

**2015 Metrolina  
CO Emissions**

2015 - LRTP 12/14/09

	Model		CO RATES			NOX kg/day
	VMT	MPH	IM	No IM	Comp	
<b>Mecklenburg AM Peak</b>						
Rural Principal Arterial	44,478	34	7.839	9.888	8.044	358
Rural Minor Arterial	32,648	21	8.538	10.891	8.773	286
Rural Major Collector	4,663	26	8.399	10.681	8.627	40
Rural Minor Collector	50,158	35	8.227	10.391	8.443	424
Rural Local	101,020	29	8.063	10.178	8.275	836
Urban Interstate	1,594,496	42	7.866	9.899	8.069	12,866
Urban Other Freeway/Xprway	1,674,134	50	8.801	11.122	9.033	15,123
Urban Principal Arterial	1,054,461	23	8.662	11.078	8.904	9,388
Urban Minor Arterial	1,127,815	24	8.603	10.982	8.841	9,971
Urban Collector	948,502	21	8.824	11.307	9.072	8,605
Urban Local	1,576,746	22	8.702	11.116	8.943	14,101
Urban HOV	46,220	66	10.551	13.421	10.838	501
Mecklenburg	8,255,340		90%	10%		72,500
<b>Mecklenburg Midday</b>						
Rural Principal Arterial	55,934	43	8.271	10.444	8.488	475
Rural Minor Arterial	45,304	27	8.183	10.371	8.402	381
Rural Major Collector	6,803	33	8.294	10.491	8.514	58
Rural Minor Collector	64,871	40	8.505	10.750	8.730	566
Rural Local	143,575	29	8.063	10.178	8.275	1,188
Urban Interstate	2,199,060	55	8.593	10.812	8.815	19,384
Urban Other Freeway/Xprway	1,936,456	58	9.341	11.789	9.586	18,562
Urban Principal Arterial	1,584,778	27	8.481	10.793	8.712	13,807
Urban Minor Arterial	1,720,564	27	8.482	10.788	8.713	14,991
Urban Collector	1,416,177	26	8.523	10.852	8.756	12,400
Urban Local	2,531,313	22	8.702	11.116	8.943	22,639
Urban HOV	39,450	67	10.551	13.421	10.838	428
Mecklenburg	11,744,285		90%	10%		104,878
<b>Mecklenburg PM Peak</b>						
Rural Principal Arterial	49,064	35	7.840	9.888	8.045	395
Rural Minor Arterial	37,168	23	8.384	10.670	8.613	320
Rural Major Collector	5,104	28	8.338	10.580	8.562	44
Rural Minor Collector	62,618	34	8.225	10.392	8.442	529
Rural Local	122,672	29	8.063	10.178	8.275	1,015
Urban Interstate	1,750,337	39	7.714	9.703	7.913	13,850
Urban Other Freeway/Xprway	1,905,664	49	8.747	11.053	8.978	17,108
Urban Principal Arterial	1,221,504	21	8.805	11.292	9.054	11,059
Urban Minor Arterial	1,326,568	22	8.735	11.179	8.979	11,912
Urban Collector	1,101,997	20	8.908	11.431	9.160	10,095
Urban Local	1,879,190	20	8.866	11.358	9.115	17,129
Urban HOV	45,273	67	10.551	13.421	10.838	491
Mecklenburg	9,507,157		90%	10%		83,946
<b>Mecklenburg Night</b>						
Rural Principal Arterial	33,115	49	8.613	10.877	8.839	293
Rural Minor Arterial	29,639	40	8.366	10.565	8.586	254
Rural Major Collector	3,841	40	8.582	10.855	8.809	34
Rural Minor Collector	31,082	45	8.798	11.124	9.031	281
Rural Local	68,616	29	8.063	10.178	8.275	568
Urban Interstate	1,314,098	62	9.124	11.445	9.356	12,295
Urban Other Freeway/Xprway	1,027,086	61	9.563	12.057	9.812	10,078
Urban Principal Arterial	878,386	37	8.554	10.830	8.782	7,714
Urban Minor Arterial	936,279	37	8.550	10.821	8.777	8,218
Urban Collector	749,398	35	8.433	10.668	8.657	6,487
Urban Local	1,213,481	24	8.564	10.914	8.799	10,677
Urban HOV	0	0	20.754	30.373	21.716	0
Mecklenburg	6,285,021		90%	10%		56,899
<b>Mecklenburg 24 Hour</b>						
Rural Principal Arterial	182,590					1,520
Rural Minor Arterial	144,759					1,242
Rural Major Collector	20,411					176
Rural Minor Collector	208,728					1,799
Rural Local	435,884					3,607
Urban Interstate	6,857,990					58,396
Urban Other Freeway/Xprway	6,543,340					60,872
Urban Principal Arterial	4,739,130					41,968
Urban Minor Arterial	5,111,225					45,091
Urban Collector	4,216,074					37,587
Urban Local	7,200,729					64,547
Urban HOV	130,943					1,419
Mecklenburg	35,791,802		model kg / day	CO		318,223
			model emissions (tons)			350.8
			emissions budget			470.2
			budget minus model			119.4
			Kg->Tons Constant			907.1847

Source:  
Metrolina Regional Model - mrm09v1  
CDOT, Dec. 11  
, 2009

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