

Appendix F. Emission Factors (grams/mile)

2002 Transportation Conformity Emission Factors for Wake County

Wake - AM Peak Road Type	I&M		No I&M	
	VOC	NO _x	VOC	NO _x
Rural Interstate	1.012	6.269	1.062	6.278
Rural Other Principal Arterial	1.110	3.214	1.174	3.224
Rural Minor Arterial	1.170	2.240	1.241	2.250
Rural Major Collector	1.187	2.000	1.260	2.010
Rural Minor Collector	1.193	1.978	1.267	1.988
Rural Local	1.197	1.943	1.271	1.954
Urban Interstate	1.101	3.498	1.164	3.508
Freeway & Expressway	1.131	2.690	1.198	2.700
Urban Other Principle Arterial	1.233	1.862	1.310	1.873
Urban Minor Arterial	1.239	1.680	1.317	1.691
Urban Collector	1.254	1.592	1.335	1.603
Urban Local	1.241	1.777	1.319	1.788
County Total	14.068	30.743	14.918	30.867

Wake - PM Peak Road Type	I&M		No I&M	
	VOC	NO _x	VOC	NO _x
Rural Interstate	1.014	5.971	1.065	5.980
Rural Other Principal Arterial	1.110	3.214	1.174	3.224
Rural Minor Arterial	1.170	2.240	1.241	2.250
Rural Major Collector	1.187	2.000	1.260	2.010
Rural Minor Collector	1.193	1.978	1.267	1.988
Rural Local	1.197	1.943	1.271	1.954
Urban Interstate	1.098	3.546	1.160	3.555
Freeway & Expressway	1.126	2.781	1.193	2.791
Urban Other Principle Arterial	1.233	1.862	1.310	1.873
Urban Minor Arterial	1.239	1.680	1.317	1.691
Urban Collector	1.254	1.592	1.335	1.603
Urban Local	1.235	1.783	1.312	1.794
County Total	14.056	30.590	14.905	30.713

Wake - Off Peak Road Type	I&M		No I&M	
	VOC	NO _x	VOC	NO _x
Rural Interstate	1.011	6.411	1.061	6.420
Rural Other Principal Arterial	1.108	3.271	1.171	3.281
Rural Minor Arterial	1.148	2.353	1.217	2.363
Rural Major Collector	1.178	2.032	1.250	2.042
Rural Minor Collector	1.188	1.990	1.262	2.000
Rural Local	1.193	1.955	1.266	1.965
Urban Interstate	1.080	3.973	1.140	3.983
Freeway & Expressway	1.119	2.906	1.185	2.917
Urban Other Principle Arterial	1.199	1.912	1.273	1.923
Urban Minor Arterial	1.212	1.716	1.288	1.727
Urban Collector	1.242	1.603	1.321	1.614
Urban Local	1.229	1.789	1.306	1.800
County Total	13.907	31.911	14.740	32.035

2002 Transportation Conformity Emission Factors for Durham County

Durham - AM Peak Road Type	I&M		No I&M	
	VOC	NOx	VOC	NOx
Rural Interstate	1.011	6.411	1.061	6.420
Rural Other Principal Arterial	1.112	3.154	1.177	3.164
Rural Minor Arterial	1.148	2.353	1.217	2.363
Rural Major Collector	1.169	2.070	1.241	2.080
Rural Minor Collector	1.162	2.094	1.233	2.104
Rural Local	1.208	1.918	1.283	1.929
Urban Interstate	1.118	3.337	1.182	3.346
Freeway & Expressway	1.149	2.536	1.218	2.546
Urban Other Principle Arterial	1.240	1.855	1.317	1.866
Urban Minor Arterial	1.272	1.677	1.354	1.688
Urban Collector	1.236	1.607	1.315	1.619
Urban Local	1.258	1.775	1.337	1.786
County Total	14.083	30.787	14.935	30.911

Durham - PM Peak Road Type	I&M		No I&M	
	VOC	NOx	VOC	NOx
Rural Interstate	1.011	6.411	1.061	6.420
Rural Other Principal Arterial	1.116	3.118	1.181	3.128
Rural Minor Arterial	1.144	2.388	1.213	2.398
Rural Major Collector	1.169	2.070	1.241	2.080
Rural Minor Collector	1.162	2.094	1.233	2.104
Rural Local	1.202	1.931	1.277	1.942
Urban Interstate	1.113	3.368	1.177	3.378
Freeway & Expressway	1.157	2.495	1.227	2.506
Urban Other Principle Arterial	1.233	1.862	1.310	1.873
Urban Minor Arterial	1.262	1.673	1.342	1.684
Urban Collector	1.236	1.607	1.315	1.619
Urban Local	1.258	1.775	1.337	1.786
County Total	14.063	30.792	14.914	30.918

Durham - Off Peak Road Type	I&M		No I&M	
	VOC	NOx	VOC	NOx
Rural Interstate	1.011	6.411	1.061	6.420
Rural Other Principal Arterial	1.112	3.154	1.177	3.164
Rural Minor Arterial	1.141	2.421	1.208	2.432
Rural Major Collector	1.165	2.088	1.236	2.098
Rural Minor Collector	1.162	2.094	1.233	2.104
Rural Local	1.197	1.943	1.271	1.954
Urban Interstate	1.076	4.271	1.134	4.280
Freeway & Expressway	1.126	2.781	1.193	2.791
Urban Other Principle Arterial	1.199	1.912	1.273	1.923
Urban Minor Arterial	1.239	1.680	1.317	1.691
Urban Collector	1.231	1.612	1.309	1.623
Urban Local	1.258	1.775	1.337	1.786
County Total	13.917	32.142	14.749	32.266

2002 Transportation Conformity Emission Factors for Granville County

Dutchville Township - AM Peak		No I&M	
	Road Type	VOC	NOx
	Rural Interstate	1.061	6.420
	Rural Major Collector	1.301	1.940
	Rural Minor Collector	1.272	1.976
	Rural Local	1.247	2.032
	County Total	4.881	12.368

Dutchville Township - PM Peak		No I&M	
	Road Type	VOC	NOx
	Rural Interstate	1.061	6.420
	Rural Major Collector	1.301	1.940
	Rural Minor Collector	1.272	1.976
	Rural Local	1.247	2.032
	County Total	4.881	12.368

Dutchville Township - Off Peak		No I&M	
	Road Type	VOC	NOx
	Rural Interstate	1.061	6.420
	Rural Major Collector	1.288	1.953
	Rural Minor Collector	1.262	2.000
	Rural Local	1.251	2.014
	County Total	4.862	12.387

Granville-Rural Portion		No I&M	
	Road Type	VOC	NOx
	Rural Interstate	1.626	6.349
	Rural Other Principal Arterial	1.878	3.113
	Rural Minor Arterial	1.936	2.480
	Rural Major Collector	1.989	2.207
	Rural Minor Collector	1.969	2.225
	Rural Local	1.975	2.189
	Urban Interstate	1.727	4.498
	Urban Other Principle Arterial	2.206	2.166
	Urban Minor Arterial	2.155	1.940
	Urban Collector	2.160	1.862
	Urban Local	2.146	2.045
	County Total	21.767	31.074

2002 Transportation Conformity Emission Factors for Chatham County

Chatham - AM Peak		No I&M	
	Road Type	VOC	NOx
	Rural Other Principal Arterial	1.824	3.312
	Rural Minor Arterial	1.936	2.480
	Rural Major Collector	1.909	2.334
	Rural Minor Collector	1.949	2.251
	Rural Local	1.937	2.246
	County Total	9.555	12.623

Chatham - PM Peak		No I&M	
	Road Type	VOC	NOx
	Rural Other Principal Arterial	1.833	3.269
	Rural Minor Arterial	1.946	2.464
	Rural Major Collector	1.909	2.334
	Rural Minor Collector	1.949	2.251
	Rural Local	1.937	2.246
	County Total	9.574	12.564

Chatham - Off Peak		No I&M	
	Road Type	VOC	NOx
	Rural Other Principal Arterial	1.816	3.353
	Rural Minor Arterial	1.936	2.480
	Rural Major Collector	1.909	2.334
	Rural Minor Collector	1.959	2.238
	Rural Local	1.937	2.246
	County Total	9.557	12.651

2002 Transportation Conformity Emission Factors for Person County

Person County		No I&M	
	Road Type	VOC	NOx
	Rural Other Principal Arterial	1.878	3.113
	Rural Minor Arterial	1.936	2.480
	Rural Major Collector	1.957	2.249
	Rural Minor Collector	1.969	2.225
	Rural Local	1.975	2.189
	Urban Other Principle Arterial	2.206	2.166
	Urban Minor Arterial	2.155	1.940
	Urban Collector	2.160	1.862
	Urban Local	2.146	2.045
	County Total	18.382	20.269

2002 Transportation Conformity Emission Factors for Johnston County

Johnston - AM Peak		No I&M	
	Road Type	VOC	NOx
	Rural Interstate	1.619	6.667
	Rural Other Principal Arterial	1.952	2.981
	Rural Minor Arterial	1.879	2.606
	Rural Major Collector	1.909	2.334
	Rural Minor Collector	1.949	2.251
	Rural Local	1.975	2.189
	County Total	9.308	16.839

Johnston - PM Peak		No I&M	
	Road Type	VOC	NOx
	Rural Interstate	1.622	6.510
	Rural Other Principal Arterial	1.964	2.973
	Rural Minor Arterial	1.879	2.606
	Rural Major Collector	1.919	2.315
	Rural Minor Collector	1.949	2.251
	Rural Local	1.975	2.189
	County Total	11.308	18.844

Johnston - Off Peak		No I&M	
	Road Type	VOC	NOx
	Rural Interstate	1.615	6.818
	Rural Other Principal Arterial	1.940	2.990
	Rural Minor Arterial	1.861	2.665
	Rural Major Collector	1.901	2.353
	Rural Minor Collector	1.949	2.251
	Rural Local	1.975	2.189
	County Total	11.241	19.266

Johnston-Rural Portion		No I&M	
	Road Type	VOC	NOx
	Rural Interstate	1.619	6.667
	Rural Other Principal Arterial	1.908	3.048
	Rural Minor Arterial	1.936	2.480
	Rural Major Collector	1.957	2.249
	Rural Minor Collector	1.969	2.225
	Rural Local	1.975	2.189
	Urban Interstate	1.727	4.498
	Urban Other Principle Arterial	2.206	2.166
	Urban Minor Arterial	2.155	1.940
	Urban Collector	2.160	1.862
	Urban Local	2.193	2.064
	County Total	21.805	31.388

2002 Transportation Conformity Emission Factors for Franklin County

Franklin - AM Peak		No I&M	
	Road Type	VOC	NOx
	Rural Other Principal Arterial	1.809	3.393
	Rural Minor Arterial	1.829	2.800
	Rural Major Collector	1.957	2.249
	Rural Minor Collector	1.911	2.323
	Rural Local	1.956	2.214
	County Total	9.462	12.979

Franklin - PM Peak		No I&M	
	Road Type	VOC	NOx
	Rural Other Principal Arterial	1.816	3.353
	Rural Minor Arterial	1.837	2.769
	Rural Major Collector	1.967	2.235
	Rural Minor Collector	1.911	2.323
	Rural Local	1.956	2.214
	County Total	9.487	12.894

Franklin - Off Peak		No I&M	
	Road Type	VOC	NOx
	Rural Other Principal Arterial	1.801	3.431
	Rural Minor Arterial	1.829	2.800
	Rural Major Collector	1.957	2.249
	Rural Minor Collector	1.911	2.323
	Rural Local	1.956	2.214
	County Total	9.454	13.017

Franklin - Rural Portion		No I&M	
	Road Type	VOC	NOx
	Rural Other Principal Arterial	1.888	3.082
	Rural Minor Arterial	1.946	2.464
	Rural Major Collector	1.967	2.235
	Rural Minor Collector	1.969	2.225
	Rural Local	1.975	2.189
	County Total	9.745	12.195

2002 Transportation Conformity Emission Factors for Orange County

Orange - AM Peak Road Type	I&M		No I&M	
	VOC	NOx	VOC	NOx
Rural Interstate	1.097	6.269	1.147	6.277
Rural Minor Arterial	1.251	2.358	1.321	2.369
Rural Major Collector	1.304	1.994	1.379	2.005
Rural Minor Collector	1.312	1.972	1.387	1.982
Rural Local	1.305	1.961	1.379	1.972
Urban Interstate	1.166	4.274	1.225	4.284
Freeway & Expressway	1.577	2.409	1.669	2.420
Urban Other Principle Arterial	1.376	1.866	1.455	1.877
Urban Minor Arterial	1.415	1.690	1.499	1.701
Urban Collector	1.496	1.660	1.585	1.672
Urban Local	1.553	1.889	1.644	1.901
County Total	14.852	28.342	15.690	28.460

Orange - PM Peak Road Type	I&M		No I&M	
	VOC	NOx	VOC	NOx
Rural Interstate	1.097	6.269	1.147	6.277
Rural Minor Arterial	1.251	2.358	1.321	2.369
Rural Major Collector	1.304	1.994	1.379	2.005
Rural Minor Collector	1.312	1.972	1.387	1.982
Rural Local	1.305	1.961	1.379	1.972
Urban Interstate	1.166	4.274	1.225	4.284
Freeway & Expressway	1.492	2.363	1.578	2.374
Urban Other Principle Arterial	1.355	1.869	1.433	1.879
Urban Minor Arterial	1.415	1.690	1.499	1.701
Urban Collector	1.478	1.648	1.567	1.659
Urban Local	1.529	1.870	1.619	1.882
County Total	14.704	28.268	15.534	28.384

Orange - Off Peak Road Type	I&M		No I&M	
	VOC	NOx	VOC	NOx
Rural Interstate	1.097	6.269	1.147	6.277
Rural Minor Arterial	1.246	2.393	1.315	2.404
Rural Major Collector	1.298	2.006	1.372	2.017
Rural Minor Collector	1.312	1.972	1.387	1.982
Rural Local	1.299	1.972	1.373	1.983
Urban Interstate	1.162	4.457	1.221	4.467
Freeway & Expressway	1.311	2.362	1.385	2.373
Urban Other Principle Arterial	1.340	1.881	1.417	1.892
Urban Minor Arterial	1.402	1.685	1.484	1.696
Urban Collector	1.462	1.636	1.550	1.647
Urban Local	1.509	1.855	1.597	1.866
County Total	14.438	28.488	15.248	28.604

2005 Transportation Conformity Emission Factors for Durham County

Durham - AM Peak	I&M	No I&M
Road Type	CO	CO
Rural Interstate	15.583	17.522
Rural Other Principal Arterial	16.295	18.524
Rural Minor Arterial	16.253	18.505
Rural Major Collector	16.052	18.305
Rural Minor Collector	15.946	18.185
Rural Local	15.597	17.793
Urban Interstate	15.587	17.700
Freeway & Expressway	16.028	18.264
Urban Other Principle Arterial	15.005	17.132
Urban Minor Arterial	15.259	17.435
Urban Collector	15.592	17.821
Urban Local	15.103	17.253
County Total	188.30	214.44

Durham - PM Peak	I&M	No I&M
Road Type	CO	CO
Rural Interstate	15.301	17.221
Rural Other Principal Arterial	16.194	18.412
Rural Minor Arterial	16.368	18.633
Rural Major Collector	16.164	18.430
Rural Minor Collector	15.946	18.185
Rural Local	15.705	17.915
Urban Interstate	15.790	17.924
Freeway & Expressway	16.028	18.264
Urban Other Principle Arterial	15.116	17.257
Urban Minor Arterial	15.259	17.435
Urban Collector	15.697	17.940
Urban Local	15.103	17.253
County Total	188.67	214.87

Durham - Off Peak	I&M	No I&M
Road Type	CO	CO
Rural Interstate	15.583	17.522
Rural Other Principal Arterial	16.295	18.524
Rural Minor Arterial	16.688	18.989
Rural Major Collector	16.164	18.430
Rural Minor Collector	15.946	18.185
Rural Local	15.808	18.031
Urban Interstate	16.966	19.207
Freeway & Expressway	17.162	19.525
Urban Other Principle Arterial	15.728	17.949
Urban Minor Arterial	15.587	17.806
Urban Collector	15.797	18.053
Urban Local	15.113	17.256
County Total	192.84	219.48

2005 Transportation Conformity Emission Factors for Wake County

Wake - AM Peak	I&M	No I&M
Road Type	CO	CO
Rural Interstate	15.153	17.063
Rural Other Principal Arterial	16.554	18.810
Rural Minor Arterial	15.519	17.682
Rural Major Collector	15.841	18.068
Rural Minor Collector	15.651	17.854
Rural Local	15.808	18.031
Urban Interstate	15.480	17.581
Freeway & Expressway	16.914	19.251
Urban Other Principle Arterial	15.005	17.132
Urban Minor Arterial	15.484	17.689
Urban Collector	15.350	17.556
Urban Local	15.225	17.383
County Total	187.98	214.10

Wake - PM Peak	I&M	No I&M
Road Type	CO	CO
Rural Interstate	14.606	16.476
Rural Other Principal Arterial	16.427	18.669
Rural Minor Arterial	15.519	17.682
Rural Major Collector	15.743	17.958
Rural Minor Collector	15.544	17.732
Rural Local	15.808	18.031
Urban Interstate	15.480	17.581
Freeway & Expressway	17.040	19.391
Urban Other Principle Arterial	15.116	17.257
Urban Minor Arterial	15.484	17.689
Urban Collector	15.350	17.556
Urban Local	15.225	17.383
County Total	187.34	213.41

Wake - Off Peak	I&M	No I&M
Road Type	CO	CO
Rural Interstate	15.583	17.522
Rural Other Principal Arterial	16.796	19.075
Rural Minor Arterial	16.037	18.264
Rural Major Collector	15.935	18.174
Rural Minor Collector	15.852	18.080
Rural Local	15.907	18.142
Urban Interstate	16.553	18.759
Freeway & Expressway	17.798	20.225
Urban Other Principle Arterial	15.619	17.826
Urban Minor Arterial	16.008	18.280
Urban Collector	15.697	17.940
Urban Local	15.431	17.617
County Total	193.22	219.90

2007 Transportation Conformity Emission Factors for Durham County

Durham - AM Peak Road Type	I&M		No I&M	
	VOC	NOx	VOC	NOx
Rural Interstate	0.622	3.708	0.659	3.765
Rural Other Principal Arterial	0.678	1.767	0.728	1.835
Rural Minor Arterial	0.699	1.412	0.752	1.482
Rural Major Collector	0.721	1.191	0.778	1.263
Rural Minor Collector	0.726	1.172	0.784	1.244
Rural Local	0.743	1.120	0.803	1.193
Urban Interstate	0.673	1.970	0.721	2.035
Freeway & Expressway	0.708	1.384	0.762	1.455
Urban Other Principle Arterial	0.765	1.078	0.828	1.150
Urban Minor Arterial	0.773	0.970	0.836	1.045
Urban Collector	0.764	0.932	0.827	1.007
Urban Local	0.779	1.033	0.842	1.107
County Total	8.651	17.737	9.320	18.581

Durham - PM Peak Road Type	I&M		No I&M	
	VOC	NOx	VOC	NOx
Rural Interstate	0.624	3.514	0.662	3.570
Rural Other Principal Arterial	0.681	1.742	0.731	1.810
Rural Minor Arterial	0.696	1.434	0.749	1.504
Rural Major Collector	0.718	1.204	0.774	1.276
Rural Minor Collector	0.726	1.172	0.784	1.244
Rural Local	0.740	1.129	0.798	1.201
Urban Interstate	0.668	2.030	0.715	2.095
Freeway & Expressway	0.708	1.384	0.762	1.455
Urban Other Principle Arterial	0.761	1.082	0.822	1.155
Urban Minor Arterial	0.773	0.970	0.836	1.045
Urban Collector	0.760	0.935	0.823	1.011
Urban Local	0.779	1.033	0.842	1.107
County Total	8.634	17.629	9.298	18.473

Durham - Off Peak Road Type	I&M		No I&M	
	VOC	NOx	VOC	NOx
Rural Interstate	0.622	3.708	0.659	3.765
Rural Other Principal Arterial	0.678	1.767	0.728	1.835
Rural Minor Arterial	0.688	1.497	0.739	1.567
Rural Major Collector	0.718	1.204	0.774	1.276
Rural Minor Collector	0.726	1.172	0.784	1.244
Rural Local	0.736	1.137	0.794	1.209
Urban Interstate	0.653	2.520	0.697	2.586
Freeway & Expressway	0.681	1.605	0.731	1.676
Urban Other Principle Arterial	0.735	1.116	0.794	1.188
Urban Minor Arterial	0.759	0.982	0.821	1.056
Urban Collector	0.756	0.938	0.818	1.014
Urban Local	0.772	1.031	0.835	1.104
County Total	8.524	18.677	9.174	19.520

2007 Transportation Conformity Emission Factors for Granville County

Dutchville Township - AM Peak		I&M		No I&M	
Road Type		VOC	NOx	VOC	NOx
Rural Interstate		0.636	2.841	0.677	2.897
Rural Major Collector		0.766	1.113	0.827	1.185
Rural Minor Collector		0.741	1.139	0.800	1.211
Rural Local		0.719	1.190	0.775	1.262
County Total		2.862	6.283	3.079	6.555

Dutchville Township - PM Peak		I&M		No I&M	
Road Type		VOC	NOx	VOC	NOx
Rural Interstate		0.636	2.841	0.677	2.897
Rural Major Collector		0.766	1.113	0.827	1.185
Rural Minor Collector		0.737	1.148	0.795	1.220
Rural Local		0.722	1.178	0.778	1.250
County Total		2.861	6.280	3.077	6.552

Dutchville Township - Off Peak		I&M		No I&M	
Road Type		VOC	NOx	VOC	NOx
Rural Interstate		0.636	2.841	0.677	2.897
Rural Major Collector		0.747	1.131	0.807	1.203
Rural Minor Collector		0.730	1.164	0.787	1.236
Rural Local		0.722	1.178	0.778	1.250
County Total		2.835	6.314	3.049	6.586

2007 Transportation Conformity Emission Factors for Wake County

Wake - AM Peak Road Type	I&M		No I&M	
	VOC	NOx	VOC	NOx
Rural Interstate	0.625	3.412	0.663	3.468
Rural Other Principal Arterial	0.674	1.845	0.723	1.913
Rural Minor Arterial	0.723	1.303	0.779	1.373
Rural Major Collector	0.728	1.170	0.786	1.241
Rural Minor Collector	0.737	1.148	0.795	1.220
Rural Local	0.736	1.137	0.794	1.209
Urban Interstate	0.676	1.938	0.725	2.003
Freeway & Expressway	0.685	1.546	0.736	1.616
Urban Other Principle Arterial	0.765	1.078	0.828	1.150
Urban Minor Arterial	0.763	0.978	0.826	1.053
Urban Collector	0.780	0.927	0.845	1.003
Urban Local	0.768	1.035	0.830	1.109
County Total	8.660	17.517	9.330	18.358

Wake - PM Peak Road Type	I&M		No I&M	
	VOC	NOx	VOC	NOx
Rural Interstate	0.630	3.062	0.670	3.118
Rural Other Principal Arterial	0.676	1.806	0.725	1.874
Rural Minor Arterial	0.723	1.303	0.779	1.373
Rural Major Collector	0.732	1.162	0.790	1.233
Rural Minor Collector	0.741	1.139	0.800	1.211
Rural Local	0.736	1.137	0.794	1.209
Urban Interstate	0.676	1.938	0.725	2.003
Freeway & Expressway	0.683	1.576	0.733	1.646
Urban Other Principle Arterial	0.761	1.082	0.822	1.155
Urban Minor Arterial	0.763	0.978	0.826	1.053
Urban Collector	0.780	0.927	0.845	1.003
Urban Local	0.768	1.035	0.830	1.109
County Total	8.669	17.145	9.339	17.987

Wake - Off Peak Road Type	I&M		No I&M	
	VOC	NOx	VOC	NOx
Rural Interstate	0.622	3.708	0.659	3.765
Rural Other Principal Arterial	0.670	1.918	0.718	1.986
Rural Minor Arterial	0.705	1.374	0.759	1.444
Rural Major Collector	0.725	1.177	0.782	1.249
Rural Minor Collector	0.730	1.164	0.787	1.236
Rural Local	0.732	1.145	0.790	1.217
Urban Interstate	0.657	2.326	0.702	2.391
Freeway & Expressway	0.672	1.787	0.721	1.858
Urban Other Principle Arterial	0.739	1.107	0.799	1.180
Urban Minor Arterial	0.743	1.002	0.804	1.077
Urban Collector	0.760	0.935	0.823	1.011
Urban Local	0.759	1.043	0.820	1.117
County Total	8.514	18.686	9.164	19.531

2009 Transportation Conformity Emission Factors for Durham County

Durham - AM Peak Road Type	I&M		No I&M	
	VOC	NO _x	VOC	NO _x
Rural Interstate	0.520	2.806	0.563	2.870
Rural Other Principal Arterial	0.563	1.376	0.619	1.453
Rural Minor Arterial	0.580	1.115	0.640	1.194
Rural Major Collector	0.597	0.942	0.661	1.024
Rural Minor Collector	0.601	0.928	0.666	1.009
Rural Local	0.615	0.887	0.682	0.969
Urban Interstate	0.561	1.504	0.616	1.578
Freeway & Expressway	0.585	1.080	0.648	1.160
Urban Other Principle Arterial	0.642	0.856	0.714	0.939
Urban Minor Arterial	0.643	0.772	0.716	0.857
Urban Collector	0.634	0.737	0.706	0.822
Urban Local	0.643	0.819	0.715	0.902
County Total	7.184	13.822	7.946	14.777

Durham - PM Peak Road Type	I&M		No I&M	
	VOC	NO _x	VOC	NO _x
Rural Interstate	0.521	2.728	0.564	2.792
Rural Other Principal Arterial	0.565	1.357	0.622	1.434
Rural Minor Arterial	0.577	1.132	0.637	1.212
Rural Major Collector	0.594	0.952	0.658	1.034
Rural Minor Collector	0.601	0.928	0.666	1.009
Rural Local	0.615	0.887	0.682	0.969
Urban Interstate	0.559	1.529	0.613	1.603
Freeway & Expressway	0.583	1.091	0.645	1.171
Urban Other Principle Arterial	0.632	0.852	0.702	0.935
Urban Minor Arterial	0.638	0.770	0.710	0.855
Urban Collector	0.630	0.740	0.702	0.825
Urban Local	0.643	0.819	0.715	0.902
County Total	7.158	13.785	7.916	14.741

Durham - Off Peak Road Type	I&M		No I&M	
	VOC	NO _x	VOC	NO _x
Rural Interstate	0.519	2.882	0.562	2.946
Rural Other Principal Arterial	0.563	1.376	0.619	1.453
Rural Minor Arterial	0.571	1.182	0.629	1.262
Rural Major Collector	0.594	0.952	0.658	1.034
Rural Minor Collector	0.601	0.928	0.666	1.009
Rural Local	0.609	0.900	0.675	0.982
Urban Interstate	0.544	1.965	0.594	2.040
Freeway & Expressway	0.565	1.255	0.622	1.336
Urban Other Principle Arterial	0.608	0.883	0.675	0.965
Urban Minor Arterial	0.627	0.779	0.697	0.864
Urban Collector	0.624	0.745	0.695	0.830
Urban Local	0.638	0.817	0.709	0.900
County Total	7.063	14.664	7.801	15.621

2009 Transportation Conformity Emission Factors for Granville County

Dutchville Township - AM Peak		I&M		No I&M	
Road Type		VOC	NOx	VOC	NOx
Rural Interstate		0.529	2.195	0.576	2.259
Rural Major Collector		0.632	0.880	0.702	0.962
Rural Minor Collector		0.612	0.902	0.679	0.983
Rural Local		0.595	0.942	0.659	1.024
County Total		2.368	4.919	2.616	5.228

Dutchville Township - PM Peak		I&M		No I&M	
Road Type		VOC	NOx	VOC	NOx
Rural Interstate		0.529	2.195	0.576	2.259
Rural Major Collector		0.632	0.880	0.702	0.962
Rural Minor Collector		0.609	0.909	0.676	0.990
Rural Local		0.598	0.932	0.662	1.014
County Total		2.368	4.916	2.616	5.225

Dutchville Township - Off Peak		I&M		No I&M	
Road Type		VOC	NOx	VOC	NOx
Rural Interstate		0.529	2.195	0.576	2.259
Rural Major Collector		0.618	0.894	0.685	0.976
Rural Minor Collector		0.604	0.921	0.669	1.003
Rural Local		0.598	0.932	0.662	1.014
County Total		2.349	4.942	2.592	5.252

2009 Transportation Conformity Emission Factors for Wake County

Wake - AM Peak Road Type	I&M		No I&M	
	VOC	NOx	VOC	NOx
Rural Interstate	0.523	2.477	0.568	2.541
Rural Other Principal Arterial	0.561	1.407	0.617	1.485
Rural Minor Arterial	0.598	1.029	0.662	1.108
Rural Major Collector	0.602	0.925	0.668	1.007
Rural Minor Collector	0.612	0.902	0.679	0.983
Rural Local	0.609	0.900	0.675	0.982
Urban Interstate	0.563	1.478	0.619	1.552
Freeway & Expressway	0.569	1.184	0.628	1.264
Urban Other Principle Arterial	0.637	0.854	0.708	0.937
Urban Minor Arterial	0.627	0.779	0.697	0.864
Urban Collector	0.643	0.736	0.717	0.822
Urban Local	0.634	0.820	0.705	0.903
County Total	7.178	13.491	7.943	14.448

Wake - PM Peak Road Type	I&M		No I&M	
	VOC	NOx	VOC	NOx
Rural Interstate	0.527	2.314	0.572	2.378
Rural Other Principal Arterial	0.563	1.376	0.619	1.453
Rural Minor Arterial	0.601	1.021	0.665	1.100
Rural Major Collector	0.605	0.919	0.671	1.000
Rural Minor Collector	0.616	0.894	0.683	0.976
Rural Local	0.609	0.900	0.675	0.982
Urban Interstate	0.566	1.451	0.622	1.524
Freeway & Expressway	0.568	1.208	0.626	1.289
Urban Other Principle Arterial	0.632	0.852	0.702	0.935
Urban Minor Arterial	0.627	0.779	0.697	0.864
Urban Collector	0.643	0.736	0.717	0.822
Urban Local	0.634	0.820	0.705	0.903
County Total	7.191	13.270	7.954	14.226

Wake - Off Peak Road Type	I&M		No I&M	
	VOC	NOx	VOC	NOx
Rural Interstate	0.519	2.882	0.562	2.946
Rural Other Principal Arterial	0.557	1.495	0.612	1.573
Rural Minor Arterial	0.584	1.085	0.646	1.164
Rural Major Collector	0.600	0.931	0.665	1.013
Rural Minor Collector	0.604	0.921	0.669	1.003
Rural Local	0.606	0.906	0.672	0.988
Urban Interstate	0.546	1.811	0.598	1.886
Freeway & Expressway	0.560	1.367	0.615	1.448
Urban Other Principle Arterial	0.608	0.883	0.675	0.965
Urban Minor Arterial	0.614	0.796	0.683	0.880
Urban Collector	0.630	0.740	0.702	0.825
Urban Local	0.627	0.827	0.697	0.910
County Total	7.055	14.644	7.796	15.601

2010 Transportation Conformity Emission Factors for Durham County

Durham - AM Peak		I&M			No I&M		
Road Type	VOC	NOx	CO	VOC	NOx	CO	
Rural Interstate	0.479	2.392	10.814	0.524	2.461	12.624	
Rural Other Principal Arterial	0.517	1.186	11.448	0.577	1.269	13.524	
Rural Minor Arterial	0.532	0.968	11.436	0.596	1.053	13.525	
Rural Major Collector	0.547	0.822	11.322	0.615	0.909	13.402	
Rural Minor Collector	0.551	0.810	11.252	0.620	0.897	13.316	
Rural Local	0.564	0.776	11.022	0.635	0.863	13.037	
Urban Interstate	0.515	1.292	10.887	0.574	1.370	12.838	
Freeway & Expressway	0.537	0.937	11.293	0.603	1.022	13.361	
Urban Other Principle Arterial	0.588	0.749	10.623	0.664	0.837	12.568	
Urban Minor Arterial	0.588	0.679	10.812	0.666	0.769	12.799	
Urban Collector	0.580	0.650	10.970	0.657	0.740	12.992	
Urban Local	0.589	0.718	10.715	0.665	0.807	12.672	
County Total	6.587	11.979	132.594	7.396	12.997	156.658	

Durham - PM Peak		I&M			No I&M		
Road Type	VOC	NOx	CO	VOC	NOx	CO	
Rural Interstate	0.480	2.257	10.613	0.526	2.325	12.402	
Rural Other Principal Arterial	0.518	1.170	11.380	0.579	1.252	13.444	
Rural Minor Arterial	0.530	0.983	11.513	0.593	1.068	13.615	
Rural Major Collector	0.544	0.831	11.397	0.612	0.918	13.491	
Rural Minor Collector	0.548	0.819	11.329	0.617	0.906	13.409	
Rural Local	0.564	0.776	11.022	0.635	0.863	13.037	
Urban Interstate	0.515	1.292	10.887	0.574	1.370	12.838	
Freeway & Expressway	0.537	0.937	11.293	0.603	1.022	13.361	
Urban Other Principle Arterial	0.578	0.746	10.631	0.653	0.833	12.569	
Urban Minor Arterial	0.584	0.678	10.817	0.660	0.767	12.801	
Urban Collector	0.574	0.654	11.113	0.649	0.745	13.166	
Urban Local	0.589	0.718	10.715	0.665	0.807	12.672	
County Total	6.561	11.861	132.710	7.366	12.876	156.805	

Durham - Off Peak		I&M			No I&M		
Road Type	VOC	NOx	CO	VOC	NOx	CO	
Rural Interstate	0.478	2.457	10.909	0.524	2.526	12.730	
Rural Other Principal Arterial	0.517	1.186	11.448	0.577	1.269	13.524	
Rural Minor Arterial	0.524	1.026	11.726	0.586	1.111	13.868	
Rural Major Collector	0.544	0.831	11.397	0.612	0.918	13.491	
Rural Minor Collector	0.548	0.819	11.329	0.617	0.906	13.409	
Rural Local	0.558	0.787	11.161	0.628	0.874	13.206	
Urban Interstate	0.500	1.686	11.897	0.554	1.765	14.001	
Freeway & Expressway	0.519	1.087	12.052	0.580	1.173	14.259	
Urban Other Principle Arterial	0.557	0.772	11.110	0.627	0.859	13.151	
Urban Minor Arterial	0.574	0.685	11.034	0.649	0.775	13.064	
Urban Collector	0.568	0.659	11.242	0.643	0.749	13.322	
Urban Local	0.585	0.716	10.719	0.660	0.805	12.673	
County Total	6.472	12.711	136.024	7.257	13.730	160.698	

2010 Transportation Conformity Emission Factors for Wake County

Wake - AM Peak Road Type	I&M			No I&M		
	VOC	NOx	CO	VOC	NOx	CO
Rural Interstate	0.499	1.683	9.579	0.550	1.750	11.225
Rural Other Principal Arterial	0.515	1.213	11.538	0.575	1.296	13.629
Rural Minor Arterial	0.551	0.888	10.886	0.619	0.972	12.865
Rural Major Collector	0.554	0.802	11.117	0.624	0.889	13.155
Rural Minor Collector	0.561	0.788	10.985	0.632	0.874	12.994
Rural Local	0.558	0.787	11.161	0.628	0.874	13.206
Urban Interstate	0.519	1.246	10.735	0.579	1.325	12.660
Freeway & Expressway	0.523	1.026	11.796	0.585	1.112	13.960
Urban Other Principle Arterial	0.583	0.747	10.627	0.658	0.835	12.569
Urban Minor Arterial	0.577	0.683	10.966	0.652	0.773	12.981
Urban Collector	0.588	0.649	10.886	0.666	0.740	12.894
Urban Local	0.581	0.720	10.793	0.656	0.808	12.763
County Total	6.609	11.232	131.069	7.424	12.248	154.901

Wake - PM Peak Road Type	I&M			No I&M		
	VOC	NOx	CO	VOC	NOx	CO
Rural Interstate	0.515	1.564	9.251	0.569	1.631	10.831
Rural Other Principal Arterial	0.518	1.170	11.380	0.579	1.252	13.444
Rural Minor Arterial	0.548	0.894	10.949	0.616	0.978	12.941
Rural Major Collector	0.554	0.802	11.117	0.624	0.889	13.155
Rural Minor Collector	0.561	0.788	10.985	0.632	0.874	12.994
Rural Local	0.561	0.782	11.093	0.632	0.869	13.123
Urban Interstate	0.521	1.232	10.675	0.582	1.311	12.588
Freeway & Expressway	0.521	1.047	11.884	0.583	1.133	14.063
Urban Other Principle Arterial	0.578	0.746	10.631	0.653	0.833	12.569
Urban Minor Arterial	0.574	0.685	11.034	0.649	0.775	13.064
Urban Collector	0.584	0.647	10.892	0.661	0.738	12.897
Urban Local	0.581	0.720	10.793	0.656	0.808	12.763
County Total	6.616	11.077	130.684	7.436	12.091	154.432

Wake - Off Peak Road Type	I&M			No I&M		
	VOC	NOx	CO	VOC	NOx	CO
Rural Interstate	0.478	2.457	10.909	0.524	2.526	12.730
Rural Other Principal Arterial	0.511	1.312	11.868	0.568	1.395	14.011
Rural Minor Arterial	0.536	0.942	11.293	0.601	1.027	13.354
Rural Major Collector	0.549	0.813	11.245	0.618	0.899	13.309
Rural Minor Collector	0.553	0.805	11.190	0.623	0.892	13.241
Rural Local	0.556	0.793	11.226	0.625	0.880	13.284
Urban Interstate	0.503	1.554	11.615	0.557	1.634	13.681
Freeway & Expressway	0.514	1.210	12.484	0.572	1.297	14.760
Urban Other Principle Arterial	0.557	0.772	11.110	0.627	0.859	13.151
Urban Minor Arterial	0.563	0.700	11.313	0.635	0.789	13.401
Urban Collector	0.577	0.652	11.043	0.653	0.743	13.081
Urban Local	0.575	0.725	10.929	0.648	0.813	12.929
County Total	6.472	12.735	136.225	7.251	13.754	160.932

2012 Transportation Conformity Emission Factors for Durham County

Durham - AM Peak Road Type	I&M		No I&M	
	VOC	NO _x	VOC	NO _x
Rural Interstate	0.403	1.688	0.454	1.764
Rural Other Principal Arterial	0.430	0.869	0.496	0.960
Rural Minor Arterial	0.442	0.722	0.512	0.815
Rural Major Collector	0.452	0.621	0.527	0.717
Rural Minor Collector	0.456	0.613	0.531	0.709
Rural Local	0.466	0.589	0.544	0.685
Urban Interstate	0.429	0.939	0.493	1.025
Freeway & Expressway	0.444	0.698	0.516	0.792
Urban Other Principle Arterial	0.484	0.570	0.567	0.666
Urban Minor Arterial	0.484	0.522	0.568	0.621
Urban Collector	0.477	0.502	0.561	0.601
Urban Local	0.486	0.549	0.569	0.647
County Total	5.453	8.882	6.338	10.002

Durham - PM Peak Road Type	I&M		No I&M	
	VOC	NO _x	VOC	NO _x
Rural Interstate	0.404	1.596	0.455	1.671
Rural Other Principal Arterial	0.431	0.858	0.497	0.948
Rural Minor Arterial	0.440	0.732	0.510	0.826
Rural Major Collector	0.451	0.627	0.524	0.723
Rural Minor Collector	0.454	0.619	0.529	0.715
Rural Local	0.466	0.589	0.544	0.685
Urban Interstate	0.429	0.939	0.493	1.025
Freeway & Expressway	0.444	0.698	0.516	0.792
Urban Other Principle Arterial	0.476	0.567	0.557	0.663
Urban Minor Arterial	0.481	0.521	0.564	0.619
Urban Collector	0.473	0.505	0.555	0.605
Urban Local	0.486	0.549	0.569	0.647
County Total	5.435	8.800	6.313	9.919

Durham - Off Peak Road Type	I&M		No I&M	
	VOC	NO _x	VOC	NO _x
Rural Interstate	0.403	1.733	0.453	1.809
Rural Other Principal Arterial	0.430	0.869	0.496	0.960
Rural Minor Arterial	0.437	0.762	0.504	0.856
Rural Major Collector	0.451	0.627	0.524	0.723
Rural Minor Collector	0.454	0.619	0.529	0.715
Rural Local	0.462	0.597	0.538	0.693
Urban Interstate	0.419	1.209	0.478	1.297
Freeway & Expressway	0.432	0.802	0.498	0.897
Urban Other Principle Arterial	0.459	0.586	0.537	0.682
Urban Minor Arterial	0.473	0.527	0.554	0.625
Urban Collector	0.468	0.509	0.549	0.608
Urban Local	0.482	0.548	0.564	0.645
County Total	5.370	9.388	6.224	10.510

2012 Transportation Conformity Emission Factors for Granville County

Dutchville Township - AM Peak		I&M		No I&M	
Road Type		VOC	NOx	VOC	NOx
Rural Interstate		0.408	1.332	0.462	1.407
Rural Major Collector		0.481	0.584	0.562	0.679
Rural Minor Collector		0.466	0.592	0.544	0.688
Rural Local		0.454	0.617	0.529	0.713
County Total		1.809	3.125	2.097	3.487

Dutchville Township - PM Peak		I&M		No I&M	
Road Type		VOC	NOx	VOC	NOx
Rural Interstate		0.408	1.332	0.462	1.407
Rural Major Collector		0.477	0.582	0.558	0.678
Rural Minor Collector		0.462	0.601	0.538	0.697
Rural Local		0.453	0.623	0.526	0.719
County Total		1.800	3.138	2.084	3.501

Dutchville Township - Off Peak		I&M		No I&M	
Road Type		VOC	NOx	VOC	NOx
Rural Interstate		0.408	1.332	0.462	1.407
Rural Major Collector		0.467	0.592	0.545	0.687
Rural Minor Collector		0.458	0.609	0.533	0.705
Rural Local		0.454	0.617	0.529	0.713
County Total		1.787	3.150	2.069	3.512

2012 Transportation Conformity Emission Factors for Wake County

Wake - AM Peak Road Type	I&M		No I&M	
	VOC	NOx	VOC	NOx
Rural Interstate	0.417	1.203	0.474	1.277
Rural Other Principal Arterial	0.429	0.887	0.494	0.979
Rural Minor Arterial	0.456	0.665	0.530	0.758
Rural Major Collector	0.458	0.607	0.534	0.702
Rural Minor Collector	0.464	0.597	0.541	0.692
Rural Local	0.462	0.597	0.538	0.693
Urban Interstate	0.431	0.907	0.497	0.994
Freeway & Expressway	0.434	0.759	0.503	0.854
Urban Other Principle Arterial	0.480	0.568	0.562	0.665
Urban Minor Arterial	0.475	0.525	0.557	0.623
Urban Collector	0.484	0.501	0.569	0.601
Urban Local	0.480	0.550	0.561	0.647
County Total	5.470	8.366	6.360	9.485

Wake - PM Peak Road Type	I&M		No I&M	
	VOC	NOx	VOC	NOx
Rural Interstate	0.430	1.120	0.489	1.194
Rural Other Principal Arterial	0.431	0.858	0.497	0.948
Rural Minor Arterial	0.454	0.670	0.528	0.763
Rural Major Collector	0.458	0.607	0.534	0.702
Rural Minor Collector	0.464	0.597	0.541	0.692
Rural Local	0.464	0.593	0.541	0.689
Urban Interstate	0.433	0.898	0.499	0.984
Freeway & Expressway	0.433	0.774	0.501	0.869
Urban Other Principle Arterial	0.476	0.567	0.557	0.663
Urban Minor Arterial	0.473	0.527	0.554	0.625
Urban Collector	0.480	0.500	0.564	0.600
Urban Local	0.480	0.550	0.561	0.647
County Total	5.476	8.261	6.366	9.376

Wake - Off Peak Road Type	I&M		No I&M	
	VOC	NOx	VOC	NOx
Rural Interstate	0.403	1.733	0.453	1.809
Rural Other Principal Arterial	0.426	0.956	0.489	1.047
Rural Minor Arterial	0.445	0.704	0.516	0.797
Rural Major Collector	0.454	0.614	0.529	0.710
Rural Minor Collector	0.458	0.609	0.533	0.705
Rural Local	0.460	0.601	0.536	0.697
Urban Interstate	0.420	1.119	0.480	1.207
Freeway & Expressway	0.429	0.887	0.493	0.982
Urban Other Principle Arterial	0.459	0.586	0.537	0.682
Urban Minor Arterial	0.464	0.537	0.543	0.636
Urban Collector	0.475	0.504	0.558	0.603
Urban Local	0.475	0.554	0.555	0.651
County Total	5.368	9.404	6.222	10.526

2015 Transportation Conformity Emission Factors for Durham County

Durham - AM Peak Road Type	I&M			No I&M		
	VOC	NOx	CO	VOC	NOx	CO
Rural Interstate	0.326	1.030	8.594	0.379	1.112	10.520
Rural Other Principal Arterial	0.343	0.561	9.086	0.412	0.658	11.295
Rural Minor Arterial	0.352	0.478	9.077	0.425	0.578	11.300
Rural Major Collector	0.359	0.419	8.978	0.437	0.521	11.192
Rural Minor Collector	0.362	0.414	8.924	0.441	0.516	11.121
Rural Local	0.371	0.400	8.737	0.452	0.502	10.883
Urban Interstate	0.342	0.599	8.633	0.410	0.692	10.709
Freeway & Expressway	0.353	0.462	8.957	0.429	0.562	11.159
Urban Other Principle Arterial	0.384	0.387	8.405	0.470	0.490	10.475
Urban Minor Arterial	0.384	0.361	8.561	0.472	0.466	10.677
Urban Collector	0.378	0.349	8.689	0.465	0.455	10.843
Urban Local	0.386	0.377	8.485	0.473	0.480	10.569
County Total	4.340	5.837	105.126	5.265	7.032	130.743

Durham - PM Peak Road Type	I&M			No I&M		
	VOC	NOx	CO	VOC	NOx	CO
Rural Interstate	0.326	0.976	8.430	0.380	1.057	10.333
Rural Other Principal Arterial	0.344	0.554	9.031	0.414	0.651	11.226
Rural Minor Arterial	0.351	0.484	9.140	0.424	0.584	11.378
Rural Major Collector	0.358	0.423	9.039	0.435	0.508	11.268
Rural Minor Collector	0.361	0.418	8.987	0.439	0.521	11.201
Rural Local	0.371	0.400	8.737	0.452	0.502	10.883
Urban Interstate	0.342	0.599	8.633	0.410	0.692	10.709
Freeway & Expressway	0.353	0.462	8.957	0.429	0.562	11.159
Urban Other Principle Arterial	0.378	0.385	8.411	0.463	0.488	10.476
Urban Minor Arterial	0.381	0.360	8.565	0.468	0.465	10.679
Urban Collector	0.374	0.351	8.806	0.460	0.458	10.993
Urban Local	0.386	0.377	8.485	0.473	0.480	10.569
County Total	4.325	5.789	105.221	4.774	6.968	130.874

Durham - Off Peak Road Type	I&M			No I&M		
	VOC	NOx	CO	VOC	NOx	CO
Rural Interstate	0.326	1.056	8.673	0.379	1.138	10.610
Rural Other Principal Arterial	0.343	0.561	9.086	0.412	0.658	11.295
Rural Minor Arterial	0.348	0.502	9.313	0.419	0.603	11.593
Rural Major Collector	0.358	0.423	9.039	0.435	0.525	11.268
Rural Minor Collector	0.361	0.418	8.987	0.439	0.521	11.201
Rural Local	0.368	0.405	8.851	0.448	0.508	11.028
Urban Interstate	0.337	0.759	9.463	0.399	0.854	11.702
Freeway & Expressway	0.344	0.525	9.579	0.415	0.627	11.928
Urban Other Principle Arterial	0.364	0.398	8.804	0.445	0.501	10.978
Urban Minor Arterial	0.375	0.364	8.743	0.460	0.469	10.905
Urban Collector	0.371	0.354	8.912	0.456	0.460	11.127
Urban Local	0.384	0.376	8.488	0.412	0.479	10.569
County Total	4.279	6.141	107.938	5.119	7.343	134.204

2015 Transportation Conformity Emission Factors for Granville County (Dutchville Township)

DT(Gran) - AM Peak Road Type	I&M		No I&M	
	VOC	NOx	VOC	NOx
Rural Interstate	0.328	0.821	0.385	0.901
Rural Major Collector	0.382	0.395	0.467	0.497
Rural Minor Collector	0.371	0.401	0.452	0.503
Rural Local	0.362	0.418	0.440	0.521
County Total	1.443	2.035	1.744	2.422

DT(Gran) - PM Peak Road Type	I&M		No I&M	
	VOC	NOx	VOC	NOx
Rural Interstate	0.328	0.821	0.385	0.901
Rural Major Collector	0.379	0.394	0.463	0.496
Rural Minor Collector	0.367	0.407	0.447	0.509
Rural Local	0.360	0.421	0.438	0.524
County Total	1.434	2.043	1.733	2.430

DT(Gran) - OP Road Type	I&M		No I&M	
	VOC	NOx	VOC	NOx
Rural Interstate	0.328	0.821	0.385	0.901
Rural Major Collector	0.371	0.400	0.452	0.502
Rural Minor Collector	0.364	0.412	0.443	0.514
Rural Local	0.362	0.418	0.440	0.521
County Total	1.425	2.051	1.720	2.438

2015 Transportation Conformity Emission Factors for Wake County							
Wake - AM Peak	I&M			No I&M			
Road Type	VOC	NOx	CO	VOC	NOx	CO	
Rural Interstate	0.335	0.744	7.580	0.394	0.824	9.331	
Rural Other Principal Arterial	0.343	0.572	9.160	0.411	0.670	11.384	
Rural Minor Arterial	0.363	0.443	8.627	0.441	0.542	10.734	
Rural Major Collector	0.364	0.410	8.810	0.443	0.512	10.980	
Rural Minor Collector	0.369	0.404	8.705	0.450	0.506	10.844	
Rural Local	0.368	0.405	8.851	0.448	0.508	11.028	
Urban Interstate	0.345	0.580	8.509	0.413	0.672	10.557	
Freeway & Expressway	0.346	0.499	9.368	0.418	0.601	11.671	
Urban Other Principle Arterial	0.380	0.386	8.408	0.466	0.489	10.476	
Urban Minor Arterial	0.377	0.363	8.687	0.463	0.468	10.834	
Urban Collector	0.383	0.349	8.620	0.472	0.455	10.759	
Urban Local	0.381	0.377	8.549	0.466	0.481	10.646	
County Total	4.354	5.532	103.87	5.29	6.73	129.24	
Wake - PM Peak	I&M			No I&M			
Road Type	VOC	NOx	CO	VOC	NOx	CO	
Rural Interstate	0.346	0.695	7.309	0.407	0.775	8.992	
Rural Other Principal Arterial	0.344	0.554	9.031	0.414	0.651	11.226	
Rural Minor Arterial	0.361	0.446	8.678	0.438	0.545	10.799	
Rural Major Collector	0.364	0.410	8.810	0.443	0.512	10.980	
Rural Minor Collector	0.369	0.404	8.705	0.450	0.506	10.844	
Rural Local	0.369	0.403	8.796	0.450	0.505	10.957	
Urban Interstate	0.346	0.574	8.459	0.415	0.667	10.495	
Freeway & Expressway	0.345	0.508	9.441	0.417	0.610	11.760	
Urban Other Principle Arterial	0.378	0.385	8.411	0.463	0.488	10.476	
Urban Minor Arterial	0.375	0.364	8.743	0.460	0.469	10.905	
Urban Collector	0.380	0.348	8.625	0.468	0.454	10.762	
Urban Local	0.381	0.377	8.549	0.466	0.481	10.646	
County Total	4.358	5.468	103.56	5.29	6.66	128.84	
Wake - Off Peak	I&M			No I&M			
Road Type	VOC	NOx	CO	VOC	NOx	CO	
Rural Interstate	0.326	1.056	8.673	0.379	1.138	10.610	
Rural Other Principal Arterial	0.341	0.612	9.433	0.408	0.711	11.712	
Rural Minor Arterial	0.354	0.467	8.960	0.429	0.567	11.153	
Rural Major Collector	0.361	0.415	8.914	0.439	0.517	11.112	
Rural Minor Collector	0.364	0.412	8.873	0.443	0.514	11.057	
Rural Local	0.366	0.408	8.905	0.445	0.510	11.096	
Urban Interstate	0.337	0.706	9.231	0.400	0.800	11.429	
Freeway & Expressway	0.343	0.575	9.934	0.410	0.679	12.356	
Urban Other Principle Arterial	0.364	0.398	8.804	0.445	0.501	10.978	
Urban Minor Arterial	0.368	0.371	8.971	0.451	0.476	11.196	
Urban Collector	0.376	0.350	8.749	0.463	0.456	10.920	
Urban Local	0.377	0.380	8.660	0.461	0.483	10.789	
County Total	4.277	6.150	108.11	5.17	7.35	134.41	

2020 Transportation Conformity Emission Factors for Wake County

Wake - AM Peak Road Type	I&M			No I&M		
	VOC	NOx	CO	VOC	NOx	CO
Rural Interstate	0.346	0.369	6.557	0.429	0.456	8.289
Rural Other Principal Arterial	0.260	0.317	7.892	0.337	0.425	10.178
Rural Minor Arterial	0.288	0.250	7.088	0.378	0.359	9.147
Rural Major Collector	0.278	0.241	7.464	0.368	0.352	9.661
Rural Minor Collector	0.280	0.241	7.474	0.370	0.353	9.672
Rural Local	0.280	0.241	7.556	0.370	0.354	9.776
Urban Interstate	0.263	0.320	7.339	0.339	0.422	9.446
Freeway & Expressway	0.263	0.276	7.914	0.345	0.388	10.237
Urban Other Principle Arterial	0.284	0.231	7.260	0.378	0.344	9.399
Urban Minor Arterial	0.287	0.221	7.391	0.383	0.336	9.580
Urban Collector	0.290	0.216	7.429	0.388	0.333	9.647
Urban Local	0.295	0.230	7.326	0.391	0.344	9.486
County Total	3.414	3.153	88.690	4.476	4.466	114.518

Wake - PM Peak Road Type	I&M			No I&M		
	VOC	NOx	CO	VOC	NOx	CO
Rural Interstate	0.346	0.369	6.557	0.429	0.456	8.289
Rural Other Principal Arterial	0.261	0.314	7.843	0.338	0.421	10.114
Rural Minor Arterial	0.288	0.250	7.088	0.378	0.359	9.147
Rural Major Collector	0.277	0.242	7.519	0.366	0.354	9.733
Rural Minor Collector	0.280	0.241	7.474	0.370	0.353	9.672
Rural Local	0.280	0.241	7.556	0.370	0.354	9.776
Urban Interstate	0.262	0.323	7.384	0.338	0.425	9.504
Freeway & Expressway	0.261	0.286	8.078	0.342	0.398	10.446
Urban Other Principle Arterial	0.284	0.231	7.260	0.378	0.344	9.399
Urban Minor Arterial	0.287	0.221	7.391	0.383	0.336	9.580
Urban Collector	0.287	0.215	7.434	0.385	0.332	9.649
Urban Local	0.293	0.230	7.328	0.388	0.343	9.486
County Total	3.406	3.163	88.912	4.465	4.475	114.795

Wake - Off Peak Road Type	I&M			No I&M		
	VOC	NOx	CO	VOC	NOx	CO
Rural Interstate	0.339	0.366	6.494	0.421	0.453	8.212
Rural Other Principal Arterial	0.259	0.352	8.283	0.333	0.461	10.656
Rural Minor Arterial	0.270	0.270	7.666	0.353	0.379	9.906
Rural Major Collector	0.270	0.251	7.773	0.357	0.363	10.064
Rural Minor Collector	0.273	0.249	7.725	0.360	0.361	9.999
Rural Local	0.276	0.246	7.706	0.364	0.359	9.973
Urban Interstate	0.258	0.397	8.114	0.328	0.502	10.402
Freeway & Expressway	0.259	0.329	8.643	0.335	0.443	11.148
Urban Other Principle Arterial	0.271	0.242	7.712	0.360	0.355	9.992
Urban Minor Arterial	0.278	0.226	7.700	0.370	0.342	9.986
Urban Collector	0.282	0.216	7.550	0.377	0.333	9.797
Urban Local	0.285	0.232	7.484	0.378	0.345	9.689
County Total	3.320	3.376	92.850	4.336	4.696	119.824

2020 Transportation Conformity Emission Factors for Durham County

Durham - AM Peak	Road Type	I&M			No I&M		
		VOC	NOx	CO	VOC	NOx	CO
	Rural Interstate	0.253	0.485	7.211	0.314	0.574	9.154
	Rural Other Principal Arterial	0.262	0.310	7.791	0.339	0.417	10.049
	Rural Minor Arterial	0.273	0.263	7.513	0.358	0.372	9.708
	Rural Major Collector	0.270	0.251	7.773	0.357	0.363	10.064
	Rural Minor Collector	0.277	0.244	7.582	0.366	0.356	9.812
	Rural Local	0.280	0.241	7.556	0.370	0.354	9.776
	Urban Interstate	0.261	0.328	7.441	0.337	0.430	9.576
	Freeway & Expressway	0.269	0.261	7.596	0.354	0.371	9.827
	Urban Other Principle Arterial	0.281	0.233	7.366	0.373	0.346	9.538
	Urban Minor Arterial	0.291	0.222	7.383	0.389	0.338	9.578
	Urban Collector	0.285	0.215	7.438	0.382	0.331	9.651
	Urban Local	0.293	0.230	7.328	0.388	0.343	9.486
	County Total	3.295	3.283	89.978	4.327	4.595	114.518

Durham - PM Peak	Road Type	I&M			No I&M		
		VOC	NOx	CO	VOC	NOx	CO
	Rural Interstate	0.253	0.435	6.884	0.317	0.524	8.768
	Rural Other Principal Arterial	0.262	0.306	7.737	0.340	0.413	9.981
	Rural Minor Arterial	0.270	0.270	7.666	0.353	0.379	9.906
	Rural Major Collector	0.269	0.253	7.827	0.355	0.366	10.134
	Rural Minor Collector	0.276	0.246	7.632	0.364	0.358	9.877
	Rural Local	0.279	0.243	7.608	0.368	0.355	9.845
	Urban Interstate	0.260	0.337	7.548	0.334	0.440	9.711
	Freeway & Expressway	0.267	0.266	7.707	0.351	0.377	9.970
	Urban Other Principle Arterial	0.279	0.234	7.414	0.371	0.347	9.602
	Urban Minor Arterial	0.287	0.221	7.391	0.383	0.336	9.580
	Urban Collector	0.283	0.215	7.496	0.380	0.332	9.726
	Urban Local	0.290	0.229	7.330	0.384	0.342	9.486
	County Total	3.275	3.255	90.240	4.300	4.569	114.795

Durham - Off Peak	Road Type	I&M			No I&M		
		VOC	NOx	CO	VOC	NOx	CO
	Rural Interstate	0.253	0.554	7.596	0.312	0.645	9.599
	Rural Other Principal Arterial	0.260	0.317	7.892	0.337	0.425	10.178
	Rural Minor Arterial	0.266	0.284	7.928	0.346	0.395	10.243
	Rural Major Collector	0.268	0.255	7.880	0.354	0.368	10.202
	Rural Minor Collector	0.274	0.247	7.680	0.362	0.360	9.940
	Rural Local	0.278	0.245	7.658	0.366	0.357	9.911
	Urban Interstate	0.258	0.406	8.185	0.327	0.511	10.486
	Freeway & Expressway	0.260	0.302	8.320	0.338	0.415	10.749
	Urban Other Principle Arterial	0.272	0.240	7.664	0.361	0.354	9.929
	Urban Minor Arterial	0.282	0.223	7.550	0.376	0.338	9.789
	Urban Collector	0.278	0.219	7.696	0.371	0.335	9.989
	Urban Local	0.288	0.230	7.385	0.382	0.343	9.557
	County Total	3.237	3.522	93.434	4.232	4.846	120.572

2020 Transportation Conformity Emission Factors for Granville County

Dutchville Township - AM Peak		I&M		No I&M	
Road Type		VOC	NOx	VOC	NOx
Rural Interstate		0.253	0.435	0.317	0.524
Rural Major Collector		0.288	0.237	0.382	0.348
Rural Minor Collector		0.284	0.238	0.376	0.350
Rural Local		0.274	0.250	0.361	0.363
	County Total	1.099	1.160	1.436	1.585

Dutchville Township - PM Peak		I&M		No I&M	
Road Type		VOC	NOx	VOC	NOx
Rural Interstate		0.253	0.435	0.317	0.524
Rural Major Collector		0.283	0.238	0.374	0.349
Rural Minor Collector		0.277	0.244	0.366	0.356
Rural Local		0.273	0.252	0.359	0.365
	County Total	1.086	1.169	1.416	1.594

Dutchville Township - Off Peak		I&M		No I&M	
Road Type		VOC	NOx	VOC	NOx
Rural Interstate		0.253	0.435	0.317	0.524
Rural Major Collector		0.278	0.241	0.368	0.352
Rural Minor Collector		0.274	0.247	0.362	0.360
Rural Local		0.273	0.252	0.359	0.365
	County Total	1.078	1.175	1.406	1.601

Granville-Rural Portion		I&M		No I&M	
Road Type		VOC	NOx	VOC	NOx
Rural Interstate		0.383	0.839	0.475	0.962
Rural Other Principal Arterial		0.412	0.442	0.538	0.587
Rural Minor Arterial		0.423	0.394	0.555	0.542
Rural Major Collector		0.429	0.362	0.568	0.514
Rural Minor Collector		0.429	0.364	0.567	0.517
Rural Local		0.431	0.361	0.570	0.514
Urban Interstate		0.395	0.608	0.503	0.750
Freeway & Expressway		0.469	0.356	0.627	0.513
Urban Minor Arterial		0.456	0.331	0.611	0.489
Urban Collector		0.458	0.323	0.616	0.483
Urban Local		0.463	0.344	0.618	0.500
	County Total	4.748	4.724	6.248	6.371

2020 Transportation Conformity Emission Factors for Orange County

Orange - AM Peak		I&M		No I&M	
		VOC	NOx	VOC	NOx
Road Type					
Rural Interstate		0.269	0.528	0.334	0.620
Rural Minor Arterial		0.284	0.278	0.374	0.389
Rural Major Collector		0.292	0.247	0.389	0.360
Rural Minor Collector		0.296	0.246	0.394	0.359
Rural Local		0.295	0.247	0.392	0.361
Urban Interstate		0.274	0.367	0.352	0.472
Freeway & Expressway		0.399	0.260	0.527	0.371
Urban Other Principle Arterial		0.309	0.234	0.416	0.348
Urban Minor Arterial		0.315	0.224	0.425	0.341
Urban Collector		0.322	0.222	0.438	0.342
Urban Local		0.346	0.244	0.464	0.364
County Total		3.401	3.097	4.505	4.327

Orange - PM Peak		I&M		No I&M	
		VOC	NOx	VOC	NOx
Road Type					
Rural Interstate		0.269	0.514	0.334	0.605
Rural Minor Arterial		0.284	0.278	0.374	0.389
Rural Major Collector		0.292	0.247	0.389	0.360
Rural Minor Collector		0.296	0.246	0.394	0.359
Rural Local		0.295	0.247	0.392	0.361
Urban Interstate		0.274	0.374	0.351	0.479
Freeway & Expressway		0.349	0.254	0.466	0.365
Urban Other Principle Arterial		0.307	0.233	0.412	0.347
Urban Minor Arterial		0.315	0.224	0.425	0.341
Urban Collector		0.319	0.220	0.433	0.339
Urban Local		0.346	0.244	0.464	0.364
County Total		3.346	3.081	4.434	4.309

Orange - Off Peak		I&M		No I&M	
		VOC	NOx	VOC	NOx
Road Type					
Rural Interstate		0.269	0.555	0.333	0.646
Rural Minor Arterial		0.283	0.282	0.373	0.393
Rural Major Collector		0.290	0.248	0.387	0.362
Rural Minor Collector		0.294	0.247	0.392	0.360
Rural Local		0.294	0.249	0.390	0.363
Urban Interstate		0.273	0.425	0.348	0.531
Freeway & Expressway		0.294	0.254	0.391	0.364
Urban Other Principle Arterial		0.300	0.234	0.403	0.348
Urban Minor Arterial		0.307	0.222	0.413	0.338
Urban Collector		0.316	0.219	0.428	0.338
Urban Local		0.341	0.242	0.458	0.361
County Total		3.261	3.177	4.316	4.404

2020 Transportation Conformity Emission Factors for Franklin County

Franklin - AM Peak	Road Type	I&M		No I&M	
		VOC	NOx	VOC	NOx
	Rural Other Principal Arterial	0.411	0.446	0.535	0.591
	Rural Minor Arterial	0.414	0.410	0.542	0.560
	Rural Major Collector	0.423	0.369	0.560	0.522
	Rural Minor Collector	0.419	0.380	0.552	0.534
	Rural Local	0.430	0.363	0.567	0.517
	County Total	2.097	1.968	2.756	2.724

Franklin - PM Peak	Road Type	I&M		No I&M	
		VOC	NOx	VOC	NOx
	Rural Other Principal Arterial	0.416	0.433	0.543	0.577
	Rural Minor Arterial	0.419	0.400	0.550	0.549
	Rural Major Collector	0.425	0.366	0.562	0.519
	Rural Minor Collector	0.419	0.380	0.552	0.534
	Rural Local	0.430	0.363	0.567	0.517
	County Total	2.109	1.942	2.774	2.696

Franklin - Off Peak	Road Type	I&M		No I&M	
		VOC	NOx	VOC	NOx
	Rural Other Principal Arterial	0.402	0.483	0.520	0.630
	Rural Minor Arterial	0.407	0.439	0.530	0.590
	Rural Major Collector	0.425	0.366	0.562	0.519
	Rural Minor Collector	0.419	0.380	0.552	0.534
	Rural Local	0.431	0.361	0.570	0.514
	County Total	2.084	2.029	2.734	2.787

Franklin - Rural Portion	Road Type	I&M		No I&M	
		VOC	NOx	VOC	NOx
	Rural Other Principal Arterial	0.418	0.431	0.546	0.575
	Rural Minor Arterial	0.427	0.389	0.561	0.537
	Rural Major Collector	0.427	0.364	0.565	0.517
	Rural Minor Collector	0.429	0.364	0.567	0.517
	Rural Local	0.431	0.361	0.570	0.514
	County Total	2.132	1.909	2.809	2.660

2020 Transportation Conformity Emission Factors for Johnston County

Johnston - AM Peak Road Type	I&M		No I&M	
	VOC	NO _x	VOC	NO _x
Rural Interstate	0.383	0.839	0.475	0.962
Rural Other Principal Arterial	0.401	0.500	0.517	0.647
Rural Minor Arterial	0.447	0.377	0.589	0.525
Rural Major Collector	0.433	0.359	0.574	0.511
Rural Minor Collector	0.429	0.364	0.567	0.517
Rural Local	0.440	0.354	0.582	0.507
County Total	2.533	2.793	3.304	3.669

Johnston - PM Peak Road Type	I&M		No I&M	
	VOC	NO _x	VOC	NO _x
Rural Interstate	0.383	0.797	0.476	0.920
Rural Other Principal Arterial	0.400	0.508	0.516	0.655
Rural Minor Arterial	0.454	0.379	0.600	0.528
Rural Major Collector	0.440	0.355	0.584	0.507
Rural Minor Collector	0.427	0.366	0.565	0.519
Rural Local	0.440	0.354	0.582	0.507
County Total	2.544	2.759	3.323	3.636

Johnston - Off Peak Road Type	I&M		No I&M	
	VOC	NO _x	VOC	NO _x
Rural Interstate	0.383	0.859	0.474	0.982
Rural Other Principal Arterial	0.400	0.516	0.515	0.663
Rural Minor Arterial	0.411	0.424	0.536	0.575
Rural Major Collector	0.417	0.380	0.549	0.534
Rural Minor Collector	0.424	0.370	0.559	0.523
Rural Local	0.428	0.365	0.565	0.519
County Total	2.463	2.914	3.198	3.796

Johnston-Rural Portion Road Type	I&M		No I&M	
	VOC	NO _x	VOC	NO _x
Rural Interstate	0.383	0.839	0.475	0.962
Rural Other Principal Arterial	0.426	0.419	0.558	0.562
Rural Minor Arterial	0.425	0.391	0.558	0.540
Rural Major Collector	0.427	0.364	0.565	0.517
Rural Minor Collector	0.429	0.364	0.567	0.517
Rural Local	0.431	0.361	0.570	0.514
Urban Interstate	0.395	0.594	0.504	0.736
Urban Other Principle Arterial	0.469	0.356	0.627	0.513
Urban Minor Arterial	0.459	0.332	0.616	0.491
Urban Collector	0.458	0.323	0.616	0.483
Urban Local	0.472	0.348	0.630	0.505
County Total	4.774	4.691	6.286	6.340

2020 Transportation Conformity Emission Factors for Chatham County

Chatham - AM Peak Road Type	I&M		No I&M	
	VOC	NO _x	VOC	NO _x
Rural Other Principal Arterial	0.404	0.472	0.524	0.618
Rural Minor Arterial	0.425	0.391	0.558	0.540
Rural Major Collector	0.418	0.377	0.552	0.531
Rural Minor Collector	0.424	0.370	0.559	0.523
Rural Local	0.426	0.367	0.562	0.521
County Total	2.097	1.977	2.755	2.733

Chatham - PM Peak Road Type	I&M		No I&M	
	VOC	NO _x	VOC	NO _x
Rural Other Principal Arterial	0.404	0.472	0.524	0.618
Rural Minor Arterial	0.425	0.391	0.558	0.540
Rural Major Collector	0.417	0.380	0.549	0.534
Rural Minor Collector	0.424	0.370	0.559	0.523
Rural Local	0.424	0.371	0.559	0.524
County Total	2.094	1.984	2.749	2.739

Chatham - Off Peak Road Type	I&M		No I&M	
	VOC	NO _x	VOC	NO _x
Rural Other Principal Arterial	0.403	0.478	0.522	0.624
Rural Minor Arterial	0.425	0.391	0.558	0.540
Rural Major Collector	0.417	0.380	0.549	0.534
Rural Minor Collector	0.425	0.368	0.562	0.521
Rural Local	0.424	0.371	0.559	0.524
County Total	2.094	1.988	2.750	2.743

2020 Transportation Conformity Emission Factors for Person County

Person County Road Type	No I&M	
	VOC	NO _x
Rural Other Principal Arterial	0.538	0.587
Rural Minor Arterial	0.553	0.545
Rural Major Collector	0.562	0.519
Rural Minor Collector	0.567	0.517
Rural Local	0.570	0.514
Urban Other Principle Arterial	0.641	0.521
Urban Minor Arterial	0.616	0.491
Urban Collector	0.616	0.483
Urban Local	0.624	0.502
County Total	5.287	4.679

2030 Transportation Conformity Emission Factors for Durham County

Durham - AM Peak Road Type	I&M			No I&M		
	VOC	NOx	CO	VOC	NOx	CO
Rural Interstate	0.212	0.226	6.123	0.278	0.313	7.828
Rural Other Principal Arterial	0.207	0.195	7.274	0.285	0.302	9.414
Rural Minor Arterial	0.211	0.184	7.352	0.292	0.294	9.531
Rural Major Collector	0.215	0.170	7.258	0.301	0.282	9.426
Rural Minor Collector	0.219	0.168	7.174	0.306	0.280	9.314
Rural Local	0.222	0.167	7.150	0.310	0.279	9.280
Urban Interstate	0.208	0.203	6.991	0.282	0.305	9.026
Freeway & Expressway	0.212	0.174	7.189	0.296	0.284	9.329
Urban Other Principle Arterial	0.222	0.161	6.965	0.313	0.273	9.048
Urban Minor Arterial	0.231	0.157	6.981	0.327	0.272	9.084
Urban Collector	0.227	0.153	7.028	0.323	0.269	9.151
Urban Local	0.233	0.161	6.930	0.326	0.274	8.999
HOV-Interstate	0.197	0.163	8.728	0.279	0.288	11.385
County Total	2.619	2.119	70.457	3.639	3.427	120.815

Durham - PM Peak Road Type	I&M			No I&M		
	VOC	NOx	CO	VOC	NOx	CO
Rural Interstate	0.216	0.219	6.012	0.283	0.306	7.683
Rural Other Principal Arterial	0.209	0.191	7.175	0.287	0.297	9.286
Rural Minor Arterial	0.212	0.183	7.305	0.294	0.292	9.470
Rural Major Collector	0.214	0.171	7.302	0.299	0.283	9.484
Rural Minor Collector	0.218	0.169	7.222	0.304	0.281	9.376
Rural Local	0.221	0.169	7.200	0.308	0.280	9.346
Urban Interstate	0.206	0.209	7.099	0.280	0.311	9.162
Freeway & Expressway	0.210	0.177	7.294	0.292	0.288	9.466
Urban Other Principle Arterial	0.221	0.162	7.012	0.311	0.273	9.110
Urban Minor Arterial	0.227	0.156	6.987	0.321	0.270	9.086
Urban Collector	0.223	0.153	7.087	0.318	0.269	9.225
Urban Local	0.231	0.160	6.932	0.323	0.273	8.999
HOV-Interstate	0.197	0.161	8.672	0.280	0.287	11.313
County Total	2.608	2.119	63.621	3.620	3.423	107.144

Durham - Off Peak Road Type	I&M			No I&M		
	VOC	NOx	CO	VOC	NOx	CO
Rural Interstate	0.204	0.321	7.210	0.262	0.411	9.136
Rural Other Principal Arterial	0.205	0.204	7.476	0.280	0.312	9.671
Rural Minor Arterial	0.208	0.194	7.610	0.286	0.305	9.861
Rural Major Collector	0.212	0.174	7.409	0.296	0.286	9.623
Rural Minor Collector	0.217	0.170	7.268	0.303	0.282	9.436
Rural Local	0.220	0.170	7.248	0.306	0.281	9.409
Urban Interstate	0.204	0.245	7.693	0.273	0.350	9.891
Freeway & Expressway	0.204	0.199	7.883	0.281	0.312	10.216
Urban Other Principle Arterial	0.214	0.166	7.251	0.301	0.279	9.424
Urban Minor Arterial	0.221	0.158	7.186	0.313	0.273	9.348
Urban Collector	0.218	0.156	7.278	0.310	0.271	9.478
Urban Local	0.229	0.161	6.984	0.321	0.274	9.067
County Total	2.556	2.318	51.914	3.532	3.636	114.560

2030 Transportation Conformity Emission Factors for Wake County

Wake - AM Peak Road Type	I&M			No I&M		
	VOC	NOx	CO	VOC	NOx	CO
Rural Interstate	0.235	0.209	5.769	0.306	0.295	7.347
Rural Other Principal Arterial	0.211	0.188	7.081	0.290	0.293	9.165
Rural Minor Arterial	0.230	0.169	6.703	0.318	0.276	8.677
Rural Major Collector	0.221	0.165	7.020	0.310	0.276	9.114
Rural Minor Collector	0.223	0.166	7.030	0.312	0.276	9.124
Rural Local	0.225	0.166	7.056	0.314	0.277	9.156
Urban Interstate	0.212	0.196	6.810	0.288	0.297	8.792
Freeway & Expressway	0.209	0.179	7.344	0.291	0.289	9.530
Urban Other Principle Arterial	0.230	0.161	6.860	0.323	0.273	8.915
Urban Minor Arterial	0.229	0.156	6.984	0.324	0.271	9.085
Urban Collector	0.231	0.155	7.019	0.329	0.271	9.148
Urban Local	0.238	0.162	6.926	0.333	0.276	9.000
HOV-Urban Interstate	0.198	0.160	8.615	0.281	0.285	11.239
County Total	2.892	2.232	91.217	3.738	3.370	118.292

Wake - PM Peak Road Type	I&M			No I&M		
	VOC	NOx	CO	VOC	NOx	CO
Rural Interstate	0.238	0.209	5.780	0.310	0.295	7.358
Rural Other Principal Arterial	0.211	0.188	7.081	0.290	0.293	9.165
Rural Minor Arterial	0.230	0.169	6.703	0.318	0.276	8.677
Rural Major Collector	0.223	0.164	6.976	0.312	0.275	9.056
Rural Minor Collector	0.224	0.165	6.987	0.314	0.276	9.067
Rural Local	0.225	0.166	7.056	0.314	0.277	9.156
Urban Interstate	0.212	0.196	6.810	0.288	0.297	8.792
Freeway & Expressway	0.206	0.184	7.493	0.287	0.295	9.723
Urban Other Principle Arterial	0.227	0.160	6.862	0.320	0.272	8.915
Urban Minor Arterial	0.227	0.156	6.987	0.321	0.270	9.086
Urban Collector	0.229	0.154	7.023	0.326	0.270	9.150
Urban Local	0.233	0.161	6.930	0.326	0.274	8.999
HOV-Urban Interstate	0.197	0.161	8.672	0.280	0.287	11.313
County Total	2.882	2.233	91.360	4.006	3.657	118.457

Wake - Off Peak Road Type	I&M			No I&M		
	VOC	NOx	CO	VOC	NOx	CO
Rural Interstate	0.238	0.209	5.780	0.310	0.295	7.358
Rural Other Principal Arterial	0.205	0.220	7.781	0.277	0.328	10.046
Rural Minor Arterial	0.216	0.177	7.110	0.300	0.286	9.216
Rural Major Collector	0.214	0.171	7.302	0.299	0.283	9.484
Rural Minor Collector	0.214	0.173	7.366	0.299	0.285	9.565
Rural Local	0.217	0.171	7.337	0.303	0.284	9.526
Urban Interstate	0.204	0.240	7.623	0.273	0.345	9.807
Freeway & Expressway	0.203	0.211	8.129	0.278	0.325	10.521
Urban Other Principle Arterial	0.213	0.167	7.297	0.300	0.280	9.485
Urban Minor Arterial	0.219	0.160	7.284	0.309	0.275	9.477
Urban Collector	0.222	0.154	7.138	0.316	0.269	9.293
Urban Local	0.225	0.163	7.124	0.315	0.276	9.253
County Total	2.590	2.216	73.009	3.579	3.531	113.031

2030 Transportation Conformity Emission Factors for Granville County

Dutchville Township - AM Peak		I&M		No I&M	
		VOC	NOx	VOC	NOx
Road Type					
Rural Interstate		0.204	0.256	0.266	0.345
Rural Major Collector		0.234	0.164	0.328	0.275
Rural Minor Collector		0.224	0.165	0.314	0.276
Rural Local		0.217	0.171	0.303	0.284
County Total		0.879	0.756	1.211	1.180

Dutchville Township - PM Peak		I&M		No I&M	
		VOC	NOx	VOC	NOx
Road Type					
Rural Interstate		0.204	0.256	0.266	0.345
Rural Major Collector		0.230	0.163	0.321	0.274
Rural Minor Collector		0.222	0.166	0.310	0.277
Rural Local		0.215	0.174	0.300	0.287
County Total		0.871	0.759	1.197	1.183

Dutchville Township - Off Peak		I&M		No I&M	
		VOC	NOx	VOC	NOx
Road Type					
Rural Interstate		0.204	0.256	0.266	0.345
Rural Major Collector		0.220	0.165	0.308	0.276
Rural Minor Collector		0.217	0.170	0.303	0.282
Rural Local		0.215	0.174	0.300	0.287
County Total		0.856	0.765	1.177	1.190

Granville-Rural Portion		I&M		No I&M	
		VOC	NOx	VOC	NOx
Road Type					
Rural Interstate		0.268	0.373	0.359	0.497
Rural Other Principal Arterial		0.285	0.232	0.409	0.376
Rural Minor Arterial		0.295	0.218	0.427	0.366
Rural Major Collector		0.299	0.206	0.438	0.357
Rural Minor Collector		0.298	0.209	0.434	0.361
Rural Local		0.300	0.209	0.437	0.361
Urban Interstate		0.272	0.301	0.379	0.444
Freeway & Expressway		0.332	0.207	0.487	0.363
Urban Minor Arterial		0.323	0.198	0.477	0.355
Urban Collector		0.321	0.194	0.476	0.354
Urban Local		0.328	0.203	0.479	0.358
County Total		3.321	2.550	4.802	4.192

2030 Transportation Conformity Emission Factors for Orange County

Orange - AM Peak Road Type	I&M		No I&M	
	VOC	NO _x	VOC	NO _x
Rural Interstate	0.214	0.292	0.280	0.382
Rural Minor Arterial	0.224	0.186	0.313	0.296
Rural Major Collector	0.229	0.170	0.325	0.282
Rural Minor Collector	0.232	0.170	0.330	0.282
Rural Local	0.232	0.172	0.328	0.285
Urban Interstate	0.215	0.246	0.291	0.352
Freeway & Expressway	0.256	0.167	0.363	0.277
Urban Other Principle Arterial	0.247	0.163	0.354	0.276
Urban Minor Arterial	0.249	0.159	0.358	0.275
Urban Collector	0.259	0.160	0.374	0.280
Urban Local	0.279	0.172	0.396	0.292
HOV-Urban Interstate	0.206	0.166	0.295	0.294
County Total	2.842	2.223	4.007	3.573

Orange - PM Peak Road Type	I&M		No I&M	
	VOC	NO _x	VOC	NO _x
Rural Interstate	0.214	0.279	0.281	0.369
Rural Minor Arterial	0.225	0.184	0.315	0.295
Rural Major Collector	0.227	0.171	0.323	0.284
Rural Minor Collector	0.232	0.170	0.330	0.282
Rural Local	0.232	0.172	0.328	0.285
Urban Interstate	0.215	0.246	0.291	0.352
Freeway & Expressway	0.253	0.167	0.359	0.277
Urban Other Principle Arterial	0.245	0.162	0.350	0.275
Urban Minor Arterial	0.247	0.158	0.354	0.274
Urban Collector	0.255	0.159	0.369	0.278
Urban Local	0.279	0.172	0.396	0.292
HOV-Urban Interstate	0.206	0.166	0.295	0.294
County Total	2.830	2.206	3.991	3.557

Orange - Off Peak Road Type	I&M		No I&M	
	VOC	NO _x	VOC	NO _x
Rural Interstate	0.215	0.321	0.279	0.413
Rural Minor Arterial	0.222	0.189	0.310	0.300
Rural Major Collector	0.227	0.171	0.323	0.284
Rural Minor Collector	0.231	0.171	0.328	0.283
Rural Local	0.231	0.173	0.326	0.286
Urban Interstate	0.215	0.261	0.289	0.367
Freeway & Expressway	0.231	0.170	0.328	0.280
Urban Other Principle Arterial	0.236	0.162	0.337	0.275
Urban Minor Arterial	0.242	0.157	0.347	0.272
Urban Collector	0.252	0.157	0.365	0.275
Urban Local	0.275	0.171	0.390	0.289
County Total	2.577	2.103	3.622	3.324

2030 Transportation Conformity Emission Factors for Franklin County

Franklin - AM Peak Road Type	I&M		No I&M	
	VOC	NO _x	VOC	NO _x
Rural Other Principal Arterial	0.297	0.220	0.427	0.363
Rural Minor Arterial	0.295	0.218	0.427	0.366
Rural Major Collector	0.299	0.206	0.438	0.357
Rural Minor Collector	0.293	0.212	0.427	0.365
Rural Local	0.300	0.209	0.437	0.361
County Total	1.484	1.065	2.156	1.812

Franklin - PM Peak Road Type	I&M		No I&M	
	VOC	NO _x	VOC	NO _x
Rural Other Principal Arterial	0.299	0.220	0.430	0.362
Rural Minor Arterial	0.309	0.211	0.447	0.358
Rural Major Collector	0.296	0.208	0.432	0.361
Rural Minor Collector	0.290	0.216	0.422	0.369
Rural Local	0.299	0.210	0.434	0.363
County Total	1.493	1.065	2.165	1.813

Franklin - Off Peak Road Type	I&M		No I&M	
	VOC	NO _x	VOC	NO _x
Rural Other Principal Arterial	0.276	0.251	0.394	0.398
Rural Minor Arterial	0.280	0.242	0.401	0.393
Rural Major Collector	0.293	0.211	0.427	0.363
Rural Minor Collector	0.289	0.217	0.420	0.371
Rural Local	0.300	0.209	0.437	0.361
County Total	1.438	1.130	2.079	1.886

Franklin - Rural Portion Road Type	I&M		No I&M	
	VOC	NO _x	VOC	NO _x
Rural Other Principal Arterial	0.293	0.224	0.422	0.367
Rural Minor Arterial	0.299	0.215	0.432	0.363
Rural Major Collector	0.298	0.207	0.435	0.359
Rural Minor Collector	0.298	0.209	0.434	0.361
Rural Local	0.300	0.209	0.437	0.361
County Total	1.488	1.064	2.160	1.811

2030 Transportation Conformity Emission Factors for Johnston County

Johnston - AM Peak Road Type	I&M		No I&M	
	VOC	NOx	VOC	NOx
Rural Interstate	0.269	0.326	0.364	0.448
Rural Other Principal Arterial	0.275	0.259	0.391	0.407
Rural Minor Arterial	0.294	0.219	0.424	0.368
Rural Major Collector	0.313	0.203	0.457	0.354
Rural Minor Collector	0.315	0.204	0.459	0.355
Rural Local	0.304	0.206	0.443	0.358
Urban Freeway & Expressway	0.274	0.255	0.391	0.411
County Total	2.044	1.672	2.929	2.701

Johnston - PM Peak Road Type	I&M		No I&M	
	VOC	NOx	VOC	NOx
Rural Interstate	0.274	0.295	0.373	0.415
Rural Other Principal Arterial	0.276	0.251	0.394	0.398
Rural Minor Arterial	0.295	0.218	0.427	0.366
Rural Major Collector	0.326	0.206	0.477	0.359
Rural Minor Collector	0.308	0.204	0.449	0.356
Rural Local	0.304	0.206	0.443	0.358
Urban Freeway & Expressway	0.274	0.251	0.392	0.406
County Total	2.057	1.631	2.955	2.658

Johnston - Off Peak Road Type	I&M		No I&M	
	VOC	NOx	VOC	NOx
Rural Interstate	0.267	0.391	0.358	0.515
Rural Other Principal Arterial	0.274	0.290	0.384	0.440
Rural Minor Arterial	0.283	0.235	0.407	0.385
Rural Major Collector	0.287	0.217	0.418	0.371
Rural Minor Collector	0.290	0.216	0.422	0.369
Rural Local	0.295	0.212	0.430	0.366
Urban Freeway & Expressway	0.274	0.248	0.393	0.403
County Total	1.696	1.561	2.812	2.849

Johnston-Rural Portion Road Type	I&M		No I&M	
	VOC	NOx	VOC	NOx
Rural Interstate	0.268	0.373	0.359	0.497
Rural Other Principal Arterial	0.309	0.216	0.443	0.358
Rural Minor Arterial	0.295	0.218	0.427	0.366
Rural Major Collector	0.296	0.208	0.432	0.361
Rural Minor Collector	0.298	0.209	0.434	0.361
Rural Local	0.300	0.209	0.437	0.361
Urban Interstate	0.272	0.294	0.380	0.437
Urban Other Principle Arterial	0.336	0.208	0.493	0.366
Urban Minor Arterial	0.323	0.198	0.477	0.355
Urban Collector	0.321	0.194	0.476	0.354
Urban Local	0.340	0.207	0.496	0.365
County Total	3.358	2.534	4.854	4.181

2030 Transportation Conformity Emission Factors for Chatham County

Chatham - AM Peak Road Type	I&M		No I&M	
	VOC	NOx	VOC	NOx
Rural Other Principal Arterial	0.279	0.243	0.399	0.389
Rural Minor Arterial	0.297	0.217	0.429	0.365
Rural Major Collector	0.296	0.208	0.432	0.361
Rural Minor Collector	0.293	0.212	0.427	0.365
Rural Local	0.295	0.212	0.430	0.366
County Total	1.460	1.092	2.117	1.846

Chatham - PM Peak Road Type	I&M		No I&M	
	VOC	NOx	VOC	NOx
Rural Other Principal Arterial	0.279	0.243	0.399	0.389
Rural Minor Arterial	0.299	0.215	0.432	0.363
Rural Major Collector	0.288	0.215	0.420	0.369
Rural Minor Collector	0.293	0.212	0.427	0.365
Rural Local	0.295	0.212	0.430	0.366
County Total	1.454	1.097	2.108	1.852

Chatham - Off Peak Road Type	I&M		No I&M	
	VOC	NOx	VOC	NOx
Rural Other Principal Arterial	0.277	0.249	0.395	0.395
Rural Minor Arterial	0.295	0.218	0.427	0.366
Rural Major Collector	0.285	0.218	0.416	0.372
Rural Minor Collector	0.295	0.211	0.429	0.364
Rural Local	0.294	0.214	0.427	0.368
County Total	1.446	1.110	2.094	1.865

2030 Transportation Conformity Emission Factors for Person County

Person County Road Type	No I&M	
	VOC	NOx
Rural Other Principal Arterial	0.409	0.376
Rural Minor Arterial	0.422	0.369
Rural Major Collector	0.430	0.362
Rural Minor Collector	0.434	0.361
Rural Local	0.437	0.361
Urban Other Principle Arterial	0.507	0.373
Urban Minor Arterial	0.477	0.355
Urban Collector	0.482	0.355
Urban Local	0.485	0.359
County Total	4.083	3.271