

Minnesota Department of Transportation



Axle Factors for 2020 (must be used if counting equipment is not classifying data)

These axle factors are for applying to raw axle hits, NOT raw data that is already converted to Pairs of Axles. If you only have data as Pairs of Axles multiply this factor by two before using. Short-duration counts from March to October are best suited to determining AADT. Short-duration counts outside these months may not be accepted by MnDOT for determining AADT.

These axle factor groups and values are new as of 2020 and for now are the same value for each month within each factor group, but that could change. These factors were created from a three year average across 2020-2018 of continuous and short-term classification counts.

Group (Urban/Rural Functional Class)	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1-Rural Interstate	0.408	0.408	0.408	0.408	0.408	0.408	0.408	0.408	0.408	0.408	0.408	0.408
1-Urban Interstate	0.443	0.443	0.443	0.443	0.443	0.443	0.443	0.443	0.443	0.443	0.443	0.443
2-Rural Principal Arterial OFE	0.438	0.438	0.438	0.438	0.438	0.438	0.438	0.438	0.438	0.438	0.438	0.438
2-Urban Principal Arterial OFE	0.460	0.460	0.460	0.460	0.460	0.460	0.460	0.460	0.460	0.460	0.460	0.460
3-Rural Principal Arterial Other	0.434	0.434	0.434	0.434	0.434	0.434	0.434	0.434	0.434	0.434	0.434	0.434
3-Urban Principal Arterial Other	0.468	0.468	0.468	0.468	0.468	0.468	0.468	0.468	0.468	0.468	0.468	0.468
4-Rural Minor Arterial	0.440	0.440	0.440	0.440	0.440	0.440	0.440	0.440	0.440	0.440	0.440	0.440
4-Urban Minor Arterial	0.479	0.479	0.479	0.479	0.479	0.479	0.479	0.479	0.479	0.479	0.479	0.479
5-Rural Major Collector	0.456	0.456	0.456	0.456	0.456	0.456	0.456	0.456	0.456	0.456	0.456	0.456
5-Urban Major Collector	0.481	0.481	0.481	0.481	0.481	0.481	0.481	0.481	0.481	0.481	0.481	0.481
6-Rural Minor Collector	0.475	0.475	0.475	0.475	0.475	0.475	0.475	0.475	0.475	0.475	0.475	0.475
6-Urban Minor Collector	0.480	0.480	0.480	0.480	0.480	0.480	0.480	0.480	0.480	0.480	0.480	0.480
7-Rural Local	0.444	0.444	0.444	0.444	0.444	0.444	0.444	0.444	0.444	0.444	0.444	0.444
7-Urban Local	0.451	0.451	0.451	0.451	0.451	0.451	0.451	0.451	0.451	0.451	0.451	0.451

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Daily Factors for 2020 (must be used in conjunction with Monthly Factors)

Based Upon 2020 volume data from Continuous Collection Sites. The set day of the count determines the factor applied. Short-duration counts from March to October set during the weekdays are best suited to determining AADT. Short-duration counts outside these days and months may not be accepted by MnDOT for determining AADT.

Group	Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
11 - Similar Week Day/Week End	Sunday	1.322	1.322	1.356	1.484	1.306	1.200	1.196	1.184	1.197	1.240	1.303	1.354
	Monday	0.954	0.987	0.955	0.959	1.029	1.018	0.985	1.010	1.047	1.001	0.948	0.933
	Tuesday	0.939	0.979	0.978	0.947	0.984	1.014	0.996	0.998	1.016	1.036	0.970	0.953
	Wednesday	1.049	1.002	0.941	0.917	0.949	0.983	0.943	0.979	0.999	0.988	0.923	0.976
	Thursday	0.910	0.949	0.918	0.901	0.915	0.954	0.913	0.940	0.955	0.951	1.038	0.949
	Friday	0.880	0.861	0.867	0.892	0.851	0.859	0.896	0.890	0.861	0.856	0.872	0.933
	Saturday	1.133	1.065	1.250	1.158	1.140	1.100	1.192	1.089	1.077	1.079	1.127	1.084
Group	Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
17 - Mod High Week End/Mod High Summer	Sunday	1.065	1.072	1.139	1.395	1.157	1.010	0.986	0.980	1.007	0.984	1.104	1.155
	Monday	1.009	1.053	1.029	0.974	1.056	1.072	1.024	1.060	1.044	1.036	1.006	0.972
	Tuesday	1.026	1.081	1.043	0.963	1.055	1.092	1.099	1.091	1.125	1.125	1.046	1.013
	Wednesday	1.096	1.091	0.970	0.941	0.999	1.052	1.024	1.060	1.104	1.035	0.942	1.027
	Thursday	0.932	0.993	0.932	0.907	0.934	0.984	0.938	0.964	0.988	1.016	1.047	0.954
	Friday	0.870	0.812	0.865	0.883	0.840	0.829	0.858	0.865	0.811	0.853	0.849	0.921
	Saturday	1.087	1.000	1.127	1.120	1.078	1.058	1.152	1.042	1.028	1.081	1.100	1.026
Group	Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
4 - High Week End/High Summer	Sunday	1.247	1.189	1.243	1.248	1.090	1.043	1.041	1.049	1.045	1.047	1.195	1.287
	Monday	0.991	1.015	1.000	0.987	1.031	1.088	1.033	1.073	1.067	1.068	0.999	0.974
	Tuesday	1.007	1.031	1.021	0.985	1.106	1.113	1.081	1.070	1.134	1.101	1.007	0.946
	Wednesday	1.065	1.075	0.985	0.971	1.058	1.077	0.997	1.019	1.122	1.035	0.970	0.992
	Thursday	0.927	0.989	0.953	0.935	0.954	1.006	0.942	0.949	1.015	0.984	1.000	0.948
	Friday	0.848	0.820	0.839	0.911	0.828	0.819	0.860	0.868	0.806	0.845	0.828	0.929
	Saturday	1.097	1.048	1.155	1.099	1.046	0.995	1.131	1.046	0.984	1.077	1.155	1.054
Group	Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
9 - High Week Day/Commuter	Sunday	1.381	1.427	1.476	1.524	1.395	1.287	1.273	1.252	1.257	1.306	1.399	1.418
	Monday	0.934	0.982	0.918	0.942	1.032	0.992	0.964	0.986	1.051	0.971	0.924	0.910
	Tuesday	0.907	0.937	0.955	0.926	0.941	0.967	0.956	0.958	0.967	0.994	0.929	0.928
	Wednesday	1.021	0.939	0.917	0.900	0.911	0.936	0.914	0.951	0.952	0.947	0.882	0.940
	Thursday	0.886	0.921	0.897	0.894	0.893	0.922	0.894	0.921	0.921	0.928	1.042	0.945
	Friday	0.896	0.880	0.894	0.905	0.857	0.873	0.910	0.905	0.876	0.876	0.883	0.942
	Saturday	1.189	1.111	1.262	1.181	1.174	1.157	1.250	1.137	1.094	1.105	1.154	1.115

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Monthly Factors for 2020 (must be used in conjunction with Daily Factors)

Based Upon 2020 volume data from Continuous Collection Sites. Short-duration counts from March to October are best suited to determining AADT. Short-duration counts outside these months may not be accepted by MnDOT for determining AADT.

Group	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
11 - Similar Week Day/Week End	1.014	0.993	1.157	1.443	1.104	0.916	0.902	0.908	0.894	0.944	1.064	1.098
17 - Mod High Week End/Mod High Summer	1.036	0.969	1.131	1.536	1.119	0.916	0.848	0.830	0.849	0.926	1.048	1.075
4 - High Week End/High Summer	1.236	1.173	1.358	1.649	0.987	0.795	0.801	0.823	0.782	0.928	1.186	1.242
9 - High Week Day/Commuter	0.945	0.905	1.117	1.461	1.152	0.939	0.921	0.882	0.888	0.937	1.084	1.117