

2025 Metrolina CO Emissions

2025 - LRTP 12/12/09

	Model		CO RATES			NOX kg/day
	VMT	MPH	IM	No IM	Comp	
Mecklenburg AM Peak						
Rural Principal Arterial	51,249	29	6.447	8.538	6.656	341
Rural Minor Arterial	38,248	16	7.501	10.140	7.765	297
Rural Major Collector	5,649	20	7.224	9.723	7.474	42
Rural Minor Collector	61,451	31	6.748	8.953	6.969	428
Rural Local	152,923	28	6.655	8.815	6.871	1,051
Urban Interstate	1,695,161	37	6.264	8.252	6.463	10,955
Urban Other Freeway/Xprway	1,992,786	50	7.252	9.604	7.487	14,920
Urban Principal Arterial	1,173,050	21	7.225	9.739	7.476	8,770
Urban Minor Arterial	1,297,261	22	7.169	9.641	7.416	9,621
Urban Collector	1,075,310	19	7.398	9.996	7.658	8,235
Urban Local	1,854,123	21	7.216	9.694	7.464	13,839
Urban HOV	57,851	65	8.700	11.609	8.991	520
Mecklenburg	9,455,063		90%	10%		69,020
Mecklenburg Midday						
Rural Principal Arterial	66,910	39	6.613	8.754	6.827	457
Rural Minor Arterial	53,985	21	7.018	9.397	7.256	392
Rural Major Collector	8,369	28	6.844	9.115	7.071	59
Rural Minor Collector	87,603	37	6.854	9.084	7.077	620
Rural Local	231,983	29	6.629	8.772	6.843	1,588
Urban Interstate	2,458,198	49	6.797	8.959	7.013	17,240
Urban Other Freeway/Xprway	2,364,812	58	7.723	10.203	7.971	18,850
Urban Principal Arterial	1,781,275	25	7.003	9.388	7.242	12,899
Urban Minor Arterial	2,001,051	25	7.008	9.387	7.246	14,499
Urban Collector	1,648,854	23	7.122	9.560	7.366	12,145
Urban Local	3,017,529	21	7.216	9.694	7.464	22,522
Urban HOV	52,566	67	8.700	11.609	8.991	473
Mecklenburg	13,773,136		90%	10%		101,743
Mecklenburg PM Peak						
Rural Principal Arterial	57,503	30	6.429	8.511	6.637	382
Rural Minor Arterial	43,387	18	7.275	9.791	7.527	327
Rural Major Collector	6,154	22	7.086	9.509	7.328	45
Rural Minor Collector	76,383	29	6.768	8.993	6.991	534
Rural Local	184,050	27	6.683	8.861	6.901	1,270
Urban Interstate	1,865,069	34	6.180	8.137	6.376	11,891
Urban Other Freeway/Xprway	2,248,556	48	7.156	9.478	7.388	16,613
Urban Principal Arterial	1,367,455	19	7.374	9.978	7.634	10,440
Urban Minor Arterial	1,531,515	19	7.384	9.983	7.644	11,707
Urban Collector	1,249,469	18	7.488	10.142	7.753	9,688
Urban Local	2,214,565	20	7.289	9.807	7.541	16,700
Urban HOV	53,843	65	8.700	11.609	8.991	484
Mecklenburg	10,897,949		90%	10%		80,079
Mecklenburg Night						
Rural Principal Arterial	38,514	48	7.049	9.330	7.277	280
Rural Minor Arterial	33,826	35	6.647	8.796	6.862	232
Rural Major Collector	5,078	37	6.916	9.173	7.142	36
Rural Minor Collector	42,326	44	7.196	9.539	7.430	314
Rural Local	109,536	29	6.629	8.772	6.843	750
Urban Interstate	1,493,484	61	7.498	9.836	7.732	11,547
Urban Other Freeway/Xprway	1,230,580	61	7.919	10.446	8.172	10,056
Urban Principal Arterial	966,855	36	6.966	9.256	7.195	6,957
Urban Minor Arterial	1,060,363	36	6.965	9.250	7.194	7,628
Urban Collector	865,889	35	6.916	9.183	7.143	6,185
Urban Local	1,428,738	24	7.032	9.410	7.270	10,387
Urban HOV	60	68	8.700	11.609	8.991	1
Mecklenburg	7,275,249		90%	10%		54,372
Mecklenburg 24 Hour						
Rural Principal Arterial	214,176					1,460
Rural Minor Arterial	169,447					1,247
Rural Major Collector	25,251					183
Rural Minor Collector	267,764					1,897
Rural Local	678,492					4,658
Urban Interstate	7,511,913					51,634
Urban Other Freeway/Xprway	7,836,735					60,439
Urban Principal Arterial	5,288,635					39,066
Urban Minor Arterial	5,890,190					43,455
Urban Collector	4,839,523					36,252
Urban Local	8,514,954					63,447
Urban HOV	164,320					1,477
Mecklenburg	41,401,397		model kg / day	CO		305,214
			model emissions (tons)			336.4
			emissions budget			470.2
			budget minus model			133.7
			Kg->Tons Constant			907.1847