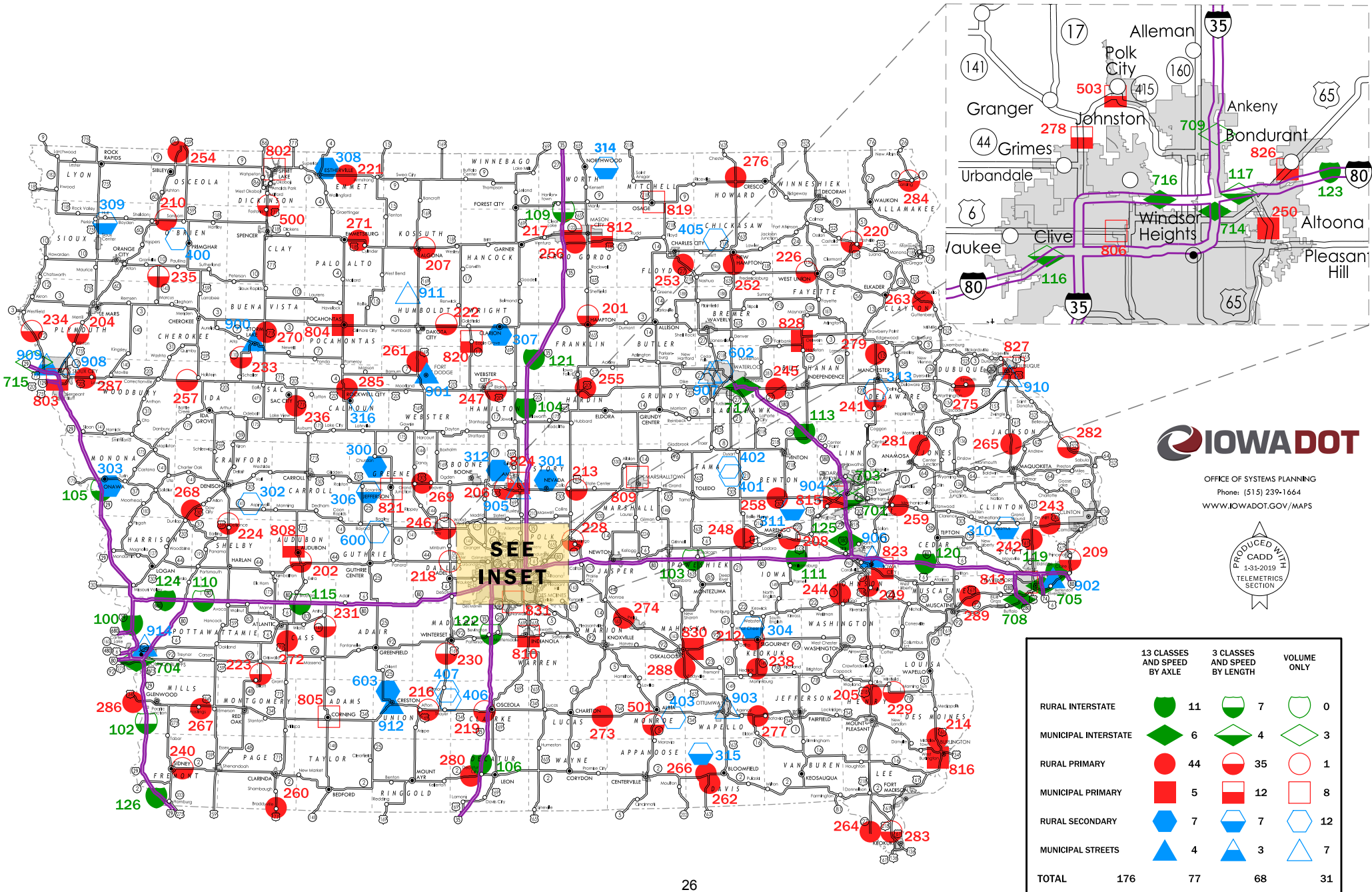
2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018
205	216	207	199	188	181	176	178	182	173	159
643	731	766	759	850	NONE	748	748	789	806	725
273	175	NONE	NONE	262	283	279	NONE	324	321	298

**2018 EXPANSION FACTORS  
RECREATIONAL**

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
<b>SEASONAL</b>	1.705	1.525	1.318	1.018	0.784	0.702	0.715	0.818	0.878	1.110	1.474	1.657
<b>Sunday</b>	1.174	1.117	1.072	1.060	0.936	0.939	0.958	0.976	0.931	1.089	1.249	1.294
<b>Monday</b>	1.112	1.068	0.995	1.051	1.075	1.153	1.074	1.199	1.080	1.073	1.026	1.004
<b>Tuesday</b>	1.070	1.059	1.048	1.133	1.192	1.143	1.101	1.160	1.256	1.098	0.984	0.951
<b>Wednesday</b>	0.995	1.013	1.023	1.165	1.197	1.156	1.126	1.099	1.217	1.049	0.968	0.946
<b>Thursday</b>	1.009	1.042	0.994	1.009	1.078	1.072	1.103	1.074	1.098	1.018	0.981	0.973
<b>Friday</b>	0.916	0.944	0.931	0.937	0.900	0.897	0.920	0.891	0.900	0.897	0.907	0.925
<b>Saturday</b>	0.895	0.920	1.037	0.896	0.866	0.869	0.883	0.844	0.848	0.957	1.003	1.054

# AUTOMATIC TRAFFIC RECORDER LOCATIONS

JANUARY 1, 2019



**IOWA DOT**  
 OFFICE OF SYSTEMS PLANNING  
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