



INDIANA DEPARTMENT OF TRANSPORTATION

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Latest INDOT Traffic Adjustment Factors

Effective for 2018

The Indiana Department of Transportation (INDOT), through its Traffic Monitoring Section, collects, summarizes and interprets information on the traffic traveling on the state's highway system. The data is used to assess transportation needs, system performance and to develop highway planning and programming recommendations. Traffic data also plays a very important role in route planning and in the design of highway projects.

To collect this information, the Department operates two traffic monitoring systems: Annual average daily traffic is the total volume for the year divided by 365 days. Only 135 of INDOT's 8,000 Traffic Sections are equipped with Continuous Traffic counters. The remaining sections are counted as part of the short term or "Coverage Count" program. The Coverage Count Program consists of more than 25,000 count locations, approximately one-third of which are counted annually. A minimum of 48 hours of count data is collected at each count location and, the 48 hour counts are then averaged to 24 before utilizing factors developed from Continuous Traffic Counters, an estimated AADT is developed. AADT is necessary for presenting a statewide picture of traffic flow, evaluating traffic trends, computing accident rates, planning and designing highways, and other purposes.

1. A Statewide Traffic Monitoring System consisting of 135 permanent continuous count stations that collect volume, speed and vehicle classification data 24 hours per day, 365 days per year. Some of these sites also utilize weigh-in motion (WIM) technology to collect continuous truck weight data. These sites are located throughout the state to monitor overall traffic trends. Information from these counters is used to determine ANNUAL TRAFFIC GROWTH trends as well as develop AXLE, WEEKDAY and SEASONAL adjustment factors used with the state's coverage count program to determine estimates of annual average daily traffic (AADT).

2. The statewide coverage count program utilizes portable pneumatic road-tubes traffic counters and laser counters to collect 48 hour traffic counts on all State Highway System traffic sections and in rural and small urban areas and all highway performance monitoring sections (HPMS). Video data collection is also deployed. The coverage count program operates on a two-year cycle for Interstates, a three-year cycle other State Owned routes and many non-state owned urban and highly traveled rural roads, and a six-year cycle for low volume rural Federal Aid Eligible routes. One-third of all sections are collected annually, or approximately 8,000 of the 25,000 count sites. Where possible, portable classifiers are used so that approximately 65% of all coverage counts collected are classification counts. Use of video data collection expands the reach of classification counts in urban areas. Additional counts are taken within this program to support specific state projects. In addition INDOT also contracts with some Metropolitan Planning Organizations (MPOs) and Regional Planning Organizations (RPOs) to collect coverage count data within their areas as well as contracting with Consultants. We are expanding the number of MPO and RPO counting partners in the future.

FUNCTIONAL CLASSIFICATION UPDATE

In 2010, The Federal Highway Administration (FHWA) revised its Functional Classification scheme. Prior to 2010, an interstate highway would have a different functional classification depending on whether it was in an urban or rural area. The 2010 scheme removed the urban/rural designation from the functional classification in favor to tracking that attribute separately. This reduced the number of classifications from 12 to 7. This change is reflected in numbers listed in the tables along with the classification description. For example, the Urban Interstates and Rural Interstates are both followed by the Functional Class (1)

FACTOR GROUPS

The Federal Highway Administration (FHWA) has seven classifications of roadways and four classifications of urban/rural nature. INDOT groups these 28 potential combinations of classification and urban/rural nature into Factor Groups. For the Seasonal, Weekday, and Growth INDOT uses two groups for all urban roadways and three groups for all rural roadways. For the Axle Adjustment, INDOT uses three groups for all urban roadways and three groups for all rural roadways.

ADJUSTMENT FACTORS

Adjustment factors are necessary to convert an Average Daily Traffic (ADT) volume into an Annual Average Daily Traffic (AADT) estimate. Depending on the type of counter, the seasonal period of the setting, multiple factors may be necessary. These include axle, weekday and seasonal adjustment factors. For the 2/3's of the system not counted in the current year, the previously derived AADTs can be adjusted to the current year by utilizing the annual growth factors.

AXLE ADJUSTMENT FACTORS

There are times when portable classifiers cannot be set due to number of lanes or the lack of free-flow speeds. In these cases, portable traffic counters utilizing single pneumatic road-tubes stretched across a lane or roadway are used. These types of counters register two axle impacts as one vehicle so when vehicles with three or more axles cross the road-tube they will be counted as multiple vehicles. Whenever possible axle adjustment factors should be developed from vehicle classification counters set on the same route within the vicinity of the axle counter and during the same relative time period. If this is not possible then the use of these factors applied by functional classification and volume groups are deemed acceptable.

WEEKDAY ADJUSTMENT FACTORS

The purpose of these factors is to normalize the variability of traffic counts that exists between counts taken during the weekday, Friday, Saturdays and/or Sundays. In developing the weekday factors we found no significant statistical difference in the Monday through Thursday trends and for this reason combine these into a weekday factor. This is further justified as counts taken for INDOT will usually span a Monday through Wednesday or a Tuesday through Thursday count period.

SEASONAL (MONTHLY) ADJUSTMENT FACTORS

Seasonal or monthly adjustment factors convert average daily traffic (ADT) to annual average daily traffic (AADT). Observed traffic volumes at a location often vary from month to month with higher summer traffic volumes and lower winter traffic volumes. To compare traffic volume data collected in different months, seasonal adjustment factors must be applied. The ADT is multiplied by the seasonal factor to obtain the AADT value. The continuous counter sites are grouped into five major factor groups (FG). Currently there are two urban factor groups and three rural factor groups which are based on grouped functional classifications.

ANNUAL GROWTH FACTORS

As not all road sections are counted each year, there are times when previous years AADTs will need to be factored in order to estimate current year values. Annual Growth Factors are used in these situations and are developed by comparisons of previous years AADTs at INDOT's 135 continuous counting telemetry sites and averaged for the five factor groups (FG).

New this year is the publication of the average of the most recent five (5) and ten (10) Annual Growth Factors for each Factor Group. These rates are sometimes used to make crude forecast estimates of future traffic in the absence of extensive historic data specific to a location. The average of the most recent ten (10) years' rates is used to estimate the Future Year AADT reported to the Federal Highway Administration (FHWA) as part of the annual submission of data to the Highway Performance Monitoring System (HPMS).

FACTOR APPLICATION

The new factors published herein were developed from data collected during the 2018 calendar year and will be applied to all counts processed into the INDOT Traffic Count Database beginning on January 1, 2018, retroactively. These factors will continue to be applied as the current factors until new factors are developed from all of the counts collected during the 2019 calendar year. Counts uploaded to the database have the most current factors applied until the development of new factors at which time; the newly developed factors are applied. Further, when the time comes to publish annual statistics for the Highway Performance Monitoring System (HPMS) submittal, the new factors are retroactively applied to all the short term counts for the respective calendar year. This will cause AADTs viewed for counts collected prior to the development of new factors to change when development is complete and the new factors are applied.

SEASONAL ADJUSTMENT FACTORS BY FUNCTIONAL CLASSIFICATION 2014-2018*

U1_SWG	Urban - Interstate (1), Principal Arterial (Freeways and Expressways) (2)												
		Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
	2018	1.189	1.072	1.002	0.986	0.96	0.941	0.952	0.945	0.989	0.958	0.985	1.038
	2017	1.151	1.033	1.000	1.012	0.970	0.932	0.969	0.941	0.979	0.984	0.999	1.071
	2016	1.213	1.067	0.977	1.011	0.996	0.934	0.943	0.969	1.001	0.992	1.008	1.058
	2015	1.158	1.125	1.017	0.965	0.980	0.933	0.940	0.958	0.974	0.949	0.993	1.037
2014	1.167	1.102	1.044	0.981	0.964	0.958	0.946	0.953	0.977	0.960	1.010	1.021	
5 YR AVG	1.176	1.080	1.008	0.991	0.974	0.940	0.950	0.953	0.984	0.969	0.999	1.045	

U2_SWG	Urban - Other Principal Arterials (3), Minor Arterials (4), Collectors (5 & 6), Locals (7)												
		Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
	2018	1.135	1.047	1.013	1.000	0.960	0.958	0.975	0.939	0.998	0.976	1.015	1.054
	2017	1.105	1.000	1.008	0.997	0.969	0.948	1.009	0.943	0.970	0.986	1.013	1.054
	2016	1.099	1.026	1.000	0.947	0.984	0.973	1.002	0.961	0.972	0.969	1.000	1.026
	2015	1.128	1.076	1.034	0.966	0.968	0.980	0.971	0.955	0.959	0.970	1.036	1.048
2014	1.112	1.059	1.020	0.973	0.963	0.969	0.975	0.981	0.982	0.973	1.032	1.025	
5 YR AVG	1.116	1.042	1.015	0.977	0.969	0.966	0.986	0.956	0.976	0.975	1.019	1.041	

R1_SWGA	Rural - Interstate (1), Principal Arterial (Freeways and Expressways) (2)												
		Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
	2018	1.239	1.137	1.023	1.010	0.943	0.906	0.898	0.916	0.975	0.961	1.000	1.088
	2017	1.224	1.125	1.029	0.991	0.956	0.892	0.911	0.928	0.967	0.974	0.997	1.084
	2016	1.261	1.159	1.027	1.017	0.971	0.911	0.897	0.941	0.951	0.968	1.040	1.107
	2015	1.232	1.182	1.056	1.000	0.950	0.909	0.888	0.915	0.965	0.954	0.997	1.053
2014	1.291	1.219	1.066	1.008	0.957	0.906	0.875	0.896	0.989	0.963	1.027	1.056	
5 YR AVG	1.249	1.164	1.040	1.005	0.955	0.905	0.894	0.919	0.969	0.964	1.012	1.078	

R2_SWGA	Rural - Principal Arterials (3), Minor Arterials (4)												
		Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
	2018	1.180	1.077	1.052	1.011	0.952	0.938	0.975	0.922	0.959	0.954	1.010	1.091
	2017	1.136	1.027	1.025	1.014	0.959	0.927	0.981	0.944	0.955	0.979	1.025	1.071
	2016	1.202	1.102	1.046	0.965	0.963	0.923	0.964	0.954	0.921	0.958	1.013	1.062
	2015	1.174	1.119	1.081	0.994	0.958	0.961	0.948	0.930	0.914	0.972	1.055	1.090
2014	1.219	1.145	1.081	0.988	0.938	0.935	0.940	0.937	0.936	0.946	1.022	1.060	
5 YR AVG	1.182	1.094	1.057	0.994	0.954	0.937	0.962	0.937	0.937	0.962	1.025	1.075	

R3_SWGA	Rural - Major Collectors (5), Minor Collectors (6), Locals (7)												
		Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
	2018	1.213	1.134	1.072	0.994	0.932	0.918	0.945	0.94	0.952	0.946	1.014	1.083
	2017	1.186	1.064	1.053	0.981	0.936	0.896	0.933	0.934	0.952	0.978	1.034	1.130
	2016	1.153	1.115	1.064	0.921	0.937	0.896	0.956	0.965	0.951	0.943	0.993	1.114
	2015	1.138	1.103	1.058	0.965	0.915	0.943	0.961	0.951	0.950	0.963	1.022	1.043
2014	1.150	1.121	1.077	0.952	0.923	0.954	0.955	0.979	0.958	0.981	1.045	1.074	
5 YR AVG	1.168	1.107	1.065	0.963	0.929	0.921	0.950	0.954	0.953	0.962	1.022	1.089	

*The seasonal adjustment factors are used to expand average 24-hour volumes to estimated Annual Average Daily Traffic (AADT).

WEEKDAY FACTORS BY FUNCTIONAL CLASSIFICATION 2018*

U1_SWG	Urban - Interstate (1), Principal Arterial (Freeways and Expressways) (2)													
		Average	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
	Average Weekday	0.950	0.931	0.928	0.956	0.943	0.965	0.954	0.953	0.967	0.945	0.951	0.945	0.956
	Monday	0.998	1.068	0.961	0.987	0.981	1.046	0.981	0.969	0.987	1.028	0.983	0.961	1.029
	Tuesday	0.952	0.921	0.925	0.966	0.965	0.959	0.969	0.928	0.973	0.937	0.956	0.917	1.007
	Wednesday	0.935	0.888	0.927	0.960	0.926	0.943	0.944	0.997	0.969	0.916	0.952	0.894	0.904
	Thursday	0.912	0.845	0.899	0.910	0.899	0.911	0.920	0.919	0.937	0.900	0.912	1.006	0.883
	Friday	0.872	0.931	0.860	0.852	0.852	0.860	0.867	0.873	0.874	0.857	0.883	0.916	0.839
	Saturday	1.148	1.204	1.173	1.164	1.142	1.156	1.138	1.105	1.132	1.133	1.151	1.159	1.121
Sunday	1.328	1.396	1.416	1.347	1.327	1.276	1.319	1.294	1.285	1.321	1.297	1.335	1.327	

U2_SWG	Urban - Other Principal Arterials (3), Minor Arterials (4), Collectors (5 & 6), Locals (7)													
		Average	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
	Average Weekday	0.952	0.952	0.936	0.956	0.946	0.972	0.959	0.954	0.964	0.948	0.943	0.949	0.948
	Monday	1.001	1.103	0.970	0.983	0.982	1.063	0.987	0.968	0.990	1.042	0.975	0.960	0.988
	Tuesday	0.949	0.938	0.925	0.967	0.960	0.954	0.970	0.924	0.969	0.935	0.935	0.920	0.995
	Wednesday	0.936	0.905	0.931	0.951	0.933	0.949	0.944	1.003	0.961	0.913	0.939	0.903	0.905
	Thursday	0.922	0.861	0.918	0.923	0.908	0.922	0.933	0.919	0.935	0.903	0.923	1.012	0.904
	Friday	0.876	0.922	0.877	0.862	0.856	0.882	0.877	0.877	0.883	0.847	0.888	0.892	0.851
	Saturday	1.097	1.087	1.100	1.130	1.085	1.080	1.086	1.087	1.096	1.087	1.099	1.115	1.113
Sunday	1.349	1.355	1.401	1.354	1.366	1.318	1.331	1.313	1.290	1.329	1.395	1.392	1.341	

R1_SWGA	Rural - Interstate (1), Principal Arterial (Freeways and Expressways) (2)													
		Average	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
	Average Weekday	1.012	0.969	0.978	1.012	1.005	1.018	1.031	1.032	1.04	1.013	1.025	1.013	1.009
	Monday	1.067	1.101	1.017	1.062	1.054	1.053	1.070	1.051	1.077	1.036	1.068	1.072	1.148
	Tuesday	1.038	0.967	0.984	1.039	1.043	1.052	1.080	1.040	1.084	1.045	1.049	1.012	1.063
	Wednesday	0.997	0.929	0.984	1.008	0.992	1.024	1.018	1.084	1.032	1.016	1.033	0.926	0.923
	Thursday	0.945	0.878	0.928	0.940	0.930	0.943	0.954	0.954	0.966	0.956	0.949	1.043	0.902
	Friday	0.852	0.923	0.846	0.833	0.831	0.830	0.860	0.847	0.844	0.845	0.830	0.906	0.827
	Saturday	1.059	1.105	1.102	1.117	1.077	1.053	1.042	1.020	1.052	1.053	1.045	1.038	1.007
Sunday	1.089	1.200	1.198	1.111	1.073	1.097	1.045	0.988	1.030	1.081	1.034	1.051	1.154	

R2_SWGA	Rural - Principal Arterials (3), Minor Arterials (4)													
		Average	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
	Average Weekday	0.964	0.933	0.940	0.959	0.954	0.988	0.973	0.971	0.981	0.967	0.974	0.962	0.961
	Monday	1.012	1.083	0.964	0.986	1.004	1.057	1.003	0.981	1.012	1.034	1.017	0.982	1.018
	Tuesday	0.964	0.928	0.925	0.974	0.963	0.966	0.993	0.951	0.990	0.958	0.962	0.938	1.020
	Wednesday	0.953	0.883	0.953	0.958	0.937	0.979	0.959	1.027	0.981	0.943	0.980	0.920	0.911
	Thursday	0.925	0.838	0.916	0.916	0.912	0.948	0.938	0.924	0.942	0.931	0.937	1.008	0.894
	Friday	0.849	0.896	0.847	0.831	0.822	0.848	0.853	0.844	0.852	0.832	0.856	0.870	0.831
	Saturday	1.090	1.157	1.116	1.149	1.098	1.058	1.079	1.069	1.085	1.047	1.033	1.117	1.069
Sunday	1.359	1.415	1.457	1.384	1.414	1.285	1.328	1.326	1.346	1.337	1.320	1.380	1.321	

R3_SWGA	Rural - Major Collectors (5), Minor Collectors (6), Locals (7)													
		Average	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
	Average Weekday	0.965	0.939	0.939	0.956	0.962	0.978	0.981	0.975	0.986	0.978	0.965	0.967	0.951
	Monday	1.012	1.106	0.971	0.975	1.015	1.027	1.010	0.990	1.009	1.063	0.993	0.986	1.001
	Tuesday	0.965	0.924	0.909	0.968	0.994	0.956	1.001	0.962	0.990	0.980	0.952	0.950	0.990
	Wednesday	0.953	0.878	0.966	0.955	0.938	0.975	0.971	1.017	0.985	0.941	0.975	0.928	0.910
	Thursday	0.928	0.846	0.910	0.925	0.899	0.954	0.942	0.930	0.960	0.928	0.940	1.003	0.903
	Friday	0.876	0.905	0.870	0.866	0.841	0.893	0.895	0.874	0.876	0.858	0.885	0.891	0.860
	Saturday	1.051	1.106	1.119	1.093	1.025	1.040	1.005	1.024	1.047	0.996	1.015	1.057	1.084
Sunday	1.294	1.341	1.414	1.321	1.299	1.217	1.269	1.235	1.233	1.277	1.312	1.306	1.299	

*Weekday factors are used to normalize the variability of traffic counts that exists between counts taken on the Weekdays, Friday, Saturday and/or Sunday.

AXLE ADJUSTMENT FACTORS BY FUNCTIONAL CLASSIFICATION 2014-2018*

U1_A	Urban - Interstate (1)												
		Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
	2018	0.826	0.814	0.845	0.844	0.847	0.851	0.852	0.851	0.851	0.838	0.851	0.852
	2017	0.833	0.828	0.836	0.870	0.826	0.830	0.858	0.844	0.846	0.843	0.843	0.852
	2016	0.774	0.727	0.794	0.812	0.83	0.855	0.867	0.843	0.843	0.817	0.846	0.854
	2015	0.789	0.758	0.797	0.819	0.827	0.826	0.813	0.796	0.79	0.798	0.799	0.772
	2014	0.874	0.862	0.852	0.866	0.866	0.863	0.868	0.850	0.839	0.841	0.850	0.857
U2_A	Urban - Freeways and Expressways (2) Principal Arterials (3)												
		Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
	2018	0.942	0.938	0.941	0.949	0.959	0.952	0.945	0.942	.940	0.935	0.931	.940
	2017	0.967	0.964	0.950	0.959	0.963	0.981	0.971	0.984	0.968	0.968	0.970	0.972
	2016	0.963	0.968	0.968	0.958	0.967	0.966	0.969	0.967	0.969	0.968	0.970	0.937
	2015	0.940	0.939	0.928	0.925	0.963	0.955	0.961	0.952	0.93	0.935	0.959	0.957
	2014	0.951	0.952	0.940	0.932	0.935	0.934	0.932	0.932	0.928	0.933	0.931	0.940
U3_A	Urban - Minor Arterials (4), Collectors (5 & 6), Locals (7)												
		Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
	2018	0.936	.950	0.961	0.954	0.964	0.962	.940	0.955	0.937	0.947	0.929	0.958
	2017	0.926	0.925	0.936	0.928	0.925	0.922	0.924	0.926	0.927	0.928	0.932	0.933
	2016	0.936	0.937	0.935	0.9265	0.935	0.936	0.94	0.936	0.934	0.929	0.935	0.935
	2015	0.935	0.931	0.931	0.926	0.927	0.93	0.929	0.928	0.925	0.93	0.936	0.936
	2014	0.923	0.931	0.937	0.932	0.936	0.937	0.935	0.937	0.929	0.926	0.933	0.936
R1_SWGA	Rural - Interstate (1), Principal Arterial (Freeways and Expressways) (2)												
		Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
	2018	0.700	0.707	0.723	0.722	0.732	0.759	0.756	0.749	0.723	0.697	0.705	0.715
	2017	0.742	0.747	0.74	0.755	0.772	0.776	0.79	0.763	0.766	0.758	0.762	0.771
	2016	0.702	0.704	0.702	0.738	0.744	0.758	0.774	0.745	0.748	0.741	0.748	0.748
	2015	0.688	0.664	0.688	0.688	0.712	0.695	0.742	0.731	0.719	0.712	0.716	0.689
	2014	0.680	0.686	0.701	0.707	0.721	0.725	0.736	0.730	0.705	0.708	0.717	0.715
R2_SWGA	Rural - Other Principal Arterials (3), Minor Arterials (4)												
		Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
	2018	0.855	0.859	0.869	0.866	0.861	0.869	0.884	0.866	0.863	0.856	0.857	0.869
	2017	0.911	0.91	0.885	0.902	0.913	0.919	0.917	0.913	0.915	0.909	0.919	0.906
	2016	0.940	0.944	0.925	0.921	0.931	0.925	0.927	0.936	0.906	0.902	0.923	0.913
	2015	0.915	0.884	0.915	0.912	0.928	0.93	0.882	0.855	0.883	0.881	0.882	0.913
	2014	0.876	0.883	0.886	0.884	0.889	0.902	0.894	0.899	0.889	0.879	0.890	0.898
R3_SWGA	Rural - Major Collectors (5), Minor Collectors (6), Locals (7)												
		Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
	2018	0.892	0.883	0.894	0.906	0.916	0.919	0.911	0.907	0.912	.900	0.926	0.931
	2017	0.922	0.891	0.903	0.925	0.912	0.907	0.925	0.906	0.904	0.895	0.902	0.912
	2016	0.946	0.937	0.943	0.973	0.956	0.967	0.938	0.932	0.935	0.912	0.928	0.928
	2015	0.904	0.923	0.932	0.938	0.953	0.964	0.93	0.937	0.96	0.933	0.926	0.925
	2014	0.965	0.941	0.945	0.916	0.927	0.929	0.932	0.923	0.917	0.909	0.912	0.911

*Axle Adjustment Factors are applied to counts taken with portable counters utilizing a single pneumatic road tube. This type of counter registers two axle impacts as one vehicle. The axle factor is used to account for vehicle types having more than two axles, typically trucks with three or more axles.

ANNUAL GROWTH FACTORS BY FUNCTIONAL CLASSIFICATION 2008 - 2018*

U1_SWG	Urban - Interstate (1), Principal Arterial (Freeways and Expressways) (2)											
	Year To	Year From										
		2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018
	2008	-	0.981	0.977	0.963	0.954	0.966	0.945	0.904	0.902	0.909	0.897
	2009	1.019	-	0.996	0.981	0.973	0.984	0.963	0.922	0.919	0.927	0.914
	2010	1.023	1.004	-	0.985	0.976	0.988	0.967	0.925	0.923	0.930	0.917
	2011	1.038	1.019	1.015	-	0.991	1.003	0.982	0.939	0.936	0.944	0.931
	2012	1.048	1.028	1.024	1.009	-	1.012	0.990	0.948	0.945	0.952	0.939
	2013	1.035	1.016	1.012	0.997	0.988	-	0.978	0.936	0.934	0.942	0.929
	2014	1.058	1.038	1.034	1.019	1.010	1.022	-	0.957	0.954	0.962	0.948
	2015	1.106	1.085	1.081	1.065	1.055	1.068	1.045	-	0.997	1.005	0.991
	2016	1.109	1.088	1.084	1.068	1.058	1.071	1.048	1.003	-	1.008	0.994
	2017	1.100	1.079	1.075	1.059	1.050	1.062	1.040	0.995	0.992	-	0.986
	2018	1.115	1.094	1.090	1.074	1.065	1.077	1.055	1.009	1.006	1.014	-

U2_SWG	Urban - Other Principal Arterials (3), Minor Arterials (4), Collectors (5 & 6), Locals (7)											
	Year To	Year From										
		2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018
	2008	-	1.004	0.997	0.979	0.980	0.994	0.984	0.943	0.940	0.931	0.928
	2009	0.996	-	0.993	0.975	0.976	0.990	0.981	0.938	0.935	0.927	0.923
	2010	1.003	1.007	-	0.982	0.983	0.997	0.987	0.945	0.943	0.934	0.930
	2011	1.021	1.025	1.018	-	1.001	1.015	1.005	0.962	0.959	0.951	0.947
	2012	1.020	1.024	1.017	0.999	-	1.014	1.004	0.961	0.958	0.950	0.946
	2013	1.006	1.010	1.003	0.985	0.986	-	0.990	0.948	0.945	0.936	0.933
	2014	1.016	1.020	1.013	0.995	0.996	1.010	-	0.978	0.976	0.967	0.963
	2015	1.061	1.066	1.058	1.040	1.041	1.055	1.022	-	0.997	0.988	0.984
	2016	1.064	1.069	1.061	1.043	1.044	1.058	1.025	1.003	-	0.991	0.987
	2017	1.074	1.079	1.071	1.052	1.053	1.068	1.034	1.012	1.009	-	0.996
	2018	1.078	1.083	1.075	1.056	1.057	1.072	1.038	1.016	1.013	1.004	-

R1_SWGA	Rural - Interstate (1), Principal Arterial (Freeways and Expressways) (2)											
	Year To	Year From										
		2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018
	2008	-	1.009	1.013	1.011	0.991	0.992	0.980	0.938	0.926	0.934	0.935
	2009	0.991	-	1.004	1.002	0.982	0.983	0.972	0.930	0.918	0.926	0.927
	2010	0.987	0.996	-	0.998	0.978	0.979	0.968	0.927	0.915	0.923	0.923
	2011	0.989	0.998	1.002	-	0.980	0.981	0.970	0.929	0.917	0.924	0.925
	2012	1.009	1.018	1.022	1.020	-	1.001	0.989	0.947	0.935	0.943	0.943
	2013	1.008	1.017	1.021	1.019	0.999	-	0.988	0.945	0.933	0.941	0.942
	2014	1.020	1.029	1.033	1.031	1.011	1.012	-	0.961	0.948	0.955	0.956
	2015	1.066	1.075	1.079	1.077	1.056	1.058	1.041	-	0.987	0.995	0.996
	2016	1.080	1.089	1.093	1.091	1.070	1.072	1.055	1.013	-	1.008	1.009
	2017	1.071	1.08	1.084	1.082	1.061	1.063	1.047	1.005	0.992	-	1.001
	2018	1.070	1.079	1.083	1.081	1.06	1.062	1.046	1.004	0.991	0.999	-

R2_SWGA	Rural - Other Principal Arterials (3), Minor Arterials (4)											
	Year To	Year From										
		2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018
	2008	-	1.005	1.008	1.007	1.000	0.969	0.956	0.915	0.899	0.894	0.891
	2009	0.995	-	1.003	1.002	0.995	0.964	0.951	0.910	0.894	0.890	0.887
	2010	0.992	0.997	-	0.999	0.992	0.961	0.948	0.907	0.892	0.887	0.883
	2011	0.993	0.998	1.001	-	0.993	0.962	0.949	0.908	0.893	0.888	0.884
	2012	1.000	1.005	1.008	1.007	-	0.969	0.956	0.914	0.898	0.894	0.890
	2013	1.032	1.037	1.040	1.039	1.032	-	0.986	0.943	0.928	0.923	0.920
	2014	1.046	1.052	1.055	1.054	1.046	1.014	-	0.981	0.965	0.961	0.957
	2015	1.093	1.099	1.102	1.101	1.094	1.060	1.019	-	0.983	0.978	0.975
	2016	1.112	1.118	1.121	1.120	1.113	1.078	1.036	1.017	-	0.995	0.991
	2017	1.118	1.124	1.127	1.126	1.119	1.083	1.041	1.022	1.005	-	0.996
	2018	1.122	1.128	1.132	1.131	1.123	1.087	1.045	1.026	1.009	1.004	-

R3_SWGA	Rural - Major Collectors (5), Minor Collectors (6), Locals (7)											
	Year To	Year From										
		2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018
	2008	-	0.992	0.996	0.992	0.992	0.985	0.975	0.934	0.929	0.934	0.951
	2009	1.008	-	1.004	1.000	1.000	0.993	0.983	0.941	0.936	0.941	0.959
	2010	1.004	0.996	-	0.996	0.996	0.989	0.979	0.937	0.933	0.937	0.955
	2011	1.008	1.000	1.004	-	1.000	0.993	0.983	0.941	0.936	0.941	0.959
	2012	1.008	1.000	1.004	1.000	-	0.993	0.983	0.941	0.936	0.941	0.959
	2013	1.015	1.007	1.011	1.007	1.007	-	0.990	0.948	0.943	0.948	0.966
	2014	1.025	1.017	1.021	1.017	1.017	1.010	-	0.994	0.989	0.994	1.013
	2015	1.071	1.063	1.067	1.063	1.063	1.055	1.006	-	0.995	1.000	1.019
	2016	1.076	1.068	1.072	1.068	1.068	1.060	1.011	1.005	-	1.005	1.025
	2017	1.071	1.063	1.067	1.063	1.063	1.055	1.006	1.000	0.995	-	1.019
	2018	1.051	1.043	1.047	1.043	1.043	1.035	0.987	0.981	0.976	0.981	-

*Factors in this table are used to adjust previous year AADTs to a more current year for similarly classed roads (e.g. to adjust a 2014 urban interstate AADT to a 2017 equivalent, you would multiply the 2014 AADT by 1.040).

Average of Annual Growth Rates					
Factor Group	U1_SWG	U2_SWG	R1_SWGA	R2_SWGA	R3_SWGA
Average of Last Five (5) Annual Growth Rates	1.015	1.010	1.011	1.012	0.999
Average of Last Ten (10) Annual Growth Rates	1.005	1.005	1.007	1.009	1.001

TRANSITION FROM OLD TO NEW FUNCTIONAL CLASSIFICATION AND FACTOR GROUPS

Old Functional Class Code	2010 Functional Class Code	2010 Functional Class Description	Rural Code	Factor Group - Seasonal, Weekday, and Growth	Factor Group - Axle
01	1	Interstates	0	R1_SWGA	R1_SWGA
Not Applicable	2	Principal Arterial (Freeways and Expressways)	0	R1_SWGA	R1_SWGA
02	3	Other Principal Arterials	0	R2_SWGA	R2_SWGA
06	4	Minor Arterials	0	R2_SWGA	R2_SWGA
07	5	Major Collectors	0	R3_SWGA	R3_SWGA
08	6	Minor Collectors	0	R3_SWGA	R3_SWGA
09	7	Locals	0	R3_SWGA	R3_SWGA
11	1	Interstates	1	U1_SWG	U1_A
12	2	Principal Arterial (Freeways and Expressways)	1	U1_SWG	U2_A
14	3	Other Principal Arterials	1	U2_SWG	U2_A
16	4	Minor Arterials	1	U2_SWG	U3_A
17	5	Major Collectors	1	U2_SWG	U3_A
Not Applicable	6	Minor Collectors	1	U2_SWG	U3_A
19	7	Locals	1	U2_SWG	U3_A
11	1	Interstates	2	U1_SWG	U1_A
12	2	Principal Arterial (Freeways and Expressways)	2	U1_SWG	U2_A
14	3	Other Principal Arterials	2	U2_SWG	U2_A
16	4	Minor Arterials	2	U2_SWG	U3_A
17	5	Major Collectors	2	U2_SWG	U3_A
Not Applicable	6	Minor Collectors	2	U2_SWG	U3_A
19	7	Locals	2	U2_SWG	U3_A
01	1	Interstates	3	R1_SWGA	R1_SWGA
Not Applicable	2	Principal Arterial (Freeways and Expressways)	3	R1_SWGA	R1_SWGA
02	3	Other Principal Arterials	3	R2_SWGA	R2_SWGA
06	4	Minor Arterials	3	R2_SWGA	R2_SWGA
07	5	Major Collectors	3	R3_SWGA	R3_SWGA
08	6	Minor Collectors	3	R3_SWGA	R3_SWGA
09	7	Locals	3	R3_SWGA	R3_SWGA

Factor Initial
S = Seasonal Adjustment
W = Weekday Adjustment
G = Annual Growth
A = Axle Adjustment

Rural Code
0 = Outside Urban Area Boundary, Outside Corporation Boundary
1 = Inside Urban Area Boundary, Inside Corporation Boundary
2 = Inside Urban Area Boundary, Outside Corporation Boundary
3 = Outside Urban Area Boundary, Inside Corporation Boundary