

RALPH
SPEAR
IA CITY
FY 10'30

STATE OF IOWA

Average Traffic Expansion Factors By Road System
Derived From Permanent Automatic Traffic Recorder Data

1968 - 1970

Prepared By
Highway Planning Surveys Department
Division of Planning
Iowa State Highway Commission
In Cooperation With The
U.S. Department of Transportation
Federal Highway Administration

STATE OF IOWA
HIGHWAY PLANNING SURVEYS DEPARTMENT DIVISION OF PLANNING
IOWA STATE HIGHWAY COMMISSION

Average Traffic Expansion Factors
Derived From 23 Permanent Automatic Traffic Recorder Locations 1/
Rural Primary Road System

1968 - 1970

Item	Month												All Year
	Jan.	Feb.	March	April	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	
Average 24 Hour Weekday Traffic	2071	2253	2417	2532	2668	2826	2854	2944	2711	2601	2539	2420	2570
Average 24 Hour Daily Traffic	2032	2249	2437	2559	2703	2883	2892	3002	2740	2645	2538	2356	2586
Ratio of Annual Daily Traffic to: Monthly Weekday Traffic	1.249	1.148	1.070	1.021	0.962	0.915	0.924	0.878	0.954	0.994	1.017	1.065	
Ratio of Monthly Weekday Traffic to: 8 Hour (8AM-4PM) Month Weekday	1.959	2.006	2.028	2.059	2.098	2.075	2.130	2.054	2.070	2.046	2.028	1.960	
8 Hour (7AM-11AM) and (2PM-6PM) Month Weekday	1.890	1.887	1.905	1.933	1.975	2.011	2.079	2.001	1.953	1.921	1.912	1.907	
16 Hour (6AM-10PM) Month Weekday	1.118	1.117	1.117	1.119	1.116	1.125	1.151	1.120	1.115	1.115	1.115	1.112	
Ratio of Annual Daily Traffic to: 8 Hour (8AM-4PM) Month Weekday	2.447	2.303	2.170	2.102	2.033	1.899	1.930	1.805	1.974	2.035	2.066	2.094	
8 Hour (7AM-11PM) and (2PM-6PM) Month Weekday	2.360	2.166	2.038	1.974	1.914	1.841	1.884	1.758	1.863	1.910	1.947	2.038	
16 Hour (6AM-10PM) Month Weekday	1.396	1.282	1.196	1.143	1.082	1.030	1.043	0.984	1.064	1.108	1.135	1.188	

1/ Data for the following stations was not used in this table:

1970 - 617-27, 624-05, 630-32, 636-83

1969 - 604-19, 614-48, 624-05, 627-09, 630-32

1968 - 607-19, 618-35, 626-03, 627-09

Station 628-21 has been tabulated separately for use with rural primary recreational traffic.

STATE OF IOWA
HIGHWAY PLANNING SURVEYS DEPARTMENT DIVISION OF PLANNING
IOWA STATE HIGHWAY COMMISSION

Average Day of Week Adjustment Factors
Derived From 23 Permanent Automatic Traffic Recorder Locations^{1/}
Rural Primary Road System

1968-1970

Month	Monday	Tuesday	Wednesday	Thursday	Friday
January	1.004	0.986	1.088	1.063	0.884
February	1.023	1.029	1.037	1.031	0.896
March	1.026	1.053	1.037	1.033	0.876
April	1.005	1.061	1.055	1.013	0.887
May	1.054	1.065	1.034	0.988	0.882
June	1.006	1.045	1.042	1.038	0.888
July	1.017	1.067	1.016	1.001	0.912
August	1.019	1.051	1.037	1.021	0.890
September	1.014	1.051	1.050	1.028	0.879
October	1.025	1.068	1.056	1.025	0.857
November	1.073	1.058	0.972	1.032	0.889
December	1.003	1.008	1.012	1.043	0.938

^{1/} Data for the following stations was not used in this table: 1970 - 617-27, 624-05, 630-32, 636-83
1969 - 604-77, 614-48, 624-05, 627-09, 630-32
1968 - 607-19, 618-35, 626-03, 627-09
Station 628-21 has been tabulated separately for use with rural primary recreational traffic.

STATE OF IOWA
HIGHWAY PLANNING SURVEYS DEPARTMENT DIVISION OF PLANNING
IOWA STATE HIGHWAY COMMISSION

Average Traffic Expansion Factors
Derived From A Permanent Automatic Traffic Recorder Location
Primary Road System - Rural Recreational*

1968 - 1970

Item	Month												All Year
	Jan.	Feb.	March	April	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	
Average 24 Hour Weekday Traffic	3109	3101	3361	3862	4520	5645	6123	6264	5151	3895	3740	3616	4366
Average 24 Hour Daily Traffic	3062	3162	3388	4022	4817	6027	6525	6603	5381	3943	3710	3514	4513
Ratio of Annual Daily Traffic To: Monthly Weekday Traffic	1.452	1.455	1.343	1.169	0.999	0.800	0.737	0.721	0.876	1.159	1.207	1.248	
Ratio of Monthly Weekday Traffic to: 8 Hour (8AM-4PM) Month Weekday	1.919	1.963	2.002	2.034	2.148	2.113	2.113	2.065	2.065	1.993	1.999	1.953	
8 Hour (7AM-11AM) and (2PM-6PM) Month Weekday	1.833	1.859	1.890	1.903	2.023	2.077	2.114	2.067	1.939	1.881	1.901	1.907	
16 Hour (6AM-10PM) Month Weekday	1.094	1.092	1.090	1.093	1.112	1.120	1.126	1.111	1.096	1.085	1.096	1.092	
Ratio of Annual Daily Traffic to: 8 Hour (8AM-4PM) Month Weekday	2.786	2.856	2.688	2.377	2.145	1.689	1.557	1.488	1.810	2.310	2.412	2.437	
8 Hour (7AM-11AM) and (2PM-6PM) Month Weekday	2.661	2.706	2.538	2.223	2.020	1.660	1.558	1.489	1.699	2,179	2.294	2.380	
16 Hour (6AM-10PM) Month Weekday	1.587	1.590	1.463	1.277	1.110	0.895	0.830	0.800	0.960	1.258	1.322	1.362	

* Recorder located on U.S. 71 near south city limits of Fostoria, Dickinson County.

STATE OF IOWA
HIGHWAY PLANNING SURVEYS DEPARTMENT DIVISION OF PLANNING
IOWA STATE HIGHWAY COMMISSION

Average Day of Week Adjustment Factors
Derived From A Permanent Automatic Traffic Recorder Location
Primary Road System - Rural Recreational*

1968-1970

Month	Monday	Tuesday	Wednesday	Thursday	Friday
January	1.084	0.975	1.107	1.036	0.877
February	1.054	0.991	1.024	1.024	0.915
March	1.071	1.018	1.028	1.053	0.861
April	1.062	1.042	1.043	1.012	0.868
May	1.136	1.080	1.053	0.965	0.829
June	1.070	1.031	1.011	1.026	0.884
July	1.088	1.081	1.030	0.985	0.855
August	1.064	1.033	1.012	1.037	0.878
September	0.990	1.055	1.052	1.038	0.889
October	1.065	1.041	1.025	1.027	0.867
November	1.105	1.049	1.013	1.045	0.846
December	1.063	0.970	1.003	1.068	0.912

* Recorder located on U.S. 71 near south city limits of Fostoria, Dickinson County.

STATE OF IOWA
HIGHWAY PLANNING SURVEYS DEPARTMENT DIVISION OF PLANNING
IOWA STATE HIGHWAY COMMISSION

Average Traffic Expansion Factors
Derived From Four Permanent Automatic Traffic Recorder Locations
Interstate System 1/
1968 - 1970

Item	Month												All Year
	Jan.	Feb.	March	April	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	
Average 24 Hour Weekday Traffic	5211	5576	6047	6384	7135	8622	9387	9918	8184	7143	6848	6579	7253
Average 24 Hour Daily Traffic	5290	5732	6361	6748	7546	9364	10052	10638	8641	7583	7167	6719	7653
Ratio of Annual Daily Traffic to: Monthly Weekday Traffic	1.469	1.373	1.266	1.199	1.073	0.888	0.815	0.772	0.935	1.071	1.118	1.163	
Ratio of Monthly Weekday Traffic to: 8 Hour (8AM-4PM) Month Weekday	2.125	2.188	2.163	2.184	2.222	2.154	2.148	2.147	2.210	2.211	2.211	2.095	
8 Hour (7AM-11AM) and (2PM-6PM) Month Weekday	1.987	2.031	2.003	2.036	2.122	2.128	2.137	2.137	2.103	2.105	2.056	2.046	
16 Hour (6AM-10PM) Month Weekday	1.149	1.172	1.152	1.153	1.159	1.162	1.162	1.162	1.166	1.174	1.163	1.157	
Ratio of Annual Daily Traffic to: 8 Hour (8AM-4PM) Month Weekday	3.121	3.002	2.737	2.618	2.383	1.912	1.751	1.657	2.066	2.369	2.471	2.437	
8 Hour (7AM-11AM) and (2PM-6PM) Month Weekday	2.918	2.788	2.535	2.440	2.276	1.889	1.743	1.649	1.966	2.255	2.298	2.380	
16 Hour (6AM-10PM) Month Weekday	1.688	1.609	1.458	1.382	1.243	1.031	0.948	0.897	1.090	1.258	1.299	1.346	

1/ Data was collected from two locations, 638-78 and 639-77, for three years, and, from two locations, 641-40 and 642-67, for two years.

STATE OF IOWA
HIGHWAY PLANNING SURVEYS DEPARTMENT DIVISION OF PLANNING
IOWA STATE HIGHWAY COMMISSION

Average Day of Week Adjustment Factors
Derived From Four Permanent Automatic Traffic Recorder Locations
Interstate System 1/

1968-1970

Month	Monday	Tuesday	Wednesday	Thursday	Friday
January	1.043	1.005	1.083	1.044	0.859
February	1.071	1.093	1.041	0.980	0.856
March	1.036	1.081	1.057	1.028	0.840
April	0.993	1.108	1.111	1.008	0.835
May	1.103	1.124	1.069	0.938	0.832
June	1.003	1.084	1.078	1.047	0.835
July	0.992	1.111	1.093	1.001	0.849
August	1.027	1.084	1.067	1.017	0.846
September	0.932	1.087	1.100	1.056	0.870
October	1.117	1.090	1.045	0.992	0.817
November	1.131	1.125	0.953	0.988	0.857
December	1.032	1.062	1.008	1.020	0.895

1/ Data was collected from two locations, 638-78 and 639-77, for three years, and from two locations, 641-40 and 642-67, for two years.

STATE OF IOWA
HIGHWAY PLANNING SURVEYS DEPARTMENT DIVISION OF PLANNING
IOWA STATE HIGHWAY COMMISSION

Average Traffic Expansion Factors
Derived From A Permanent Automatic Recorder Location
Interstate Station 638-78

1968 - 1970

Item	Month												All Year
	Jan.	Feb.	March	April	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	
Average 24 Hour Weekday Traffic	7981	8538	9071	9616	10955	13519	14945	15621	12954	10546	9931	9629	11109
Average 24 Hour Daily Traffic	8050	8752	9514	10164	11629	14737	16069	16787	13531	11154	10317	9806	11709
Ratio of Annual Daily Traffic to: Monthly Weekday Traffic	1.467	1.371	1.291	1.218	1.069	0.866	0.784	0.750	0.904	1.110	1.179	1.216	
Ratio of Monthly Weekday Traffic to: 8 Hour (8AM-4PM) Month Weekday	2.153	2.274	2.196	2.220	2.250	2.182	2.165	2.180	2.215	2.208	2.231	2.170	
8 Hour (7AM-11AM) and (2PM-6PM) Month Weekday	2.026	2.110	2.032	2.068	2.187	2.172	2.166	2.184	2.141	2.137	2.095	2.115	
16 Hour (6AM-10PM) Month Weekday	1.156	1.201	1.157	1.158	1.164	1.174	1.170	1.172	1.175	1.174	1.172	1.175	
Ratio of Annual Daily Traffic to: 8 Hour (8AM-4PM)	3.159	3.119	2.834	2.703	2.404	1.890	1.697	1.634	2.002	2.451	2.630	2.638	
8 Hour (7AM-11AM) and (2PM-6PM) Month Weekday	2.972	2.894	2.623	2.518	2.338	1.881	1.697	1.637	1.935	2.373	2.470	2.572	
16 Hour (6AM-10PM) Month Weekday	1.697	1.646	1.493	1.410	1.244	1.017	0.917	0.878	1.062	1.304	1.382	1.429	

STATE OF IOWA
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IOWA STATE HIGHWAY COMMISSION

Average Day of Week Adjustment Factors
Derived From A Permanent Automatic Traffic Recorder Location
Interstate Station 638-78

1968-1970

Month	Monday	Tuesday	Wednesday	Thursday	Friday
January	1.070	1.013	1.070	1.059	0.834
February	1.029	1.075	1.032	1.015	0.875
March	0.998	1.099	1.066	1.038	0.842
April	0.992	1.099	1.081	1.014	0.854
May	1.101	1.115	1.058	0.950	0.836
June	1.001	1.071	1.080	1.034	0.851
July	0.961	1.084	1.096	1.021	0.872
August	1.052	1.056	1.039	0.985	0.889
September	0.995	1.065	1.080	0.995	0.889
October	1.070	1.083	1.037	0.973	0.870
November	1.109	1.120	0.930	0.969	0.910
December	1.051	1.089	1.012	0.984	0.888

STATE OF IOWA
HIGHWAY PLANNING SURVEYS DEPARTMENT DIVISION OF PLANNING
IOWA STATE HIGHWAY COMMISSION

Average Traffic Expansion Factor
Derived From A Permanent Automatic Traffic Reocorder Location
Interstate Station 639-77

1968 - 1970

Item	Month												All Year
	Jan.	Feb.	March	April	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	
Average 24 Hour Weekday Traffic	5048	5234	5531	5804	6357	7231	7681	8240	7139	6971	6832	6473	6545
Average 24 Hour Daily Traffic	5115	5406	5804	6116	6685	7661	8017	8628	7459	7279	7109	6639	6827
Ratio of Annual Daily Traffic to: Monthly Weekday Traffic	1.352	1.304	1.234	1.176	1.074	0.944	0.889	0.829	0.956	0.979	0.999	1.055	
Ratio of Monthly Weekday Traffic to: 8 Hour (8AM-rPM) Month Weekday	2.186	2.237	2.279	2.323	2.348	2.259	2.277	2.269	2.359	2.370	2.301	2.175	
8 Hour (7AM-11AM) and (2PM-6PM) Month Weekday	1.921	1.953	1.966	2.026	2.070	2.080	2.116	2.101	2.060	2.106	1.994	1.976	
16 Hour (6AM-10PM) Month Weekday	1.144	1.154	1.155	1.156	1.159	1.153	1.163	1.163	1.165	1.195	1.159	1.147	
Ratio of Annual Daily Traffic to: 8 Hour (8AM-4PM) Month Weekday	2.957	2.918	2.813	2.732	2.521	2.133	2.023	1.880	2.256	2.321	2.299	2.294	
8 Hour (7AM-11AM) and (2OM-6PM) Month Weekday	2.598	2.547	2.426	2.383	1.223	1.964	1.881	1.741	.970	.063	1.993	2.084	
16 Hour (6AM-1PM) Month Weekday	1.547	1.506	1.426	1.360	1.244	1.089	1.034	0.963	1.114	1.170	1.158	1.210	

STATE OF IOWA
HIGHWAY PLANNING SURVEYS DEPARTMENT DIVISION OF PLANNING
IOWA STATE HIGHWAY COMMISSION

Average Day of Week Adjustment Factors
Derived From A Permanent Automatic Traffic Recorder Location
Interstate Station 639-77

1968-1970

Month	Monday	Tuesday	Wednesday	Thursday	Friday
January	1.005	0.994	1.103	1.023	0.898
February	1.091	1.090	1.022	0.985	0.854
March	1.031	1.058	1.054	1.027	0.859
April	0.994	1.094	1.099	0.992	0.861
May	1.082	1.125	1.031	0.952	0.857
June	0.999	1.050	1.038	1.043	0.888
July	1.013	1.079	1.032	1.000	0.895
August	1.011	1.072	1.050	1.011	0.880
September	0.989	1.054	1.053	1.033	0.893
October	1.031	1.065	1.036	1.034	0.862
November	1.110	1.083	0.950	0.978	0.907
December	1.018	1.033	1.022	1.041	0.901

STATE OF IOWA
HIGHWAY PLANNING SURVEYS DEPARTMENT DIVISION OF PLANNING
IOWA STATE HIGHWAY COMMISSION

Average Traffic Expansion Factors
Derived From A Permanent Automatic Traffic Recorder Location
Interstate Station 641-40

1969 - 1970

Item	Month												All Year
	Jan.	Feb.	March	April	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	
Average 24 Hour Weekday Traffic	3754	4176	5048	5135	5383	6290	6593	7194	5816	5087	5119	4957	5379
Average 24 Hour Daily Traffic	3874	4328	5363	5464	5656	6892	7106	7801	6262	5568	5426	5014	5730
Ratio of Annual Daily Traffic to: Monthly Weekday Traffic	1.526	1.372	1.135	1.116	1.065	0.911	0.869	0.797	0.986	1.126	1.119	1.156	
Ratio of Monthly Weekday Traffic to: 8 Hour (8AM-4PM) Month Weekday	2.004	1.991	2.004	2.004	2.071	1.990	1.994	1.986	2.013	2.000	2.053	1.818	
8 Hour (7AM-11AM) and (2PM-6PM) Month Weekday	1.988	1.974	1.987	1.988	2.066	2.057	2.076	2.066	2.022	1.972	2.004	1.965	
16 Hour (6AM-10PM) Month Weekday	1.139	1.142	1.139	1.139	1.150	1.144	1.143	1.142	1.139	1.139	1.144	1.129	
Ratio of Annual Daily Traffic to: 8 Hour (8AM-4PM) Month Weekday	3.059	2.733	2.275	2.237	2.205	1.813	1.733	1.582	1.983	2.253	2.298	2.101	
8 Hour (7AM-11AM) and (2PM-6PM) Month Weekday	3.035	2.708	2.256	2.218	2.199	1.874	1.804	1.645	1.992	2.221	2.244	2.271	
16 Hour (6AM-10PM) Month Weekday	1.739	1.567	1.293	1.271	1.224	1.042	0.994	0.909	1.122	1.283	1.281	1.305	

STATE OF IOWA
HIGHWAY PLANNING SURVEYS DEPARTMENT DIVISION OF PLANNING
IOWA STATE HIGHWAY COMMISSION

Average Traffic Expansion Factors
Derived From A Permanent Automatic Traffic Recorder Location
Interstate Station 642-67
1969 - 1970

Item	Month												All Year
	Jan.	Feb.	March	April	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	
Average 24 Hour Weekday Traffic	2758	3047	3285	3657	4322	5693	6402	6605	4968	4351	3980	3783	4404
Average 24 Hour Daily Traffic	2826	3092	3463	3856	4602	6333	7027	7266	5459	4700	4271	3914	4734
Ratio of Annual Daily Traffic to: Monthly Weekday Traffic	1.717	1.554	1.441	1.295	1.095	0.832	0.740	0.717	0.953	1.088	1.189	1.251	
Ratio of Monthly Weekday Traffic to: 8 Hour (8AM-4PM) Month Weekday	2.024	2.025	2.024	2.023	2.070	2.063	2.047	2.015	2.142	2.141	2.142	2.038	
8 Hour (7AM-11AM) and (2PM-6PM) Month Weekday	2.007	2.007	2.008	2.004	2.070	2.148	2.142	2.126	2.151	2.151	2.150	2.088	
16 Hour (6AM-10PM) Month Weekday	1.147	1.147	1.147	1.142	1.153	1.158	1.155	1.151	1.163	1.163	1.163	1.153	
Ratio of Annual Daily Traffic to: 8 Hour (8AM-4PM) Month Weekday	3.473	3.146	2.917	2.618	2.267	1.716	1.514	1.444	2.041	2.330	2.548	2.551	
8 Hour (7AM-11AM) and (2PM-6PM) Month Weekday	3.445	3.119	2.894	2.594	2.267	1.786	1.584	1.524	2.049	2.340	2.558	2.613	
16 Hour (6AM-10_M) Month Weekday	1.968	1.782	1.652	1.478	1.262	0.963	0.854	0.825	1.108	1.265	1.383	1.443	

STATE OF IOWA
HIGHWAY PLANNING SURVEYS DEPARTMENT DIVISION OF PLANNING
IOWA STATE HIGHWAY COMMISSION

Average Traffic Expansion Factors
Derived From Eight Permanent Automatic Recorder Locations 1/
Secondary Road System
1968-1970

Item	Month												All Year
	Jan.	Feb.	March	April	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	
Average 24 Hour Weekday Traffic	317	368	388	427	459	467	458	460	452	452	443	378	422
Average 24 Hour Daily Traffic	314	362	387	429	460	468	456	455	455	449	440	362	420
Ratio of Annual Daily Traffic to: Monthly Weekday Traffic	1.325	1.141	1.083	0.984	0.915	0.899	0.917	0.913	0.929	0.929	0.948	1.111	
Ratio of Monthly Weekday Traffic to: 8 Hour (8AM-4PM) Month Weekday	1.832	1.868	1.902	1.968	2.077	2.039	2.054	2.035	2.000	1.940	1.877	1.853	
8 Hour (7AM-11AM) and (2PM-6PM) Month Weekday	1.751	1.752	1.756	1.787	1.897	1.946	1.957	1.941	1.853	1.794	1.751	1.775	
16 Hour (6AM-10PM) Month Weekday	1.078	1.073	1.072	1.070	1.085	1.089	1.091	1.085	1.076	1.069	1.070	1.071	
Ratio of Annual Daily Traffic to: 8 Hour (8AM-4PM) Month Weekday	2.428	2.132	2.059	1.936	1.901	1.834	1.883	1.858	1.858	1.803	1.780	2.059	
8 Hour (7AM-11AM) and (2PM-6PM) Month	2.320	2.000	1.901	1.757	1.736	1.750	1.795	1.772	1.721	1.667	1.660	1.972	
16 Hour (6AM-10PM) Month Weekday	1.429	1.225	1.160	1.053	0.993	0.979	1.000	0.991	1.000	0.993	1.015	1.190	

1/ Automatic recorder data used in this table was derived from recorders 602-37, 606-85, 612-02, 613-40, 621-67, 634-71, 637-86, 652-54 for the years 1969 and 1970; in 1968 recorders 602-37, 612-02, 613-40, and 637-86 were used.

STATE OF IOWA
HIGHWAY PLANNING SURVEYS DEPARTMENT DIVISION OF PLANNING
IOWA STATE HIGHWAY COMMISSION

Average Day of Week Adjustment Factors
Derived From Eight Permanent Automatic Traffic Recorder Locations 1/
Secondary Road System

1968-1970

Month	Monday	Tuesday	Wednesday	Thursday	Friday
January	0.973	0.971	1.063	1.099	0.901
February	1.005	0.901	1.014	1.061	0.984
March	1.005	0.998	0.988	1.095	0.927
April	0.968	1.010	1.045	1.034	0.918
May	0.965	1.018	1.011	1.012	0.954
June	1.007	1.031	1.011	1.011	0.954
July	1.018	0.991	0.992	1.008	0.960
August	0.948	1.027	1.013	1.061	0.963
September	1.035	1.008	1.022	1.006	0.922
October	0.985	0.961	1.019	1.068	0.956
November	1.031	1.040	0.987	1.044	0.909
December	1.023	1.021	0.984	1.027	0.953

1/ Automatic recorder data used in this table was derived from recorders 602-37, 606-85, 612-02, 613-40, 621-67, 634-71, 637-86 and 652-54 for the years 1969 and 1970; in 1968 recorders 602-37, 612-02, 613-40 and 637-86 were used.

STATE OF IOWA
HIGHWAY PLANNING SURVEYS DEPARTMENT DIVISION OF PLANNING
IOWA STATE HIGHWAY COMMISSION

Average Day of Week Adjustment Factors
Derived From A Permanent Automatic Traffic Recorder Location
Farm Lane

1968-1970

Month	Monday	Tuesday	Wednesday	Thursday	Friday
January	1.120	0.958	1.221	0.797	0.706
February	0.945	1.085	1.066	0.992	1.018
March	1.164	0.994	0.965	0.853	0.823
April	0.955	0.870	1.161	0.950	1.010
May	0.935	1.113	0.971	0.874	0.982
June	1.291	0.989	1.127	0.850	0.964
July	1.033	0.894	0.955	0.906	0.818
August	0.790	0.928	0.904	0.888	0.810
September	1.140	0.881	0.926	0.968	0.940
October	1.052	1.091	1.004	1.114	0.992
November	0.896	1.052	0.863	1.116	0.992
December	0.938	0.907	0.930	0.820	0.873

STATE OF IOWA
HIGHWAY PLANNING SURVEYS DEPARTMENT DIVISION OF PLANNING
IOWA STATE HIGHWAY COMMISSION

Average Traffic Expansion Factors
Derived From A Permanent Automatic Traffic Recorder Located On A Local Street
Adel - 1970 Population 2,419

1968-1970

Item	Month												All Year
	Jan.	Feb.	March	April	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	
Average 24 Hour Weekday Traffic	1063	1200	1217	1207	1228	1282	1309	1310	1217	1251	1290	1262	1236
Average 24 Hour Daily Traffic	1059	1198	1226	1201	1211	1271	1287	1295	1211	1221	1283	1240	1225
Ratio of Annual Daily Traffic to: Monthly Weekday Traffic	1.152	1.012	1.007	1.015	0.998	0.956	0.936	0.935	1.007	0.979	0.950	0.971	
Ratio of Monthly Weekday Traffic to: 8 Hour (8AM-4PM) Month Weekday	2.002	2.091	2.117	2.159	2.185	2.177	2.222	2.213	2.113	2.071	2.028	2.052	
8 Hour (7AM-11AM) and (2PM-6PM) Month Weekday	1.811	1.838	1.833	1.880	1.962	2.151	2.122	2.047	1.935	1.901	1.822	1.842	
16 Hour (6AM-10PM) Month Weekday	1.063	1.063	1.063	1.068	1.082	1.099	1.088	1.082	1.073	1.074	1.071	1.070	
Ratio of Annual Daily Traffic to: 8 Hour (8AM-4PM) Month Weekday	2.307	2.134	2.130	2.191	2.180	2.080	2.080	2.069	2.127	2.028	1.926	1.992	
8 Hour (7AM-11AM) and (2PM-6PM) Month Weekday	2.087	1.876	1.845	1.908	1.957	2.055	1.985	1.914	1.948	1.862	1.730	1.788	
16 Hour (6AM-10PM) Month Weekday	1.225	1.085	1.070	1.084	1.079	1.050	1.018	1.012	1.080	1.052	1.017	1.038	

STATE OF IOWA
HIGHWAY PLANNING SURVEYS DEPARTMENT DIVISION OF PLANNING
IOWA STATE HIGHWAY COMMISSION

Average Traffic Expansion Factors
Derived From A Permanent Automatic Traffic Recorder Located
On A Major City Street
Ames - 1970 Population 39,505

1968-1970

Item	Month												All Year
	Jan.	Feb.	March	April	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	
Average 24 Hour Weekday Traffic	3068	3121	3101	3252	3265	3106	2818	2605	2743	2743	2690	2744	2938
Average 24 Hour Daily Traffic	2790	2842	2803	2935	2919	2712	2457	2303	2447	2449	2388	2474	2627
Ratio of Annual Daily Traffic to: Monthly Weekday Traffic	0.856	0.842	0.847	0.808	0.805	0.846	0.932	1.008	0.958	0.958	0.977	0.957	
Ratio of Monthly Weekday Traffic to: 8 Hour (8AM-4PM) Month Weekday	1.782	1.787	1.760	1.789	1.768	1.716	1.714	1.746	1.780	1.775	1.758	1.744	
8 Hour (7AM-11AM) and (2PM-6PM) Month Weekday	1.827	1.831	1.849	1.874	1.874	1.928	1.935	1.972	1.869	1.848	1.850	1.853	
16 Hour (6AM-10PM) Month Weekday	1.060	1.057	1.057	1.065	1.063	1.061	1.066	1.066	1.065	1.064	1.062	1.053	
Ratio of Annual Daily Traffic to: 8 Hour (8AM-4PM) Month Weekday	1.526	1.504	1.491	1.445	1.422	1.451	1.598	1.761	1.705	1.700	1.717	1.670	
8 Hour (7AM-11AM) and (2PM-6PM) Month Weekday	1.565	1.541	1.567	1.514	1.508	1.631	1.804	1.989	1.790	1.770	1.807	1.774	
16 Hour (6AM-10PM) Month Weekday	0.908	0.889	0.895	0.860	0.855	0.897	0.994	1.075	1.020	1.019	1.038	1.008	

STATE OF IOWA
HIGHWAY PLANNING SURVEYS DEPARTMENT DIVISION OF PLANNING
IOWA STATE HIGHWAY COMMISSION

Average Traffic Expansion Factors
Derived From A Permanent Automatic Traffic Recorder Located
On A Major City Street 1/
Cedar Rapids - 1970 Population 110,642

1966-1968

Item	Month												All Year
	Jan.	Feb.	March	April	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	
Average 24 Hour Weekday Traffic	11800	12765	12517	13379	12845	13592	13766	14000	13042	13527	13147	12913	13108
Average 24 Hour Daily Traffic	11303	12372	12132	12984	12498	13063	13205	13363	12597	13032	12621	12358	12627
Ratio of Annual Daily Traffic to: Monthly Weekday Traffic	1.070	0.989	1.009	0.944	0.983	0.929	0.917	0.902	0.968	0.934	0.960	0.978	
Ratio of Monthly Weekday Traffic to: 8 Hour (8AM-4PM) Month Weekday	2.240	2.304	2.281	2.281	2.295	2.298	2.315	2.312	2.285	2.266	2.206	2.194	
8 Hour (7AM-11AM) and (2PM-6PM) Month Weekday	1.908	1.953	1.925	1.946	1.976	2.021	2.043	2.023	1.947	1.922	1.923	1.946	
16 Hour (6AM-10PM) Month Weekday	1.111	1.136	1.104	1.102	1.103	1.109	1.109	1.104	1.099	1.098	1.100	1.107	
Ratio of Annual Daily Traffic to: 8 Hour (8AM-4PM) Month Weekday	2.397	2.279	2.301	2.153	2.256	2.135	2.123	2.085	2.212	2.115	2.119	2.145	
8 Hour (7AM-11AM) and (2PM-6PM) Month Weekday	2.042	1.932	1.942	1.836	1.942	1.877	1.874	1.825	1.885	1.794	1.874	1.903	
16 Hour (6AM-10PM) Month Weekday	1.189	1.123	1.114	1.040	1.084	1.030	1.018	0.996	1.064	1.025	1.056	1.082	

1/ This station was not in operation in 1969 or 1970 due to construction.

STATE OF IOWA
HIGHWAY PLANNING SURVEYS DEPARTMENT DIVISION OF PLANNING
IOWA STATE HIGHWAY COMMISSION

Average Traffic Expansion Factors
Derived From A Permanent Automatic Traffic Recorder Located
On A Major Street On The Primary Road System
Charles City - 1970 Population 9,268
1968-1970

Item	Month												All Year
	Jan.	Feb.	March	April	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	
Average 24 Hour Weekday Traffic	6812	7167	7638	8188	8559	8995	9080	8998	8053	7982	7747	7268	8041
Average 24 Hour Daily Traffic	6727	7136	7677	8171	8509	8896	8959	8939	8039	7908	7640	7053	7971
Ratio of Annual Daily Traffic to: Monthly Weekday Traffic	1.170	1.112	1.044	0.974	0.931	0.886	0.878	0.886	0.990	0.999	1.029	1.097	
Ratio of Monthly Weekday Traffic to; 8 Hour (8AM-4PM) Month Weekday	2.042	2.080	2.124	2.115	2.160	2.190	2.134	2.132	2.134	2.114	2.084	2.007	
8 Hour (7AM-11AM) and (2PM-6PM) Month Weekday	2.008	2.004	2.056	2.057	2.107	2.228	2.190	2.173	2.061	2.047	2.015	2.040	
16 Hour (6AM-10PM) Month Weekday	1.113	1.108	1.112	1.106	1.112	1.119	1.113	1.113	1.103	1.105	1.103	1.108	
Ratio of Annual Daily Traffic to: 8 Hour (8AM-4PM) Month Weekday	2.389	2.313	2.217	2.059	2.012	1.941	1.873	1.888	2.113	2.112	2.145	2.201	
8 Hour (7AM-11AM) and (2PM-6OM) Month Weekday	2.350	2.228	2.146	2.003	1.962	1.975	1.922	1.925	2.040	2.044	2.073	2.238	
16 Hour (6AM-10PM) Month Weekday	1.303	1.233	1.161	1.076	1.036	0.992	0.977	0.986	1.092	1.103	1.135	1.216	

STATE OF IOWA
HIGHWAY PLANNING SURVEYS DEPARTMENT DIVISION OF PLANNING
IOWA STATE HIGHWAY COMMISSION

Average Traffic Expansion Factors
Derived From A Permanent Automatic Traffic Recorder Located
On A Major Cross Town Street 1/
Davenport - 1970 Population 98,469
1966 - 1968

Item	Month												All Year
	Jan.	Feb.	March	April	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	
Average 24 Hour Weekday Traffic	10652	11076	11903	12073	12436	12741	12242	11648	11471	11841	12034	11890	11834
Average 24 Hour Daily Traffic	10618	11053	11886	12039	12365	12481	11931	11424	11411	11724	11899	11730	11713
Ratio of Annual Daily Traffic to: Monthly Weekday Traffic	1.100	1.058	0.984	0.970	0.942	0.919	0.957	1.006	1.021	0.989	0.973	0.985	
Ratio of Monthly Weekday Traffic to: 8 Hour (8AM-4PM) Month Weekday	2.320	2.364	2.362	2.334	2.416	2.359	2.348	2.356	2.394	2.362	2.301	2.299	
8 Hour (7AM-11AM) and (2PM-6PM) Month Weekday	1.958	1.958	1.967	1.996	2.040	2.128	2.139	2.128	2.012	1.987	2.006	2.048	
16 Hour (6AM-10PM) Month Weekday	1.095	1.096	1.090	1.091	1.091	1.102	1.105	1.107	1.092	1.094	1.103	1.103	
Ratio of Annual Daily Traffic to: 8 Hour (8AM-4PM) Month Weekday	2.551	2.500	2.324	2.265	2.276	2.168	2.246	2.369	2.445	2.336	2.239	2.264	
8 Hour (7AM-11AM) and (2PM-6PM) Month Weekday	2.153	2.071	1.936	1.936	1.921	1.956	2.047	2.140	2.055	1.965	1.952	2.017	
16 Hour (6AM-10PM) Month Weekday	1.204	1.159	1.073	1.058	1.028	1.013	1.057	1.113	1.115	1.082	1.073	1.087	

1/ This station was not in operation in 1969 or 1970 due to construction.

STATE OF IOWA
HIGHWAY PLANNING SURVEYS DEPARTMENT DIVISION OF PLANNING
IOWA STATE HIGHWAY COMMISSION

Average Traffic Expansion Factors
Derived From A Permanent Automatic Recorder Located
On A Local City Street In An Industrial Area 1/
Dubuque - 1970 Population 62,309
1967 - 1969

Item	Month												All Year
	Jan.	Feb.	March	April	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	
Average 24 Hour Weekday Traffic	3977	4263	4192	4201	4054	4161	4743	4761	4580	4537	4242	4221	4328
Average 24 Hour Daily Traffic	3680	3935	3893	3919	3803	3858	4342	4343	4238	4217	39	3901	4006
Ratio of Annual Daily Traffic to: Monthly Weekday Traffic	1.007	0.938	0.956	0.954	0.988	0.963	0.845	0.841	0.875	0.883	0.944	0.949	
Ratio of Monthly Weekday Traffic to: 8 Hour (8AM-4PM) Month Weekday	1.999	2.097	2.109	2.063	2.045	2.051	2.071	2.085	2.089	2.093	2.038	2.029	
8 Hour (7AM-11AM) and (2PM-6PM) Month Weekday	1.853	1.904	1.911	1.925	1.943	1.956	1.979	1.972	1.927	1.890	1.884	1.914	
16 Hour (6AM-10PM) Month Weekday	1.091	1.105	1.107	1.095	1.095	1.094	1.100	1.100	1.097	1.099	1.096	1.096	
Ratio of Annual Daily Traffic to: 8 Hour (8AM-4PM) Month Weekday	2.013	1.971	2.015	1.968	2.021	1.974	1.749	1.755	1.827	1.848	1.925	1.926	
8 Hour (7AM-11AM) and (2PM-6PM) Month Weekday	1.867	1.789	1.826	1.836	1.920	1.883	1.671	1.660	1.685	1.669	1.779	1.817	
16 Hour (6AM-10PM) Month Weekday	1.099	1.039	1.058	1.044	1.082	1.053	0.929	0.926	0.959	0.970	1.035	1.040	

1/ This station was not in operation during 1970 due to construction.

STATE OF IOWA
HIGHWAY PLANNING SURVEYS DEPARTMENT DIVISION OF PLANNING
IOWA STATE HIGHWAY COMMISSION

Average Traffic Expansion Factor
Derived From A Permanent Automatic Traffic Recorder Located
On A Local City Street
Fort Dodge - 1970 Population 31,263

1968-1970

Item	Month												All Year
	Jan.	Feb.	March	April	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	
Average 24 Hour Weekday Traffic	4270	4589	4609	4774	4910	4734	4486	4460	4482	4369	4105	3929	4476
Average 24 Hour Daily Traffic	4072	4389	4429	4568	4675	4449	4184	4193	4258	4153	3897	3747	4251
Ratio of Annual Daily Traffic to: Monthly Weekday Traffic	0.996	0.926	0.922	0.890	0.866	0.898	0.948	0.953	0.949	0.973	1.036	1.082	
Ratio on Monthly Weekday Traffic to: 8 Hour (8AM-4PM) Month Weekday	1.925	1.960	1.988	2.003	2.027	2.027	2.041	2.025	2.027	2.009	1.947	1.967	
8 Hour (7AM-11AM) and (2PM-4PM) Month Weekday	1.820	1.841	1.868	1.878	1.925	2.050	2.057	2.043	1.898	1.874	1.856	1.921	
16 Hour (6AM-10PM) Month Weekday	1.062	1.063	1.064	1.061	1.063	1.077	1.080	1.073	1.062	1.065	1.067	1.073	
Ratio of Annual Daily Traffic to: 8 Hour (8AM-4PM) Month Weekday	1.917	1.816	1.834	1.783	1.755	1.820	1.934	1.930	1.923	1.955	2.017	2.128	
8 Hour (7AM-11AM) and (2PM-6PM) Month Weekday	1.812	1.705	1.723	1.672	1.666	1.841	1.949	1.947	1.801	1.823	1.922	2.079	
16 Hour (6AM-10PM) Month Weekday	1.057	0.985	0.981	0.945	0.921	0.967	1.023	1.023	1.008	1.036	1.104	1.161	

STATE OF IOWA
HIGHWAY PLANNING SURVEYS DEPARTMENT DIVISION OF PLANNING
IOWA STATE HIGHWAY COMMISSION

Average Traffic Expansion Factors
Derived From A Permanent Automatic Traffic Recorder Located
On A Major Street On The Primary Road System
Mount Pleasant - 1970 Population 7,007

1968-1970

Item	Month												
	Jan.	Feb.	March	April	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	All Year
Average 24 Hour Weekday Traffic	8832	9231	9679	9991	10291	10580	11102	11264	10510	10095	9574	9440	10049
Average 24 Hour Daily Traffic	8677	9185	9671	9896	10191	10384	10778	11107	10439	9981	9466	9132	9909
Ratio of Annual Daily Traffic to: Monthly Weekday Traffic	1.122	1.073	1.024	0.992	0.963	0.937	0.893	0.880	0.943	0.982	1.035	1.050	
Ratio of Monthly Weekday Traffic to: 8 Hour (8AM-4PM) Month Weekday	2.012	2.026	2.046	2.082	2.129	2.106	2.199	2.106	2.111	2.090	1.957	1.981	
8 Hour (7AM-11AM) and (2PM-6PM) Month Weekday	1.945	1.955	1.930	1.964	2.007	2.056	2.110	2.083	2.009	1.967	1.926	1.954	
16 Hour (6AM-10PM) Month Weekday	1.112	1.108	1.091	1.095	1.097	1.107	1.116	1.109	1.102	1.099	1.091	1.099	
Ratio of Annual Daily Traffic to: 8 Hour (8AM-4PM) Month Weekday	2.257	2.175	2.095	2.065	2.050	1.972	1.891	1.853	1.990	2.051	2.025	2.079	
8 Hour (7AM-11AM) and 2PM-6PM) Month Weekday	2.182	2.099	1.976	1.948	1.933	1.925	1.883	1.832	1.894	1.931	1.993	2.051	
16 Hour (6AM-10PM) Month Weekday	1.248	1.190	1.116	1.086	1.057	1.037	0.996	0.976	1.039	1.079	1.129	1.153	

STATE OF IOWA
HIGHWAY PLANNING SURVEYS DEPARTMENT DIVISION OF PLANNING
IOWA STATE HIGHWAY COMMISSION

Average Traffic Expansion Factors
Derived From A Permanent Automatic Traffic Recorder Located
On A Major City Street
Ottumwa - 1970 Population 29,610

1968-1970

Item	Month												All Year
	Jan.	Feb.	March	April	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	
Average 24 Hour Weekday Traffic	6008	6350	6552	6764	6984	6987	6825	6454	6382	6571	6533	6377	6566
Average 24 Hour Daily Traffic	5834	6215	6411	6620	6811	6748	6567	6243	6286	6370	6345	6174	6385
Ratio of Annual Daily Traffic to: Monthly Weekday Traffic	1.063	1.006	0.975	0.944	0.914	0.914	0.935	0.989	0.995	0.972	0.977	1.001	
Ratio of Monthly Weekday Traffic to: 8 Hour (8AM-4PM) Month Weekday	2.015	2.033	2.031	2.054	2.080	2.053	2.077	2.075	1.998	2.080	2.025	1.998	
8 Hour (7AM-11AM) and (2PM-6PM) Month Weekday	1.903	1.938	1.947	1.984	2.010	2.091	2.122	2.133	1.998	1.997	1.968	1.982	
16 Hour (6AM-10PM) Month Weekday	1.075	1.073	1.073	1.075	1.077	1.090	1.094	1.089	1.072	1.077	1.078	1.079	
Ratio of Annual Daily Traffic to: 8 Hour (8AM-4PM) Month Weekday	2.141	2.045	1.979	1.939	1.901	1.876	1.943	2.053	1.998	2.021	1.979	2.001	
8 Hour (7AM-11AM) and 2PM-6PM) Month Weekday	2.023	1.949	1.898	1.872	1.837	1.911	1.985	2.110	1.998	1.940	1.924	1.984	
16 Hour (6AM-10PM) Month Weekday	1.142	1.079	1.046	1.015	0.985	0.996	1.023	1.078	1.072	1.046	1.053	1.081	

STATE OF IOWA
HIGHWAY PLANNING SURVEYS DEPARTMENT DIVISION OF PLANNING
IOWA STATE HIGHWAY COMMISSION

Average Traffic Expansion Factors
Derived From A Permanent Automatic Traffic Recorder Located
On A Major Street On The Primary Road System 1/
Sioux City - 1970 Population 85,925

1964

Item	Month												All Year
	Jan.	Feb.	March	April	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	
Average 24 Hour Weekday Traffic	16638	16808	17132	17258	18674	22459	20122	20000	18105	17979	17904	18314	18449
Average 24 Hour Daily Traffic	15971	16446	16828	16916	18461	21538	19407	19100	17689	17642	17516	17746	17938
Ratio of Annual Daily Traffic to: Monthly Weekday Traffic	1.078	1.067	1.047	1.039	0.961	0.799	0.892	0.897	0.991	0.998	1.002	0.980	
Ratio of Monthly Weekday Traffic to: 8 Hour (8AM-4PM) Month Weekday	2.199	2.209	2.194	2.239	2.340	2.246	2.283	2.299	2.250	2.289	2.243	2.174	
8 Hour (7AM-11AM) and (2PM-6PM) Month Weekday	2.006	1.970	1.932	1.985	2.063	2.080	2.122	2.119	2.029	1.983	2.010	2.023	
16 Hour (6AM-10PM) Month Weekday	1.122	1.110	1.113	1.108	1.136	1.128	1.137	1.134	1.108	1.108	1.115	1.113	
Ratio of Monthly Weekday Traffic to: 8 Hour (8AM-4PM) Month Weekday	2.370	2.358	2.297	2.327	2.248	1.794	2.035	2.062	2.229	2.283	2.247	2.129	
8 Hour (7AM-11AM) and (2PM-6PM) Month Weekday	2.163	2.102	2.022	2.063	1.982	1.661	1.892	1.900	2.010	1.978	2.014	1.981	
16 Hour (6AM-10PM) Month Weekday	1.209	1.185	1.165	1.152	1.092	0.901	1.014	1.017	1.098	1.105	1.118	1.090	

1/ This location's last full year of operation was in 1964. A new installation was made at this location in November of 1968. Due to recorder malfunctions 1969 and 1970 data was not useable.

STATE OF IOWA
HIGHWAY PLANNING SURVEYS DEPARTMENT DIVISION OF PLANNING
IOWA STATE HIGHWAY COMMISSION

Average Traffic Expansion Factors
Derived From A Permanent Automatic Traffic Recorder Located
On A Major City Street In A Summer Resort Area
Spirit Lake - 1970 Population 3,014
1968 - 1970

Item	Month												
	Jan.	Feb.	March	April	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	All Year
Average 24 Hour Weekday Traffic	5309	5136	5511	6078	7034	8672	9438	9396	6678	5769	5665	5654	6695
Average 24 Hour Daily Traffic	5213	5061	5429	6086	7350	9027	9711	9662	6800	5660	5526	5444	6747
Ratio of Annual Daily Traffic to: Monthly Weekday Traffic	1.271	1.314	1.224	1.110	0.959	0.778	0.715	0.718	1.010	1.170	1.191	1.193	
Ratio of Monthly Weekday Traffic to: 8 Hour (8AM-4PM) Month Weekday	1.904	1.916	1.934	1.958	2.012	1.960	1.945	1.913	1.946	1.917	1.930	1.882	
8 Hour (7AM-11AM) and (2PM-6PM) Month Weekday	1.857	1.816	1.838	1.874	1.985	2.083	2.118	2.078	1.975	1.875	1.875	1.885	
16 Hour (6AM-10PM) Month Weekday	1.102	1.084	1.082	1.082	1.093	1.099	1.105	1.096	1.094	1.078	1.090	1.089	
Ratio of Annual Daily Traffic to: 8 Hour (8AM-4PM) Month Weekday	2.420	2.518	2.367	2.174	1.930	1.525	1.391	1.373	1.967	2.242	2.298	2.246	
8 Hour (7AM-11AM) and (2PM-6PM) Month Weekday	2.360	2.386	2.250	2.081	1.904	1.621	1.514	1.492	1.995	2.193	2.233	2.250	
16 Hour (6AM-10PM) Month Weekday	1.400	1.424	1.324	1.201	1.048	0.855	0.790	0.787	1.106	1.261	1.298	1.299	

STATE OF IOWA
HIGHWAY PLANNING SURVEYS DEPARTMENT DIVISION OF PLANNING
IOWA STATE HIGHWAY COMMISSION

Average Traffic Expansion Factors
Derived From A Permanent Automatic Traffic Recorder Located
On A Major City Street
Storm Lake - 1970 Population 8, 591
1968 - 1970

Item	Month												All Year
	Jan.	Feb.	March	April	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	
Average 24 Hour Weekday Traffic	3297	3501	3623	3833	3949	4006	3875	3761	3848	3787	3614	3550	3720
Average 24 Hour Daily Traffic	3310	3572	3688	3897	3972	4004	3939	3785	3900	3880	3653	3522	3760
Ratio of Annual Daily Traffic to: Monthly Weekday Traffic	1.140	1.074	1.038	0.981	0.952	0.939	0.970	1.000	0.977	0.993	1.040	1.059	
Ratio of Monthly Weekday Traffic to: 8 Hour (8AM-4PM) Month Weekday	1.939	2.005	2.015	2.065	2.122	2.065	2.153	2.087	2.072	2.048	2.052	2.046	
8 Hour (7AM-11AM) and (2PM-6PM) Month Weekday	1.874	1.872	1.910	1.989	2.081	2.178	2.278	2.215	2.029	1.977	2.009	2.046	
16 Hour (6AM-10PM) Month Weekday	1.076	1.066	1.070	1.072	1.082	1.092	1.103	1.093	1.076	1.077	1.082	1.088	
Ratio of Annual Daily Traffic to: 8 Hour (8AM-4PM) Month Weekday	2.212	2.154	2.091	2.026	2.020	1.938	2.089	2.087	2.025	2.034	2.135	2.167	
8 Hour (7AM-11AM) and (2PM-6PM) Month Weekday	2.138	2.011	1.982	1.951	1.981	2.045	2.211	2.214	1.982	1.962	2.090	2.167	
16 Hour (6AM-10PM) Month Weekday	1.228	1.145	1.110	1.052	1.030	1.025	1.071	1.093	1.052	1.069	1.126	1.152	

STATE OF IOWA
HIGHWAY PLANNING SURVEYS DEPARTMENT DIVISION OF PLANNING
IOWA STATE HIGHWAY COMMISSION

Average Day of Week Adjustment Factors
Derived From 11 Permanent Automatic Traffic Recorder Locations
Municipal Streets

1968-1970

Month	Monday	Tuesday	Wednesday	Thursday	Friday
January	1.040	0.910	1.055	1.022	0.901
February	1.028	1.028	1.027	1.016	0.912
March	1.022	1.034	1.024	1.028	0.905
April	1.026	1.044	1.034	1.008	0.902
May	1.035	1.069	1.019	1.008	0.917
June	1.014	1.033	1.025	1.018	0.920
July	1.015	1.033	1.004	1.012	0.941
August	1.006	1.035	1.021	1.015	0.931
September	1.076	1.009	1.014	1.013	0.905
October	1.022	1.054	1.038	1.012	0.893
November	1.020	1.008	0.982	1.126	0.892
December	0.998	0.993	1.016	1.049	0.950

STATE OF IOWA
HIGHWAY PLANNING SURVEYS DEPARTMENT DIVISION OF PLANNING
IOWA STATE HIGHWAY COMMISSION

Average Traffic Expansion Factors
Derived From A Permanent Automatic Traffic Recorder Location
Municipal Interstate
Des Moines - 1970 Population 200,587
1969 - 1970

Item	Month												All Year
	Jan.	Feb.	March	April	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	
Average 24 Hour Weekday Traffic	39888	42624	44508	45895	47237	48039	46054	47638	45993	46665	46481	43973	45416
Average 24 Hour Daily Traffic	37470	39940	41842	43660	44104	44636	42466	44448	43129	43604	43620	40703	42469
Ratio of Annual Daily Traffic to: Monthly Weekday Traffic	1.065	0.996	0.954	0.925	0.899	0.884	0.922	0.892	0.923	0.910	0.914	0.966	
Ratio of Monthly Weekday Traffic to: 8 Hour (8AM-4PM) Month Weekday	2.445	2.445	2.445	2.445	2.445	2.232	2.232	2.232	2.232	2.231	2.337	2.347	
8 Hour (7AM-11AM) and (2PM-6PM) Month Weekday	1.805	1.805	1.805	1.805	1.805	1.916	1.916	1.916	1.916	1.916	1.831	1.822	
16 Hour (6AM-10PM) Month Weekday	1.109	1.109	1.108	1.109	1.109	1.129	1.129	1.129	1.129	1.129	1.105	1.106	
Ratio of Annual Daily Traffic to: 8 Hour (8AM-4PM) Month Weekday	2.603	2.436	2.333	2.263	2.198	1.973	2.058	1.990	2.061	2.031	2.135	2.267	
8 Hour (7AM-11AM) and (2PM-6PM) Month Weekday	1.922	1.799	1.722	1.670	1.623	1.694	1.767	1.708	1.769	1.743	1.673	1.760	
16 Hour (6AM-10PM) Month Weekday	1.180	1.105	1.058	1.026	0.997	0.998	1.041	1.006	1.042	1.027	1.010	1.068	

HIGHWAY PLANNING SURVEYS DEPARTMENT DIVISION OF PLANNING
IOWA STATE HIGHWAY COMMISSION

Average Day of Week Adjustment Factors
Derived From A Permanent Automatic Traffic Recorder Location
Municipal Interstate
Des Moines - 1970 Population 200,587

1969-1970

Month	Monday	Tuesday	Wednesday	Thursday	Friday
January	1.001	0.986	1.112	1.030	0.895
February	1.041	1.052	0.962	1.001	0.952
March	1.011	1.032	1.016	1.024	0.920
April	1.059	0.998	1.007	1.004	0.939
May	0.982	0.981	0.995	1.006	1.040
June	0.990	1.010	0.997	1.091	0.925
July	0.981	0.978	1.004	0.859	1.086
August	1.047	1.062	1.002	0.984	0.918
September	1.125	0.998	1.008	0.978	0.914
October	1.015	1.016	1.013	1.019	0.942
November	1.012	1.035	0.978	1.096	0.900
December	1.034	0.941	0.979	1.096	0.964

List of Automatic Recorder Stations
and Description of Locations

Rural Primary Road System

<u>Station</u>	<u>County</u>	<u>Location</u>
604	Polk	U.S. 65, S.W. Limits of Bondurant
605	Dallas	Iowa 44, W. of Int. Iowa 44 and U.S. 169
607	Chickasaw	U.S. 18, 3 3/4 Mi. E. of Fredericksburg
614	Iowa	U.S. 6, 3/4 Mile East of Marengo
615	Clinton	U.S. 30, 1 1/2 Miles West of DeWitt
616	Wright	U.S. 69, 1 1/2 Miles North of Belmond
617	Decatur	U.S. 69, 1 1/2 Miles North of Leon
618	Franklin	U.S. 65, 2 3/4 Miles North of Hampton
619	Scott	U.S. 67, 1/2 Mile South of Princeton
620	O'Brien	U.S. 18, 3 Miles East of Sheldon
622	Clarke	U.S. 34, 3 Miles West of Osceola
623	Calhoun	U.S. 20, 1 3/4 Miles East of Rockwell City
624	Audubon	U.S. 71, 1 1/2 Miles South of Audubon
625	Keokuk	Iowa 92, 3/4 Mile West of Sigourney
626	Allamakee	U.S. 52, 1 1/2 Miles Northwest of Armstrong
627	Bremer	U.S. 63, 5 3/4 Miles North of Denver
628	Clay	U.S. 71, Southeast Corner of Fostoria
629	Decatur	Iowa 2, 1/2 Mile East of Leon
630	Emmet	Iowa 9, 6 3/4 Miles West of Armstrong
631	Humboldt	Iowa 3, 7 1/2 Miles East of Dakota City
632	Johnson	U.S. 218, 5 Miles South of Iowa City
633	Montgomery	Iowa 48, 2 Miles Northeast of Elliott
635	Plymouth	U.S. 75, 1 1/4 Miles Northeast of Hinton
636	Shelby	U.S. 59, North Limits of Defiance
651	Story	2 Miles East of Int. of U.S. 30 and U.S. 65

Rural Interstate Road System

<u>Station</u>	<u>County</u>	<u>Location</u>
638	Pottawattamie	I-29, 3 Miles North of Crescent City Interchange
639	Polk	I-35, South of Fuller Road, West Des Moines
640	Poweshiek	I-80, 2 Miles East of Ia. 146 Interchange
641	Hamilton	I-35, 3 Miles North of Ia. 175 Interchange
642	Monona	I-29, 3.8 Miles South of Ia. 175 Interchange

Rural Secondary Road System

<u>Station</u>	<u>County</u>	<u>Location</u>
602	Greene	2 Miles South of Churdan
606	Story	2 Miles North of Nevada
612	Adams	1 Mile West of Cromwell
613	Hamilton	$\frac{1}{2}$ Mile South of Woolstock
621	Monona	Local rd. $\frac{1}{2}$ Mile South of Onawa
634	O'Brien	$4\frac{1}{2}$ Miles Northwest of Primghar
637	Tama	$2\frac{1}{4}$ Miles Northeast of Clutier
650	Hardin	7 Miles Southwest of Eldora
652	Keokuk	$3\frac{1}{2}$ Miles North of Sigourney

Municipal Road System

<u>Station</u>	<u>County</u>	<u>Location</u>
701	Story	East Leg 5th St. and Grand Ave. - Ames

Municipal Road System (Continued)

<u>Station</u>	<u>County</u>	<u>Location</u>
703	Dallas	West Leg 11th St. and Main - Adel
705	Buena Vista	North Leg 3rd St. and Lake - Storm Lake
706	Webster	East Leg 2nd Ave. North and 15th St. - Fort Dodge
707	Floyd	Northwest Leg Jackson and U.S. 218 - Charles City
708	Dubuque	North Leg 14th Street and Elm - Dubuque
710	Scott	East Leg E. Locust Street and Spring - Davenport
711	Henry	East Leg Harrison and E. Washington - Mt. Pleasant
712	Wapello	Southwest Leg Jefferson and Grant - Ottumwa
713	Dickinson	West Leg 18th Street and Lincoln - Spirit Lake
714	Woodbury	East Leg Gordon Drive and Court Street - Sioux City
716	Linn	West Leg Johnson Ave. and Janice Drive - Cedar Rapids

Municipal Interstate System

<u>Station</u>	<u>County</u>	<u>Location</u>
715	Polk	I-235 at Pennsylvania Interchange - Des Moines

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