

2015 Metrolina NOx Emissions

2015 - 12/11/09

	Model		NOX RATES			NOX kg/day
	VMT	MPH	IM	No IM	Comp	
Cabarrus AM Peak						
Rural Interstate	0	0	1.667	1.874	1.679	0
Rural Principal Arterial	44,921	48	0.741	0.861	0.748	34
Rural Minor Arterial	60,001	54	0.659	0.783	0.666	40
Rural Major Collector	93,254	37	0.521	0.649	0.529	49
Rural Minor Collector	68,409	38	0.542	0.668	0.550	38
Rural Local	124,269	27	0.608	0.733	0.616	76
Urban Interstate	317,711	41	0.796	0.908	0.803	255
Urban Other Freeway/Xprway	0	0	1.237	1.481	1.252	0
Urban Principal Arterial	196,004	27	0.503	0.638	0.511	100
Urban Minor Arterial	197,891	26	0.506	0.642	0.514	102
Urban Collector	155,815	25	0.506	0.643	0.514	80
Urban Local	223,019	25	0.521	0.656	0.529	118
Cabarrus	1,481,293		94%	6%		892
Cabarrus Midday						
Rural Interstate	0	0	1.667	1.874	1.679	0
Rural Principal Arterial	55,229	52	0.776	0.897	0.783	43
Rural Minor Arterial	65,997	60	0.715	0.841	0.723	48
Rural Major Collector	123,231	42	0.533	0.660	0.541	67
Rural Minor Collector	85,574	43	0.556	0.682	0.564	48
Rural Local	177,387	27	0.608	0.733	0.616	109
Urban Interstate	419,942	64	1.131	1.246	1.138	478
Urban Other Freeway/Xprway	0	0	1.237	1.481	1.252	0
Urban Principal Arterial	288,555	29	0.496	0.629	0.504	145
Urban Minor Arterial	309,958	28	0.498	0.631	0.506	157
Urban Collector	239,160	29	0.490	0.623	0.498	119
Urban Local	362,152	24	0.526	0.662	0.534	193
Cabarrus	2,127,184		94%	6%		1,408
Cabarrus PM Peak						
Rural Interstate	0	0	1.667	1.874	1.679	0
Rural Principal Arterial	50,433	47	0.734	0.853	0.741	37
Rural Minor Arterial	65,165	53	0.652	0.776	0.659	43
Rural Major Collector	105,380	35	0.518	0.645	0.526	55
Rural Minor Collector	84,454	38	0.542	0.668	0.550	46
Rural Local	148,252	28	0.603	0.728	0.611	91
Urban Interstate	339,238	36	0.778	0.890	0.785	266
Urban Other Freeway/Xprway	0	0	1.237	1.481	1.252	0
Urban Principal Arterial	230,191	24	0.517	0.656	0.525	121
Urban Minor Arterial	228,874	24	0.515	0.654	0.523	120
Urban Collector	188,615	23	0.516	0.656	0.524	99
Urban Local	265,038	24	0.526	0.662	0.534	142
Cabarrus	1,705,639		94%	6%		1,020
Cabarrus Night						
Rural Interstate	0	0	1.667	1.874	1.679	0
Rural Principal Arterial	33,450	55	0.806	0.927	0.813	27
Rural Minor Arterial	40,019	62	0.744	0.870	0.752	30
Rural Major Collector	70,327	50	0.562	0.690	0.570	40
Rural Minor Collector	43,723	47	0.571	0.698	0.579	25
Rural Local	94,807	27	0.608	0.733	0.616	58
Urban Interstate	234,113	68	1.155	1.271	1.162	272
Urban Other Freeway/Xprway	0	0	1.237	1.481	1.252	0
Urban Principal Arterial	165,596	39	0.491	0.621	0.499	83
Urban Minor Arterial	173,183	38	0.488	0.618	0.496	86
Urban Collector	111,317	37	0.482	0.612	0.490	55
Urban Local	175,438	26	0.516	0.650	0.524	92
Cabarrus	1,141,973		94%	6%		768
Cabarrus 24 Hour						
Rural Interstate	0					0
Rural Principal Arterial	184,032					141
Rural Minor Arterial	231,182					161
Rural Major Collector	392,193					211
Rural Minor Collector	282,160					158
Rural Local	544,715					335
Urban Interstate	1,311,003					1,271
Urban Other Freeway/Xprway	0					0
Urban Principal Arterial	880,346					449
Urban Minor Arterial	909,906					464
Urban Collector	694,907					353
Urban Local	1,025,646					545
Cabarrus	6,456,089					4,088
			model kg / day	NOX		
						4,088
						7,324
						3,236

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	Model		NOX RATES			NOX kg/day
	VMT	MPH	IM	No IM	Comp	
Gaston AM Peak						
Rural Interstate	26,786	44	0.574	0.658	0.582	16
Rural Principal Arterial	63,727	51	0.476	0.573	0.485	31
Rural Minor Arterial	83,037	40	0.375	0.475	0.384	32
Rural Major Collector	92,890	38	0.341	0.444	0.350	33
Rural Minor Collector	44,007	40	0.354	0.456	0.363	16
Rural Local	82,137	28	0.387	0.488	0.396	33
Urban Interstate	563,105	45	0.500	0.591	0.508	286
Urban Other Freeway/Xprway	24,009	52	0.457	0.556	0.466	11
Urban Principal Arterial	267,213	31	0.323	0.430	0.333	89
Urban Minor Arterial	231,978	31	0.322	0.429	0.332	77
Urban Collector	60,822	29	0.324	0.431	0.334	20
Urban Local	225,526	24	0.346	0.457	0.356	80
Gaston	1,765,237		91%	9%		723
Gaston Midday						
Rural Interstate	32,727	61	0.768	0.854	0.776	25
Rural Principal Arterial	66,982	56	0.511	0.609	0.520	35
Rural Minor Arterial	102,749	48	0.398	0.499	0.407	42
Rural Major Collector	118,993	47	0.359	0.463	0.368	44
Rural Minor Collector	50,363	41	0.356	0.458	0.365	18
Rural Local	111,421	28	0.387	0.488	0.396	44
Urban Interstate	685,489	63	0.677	0.771	0.685	470
Urban Other Freeway/Xprway	28,857	55	0.473	0.574	0.482	14
Urban Principal Arterial	366,724	35	0.319	0.424	0.328	120
Urban Minor Arterial	331,527	35	0.318	0.423	0.327	109
Urban Collector	83,589	27	0.329	0.438	0.339	28
Urban Local	360,986	24	0.346	0.457	0.356	129
Gaston	2,340,406		91%	9%		1,078
Gaston PM Peak						
Rural Interstate	27,805	56	0.685	0.770	0.693	19
Rural Principal Arterial	68,521	55	0.501	0.599	0.510	35
Rural Minor Arterial	92,038	40	0.375	0.475	0.384	35
Rural Major Collector	104,933	38	0.341	0.444	0.350	37
Rural Minor Collector	52,442	40	0.354	0.456	0.363	19
Rural Local	99,164	29	0.384	0.484	0.393	39
Urban Interstate	614,913	45	0.500	0.591	0.508	312
Urban Other Freeway/Xprway	24,907	53	0.462	0.562	0.471	12
Urban Principal Arterial	310,702	30	0.325	0.432	0.335	104
Urban Minor Arterial	268,117	31	0.322	0.429	0.332	89
Urban Collector	73,985	22	0.346	0.461	0.356	26
Urban Local	265,652	24	0.346	0.457	0.356	95
Gaston	2,003,181		91%	9%		822
Gaston Night						
Rural Interstate	19,628	62	0.790	0.876	0.798	16
Rural Principal Arterial	40,419	58	0.529	0.628	0.538	22
Rural Minor Arterial	58,012	51	0.410	0.511	0.419	24
Rural Major Collector	71,423	51	0.371	0.475	0.380	27
Rural Minor Collector	26,681	41	0.356	0.458	0.365	10
Rural Local	60,009	28	0.387	0.488	0.396	24
Urban Interstate	415,693	64	0.693	0.787	0.701	292
Urban Other Freeway/Xprway	18,120	56	0.482	0.582	0.491	9
Urban Principal Arterial	204,845	40	0.324	0.430	0.334	68
Urban Minor Arterial	187,038	40	0.323	0.429	0.333	62
Urban Collector	44,929	33	0.318	0.424	0.328	15
Urban Local	190,005	24	0.346	0.457	0.356	68
Gaston	1,336,799		91%	9%		636
Gaston 24 Hour						
Rural Interstate	106,946					76
Rural Principal Arterial	239,650					122
Rural Minor Arterial	335,836					133
Rural Major Collector	388,239					140
Rural Minor Collector	173,493					63
Rural Local	352,730					139
Urban Interstate	2,279,200					1,360
Urban Other Freeway/Xprway	95,893					46
Urban Principal Arterial	1,149,484					382
Urban Minor Arterial	1,018,660					337
Urban Collector	263,324					90
Urban Local	1,042,169					371
Gaston	7,445,624		model kg / day	NOX		3,259
			total model emissions			3,259
			emissions budget			7,647
			budget minus model			4,388

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	Model		NOX RATES			NOX kg/day
	VMT	MPH	IM	No IM	Comp	
Iredell AM Peak						
Rural Interstate	298,840	44	0.960	1.063	0.974	291
Rural Principal Arterial	0	0	1.301	1.541	1.335	0
Rural Minor Arterial	32,200	18	0.658	0.800	0.678	22
Rural Major Collector	59,872	30	0.525	0.655	0.543	33
Rural Minor Collector	54,836	27	0.555	0.686	0.573	31
Rural Local	155,185	27	0.608	0.733	0.626	97
Urban Interstate	0	0	1.448	1.674	1.480	0
Urban Other Freeway/Xprway	0	0	1.237	1.481	1.271	0
Urban Principal Arterial	22,126	25	0.512	0.650	0.531	12
Urban Minor Arterial	37,949	22	0.527	0.668	0.547	21
Urban Collector	17,819	25	0.506	0.643	0.525	9
Urban Local	100,515	25	0.521	0.656	0.540	54
Iredell	779,343		86%	14%		570
Iredell Midday						
Rural Interstate	423,387	59	1.214	1.319	1.229	520
Rural Principal Arterial	0	0	1.301	1.541	1.335	0
Rural Minor Arterial	49,488	18	0.658	0.800	0.678	34
Rural Major Collector	86,005	33	0.520	0.649	0.538	46
Rural Minor Collector	74,839	29	0.547	0.676	0.565	42
Rural Local	238,883	28	0.603	0.728	0.621	148
Urban Interstate	0	0	1.448	1.674	1.480	0
Urban Other Freeway/Xprway	0	0	1.237	1.481	1.271	0
Urban Principal Arterial	36,563	26	0.508	0.644	0.527	19
Urban Minor Arterial	59,764	24	0.515	0.654	0.534	32
Urban Collector	27,432	25	0.506	0.643	0.525	14
Urban Local	170,440	25	0.521	0.656	0.540	92
Iredell	1,166,801		86%	14%		948
Iredell PM Peak						
Rural Interstate	322,068	40	0.929	1.032	0.943	304
Rural Principal Arterial	0	0	1.301	1.541	1.335	0
Rural Minor Arterial	35,849	15	0.698	0.848	0.719	26
Rural Major Collector	66,533	27	0.536	0.669	0.555	37
Rural Minor Collector	61,972	28	0.551	0.681	0.569	35
Rural Local	181,185	27	0.608	0.733	0.626	113
Urban Interstate	0	0	1.448	1.674	1.480	0
Urban Other Freeway/Xprway	0	0	1.237	1.481	1.271	0
Urban Principal Arterial	25,644	22	0.529	0.671	0.549	14
Urban Minor Arterial	42,313	20	0.540	0.685	0.560	24
Urban Collector	20,933	23	0.516	0.656	0.536	11
Urban Local	118,665	24	0.526	0.662	0.545	65
Iredell	875,162		86%	14%		629
Iredell Night						
Rural Interstate	236,300	68	1.413	1.518	1.428	337
Rural Principal Arterial	0	0	1.301	1.541	1.335	0
Rural Minor Arterial	29,152	34	0.574	0.698	0.591	17
Rural Major Collector	49,317	42	0.533	0.660	0.551	27
Rural Minor Collector	37,023	41	0.549	0.675	0.567	21
Rural Local	122,375	32	0.593	0.715	0.610	75
Urban Interstate	0	0	1.448	1.674	1.480	0
Urban Other Freeway/Xprway	0	0	1.237	1.481	1.271	0
Urban Principal Arterial	18,645	34	0.486	0.617	0.504	9
Urban Minor Arterial	32,622	34	0.484	0.615	0.502	16
Urban Collector	11,374	32	0.483	0.615	0.501	6
Urban Local	80,411	27	0.512	0.645	0.531	43
Iredell	617,219		86%	14%		552
Iredell 24 Hour						
Rural Interstate	1,280,594					1,453
Rural Principal Arterial	0					0
Rural Minor Arterial	146,689					98
Rural Major Collector	261,727					143
Rural Minor Collector	228,670					130
Rural Local	697,628					433
Urban Interstate	0					0
Urban Other Freeway/Xprway	0					0
Urban Principal Arterial	102,978					55
Urban Minor Arterial	172,649					93
Urban Collector	77,558					41
Urban Local	470,031					254
Iredell	3,438,525					2,699
model kg / day NOX						
total model emissions						2,699
emissions budget						5,637
budget minus model						2,938

2015 Metrolina NOx Emissions

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	Model		NOX RATES			NOX kg/day
	VMT	MPH	IM	No IM	Comp	
Lincoln AM Peak						
Rural Interstate	0	0	1.667	1.874	1.673	0
Rural Principal Arterial	143,334	52	0.776	0.897	0.780	112
Rural Minor Arterial	101,695	35	0.573	0.696	0.577	59
Rural Major Collector	65,371	54	0.584	0.713	0.588	38
Rural Minor Collector	76,604	41	0.549	0.675	0.553	42
Rural Local	163,131	28	0.603	0.728	0.607	99
Urban Interstate	0	0	1.448	1.674	1.455	0
Urban Other Freeway/Xprway	0	0	1.237	1.481	1.244	0
Urban Principal Arterial	23,117	39	0.491	0.621	0.495	11
Urban Minor Arterial	12,673	20	0.540	0.685	0.544	7
Urban Collector	6,191	24	0.511	0.649	0.515	3
Urban Local	41,673	25	0.521	0.656	0.525	22
Lincoln	633,788		97%	3%		394
Lincoln Midday						
Rural Interstate	0	0	1.667	1.874	1.673	0
Rural Principal Arterial	182,971	56	0.822	0.942	0.826	151
Rural Minor Arterial	147,702	39	0.582	0.705	0.586	87
Rural Major Collector	82,914	56	0.597	0.726	0.601	50
Rural Minor Collector	89,577	45	0.562	0.688	0.566	51
Rural Local	232,359	28	0.603	0.728	0.607	141
Urban Interstate	0	0	1.448	1.674	1.455	0
Urban Other Freeway/Xprway	0	0	1.237	1.481	1.244	0
Urban Principal Arterial	32,229	39	0.491	0.621	0.495	16
Urban Minor Arterial	18,849	23	0.521	0.661	0.525	10
Urban Collector	8,649	29	0.490	0.623	0.494	4
Urban Local	67,092	25	0.521	0.656	0.525	35
Lincoln	862,342		97%	3%		544
Lincoln PM Peak						
Rural Interstate	0	0	1.667	1.874	1.673	0
Rural Principal Arterial	155,020	50	0.754	0.874	0.758	117
Rural Minor Arterial	110,092	33	0.576	0.700	0.580	64
Rural Major Collector	73,385	53	0.579	0.708	0.583	43
Rural Minor Collector	86,388	42	0.553	0.678	0.557	48
Rural Local	189,195	28	0.603	0.728	0.607	115
Urban Interstate	0	0	1.448	1.674	1.455	0
Urban Other Freeway/Xprway	0	0	1.237	1.481	1.244	0
Urban Principal Arterial	25,619	37	0.488	0.618	0.492	13
Urban Minor Arterial	13,817	18	0.557	0.706	0.561	8
Urban Collector	7,177	25	0.506	0.643	0.510	4
Urban Local	48,953	25	0.521	0.656	0.525	26
Lincoln	709,646		97%	3%		437
Lincoln Night						
Rural Interstate	0	0	1.667	1.874	1.673	0
Rural Principal Arterial	98,014	60	0.878	1.000	0.882	86
Rural Minor Arterial	93,760	48	0.619	0.743	0.623	58
Rural Major Collector	47,292	57	0.604	0.734	0.608	29
Rural Minor Collector	46,577	48	0.576	0.702	0.580	27
Rural Local	122,806	28	0.603	0.728	0.607	75
Urban Interstate	0	0	1.448	1.674	1.455	0
Urban Other Freeway/Xprway	0	0	1.237	1.481	1.244	0
Urban Principal Arterial	18,994	47	0.512	0.643	0.516	10
Urban Minor Arterial	9,926	29	0.494	0.627	0.498	5
Urban Collector	4,531	33	0.482	0.613	0.486	2
Urban Local	35,653	25	0.521	0.656	0.525	19
Lincoln	477,553		97%	3%		311
Lincoln 24 Hour						
Rural Interstate	0					0
Rural Principal Arterial	579,339					467
Rural Minor Arterial	453,249					267
Rural Major Collector	268,962					160
Rural Minor Collector	299,146					168
Rural Local	707,492					429
Urban Interstate	0					0
Urban Other Freeway/Xprway	0					0
Urban Principal Arterial	99,959					50
Urban Minor Arterial	55,264					29
Urban Collector	26,547					13
Urban Local	193,370					102
Lincoln	2,683,328		model kg / day NOX			1,685
total model emissions						1,685
emissions budget						2,948
budget minus model						1,263

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	Model		NOX RATES			NOX kg/day
	VMT	MPH	IM	No IM	Comp	
Mecklenburg AM Peak						
Rural Principal Arterial	44,478	34	0.426	0.524	0.436	19
Rural Minor Arterial	32,648	21	0.412	0.524	0.423	14
Rural Major Collector	4,663	26	0.359	0.468	0.370	2
Rural Minor Collector	50,158	35	0.352	0.456	0.362	18
Rural Local	101,020	29	0.389	0.491	0.399	40
Urban Interstate	1,594,496	42	0.493	0.585	0.502	801
Urban Other Freeway/Xprway	1,674,134	50	0.449	0.550	0.459	769
Urban Principal Arterial	1,054,461	23	0.351	0.466	0.363	382
Urban Minor Arterial	1,127,815	24	0.346	0.460	0.357	403
Urban Collector	948,502	21	0.356	0.474	0.368	349
Urban Local	1,576,746	22	0.359	0.474	0.371	584
Urban HOV	46,220	66	0.450	0.566	0.462	21
Mecklenburg	8,255,340		90%	10%		3,402
Mecklenburg Midday						
Rural Principal Arterial	55,934	43	0.444	0.542	0.454	25
Rural Minor Arterial	45,304	27	0.386	0.492	0.397	18
Rural Major Collector	6,803	33	0.344	0.449	0.355	2
Rural Minor Collector	64,871	40	0.359	0.462	0.369	24
Rural Local	143,575	29	0.389	0.491	0.399	57
Urban Interstate	2,199,060	55	0.574	0.668	0.583	1,283
Urban Other Freeway/Xprway	1,936,456	58	0.503	0.605	0.513	994
Urban Principal Arterial	1,584,778	27	0.337	0.449	0.348	552
Urban Minor Arterial	1,720,564	27	0.336	0.447	0.347	597
Urban Collector	1,416,177	26	0.337	0.449	0.348	493
Urban Local	2,531,313	22	0.359	0.474	0.371	938
Urban HOV	39,450	67	0.450	0.566	0.462	18
Mecklenburg	11,744,285		90%	10%		5,002
Mecklenburg PM Peak						
Rural Principal Arterial	49,064	35	0.426	0.524	0.436	21
Rural Minor Arterial	37,168	23	0.402	0.511	0.413	15
Rural Major Collector	5,104	28	0.353	0.461	0.364	2
Rural Minor Collector	62,618	34	0.353	0.457	0.363	23
Rural Local	122,672	29	0.389	0.491	0.399	49
Urban Interstate	1,750,337	39	0.483	0.575	0.492	862
Urban Other Freeway/Xprway	1,905,664	49	0.445	0.546	0.455	867
Urban Principal Arterial	1,221,504	21	0.360	0.478	0.372	454
Urban Minor Arterial	1,326,568	22	0.354	0.470	0.366	485
Urban Collector	1,101,997	20	0.361	0.480	0.373	411
Urban Local	1,879,190	20	0.369	0.487	0.381	716
Urban HOV	45,273	67	0.450	0.566	0.462	21
Mecklenburg	9,507,157		90%	10%		3,926
Mecklenburg Night						
Rural Principal Arterial	33,115	49	0.469	0.568	0.479	16
Rural Minor Arterial	29,639	40	0.379	0.481	0.389	12
Rural Major Collector	3,841	40	0.348	0.453	0.359	1
Rural Minor Collector	31,082	45	0.370	0.474	0.380	12
Rural Local	68,616	29	0.389	0.491	0.399	27
Urban Interstate	1,314,098	62	0.666	0.761	0.676	888
Urban Other Freeway/Xprway	1,027,086	61	0.530	0.632	0.540	555
Urban Principal Arterial	878,386	37	0.326	0.434	0.337	296
Urban Minor Arterial	936,279	37	0.325	0.432	0.336	314
Urban Collector	749,398	35	0.320	0.428	0.331	248
Urban Local	1,213,481	24	0.351	0.464	0.362	440
Urban HOV	0	0	0.729	0.954	0.752	0
Mecklenburg	6,285,021		90%	10%		2,808
Mecklenburg 24 Hour						
Rural Principal Arterial	182,590					82
Rural Minor Arterial	144,759					59
Rural Major Collector	20,411					7
Rural Minor Collector	208,728					77
Rural Local	435,884					174
Urban Interstate	6,857,990					3,833
Urban Other Freeway/Xprway	6,543,340					3,184
Urban Principal Arterial	4,739,130					1,684
Urban Minor Arterial	5,111,225					1,800
Urban Collector	4,216,074					1,501
Urban Local	7,200,729					2,677
Urban HOV	130,943					60
Mecklenburg	35,791,802		model kg / day	NOX		15,138
			total model emissions			15,138
			emissions budget			34,526
			budget minus model			19,388

2015 Metrolina NOx Emissions

2015 - 12/11/09

	Model		NOX RATES			NOX kg/day
	VMT	MPH	IM	No IM	Comp	
Rowan AM Peak						
Rural Interstate	0	0	1.667	1.874	1.681	0
Rural Principal Arterial	42,587	53	0.787	0.907	0.795	34
Rural Minor Arterial	24,625	54	0.659	0.783	0.668	16
Rural Major Collector	139,236	49	0.558	0.686	0.567	79
Rural Minor Collector	93,645	45	0.562	0.688	0.571	53
Rural Local	120,847	28	0.603	0.728	0.612	74
Urban Interstate	359,027	57	0.970	1.084	0.978	351
Urban Other Freeway/Xprway	0	0	1.237	1.481	1.254	0
Urban Principal Arterial	102,041	34	0.486	0.617	0.495	51
Urban Minor Arterial	177,974	36	0.485	0.615	0.494	88
Urban Collector	108,274	31	0.485	0.616	0.494	54
Urban Local	179,725	25	0.521	0.656	0.530	95
Rowan	1,347,980		93%	7%		895
Rowan Midday						
Rural Interstate	0	0	1.667	1.874	1.681	0
Rural Principal Arterial	53,528	58	0.851	0.972	0.859	46
Rural Minor Arterial	32,107	58	0.696	0.822	0.705	23
Rural Major Collector	163,032	54	0.584	0.713	0.593	97
Rural Minor Collector	108,147	48	0.576	0.702	0.585	63
Rural Local	166,496	28	0.603	0.728	0.612	102
Urban Interstate	433,999	60	1.024	1.139	1.032	448
Urban Other Freeway/Xprway	0	0	1.237	1.481	1.254	0
Urban Principal Arterial	144,725	35	0.485	0.615	0.494	72
Urban Minor Arterial	263,344	37	0.486	0.616	0.495	130
Urban Collector	148,565	28	0.493	0.627	0.502	75
Urban Local	284,433	25	0.521	0.656	0.530	151
Rowan	1,798,378		93%	7%		1,206
Rowan PM Peak						
Rural Interstate	0	0	1.667	1.874	1.681	0
Rural Principal Arterial	47,003	53	0.787	0.907	0.795	37
Rural Minor Arterial	27,527	52	0.644	0.769	0.653	18
Rural Major Collector	150,763	49	0.558	0.686	0.567	85
Rural Minor Collector	107,344	44	0.559	0.685	0.568	61
Rural Local	137,880	28	0.603	0.728	0.612	84
Urban Interstate	385,013	57	0.970	1.084	0.978	377
Urban Other Freeway/Xprway	0	0	1.237	1.481	1.254	0
Urban Principal Arterial	115,668	32	0.489	0.620	0.498	58
Urban Minor Arterial	202,631	34	0.484	0.615	0.493	100
Urban Collector	129,111	26	0.501	0.637	0.511	66
Urban Local	212,117	25	0.521	0.656	0.530	113
Rowan	1,515,057		93%	7%		999
Rowan Night						
Rural Interstate	0	0	1.667	1.874	1.681	0
Rural Principal Arterial	28,994	60	0.878	1.000	0.887	26
Rural Minor Arterial	18,347	60	0.715	0.841	0.724	13
Rural Major Collector	103,109	57	0.604	0.734	0.613	63
Rural Minor Collector	57,098	49	0.580	0.707	0.589	34
Rural Local	93,355	28	0.603	0.728	0.612	57
Urban Interstate	245,154	61	1.052	1.167	1.060	260
Urban Other Freeway/Xprway	0	0	1.237	1.481	1.254	0
Urban Principal Arterial	78,615	43	0.500	0.631	0.509	40
Urban Minor Arterial	155,877	43	0.499	0.629	0.508	79
Urban Collector	73,594	36	0.481	0.611	0.490	36
Urban Local	144,169	25	0.521	0.656	0.530	76
Rowan	998,312		93%	7%		685
Rowan 24 Hour						
Rural Interstate	0					0
Rural Principal Arterial	172,112					143
Rural Minor Arterial	102,606					70
Rural Major Collector	556,139					324
Rural Minor Collector	366,234					211
Rural Local	518,579					317
Urban Interstate	1,423,193					1,435
Urban Other Freeway/Xprway	0					0
Urban Principal Arterial	441,050					220
Urban Minor Arterial	799,825					397
Urban Collector	459,544					230
Urban Local	820,444					435
Rowan	5,659,728		model kg / day	NOX		3,784
			total model emissions			3,784
			emissions budget			7,193
			budget minus model			3,409

2015 Metrolina NOx Emissions

2015 - 12/11/09

	Model		NOX RATES			NOX kg/day
	VMT	MPH	IM	No IM	Comp	
Union AM Peak						
Rural Interstate	0	0	1.667	1.874	1.690	0
Rural Principal Arterial	158,814	51	0.766	0.886	0.779	124
Rural Minor Arterial	25,083	52	0.644	0.769	0.658	16
Rural Major Collector	222,771	41	0.530	0.657	0.544	121
Rural Minor Collector	97,538	41	0.549	0.675	0.563	55
Rural Local	313,863	30	0.596	0.719	0.610	191
Urban Interstate	0	0	1.448	1.674	1.473	0
Urban Other Freeway/Xprway	62,743	46	0.684	0.806	0.697	44
Urban Principal Arterial	136,308	35	0.485	0.615	0.499	68
Urban Minor Arterial	165,870	28	0.498	0.631	0.513	85
Urban Collector	69,375	31	0.485	0.616	0.499	35
Urban Local	249,058	26	0.516	0.650	0.531	132
Union	1,501,423		89%	11%		871
Union Midday						
Rural Interstate	0	0	1.667	1.874	1.690	0
Rural Principal Arterial	176,963	52	0.776	0.897	0.789	140
Rural Minor Arterial	32,775	54	0.659	0.783	0.673	22
Rural Major Collector	310,105	44	0.539	0.666	0.553	171
Rural Minor Collector	129,017	44	0.559	0.685	0.573	74
Rural Local	438,810	30	0.596	0.719	0.610	267
Urban Interstate	0	0	1.448	1.674	1.473	0
Urban Other Freeway/Xprway	67,272	54	0.747	0.870	0.761	51
Urban Principal Arterial	203,388	38	0.490	0.620	0.504	103
Urban Minor Arterial	245,096	32	0.487	0.618	0.501	123
Urban Collector	100,285	35	0.479	0.609	0.493	49
Urban Local	384,986	27	0.512	0.645	0.527	203
Union	2,088,698		89%	11%		1,203
Union PM Peak						
Rural Interstate	0	0	1.667	1.874	1.690	0
Rural Principal Arterial	175,744	50	0.754	0.874	0.767	135
Rural Minor Arterial	28,521	50	0.629	0.753	0.643	18
Rural Major Collector	249,288	41	0.530	0.657	0.544	136
Rural Minor Collector	113,352	40	0.546	0.671	0.560	63
Rural Local	362,081	30	0.596	0.719	0.610	221
Urban Interstate	0	0	1.448	1.674	1.473	0
Urban Other Freeway/Xprway	66,339	52	0.729	0.852	0.743	49
Urban Principal Arterial	153,719	33	0.487	0.618	0.501	77
Urban Minor Arterial	189,322	26	0.506	0.642	0.521	99
Urban Collector	79,984	29	0.490	0.623	0.505	40
Urban Local	291,958	25	0.521	0.656	0.536	156
Union	1,710,308		89%	11%		995
Union Night						
Rural Interstate	0	0	1.667	1.874	1.690	0
Rural Principal Arterial	92,436	53	0.787	0.907	0.800	74
Rural Minor Arterial	19,537	57	0.686	0.812	0.700	14
Rural Major Collector	180,075	49	0.558	0.686	0.572	103
Rural Minor Collector	66,390	46	0.567	0.693	0.581	39
Rural Local	226,153	30	0.596	0.719	0.610	138
Urban Interstate	0	0	1.448	1.674	1.473	0
Urban Other Freeway/Xprway	34,002	54	0.747	0.870	0.761	26
Urban Principal Arterial	116,435	44	0.503	0.633	0.517	60
Urban Minor Arterial	147,455	40	0.491	0.621	0.505	75
Urban Collector	50,284	41	0.490	0.620	0.504	25
Urban Local	201,122	29	0.505	0.636	0.519	104
Union	1,133,890		89%	11%		657
Union 24 Hour						
Rural Interstate	0					0
Rural Principal Arterial	603,958					472
Rural Minor Arterial	105,916					71
Rural Major Collector	962,239					531
Rural Minor Collector	406,297					231
Rural Local	1,340,906					817
Urban Interstate	0					0
Urban Other Freeway/Xprway	230,356					170
Urban Principal Arterial	609,851					308
Urban Minor Arterial	747,744					381
Urban Collector	299,927					150
Urban Local	1,127,125					596
Union	6,434,319		model kg / day NOX			3,727
total model emissions						3,727
emissions budget						5,660
budget minus model						1,933