

Appendix D-2: Columbia County Annual Nonroad Emissions by Category
Tons per Year

Equipment Type	Fuel	Pollutant	Tons/Year			
			2002	2004	2009	2018
Recreational	Diesel	VOC	0.246972	0.239834	0.210692	0.136972
Recreational	Gasoline	VOC	152.643610	188.850687	222.052242	147.749348
Recreational	CNG	VOC	0.246972	0.239834	0.210692	0.136972
Recreational	LPG	VOC	0.020238	0.019936	0.017088	0.011153
Construction	Diesel	VOC	10.556913	9.802449	7.894316	4.947523
Construction	Gasoline	VOC	6.358813	5.548434	3.136047	2.978822
Construction	CNG	VOC	0.000015	0.000015	0.000012	0.000006
Construction	LPG	VOC	0.099604	0.095620	0.058676	0.016867
Industrial	Diesel	VOC	4.511293	4.138136	3.251134	1.862155
Industrial	Gasoline	VOC	6.798010	5.695669	2.336542	0.516602
Industrial	CNG	VOC	0.113332	0.109052	0.062474	0.009021
Industrial	LPG	VOC	26.851237	26.086944	15.070930	2.219293
Lawn and Garden	Diesel	VOC	0.193686	0.186528	0.156637	0.113668
Lawn and Garden	Gasoline	VOC	94.089185	86.914552	65.500058	64.984648
Lawn and Garden	CNG	VOC	0.000000	0.000000	0.000000	0.000000
Lawn and Garden	LPG	VOC	0.026739	0.025307	0.012847	0.001768
Farm	Diesel	VOC	14.094475	12.766423	9.872172	5.917625
Farm	Gasoline	VOC	2.563764	2.440866	1.997244	1.620029
Farm	CNG	VOC	0.004137	0.002434	0.000298	0.000007
Farm	LPG	VOC	0.001291	0.001221	0.000812	0.000391
Light Commercial	Diesel	VOC	1.739304	1.689022	1.453050	0.908415
Light Commercial	Gasoline	VOC	24.651557	22.839697	17.326757	19.451912
Light Commercial	CNG	VOC	0.020376	0.010781	0.005109	0.004023
Light Commercial	LPG	VOC	0.422833	0.439817	0.365966	0.196125
Logging	Diesel	VOC	0.455278	0.396285	0.282062	0.135229
Logging	Gasoline	VOC	3.249307	3.080587	1.818082	2.207679
Logging	CNG	VOC	0.000000	0.000000	0.000000	0.000000
Logging	LPG	VOC	0.000000	0.000000	0.000000	0.000000
Airport Service	Diesel	VOC	0.001149	0.001088	0.000915	0.000641
Airport Service	Gasoline	VOC	0.000352	0.000335	0.000177	0.000115
Airport Service	CNG	VOC	0.000000	0.000000	0.000000	0.000000
Airport Service	LPG	VOC	0.000096	0.000095	0.000053	0.000008
Railway Maintenance	Diesel	VOC	0.010483	0.010312	0.009274	0.006041
Railway Maintenance	Gasoline	VOC	0.003516	0.003189	0.002379	0.002467
Railway Maintenance	CNG	VOC	0.000000	0.000000	0.000000	0.000000
Railway Maintenance	LPG	VOC	0.000036	0.000036	0.000027	0.000007
Recreational Marine Vessels	Diesel	VOC	0.239636	0.251563	0.259923	0.255210
Recreational Marine Vessels	Gasoline	VOC	189.567285	175.171577	135.123619	96.156162
Recreational Marine Vessels	CNG	VOC	0.000000	0.000000	0.000000	0.000000
Recreational Marine Vessels	LPG	VOC	0.000000	0.000000	0.000000	0.000000
Aircraft	Other	VOC	0.000000	0.000000	0.000000	0.000000
Marine Vessels	Coal	VOC	0.000000	0.000000	0.000000	0.000000
Marine Vessels	Diesel	VOC	0.000000	0.000000	0.000000	0.000000
Marine Vessels	Residual Oil	VOC	0.000000	0.000000	0.000000	0.000000
Marine Vessels	Gasoline	VOC	0.000000	0.000000	0.000000	0.000000
Marine Vessels	Other	VOC	0.000000	0.000000	0.000000	0.000000
Railroads	Diesel	VOC	0.000000	0.000000	0.000000	0.000000
Columbia County VOC Totals			539.781496	547.058326	488.488304	352.546904

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Equipment Type	Fuel	Pollutant	2002	2004	2009	2018
Recreational	Diesel	NOx	0.772453	0.782130	0.774660	0.632448
Recreational	Gasoline	NOx	4.424689	4.852479	5.724669	6.151576
Recreational	CNG	NOx	0.772453	0.782130	0.774660	0.632448
Recreational	LPG	NOx	0.074699	0.073426	0.062189	0.040378
Construction	Diesel	NOx	91.356885	88.367857	76.727964	39.861844
Construction	Gasoline	NOx	0.798588	0.734863	0.535282	0.425233
Construction	CNG	NOx	0.000955	0.000945	0.000753	0.000351
Construction	LPG	NOx	0.365288	0.348032	0.210306	0.073070
Industrial	Diesel	NOx	42.070649	41.109585	35.933976	18.250241
Industrial	Gasoline	NOx	5.297487	4.433084	1.964078	0.299253
Industrial	CNG	NOx	7.043085	6.718620	3.746600	0.876951
Industrial	LPG	NOx	98.478394	94.812310	53.377136	12.710267
Lawn and Garden	Diesel	NOx	1.297375	1.346799	1.390879	1.225314
Lawn and Garden	Gasoline	NOx	9.451335	9.282525	8.096638	8.352341
Lawn and Garden	CNG	NOx	0.000000	0.000000	0.000000	0.000000
Lawn and Garden	LPG	NOx	0.097763	0.091663	0.045479	0.010738
Farm	Diesel	NOx	115.838089	112.510055	101.205436	64.812277
Farm	Gasoline	NOx	1.122144	1.103736	0.869404	0.641087
Farm	CNG	NOx	0.245526	0.142175	0.017126	0.000398
Farm	LPG	NOx	0.004728	0.004446	0.002918	0.001482
Light Commercial	Diesel	NOx	9.937802	10.179135	10.183849	8.045410
Light Commercial	Gasoline	NOx	4.943446	4.892670	4.302233	4.678361
Light Commercial	CNG	NOx	1.288501	0.707044	0.433833	0.349063
Light Commercial	LPG	NOx	1.952348	2.025100	1.677583	0.968251
Logging	Diesel	NOx	6.260963	5.535002	3.705050	0.776043
Logging	Gasoline	NOx	0.139449	0.148593	0.146052	0.166948
Logging	CNG	NOx	0.000000	0.000000	0.000000	0.000000
Logging	LPG	NOx	0.000000	0.000000	0.000000	0.000000
Airport Service	Diesel	NOx	0.013629	0.013475	0.012360	0.006550
Airport Service	Gasoline	NOx	0.000279	0.000259	0.000139	0.000051
Airport Service	CNG	NOx	0.000000	0.000000	0.000000	0.000000
Airport Service	LPG	NOx	0.000353	0.000345	0.000187	0.000050
Railway Maintenance	Diesel	NOx	0.054041	0.054296	0.052078	0.037435
Railway Maintenance	Gasoline	NOx	0.001023	0.000925	0.000758	0.000757
Railway Maintenance	CNG	NOx	0.000000	0.000000	0.000000	0.000000
Railway Maintenance	LPG	NOx	0.000133	0.000131	0.000096	0.000030
Recreational Marine Vessels	Diesel	NOx	6.271834	6.623797	7.064071	7.453331
Recreational Marine Vessels	Gasoline	NOx	8.403684	9.339725	11.833336	15.270139
Recreational Marine Vessels	CNG	NOx	0.000000	0.000000	0.000000	0.000000
Recreational Marine Vessels	LPG	NOx	0.000000	0.000000	0.000000	0.000000
Aircraft	Other	NOx	0.000000	0.000000	0.000000	0.000000
Marine Vessels	Coal	NOx	0.000000	0.000000	0.000000	0.000000
Marine Vessels	Diesel	NOx	0.000000	0.000000	0.000000	0.000000
Marine Vessels	Residual Oil	NOx	0.000000	0.000000	0.000000	0.000000
Marine Vessels	Gasoline	NOx	0.000000	0.000000	0.000000	0.000000
Marine Vessels	Other	NOx	0.000000	0.000000	0.000000	0.000000
Railroads	Diesel	NOx	0.000000	0.000000	0.000000	0.000000
Columbia County NOx Totals			418.780073	407.017356	330.871778	192.750116

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Equipment Type	Fuel	Pollutant	2002	2004	2009	2018
Recreational	Diesel	CO	0.919056	0.895929	0.804411	0.531734
Recreational	Gasoline	CO	653.163473	744.730370	919.804787	1023.318816
Recreational	CNG	CO	0.919056	0.895929	0.804411	0.531734
Recreational	LPG	CO	0.298857	0.301828	0.277881	0.197508
Construction	Diesel	CO	51.120033	47.072246	41.042232	20.828535
Construction	Gasoline	CO	86.683638	87.528903	86.394934	86.613461
Construction	CNG	CO	0.003805	0.003933	0.003584	0.002001
Construction	LPG	CO	1.473985	1.514688	1.164489	0.415521
Industrial	Diesel	CO	19.494045	18.546316	18.611567	6.717224
Industrial	Gasoline	CO	169.196778	149.387027	88.915340	23.997575
Industrial	CNG	CO	28.466610	29.422415	22.420746	4.916149
Industrial	LPG	CO	397.349376	415.301638	320.829023	73.806977
Lawn and Garden	Diesel	CO	0.679288	0.674637	0.639224	0.494609
Lawn and Garden	Gasoline	CO	1315.000047	1370.040696	1515.447479	1764.357236
Lawn and Garden	CNG	CO	0.000000	0.000000	0.000000	0.000000
Lawn and Garden	LPG	CO	0.396100	0.406406	0.287811	0.061497
Farm	Diesel	CO	67.426795	62.591551	52.073290	28.958621
Farm	Gasoline	CO	59.811469	60.807137	60.530891	62.377795
Farm	CNG	CO	1.054429	0.623755	0.077003	0.001782
Farm	LPG	CO	0.019118	0.018939	0.014815	0.007280
Light Commercial	Diesel	CO	6.332824	6.282656	5.964497	4.093815
Light Commercial	Gasoline	CO	616.457135	661.887852	774.644644	959.252474
Light Commercial	CNG	CO	5.086808	4.913264	1.584778	1.460643
Light Commercial	LPG	CO	5.718435	6.341323	6.339076	4.019283
Logging	Diesel	CO	2.154002	1.759792	1.448241	0.276342
Logging	Gasoline	CO	23.823872	25.134305	28.293944	36.597308
Logging	CNG	CO	0.000000	0.000000	0.000000	0.000000
Logging	LPG	CO	0.000000	0.000000	0.000000	0.000000
Airport Service	Diesel	CO	0.006317	0.006034	0.005480	0.002968
Airport Service	Gasoline	CO	0.008846	0.008802	0.007273	0.006034
Airport Service	CNG	CO	0.000000	0.000000	0.000000	0.000000
Airport Service	LPG	CO	0.001419	0.001525	0.001185	0.000283
Railway Maintenance	Diesel	CO	0.044628	0.043519	0.039561	0.024946
Railway Maintenance	Gasoline	CO	0.123993	0.129891	0.140667	0.153188
Railway Maintenance	CNG	CO	0.000000	0.000000	0.000000	0.000000
Railway Maintenance	LPG	CO	0.000534	0.000552	0.000481	0.000192
Recreational Marine Vessels	Diesel	CO	1.005285	1.059212	1.193026	1.430687
Recreational Marine Vessels	Gasoline	CO	485.047807	469.114407	423.589211	375.957525
Recreational Marine Vessels	CNG	CO	0.000000	0.000000	0.000000	0.000000
Recreational Marine Vessels	LPG	CO	0.000000	0.000000	0.000000	0.000000
Aircraft	Other	CO	0.000000	0.000000	0.000000	0.000000
Marine Vessels	Coal	CO	0.000000	0.000000	0.000000	0.000000
Marine Vessels	Diesel	CO	0.000000	0.000000	0.000000	0.000000
Marine Vessels	Residual Oil	CO	0.000000	0.000000	0.000000	0.000000
Marine Vessels	Gasoline	CO	0.000000	0.000000	0.000000	0.000000
Marine Vessels	Other	CO	0.000000	0.000000	0.000000	0.000000
Railroads	Diesel	CO	0.000000	0.000000	0.000000	0.000000
Columbia County CO Totals			3999.287866	4167.447475	4373.395981	4481.411741

Appendix D-2: Columbia County Annual Nonroad Emissions by SCC
Tons per Year

SCC	Classification	Equipment Type	Engine Type	Pollutant Code	2002 Emissions	2004 Emissions	2009 Emissions	2018 Emissions
2260001010	Recreational Equipment	Motorcycles: Off-Road	2 Stroke	NOx	0.143686	0.167168	0.273473	0.442908
2260001020	Recreational Equipment	Snowmobiles	2 Stroke	NOx	0.000000	0.000000	0.000000	0.000000
2260001030	Recreational Equipment	ATVs	2 Stroke	NOx	0.145284	0.199923	0.379508	0.642982
2260001060	Recreational Equipment	Specialty Vehicles/Carts	2 Stroke	NOx	0.214936	0.201407	0.164115	0.169113
2260002006	Construction and Mining Equipment	Tampers/Rammers	2 Stroke	NOx	0.012821	0.012329	0.006687	0.006707
2260002009	Construction and Mining Equipment	Plate Compactors	2 Stroke	NOx	0.000188	0.000318	0.000437	0.000448
2260002021	Construction and Mining Equipment	Paving Equipment	2 Stroke	NOx	0.000227	0.000388	0.000524	0.000536
2260002027	Construction and Mining Equipment	Signal Boards/Light Plants	2 Stroke	NOx	0.000002	0.000003	0.000004	0.000004
2260002039	Construction and Mining Equipment	Concrete/Industrial Saws	2 Stroke	NOx	0.030715	0.027813	0.017206	0.017630
2260002054	Construction and Mining Equipment	Crushing/Proc. Equipment	2 Stroke	NOx	0.000051	0.000083	0.000103	0.000106
2260003030	Industrial Equipment	Sweepers/Scrubbers	2 Stroke	NOx	0.000415	0.000600	0.000506	0.000179
2260003040	Industrial Equipment	Other General Industrial Eqp	2 Stroke	NOx	0.000033	0.000048	0.000040	0.000014
2260004015	Lawn and Garden Equipment (Res)	Rotary Tillers < 6 HP	2 Stroke	NOx	0.001251	0.001638	0.003111	0.003924
2260004016	Lawn and Garden Equipment (Com)	Rotary Tillers < 6 HP	2 Stroke	NOx	0.001047	0.001483	0.002820	0.003378
2260004020	Lawn and Garden Equipment (Res)	Chain Saws < 6 HP	2 Stroke	NOx	0.016323	0.023440	0.044976	0.053776
2260004021	Lawn and Garden Equipment (Com)	Chain Saws < 6 HP	2 Stroke	NOx	0.047736	0.046885	0.032090	0.037388
2260004025	Lawn and Garden Equipment (Res)	Trimmers/Edgers/Brush Cutter	2 Stroke	NOx	0.025048	0.034442	0.063140	0.075390
2260004026	Lawn and Garden Equipment (Com)	Trimmers/Edgers/Brush Cutter	2 Stroke	NOx	0.014268	0.020337	0.028230	0.032821
2260004030	Lawn and Garden Equipment (Res)	Leafblowers/Vacuums	2 Stroke	NOx	0.014907	0.021234	0.040344	0.048192
2260004031	Lawn and Garden Equipment (Com)	Leafblowers/Vacuums	2 Stroke	NOx	0.022717	0.026742	0.026326	0.030428
2260004035	Lawn and Garden Equipment (Res)	Snowblowers	2 Stroke	NOx	0.004053	0.004224	0.004649	0.005416
2260004036	Lawn and Garden Equipment (Com)	Snowblowers	2 Stroke	NOx	0.001632	0.001701	0.001872	0.002181
2260004071	Lawn and Garden Equipment (Com)	Commercial Turf Equipment	2 Stroke	NOx	0.000004	0.000007	0.000012	0.000014
2260005035	Agricultural Equipment	Sprayers	2 Stroke	NOx	0.000657	0.000999	0.001615	0.001832
2260006005	Commercial Equipment	Generator Sets	2 Stroke	NOx	0.001372	0.002416	0.003877	0.004807
2260006010	Commercial Equipment	Pumps	2 Stroke	NOx	0.010906	0.018484	0.026390	0.032669
2260006015	Commercial Equipment	Air Compressors	2 Stroke	NOx	0.000004	0.000007	0.000010	0.000013
2260006035	Commercial Equipment	Hydro Power Units	2 Stroke	NOx	0.000066	0.000115	0.000159	0.000197
2260007005	Logging Equipment	Chain Saws > 6 HP	2 Stroke	NOx	0.031525	0.030513	0.019926	0.025235
2265001010	Recreational Equipment	Motorcycles: Off-Road	4 Stroke	NOx	0.239619	0.278779	0.354529	0.392118
2265001030	Recreational Equipment	ATVs	4 Stroke	NOx	2.163208	2.623465	3.224912	3.112705
2265001050	Recreational Equipment	Golf Carts	4 Stroke	NOx	1.295472	1.152835	1.098320	1.170952
2265001060	Recreational Equipment	Specialty Vehicles/Carts	4 Stroke	NOx	0.222483	0.228902	0.229813	0.220799
2265002003	Construction and Mining Equipment	Pavers	4 Stroke	NOx	0.027683	0.024706	0.017877	0.013592
2265002006	Construction and Mining Equipment	Tampers/Rammers	4 Stroke	NOx	0.000154	0.000139	0.000111	0.000112
2265002009	Construction and Mining Equipment	Plate Compactors	4 Stroke	NOx	0.032883	0.031462	0.022051	0.020509
2265002015	Construction and Mining Equipment	Rollers	4 Stroke	NOx	0.047430	0.041704	0.028689	0.023769
2265002021	Construction and Mining Equipment	Paving Equipment	4 Stroke	NOx	0.069057	0.064474	0.049716	0.047297
2265002024	Construction and Mining Equipment	Surfacing Equipment	4 Stroke	NOx	0.028699	0.025569	0.020370	0.020125
2265002027	Construction and Mining Equipment	Signal Boards/Light Plants	4 Stroke	NOx	0.001347	0.001232	0.000923	0.000945
2265002030	Construction and Mining Equipment	Trenchers	4 Stroke	NOx	0.083555	0.075829	0.053301	0.039369
2265002033	Construction and Mining Equipment	Bore/Drill Rigs	4 Stroke	NOx	0.026254	0.025861	0.019321	0.014379
2265002039	Construction and Mining Equipment	Concrete/Industrial Saws	4 Stroke	NOx	0.142106	0.124116	0.095725	0.092369
2265002042	Construction and Mining Equipment	Cement & Mortar Mixers	4 Stroke	NOx	0.053645	0.055234	0.046645	0.040713
2265002045	Construction and Mining Equipment	Cranes	4 Stroke	NOx	0.013755	0.013096	0.009729	0.004026
2265002054	Construction and Mining Equipment	Crushing/Proc. Equipment	4 Stroke	NOx	0.009288	0.008339	0.006692	0.005833
2265002057	Construction and Mining Equipment	Rough Terrain Forklifts	4 Stroke	NOx	0.023707	0.022268	0.014194	0.003734
2265002060	Construction and Mining Equipment	Rubber Tire Loaders	4 Stroke	NOx	0.058658	0.053970	0.028146	0.006021
2265002066	Construction and Mining Equipment	Tractors/Loaders/Backhoes	4 Stroke	NOx	0.044564	0.038767	0.032165	0.031016
2265002072	Construction and Mining Equipment	Skid Steer Loaders	4 Stroke	NOx	0.062545	0.058525	0.041892	0.022436
2265002078	Construction and Mining Equipment	Dumpers/Tenders	4 Stroke	NOx	0.008786	0.008966	0.007832	0.007007
2265002081	Construction and Mining Equipment	Other Construction Equipment	4 Stroke	NOx	0.020469	0.019671	0.014943	0.006553
2265003010	Industrial Equipment	Aerial Lifts	4 Stroke	NOx	0.741161	0.642044	0.392712	0.118257
2265003020	Industrial Equipment	Forklifts	4 Stroke	NOx	3.128867	2.633814	1.146942	0.086658
2265003030	Industrial Equipment	Sweepers/Scrubbers	4 Stroke	NOx	0.557166	0.446961	0.156949	0.026456
2265003040	Industrial Equipment	Other General Industrial Eqp	4 Stroke	NOx	0.492110	0.409634	0.187827	0.054304
2265003050	Industrial Equipment	Other Material Handling Eqp	4 Stroke	NOx	0.049134	0.042057	0.025355	0.006054
2265003060	Industrial Equipment	AC/Refrigeration	4 Stroke	NOx	0.005460	0.004129	0.002466	0.000873
2265003070	Industrial Equipment	Terminal Tractors	4 Stroke	NOx	0.323140	0.253798	0.051281	0.006458
2265004010	Lawn and Garden Equipment (Res)	Lawn mowers	4 Stroke	NOx	1.310152	1.409254	1.274259	0.946559
2265004011	Lawn and Garden Equipment (Com)	Lawn mowers	4 Stroke	NOx	0.191786	0.199858	0.130612	0.132439
2265004015	Lawn and Garden Equipment (Res)	Rotary Tillers < 6 HP	4 Stroke	NOx	0.111182	0.119408	0.107454	0.079319
2265004016	Lawn and Garden Equipment (Com)	Rotary Tillers < 6 HP	4 Stroke	NOx	0.096674	0.102489	0.086523	0.068177
2265004025	Lawn and Garden Equipment (Res)	Trimmers/Edgers/Brush Cutter	4 Stroke	NOx	0.007528	0.007950	0.006654	0.005235
2265004026	Lawn and Garden Equipment (Com)	Trimmers/Edgers/Brush Cutter	4 Stroke	NOx	0.004972	0.004781	0.003817	0.004082
2265004030	Lawn and Garden Equipment (Res)	Leafblowers/Vacuums	4 Stroke	NOx	0.014447	0.015252	0.012726	0.009987
2265004031	Lawn and Garden Equipment (Com)	Leafblowers/Vacuums	4 Stroke	NOx	0.328223	0.301558	0.245995	0.204832
2265004035	Lawn and Garden Equipment (Res)	Snowblowers	4 Stroke	NOx	0.132143	0.137716	0.151558	0.176581
2265004036	Lawn and Garden Equipment (Com)	Snowblowers	4 Stroke	NOx	0.053201	0.055445	0.061018	0.071092
2265004040	Lawn and Garden Equipment (Res)	Rear Engine Riding Mowers	4 Stroke	NOx	0.341746	0.332639	0.295077	0.330221
2265004041	Lawn and Garden Equipment (Com)	Rear Engine Riding Mowers	4 Stroke	NOx	0.026603	0.023711	0.022238	0.025881
2265004046	Lawn and Garden Equipment (Com)	Front Mowers	4 Stroke	NOx	0.028069	0.029367	0.028180	0.029632
2265004051	Lawn and Garden Equipment (Com)	Shredders < 6 HP	4 Stroke	NOx	0.010996	0.011748	0.010254	0.007855
2265004055	Lawn and Garden Equipment (Res)	Lawn & Garden Tractors	4 Stroke	NOx	4.695292	4.558784	3.972729	4.429144
2265004056	Lawn and Garden Equipment (Com)	Lawn & Garden Tractors	4 Stroke	NOx	0.371588	0.327135	0.302473	0.351990
2265004066	Lawn and Garden Equipment (Com)	Chippers/Stump Grinders	4 Stroke	NOx	0.118751	0.109800	0.068968	0.044829
2265004071	Lawn and Garden Equipment (Com)	Commercial Turf Equipment	4 Stroke	NOx	1.301368	1.184063	0.902324	0.993558
2265004075	Lawn and Garden Equipment (Res)	Other Lawn & Garden Eqp.	4 Stroke	NOx	0.128750	0.138419	0.135825	0.121023
2265004076	Lawn and Garden Equipment (Com)	Other Lawn & Garden Eqp.	4 Stroke	NOx	0.028879	0.031015	0.030387	0.026996
2265005010	Agricultural Equipment	2-Wheel Tractors	4 Stroke	NOx	0.011744	0.010210	0.009498	0.010754

Appendix D-2: Columbia County Annual Nonroad Emissions by SCC
Tons per Year

SCC	Classification	Equipment Type	Engine Type	Pollutant Code	2002 Emissions	2004 Emissions	2009 Emissions	2018 Emissions
2265005015	Agricultural Equipment	Agricultural Tractors	4 Stroke	NOx	0.130753	0.122636	0.071409	0.024317
2265005020	Agricultural Equipment	Combines	4 Stroke	NOx	0.000983	0.000980	0.000853	0.000580
2265005025	Agricultural Equipment	Balers	4 Stroke	NOx	0.092943	0.092642	0.080678	0.054923
2265005030	Agricultural Equipment	Agricultural Mowers	4 Stroke	NOx	0.009597	0.009363	0.008264	0.008858
2265005035	Agricultural Equipment	Sprayers	4 Stroke	NOx	0.151203	0.154003	0.137547	0.110994
2265005040	Agricultural Equipment	Tillers > 6 HP	4 Stroke	NOx	0.144941	0.153581	0.170914	0.201026
2265005045	Agricultural Equipment	Swathers	4 Stroke	NOx	0.147214	0.146737	0.127786	0.086993
2265005055	Agricultural Equipment	Other Agricultural Equipment	4 Stroke	NOx	0.175986	0.175445	0.153428	0.110063
2265005060	Agricultural Equipment	Irrigation Sets	4 Stroke	NOx	0.256122	0.237140	0.107412	0.030745
2265006005	Commercial Equipment	Generator Sets	4 Stroke	NOx	2.097560	2.128016	1.988357	2.300447
2265006010	Commercial Equipment	Pumps	4 Stroke	NOx	0.634800	0.621067	0.495249	0.500308
2265006015	Commercial Equipment	Air Compressors	4 Stroke	NOx	0.437443	0.423320	0.320476	0.251152
2265006025	Commercial Equipment	Welders	4 Stroke	NOx	0.789841	0.744771	0.660823	0.642265
2265006030	Commercial Equipment	Pressure Washers	4 Stroke	NOx	0.925331	0.911411	0.767609	0.899426
2265006035	Commercial Equipment	Hydro Power Units	4 Stroke	NOx	0.046122	0.043063	0.039282	0.047077
2265007010	Logging Equipment	Shredders > 6 HP	4 Stroke	NOx	0.106725	0.116863	0.125187	0.140523
2265007015	Logging Equipment	Forest Eq - Feller/Bunch/Skidder	4 Stroke	NOx	0.001200	0.001218	0.000940	0.001190
2265008005	Airport Equipment	Airport Ground Support Equipment	4 Stroke	NOx	0.000279	0.000259	0.000139	0.000051
2265010010	Industrial Equipment	Other Oil Field Equipment	4 Stroke	NOx	0.000000	0.000000	0.000000	0.000000
2267001060	Recreational Equipment	Specialty Vehicle Carts	LPG	NOx	0.074699	0.073426	0.062189	0.040378
2267002003	Construction and Mining Equipment	Pavers	LPG	NOx	0.015048	0.014344	0.008355	0.002312
2267002015	Construction and Mining Equipment	Rollers	LPG	NOx	0.025350	0.023252	0.009932	0.002707
2267002021	Construction and Mining Equipment	Paving Equipment	LPG	NOx	0.003968	0.003913	0.003029	0.001247
2267002024	Construction and Mining Equipment	Surfacing Equipment	LPG	NOx	0.002590	0.002451	0.001328	0.000379
2267002030	Construction and Mining Equipment	Trenchers	LPG	NOx	0.046059	0.044090	0.026696	0.007181
2267002033	Construction and Mining Equipment	Bore/Drill Rigs	LPG	NOx	0.015158	0.015190	0.013207	0.008767
2267002039	Construction and Mining Equipment	Concrete/Industrial Saws	LPG	NOx	0.043903	0.038708	0.011749	0.004488
2267002045	Construction and Mining Equipment	Cranes	LPG	NOx	0.016216	0.015986	0.012343	0.004952
2267002054	Construction and Mining Equipment	Crushing/Proc. Equipment	LPG	NOx	0.002699	0.002655	0.002014	0.000730
2267002057	Construction and Mining Equipment	Rough Terrain Forklifts	LPG	NOx	0.029284	0.028348	0.018893	0.005068
2267002060	Construction and Mining Equipment	Rubber Tire Loaders	LPG	NOx	0.072862	0.069078	0.037725	0.008331
2267002066	Construction and Mining Equipment	Tractors/Loaders/Backhoes	LPG	NOx	0.007741	0.007201	0.003314	0.000809
2267002072	Construction and Mining Equipment	Skid Steer Loaders	LPG	NOx	0.060203	0.058856	0.042660	0.017290
2267002081	Construction and Mining Equipment	Other Construction Equipment	LPG	NOx	0.024208	0.023959	0.019061	0.008809
2267003010	Industrial Equipment	Aerial Lifts	LPG	NOx	1.018529	1.018592	0.804868	0.391617
2267003020	Industrial Equipment	Forklifts	LPG	NOx	96.000887	92.448559	52.042921	12.139266
2267003030	Industrial Equipment	Sweepers/Scrubbers	LPG	NOx	0.732567	0.676173	0.271652	0.086570
2267003040	Industrial Equipment	Other General Industrial Equipm	LPG	NOx	0.224041	0.211495	0.102190	0.026633
2267003050	Industrial Equipment	Other Material Handling Equipment	LPG	NOx	0.055012	0.054905	0.042640	0.015960
2267003070	Industrial Equipment	Terminal Tractors	LPG	NOx	0.447358	0.402587	0.112865	0.050220
2267004066	Lawn and Garden Equipment (Com)	Chippers/Stump Grinders	LPG	NOx	0.097763	0.091663	0.045479	0.010738
2267005055	Agricultural Equipment	Other Agricultural Equipment	LPG	NOx	0.002567	0.002495	0.002082	0.001312
2267005060	Agricultural Equipment	Irrigation Sets	LPG	NOx	0.002161	0.001951	0.000836	0.000169
2267006005	Commercial Equipment	Generator Sets	LPG	NOx	1.042571	1.096467	1.005886	0.725824
2267006010	Commercial Equipment	Pumps	LPG	NOx	0.242793	0.249409	0.194001	0.097154
2267006015	Commercial Equipment	Air Compressors	LPG	NOx	0.292707	0.295904	0.202417	0.062190
2267006025	Commercial Equipment	Welders	LPG	NOx	0.364936	0.373803	0.268457	0.080044
2267006030	Commercial Equipment	Pressure Washers	LPG	NOx	0.004795	0.005017	0.004279	0.002138
2267006035	Commercial Equipment	Hydro Power Units	LPG	NOx	0.004545	0.004500	0.002542	0.000902
2267008005	Airport Equipment	Airport Ground Support Equipment	LPG	NOx	0.000353	0.000345	0.000187	0.000050
2268002081	Construction and Mining Equipment	Other Construction Equipment	CNG	NOx	0.000955	0.000945	0.000753	0.000351
2268003020	Industrial Equipment	Forklifts	CNG	NOx	6.989619	6.669743	3.728265	0.870718
2268003030	Industrial Equipment	Sweepers/Scrubbers	CNG	NOx	0.008353	0.007961	0.004397	0.001023
2268003040	Industrial Equipment	Other General Industrial Equipment	CNG	NOx	0.005461	0.005176	0.002687	0.000646
2268003060	Industrial Equipment	AC/Refrigeration	CNG	NOx	0.008161	0.007619	0.003415	0.001072
2268003070	Industrial Equipment	Terminal Tractors	CNG	NOx	0.031491	0.028121	0.007835	0.003493
2268005055	Agricultural Equipment	Other Agricultural Equipment	CNG	NOx	0.003106	0.002538	0.001419	0.000398
2268005060	Agricultural Equipment	Irrigation Sets	CNG	NOx	0.242421	0.139637	0.015707	0.000000
2268006005	Commercial Equipment	Generator Sets	CNG	NOx	0.341721	0.348175	0.310804	0.220763
2268006010	Commercial Equipment	Pumps	CNG	NOx	0.017135	0.017177	0.013765	0.007430
2268006015	Commercial Equipment	Air Compressors	CNG	NOx	0.024510	0.024015	0.016147	0.004507
2268006020	Commercial Equipment	Gas Compressors	CNG	NOx	0.905135	0.317677	0.093117	0.116363
2268006035	Commercial Equipment	Hydro Power Units	CNG	NOx	0.000000	0.000000	0.000000	0.000000
2268010010	Industrial Equipment	Other Oil Field Equipment	CNG	NOx	0.000000	0.000000	0.000000	0.000000
2270001060	Recreational Equipment	Specialty Vehicle Carts	Diesel	NOx	0.772453	0.782130	0.774660	0.632448
2270002003	Construction and Mining Equipment	Pavers	Diesel	NOx	1.214482	1.158877	0.989240	0.453018
2270002006	Construction and Mining Equipment	Tampers/Rammers	Diesel	NOx	0.002669	0.002603	0.002239	0.001915
2270002009	Construction and Mining Equipment	Plate Compactors	Diesel	NOx	0.041636	0.040482	0.030558	0.031376
2270002015	Construction and Mining Equipment	Rollers	Diesel	NOx	3.013335	2.909736	2.554770	1.289140
2270002018	Construction and Mining Equipment	Scrapers	Diesel	NOx	3.488756	3.352884	2.788734	1.221373
2270002021	Construction and Mining Equipment	Paving Equipment	Diesel	NOx	0.192054	0.185640	0.160951	0.091461
2270002024	Construction and Mining Equipment	Surfacing Equipment	Diesel	NOx	0.129409	0.127173	0.116379	0.079461
2270002027	Construction and Mining Equipment	Signal Boards/Light Plants	Diesel	NOx	0.363895	0.355314	0.323080	0.302628
2270002030	Construction and Mining Equipment	Trenchers	Diesel	NOx	1.401762	1.385676	1.289137	0.899196
2270002033	Construction and Mining Equipment	Bore/Drill Rigs	Diesel	NOx	1.664206	1.649488	1.523784	1.071776
2270002036	Construction and Mining Equipment	Excavators	Diesel	NOx	12.044714	11.345995	9.312762	3.192434
2270002039	Construction and Mining Equipment	Concrete/Industrial Saws	Diesel	NOx	0.094251	0.092990	0.088517	0.064815
2270002042	Construction and Mining Equipment	Cement & Mortar Mixers	Diesel	NOx	0.062526	0.062352	0.058908	0.045307
2270002045	Construction and Mining Equipment	Cranes	Diesel	NOx	3.280135	3.150473	2.642282	1.224938
2270002048	Construction and Mining Equipment	Graders	Diesel	NOx	3.060400	2.863218	2.344233	0.795361

Appendix D-2: Columbia County Annual Nonroad Emissions by SCC
Tons per Year

SCC	Classification	Equipment Type	Engine Type	Pollutant Code	2002 Emissions	2004 Emissions	2009 Emissions	2018 Emissions
2270002051	Construction and Mining Equipment	Off-highway Trucks	Diesel	NOx	11.360425	10.992361	9.199190	4.549481
2270002054	Construction and Mining Equipment	Crushing/Proc. Equipment	Diesel	NOx	0.575902	0.558903	0.484245	0.270219
2270002057	Construction and Mining Equipment	Rough Terrain Forklifts	Diesel	NOx	3.850021	3.801415	3.436558	1.786195
2270002060	Construction and Mining Equipment	Rubber Tire Loaders	Diesel	NOx	14.748942	14.243912	12.284275	6.206739
2270002066	Construction and Mining Equipment	Tractors/Loaders/Backhoes	Diesel	NOx	8.960657	8.867377	8.302271	5.493442
2270002069	Construction and Mining Equipment	Crawler Tractor/Dozers	Diesel	NOx	12.959698	12.397089	10.455340	4.592747
2270002072	Construction and Mining Equipment	Skid Steer Loaders	Diesel	NOx	5.745307	5.795870	5.671968	4.630447
2270002075	Construction and Mining Equipment	Off-Highway Tractors	Diesel	NOx	1.564225	1.530712	1.347169	0.793002
2270002078	Construction and Mining Equipment	Dumpers/Tenders	Diesel	NOx	0.018492	0.018637	0.018315	0.015092
2270002081	Construction and Mining Equipment	Other Construction Equipment	Diesel	NOx	1.518987	1.478680	1.298559	0.760281
2270003010	Industrial Equipment	Aerial Lifts	Diesel	NOx	1.059016	1.061879	1.024821	0.859381
2270003020	Industrial Equipment	Forklifts	Diesel	NOx	11.175876	11.074076	9.484138	3.546142
2270003030	Industrial Equipment	Sweepers/Scrubbers	Diesel	NOx	5.925033	5.667965	4.921491	2.065435
2270003040	Industrial Equipment	Other General Industrial Eqp	Diesel	NOx	6.748081	6.531952	5.588059	2.777256
2270003050	Industrial Equipment	Other Material Handling Eqp	Diesel	NOx	0.312113	0.307907	0.283013	0.199708
2270003060	Industrial Equipment	AC/Refrigeration	Diesel	NOx	9.204353	9.126969	8.698435	7.154692
2270003070	Industrial Equipment	Terminal Tractors	Diesel	NOx	7.646178	7.338836	5.934020	1.647627
2270004031	Lawn and Garden Equipment (Com)	Leafblowers/Vacuums	Diesel	NOx	0.000072	0.000076	0.000083	0.000087
2270004036	Lawn and Garden Equipment (Com)	Snowblowers	Diesel	NOx	0.019459	0.020302	0.020685	0.015786
2270004046	Lawn and Garden Equipment (Com)	Front Mowers	Diesel	NOx	0.445320	0.460427	0.478172	0.486634
2270004056	Lawn and Garden Equipment (Com)	Lawn & Garden Tractors	Diesel	NOx	0.098276	0.098775	0.095649	0.105265
2270004066	Lawn and Garden Equipment (Com)	Chippers/Stump Grinders	Diesel	NOx	0.665396	0.698049	0.726736	0.569780
2270004071	Lawn and Garden Equipment (Com)	Commercial Turf Equipment	Diesel	NOx	0.067105	0.067338	0.067614	0.045876
2270004076	Lawn and Garden Equipment (Com)	Other Lawn & Garden Eqp.	Diesel	NOx	0.001746	0.001831	0.001940	0.001885
2270005010	Agricultural Equipment	2-Wheel Tractors	Diesel	NOx	0.002327	0.002163	0.001679	0.001712
2270005015	Agricultural Equipment	Agricultural Tractors	Diesel	NOx	100.708778	97.624469	87.603052	55.680831
2270005020	Agricultural Equipment	Combines	Diesel	NOx	10.210868	10.031219	9.154163	6.229101
2270005025	Agricultural Equipment	Balers	Diesel	NOx	0.043767	0.044330	0.043864	0.035966
2270005030	Agricultural Equipment	Agricultural Mowers	Diesel	NOx	0.009332	0.009226	0.008595	0.005986
2270005035	Agricultural Equipment	Sprayers	Diesel	NOx	0.723651	0.726973	0.700332	0.506818
2270005040	Agricultural Equipment	Tillers > 6 HP	Diesel	NOx	0.001190	0.001194	0.001138	0.000814
2270005045	Agricultural Equipment	Swathers	Diesel	NOx	0.714960	0.708717	0.666090	0.486824
2270005055	Agricultural Equipment	Other Agricultural Equipment	Diesel	NOx	2.103750	2.056422	1.847246	1.206112
2270005060	Agricultural Equipment	Irrigation Sets	Diesel	NOx	1.319466	1.305340	1.179278	0.658112
2270006005	Commercial Equipment	Generator Sets	Diesel	NOx	4.539211	4.661075	4.726841	3.958428
2270006010	Commercial Equipment	Pumps	Diesel	NOx	1.080633	1.109518	1.119916	0.922564
2270006015	Commercial Equipment	Air Compressors	Diesel	NOx	2.727643	2.770551	2.655046	1.687248
2270006020	Commercial Equipment	Gas Compressors	Diesel	NOx	0.000000	0.000000	0.000000	0.000000
2270006025	Commercial Equipment	Welders	Diesel	NOx	1.320695	1.363222	1.410137	1.266391
2270006030	Commercial Equipment	Pressure Washers	Diesel	NOx	0.151636	0.155454	0.157114	0.132492
2270006035	Commercial Equipment	Hydro Power Units	Diesel	NOx	0.117984	0.119316	0.114795	0.078287
2270007010	Logging Equipment	Shredders > 6 HP	Diesel	NOx	0.000000	0.000000	0.000000	0.000000
2270007015	Logging Equipment	Forest Eqp - Feller/Bunch/Skidder	Diesel	NOx	6.260963	5.535002	3.705050	0.776043
2270008005	Airport Equipment	Airport Ground Support Equipment	Diesel	NOx	0.013629	0.013475	0.012360	0.006550
2270009010	Construction and Mining Equipment	Other Underground Mining Equipment	Diesel	NOx	0.000000	0.000000	0.000000	0.000000
2270010010	Industrial Equipment	Other Oil Field Equipment	Diesel	NOx	0.000000	0.000000	0.000000	0.000000
2275000000	Aircraft	All Aircraft Types and Operations	Other	NOx				
2275070000	Aircraft	Auxiliary Power Units	Other	NOx				
2280000000	Marine Vessels	Commercial	All Fuels	NOx	0.000000	0.000000	0.000000	0.000000
2280001000	Marine Vessels	Commercial	Coal	NOx	0.000000	0.000000	0.000000	0.000000
2280002000	Marine Vessels	Commercial	Diesel	NOx	0.000000	0.000000	0.000000	0.000000
2280003000	Marine Vessels	Commercial	Residual Fuel	NOx	0.000000	0.000000	0.000000	0.000000
2280004000	Marine Vessels	Commercial	Gasoline	NOx	0.000000	0.000000	0.000000	0.000000
2282005010	Pleasure Craft	Outboard	2 Stroke	NOx	2.123260	2.561729	3.758546	5.356126
2282005015	Pleasure Craft	Personal Water Craft	2 Stroke	NOx	0.594433	0.785576	1.227497	1.585062
2282010005	Pleasure Craft	Inboard/Sterndrive	4 Stroke	NOx	5.685990	5.992420	6.847294	8.328951
2282020005	Pleasure Craft	Inboard/Sterndrive	Diesel	NOx	6.248307	6.599743	7.039018	7.426799
2282020010	Pleasure Craft	Outboards	Diesel	NOx	0.0233528	0.024054	0.025052	0.026532
2285002005	Railroad Equipment	Line Haul Locomotives	Diesel	NOx				
2285002010	Railroad Equipment	Yard Locomotive	Diesel	NOx				
2285002015	Railroad Equipment	Railway Maintenance	Diesel	NOx	0.054041	0.054296	0.052078	0.037435
2285004015	Railroad Equipment	Railway Maintenance	4 Stroke	NOx	0.001023	0.000925	0.000758	0.000757
2285006015	Railroad Equipment	Railway Maintenance	LPG	NOx	0.000133	0.000131	0.000096	0.000030

**Columbia
County
Total
Annual NOx
Emissions**

418.007619 406.235226 330.097118 192.117668

Appendix D-2: Columbia County Annual Nonroad Emissions by SCC
Tons per Year

SCC	Classification	Equipment Type	Engine Type	Pollutant Code	2002	2004	2009	2018
					Emissions	Emissions	Emissions	Emissions
2260001010	Recreational Equipment	Motorcycles: Off-Road	2 Stroke	VOC	60.056310	69.736725	79.907416	64.815962
2260001020	Recreational Equipment	Snowmobiles	2 Stroke	VOC	0.000000	0.000000	0.000000	0.000000
2260001030	Recreational Equipment	ATVs	2 Stroke	VOC	59.960610	82.790813	99.290668	40.012356
2260001060	Recreational Equipment	Specialty Vehicles/Carts	2 Stroke	VOC	1.208839	1.126232	0.960304	0.982085
2260002006	Construction and Mining Equipment	Tampers/Rammers	2 Stroke	VOC	1.072010	1.026323	0.462260	0.458586
2260002009	Construction and Mining Equipment	Plate Compactors	2 Stroke	VOC	0.064931	0.039300	0.016231	0.016630
2260002021	Construction and Mining Equipment	Paving Equipment	2 Stroke	VOC	0.077372	0.045527	0.019323	0.019799
2260002027	Construction and Mining Equipment	Signal Boards/Light Plants	2 Stroke	VOC	0.000555	0.000303	0.000166	0.000170
2260002039	Construction and Mining Equipment	Concrete/Industrial Saws	2 Stroke	VOC	2.863094	2.356213	1.142368	1.170476
2260002054	Construction and Mining Equipment	Crushing/Proc. Equipment	2 Stroke	VOC	0.014365	0.007670	0.003908	0.004004
2260003030	Industrial Equipment	Sweepers/Scrubbers	2 Stroke	VOC	0.110403	0.051330	0.019514	0.006917
2260003040	Industrial Equipment	Other General Industrial Eqp	2 Stroke	VOC	0.008762	0.004059	0.001533	0.000543
2260004015	Lawn and Garden Equipment (Res)	Rotary Tillers < 6 HP	2 Stroke	VOC	0.489106	0.424283	0.190072	0.157355
2260004016	Lawn and Garden Equipment (Com)	Rotary Tillers < 6 HP	2 Stroke	VOC	0.388813	0.320534	0.108023	0.106121
2260004020	Lawn and Garden Equipment (Res)	Chain Saws < 6 HP	2 Stroke	VOC	6.315264	5.235383	1.899839	1.927354
2260004021	Lawn and Garden Equipment (Com)	Chain Saws < 6 HP	2 Stroke	VOC	4.682523	4.020905	2.023194	2.357240
2260004025	Lawn and Garden Equipment (Res)	Trimmers/Edgers/Brush Cutter	2 Stroke	VOC	9.308485	7.790712	3.014755	3.098256
2260004026	Lawn and Garden Equipment (Com)	Trimmers/Edgers/Brush Cutter	2 Stroke	VOC	3.688641	2.688017	1.029645	1.192632
2260004030	Lawn and Garden Equipment (Res)	Leafblowers/Vacuums	2 Stroke	VOC	6.131281	5.172796	2.194980	2.304205
2260004031	Lawn and Garden Equipment (Com)	Leafblowers/Vacuums	2 Stroke	VOC	3.538393	2.858288	1.201878	1.375071
2260004035	Lawn and Garden Equipment (Res)	Snowblowers	2 Stroke	VOC	3.891564	4.056102	4.464452	5.202562
2260004036	Lawn and Garden Equipment (Com)	Snowblowers	2 Stroke	VOC	1.385072	1.443651	1.589025	1.851786
2260004071	Lawn and Garden Equipment (Com)	Commercial Turf Equipment	2 Stroke	VOC	0.001591	0.001111	0.000400	0.000466
2260005035	Agricultural Equipment	Sprayers	2 Stroke	VOC	0.230261	0.167319	0.057840	0.064587
2260006005	Commercial Equipment	Generator Sets	2 Stroke	VOC	0.474510	0.312755	0.136532	0.169350
2260006010	Commercial Equipment	Pumps	2 Stroke	VOC	3.252868	1.883746	0.932228	1.197896
2260006015	Commercial Equipment	Air Compressors	2 Stroke	VOC	0.001153	0.000635	0.000379	0.000470
2260006035	Commercial Equipment	Hydro Power Units	2 Stroke	VOC	0.017987	0.009965	0.005879	0.007289
2260007005	Logging Equipment	Chain Saws > 6 HP	2 Stroke	VOC	2.731566	2.585380	1.381335	1.749411
2265001010	Recreational Equipment	Motorcycles: Off-Road	4 Stroke	VOC	2.239945	2.515445	3.032630	3.090626
2265001030	Recreational Equipment	ATVs	4 Stroke	VOC	23.396317	27.437289	33.939833	33.884790
2265001050	Recreational Equipment	Golf Carts	4 Stroke	VOC	4.458967	3.969592	3.782961	4.033128
2265001060	Recreational Equipment	Specialty Vehicles/Carts	4 Stroke	VOC	1.322623	1.274591	1.138431	0.930400
2265002003	Construction and Mining Equipment	Pavers	4 Stroke	VOC	0.059236	0.052079	0.039074	0.036260
2265002006	Construction and Mining Equipment	Tampers/Rammers	4 Stroke	VOC	0.000501	0.000436	0.000344	0.000346
2265002009	Construction and Mining Equipment	Plate Compactors	4 Stroke	VOC	0.232416	0.227152	0.139154	0.115210
2265002015	Construction and Mining Equipment	Rollers	4 Stroke	VOC	0.095901	0.082786	0.066855	0.064085
2265002021	Construction and Mining Equipment	Paving Equipment	4 Stroke	VOC	0.323750	0.298628	0.199800	0.186939
2265002024	Construction and Mining Equipment	Surfacing Equipment	4 Stroke	VOC	0.119695	0.110382	0.072625	0.073793
2265002027	Construction and Mining Equipment	Signal Boards/Light Plants	4 Stroke	VOC	0.008374	0.008032	0.004592	0.004704
2265002030	Construction and Mining Equipment	Trenchers	4 Stroke	VOC	0.236834	0.219189	0.136736	0.127964
2265002033	Construction and Mining Equipment	Bore/Drill Rigs	4 Stroke	VOC	0.138577	0.137629	0.087343	0.067354
2265002039	Construction and Mining Equipment	Concrete/Industrial Saws	4 Stroke	VOC	0.345866	0.298176	0.257146	0.259130
2265002042	Construction and Mining Equipment	Cement & Mortar Mixers	4 Stroke	VOC	0.346337	0.317208	0.249081	0.192191
2265002045	Construction and Mining Equipment	Cranes	4 Stroke	VOC	0.011969	0.011235	0.008557	0.004063
2265002054	Construction and Mining Equipment	Crushing/Proc. Equipment	4 Stroke	VOC	0.031292	0.028568	0.019242	0.018907
2265002057	Construction and Mining Equipment	Rough Terrain Forklifts	4 Stroke	VOC	0.017818	0.016734	0.010693	0.002380
2265002060	Construction and Mining Equipment	Rubber Tire Loaders	4 Stroke	VOC	0.043043	0.039645	0.020265	0.002750
2265002066	Construction and Mining Equipment	Tractors/Loaders/Backhoes	4 Stroke	VOC	0.116149	0.099198	0.085423	0.086010
2265002072	Construction and Mining Equipment	Skid Steer Loaders	4 Stroke	VOC	0.080542	0.072762	0.054179	0.038822
2265002078	Construction and Mining Equipment	Dumpers/Tenders	4 Stroke	VOC	0.048420	0.044116	0.035101	0.029391
2265002081	Construction and Mining Equipment	Other Construction Equipment	4 Stroke	VOC	0.015425	0.014836	0.011354	0.004772
2265003010	Industrial Equipment	Aerial Lifts	4 Stroke	VOC	0.812484	0.679978	0.406695	0.127884
2265003020	Industrial Equipment	Forklifts	4 Stroke	VOC	2.297808	1.938338	0.837727	0.045042
2265003030	Industrial Equipment	Sweepers/Scrubbers	4 Stroke	VOC	0.712715	0.573094	0.252884	0.057144
2265003040	Industrial Equipment	Other General Industrial Eqp	4 Stroke	VOC	2.543521	2.201813	0.777052	0.265773
2265003050	Industrial Equipment	Other Material Handling Eqp	4 Stroke	VOC	0.057875	0.047617	0.028243	0.007691
2265003060	Industrial Equipment	AC/Refrigeration	4 Stroke	VOC	0.017653	0.013434	0.008055	0.002870
2265003070	Industrial Equipment	Terminal Tractors	4 Stroke	VOC	0.236790	0.186004	0.031838	0.002738
2265004010	Lawn and Garden Equipment (Res)	Lawn mowers	4 Stroke	VOC	18.076333	17.939194	16.727479	12.420124
2265004011	Lawn and Garden Equipment (Com)	Lawn mowers	4 Stroke	VOC	1.996282	2.080524	1.188905	1.110103
2265004015	Lawn and Garden Equipment (Res)	Rotary Tillers < 6 HP	4 Stroke	VOC	1.507443	1.507537	1.391941	0.984887
2265004016	Lawn and Garden Equipment (Com)	Rotary Tillers < 6 HP	4 Stroke	VOC	0.956143	0.947791	0.802633	0.504159
2265004025	Lawn and Garden Equipment (Res)	Trimmers/Edgers/Brush Cutter	4 Stroke	VOC	0.094425	0.096651	0.085708	0.064629
2265004026	Lawn and Garden Equipment (Com)	Trimmers/Edgers/Brush Cutter	4 Stroke	VOC	0.032979	0.033108	0.021429	0.019799
2265004030	Lawn and Garden Equipment (Res)	Leafblowers/Vacuums	4 Stroke	VOC	0.192125	0.196779	0.174866	0.133957
2265004031	Lawn and Garden Equipment (Com)	Leafblowers/Vacuums	4 Stroke	VOC	0.663942	0.589590	0.492076	0.499863
2265004035	Lawn and Garden Equipment (Res)	Snowblowers	4 Stroke	VOC	1.411405	1.470668	1.618651	1.886155
2265004036	Lawn and Garden Equipment (Com)	Snowblowers	4 Stroke	VOC	0.209135	0.217999	0.239979	0.279702
2265004040	Lawn and Garden Equipment (Res)	Rear Engine Riding Mowers	4 Stroke	VOC	1.723623	1.683829	1.606359	1.823142
2265004041	Lawn and Garden Equipment (Com)	Rear Engine Riding Mowers	4 Stroke	VOC	0.076687	0.067787	0.062287	0.072491
2265004046	Lawn and Garden Equipment (Com)	Front Mowers	4 Stroke	VOC	0.122103	0.115872	0.101972	0.103949
2265004051	Lawn and Garden Equipment (Com)	Shredders < 6 HP	4 Stroke	VOC	0.116044	0.112827	0.098475	0.061617
2265004055	Lawn and Garden Equipment (Res)	Lawn & Garden Tractors	4 Stroke	VOC	20.636164	19.805723	18.076634	20.370212
2265004056	Lawn and Garden Equipment (Com)	Lawn & Garden Tractors	4 Stroke	VOC	1.038579	0.896986	0.802758	0.934052
2265004066	Lawn and Garden Equipment (Com)	Chippers/Stump Grinders	4 Stroke	VOC	0.157476	0.141746	0.107080	0.096874
2265004071	Lawn and Garden Equipment (Com)	Commercial Turf Equipment	4 Stroke	VOC	3.846642	3.637253	2.958184	3.104240
2265004075	Lawn and Garden Equipment (Res)	Other Lawn & Garden Eqp.	4 Stroke	VOC	1.155830	1.114565	1.044404	0.771256
2265004076	Lawn and Garden Equipment (Com)	Other Lawn & Garden Eqp.	4 Stroke	VOC	0.255453	0.246342	0.221973	0.170387
2265005010	Agricultural Equipment	2-Wheel Tractors	4 Stroke	VOC	0.034893	0.029975	0.027445	0.031079

Appendix D-2: Columbia County Annual Nonroad Emissions by SCC
Tons per Year

SCC	Classification	Equipment Type	Engine Type	Pollutant Code	2002 Emissions	2004 Emissions	2009 Emissions	2018 Emissions
2265005015	Agricultural Equipment	Agricultural Tractors	4 Stroke	VOC	0.114221	0.105290	0.065550	0.030550
2265005020	Agricultural Equipment	Combines	4 Stroke	VOC	0.000826	0.000829	0.000733	0.000498
2265005025	Agricultural Equipment	Balers	4 Stroke	VOC	0.085675	0.086123	0.076646	0.052173
2265005030	Agricultural Equipment	Agricultural Mowers	4 Stroke	VOC	0.035850	0.032186	0.026418	0.027657
2265005035	Agricultural Equipment	Sprayers	4 Stroke	VOC	0.521234	0.505822	0.423184	0.336118
2265005040	Agricultural Equipment	Tillers > 6 HP	4 Stroke	VOC	1.009282	1.000368	0.957922	0.844992
2265005045	Agricultural Equipment	Swathers	4 Stroke	VOC	0.124822	0.125182	0.110861	0.075312
2265005055	Agricultural Equipment	Other Agricultural Equipment	4 Stroke	VOC	0.197947	0.192333	0.164825	0.130517
2265005060	Agricultural Equipment	Irrigation Sets	4 Stroke	VOC	0.208753	0.195439	0.085821	0.026547
2265006005	Commercial Equipment	Generator Sets	4 Stroke	VOC	9.673198	9.435522	8.105618	8.998075
2265006010	Commercial Equipment	Pumps	4 Stroke	VOC	2.921760	2.979093	1.799028	2.109049
2265006015	Commercial Equipment	Air Compressors	4 Stroke	VOC	1.181205	1.182258	0.800388	0.902615
2265006025	Commercial Equipment	Welders	4 Stroke	VOC	1.835782	1.705404	1.598572	1.840634
2265006030	Commercial Equipment	Pressure Washers	4 Stroke	VOC	5.112663	5.156063	3.748181	4.055306
2265006035	Commercial Equipment	Hydro Power Units	4 Stroke	VOC	0.180429	0.174253	0.138952	0.171229
2265007010	Logging Equipment	Shredders > 6 HP	4 Stroke	VOC	0.508582	0.485590	0.431623	0.451777
2265007015	Logging Equipment	Forest Eq - Feller/Bunch/Skidder	4 Stroke	VOC	0.009160	0.009616	0.005125	0.006491
2265008005	Airport Equipment	Airport Ground Support Equipment	4 Stroke	VOC	0.000352	0.000335	0.000177	0.000115
2265010010	Industrial Equipment	Other Oil Field Equipment	4 Stroke	VOC	0.000000	0.000000	0.000000	0.000000
2267001060	Recreational Equipment	Specialty Vehicle Carts	LPG	VOC	0.020238	0.019936	0.017088	0.011153
2267002003	Construction and Mining Equipment	Pavers	LPG	VOC	0.004102	0.003940	0.002342	0.000481
2267002015	Construction and Mining Equipment	Rollers	LPG	VOC	0.006959	0.006454	0.002787	0.000435
2267002021	Construction and Mining Equipment	Paving Equipment	LPG	VOC	0.001073	0.001063	0.000839	0.000326
2267002024	Construction and Mining Equipment	Surfacing Equipment	LPG	VOC	0.000708	0.000675	0.000373	0.000077
2267002030	Construction and Mining Equipment	Trenchers	LPG	VOC	0.012552	0.012105	0.007487	0.001507
2267002033	Construction and Mining Equipment	Bore/Drill Rigs	LPG	VOC	0.004073	0.004096	0.003613	0.002403
2267002039	Construction and Mining Equipment	Concrete/Industrial Saws	LPG	VOC	0.012165	0.010884	0.003219	0.000685
2267002045	Construction and Mining Equipment	Cranes	LPG	VOC	0.004387	0.004346	0.003423	0.001298
2267002054	Construction and Mining Equipment	Crushing/Proc. Equipment	LPG	VOC	0.000731	0.000722	0.000559	0.000188
2267002057	Construction and Mining Equipment	Rough Terrain Forklifts	LPG	VOC	0.007960	0.007756	0.005291	0.001119
2267002060	Construction and Mining Equipment	Rubber Tire Loaders	LPG	VOC	0.019914	0.019041	0.010679	0.001432
2267002066	Construction and Mining Equipment	Tractors/Loaders/Backhoes	LPG	VOC	0.002123	0.001995	0.000938	0.000127
2267002072	Construction and Mining Equipment	Skid Steer Loaders	LPG	VOC	0.016318	0.016041	0.011857	0.004431
2267002081	Construction and Mining Equipment	Other Construction Equipment	LPG	VOC	0.006539	0.006501	0.005269	0.002358
2267003010	Industrial Equipment	Aerial Lifts	LPG	VOC	0.274358	0.275975	0.222387	0.103254
2267003020	Industrial Equipment	Forklifts	LPG	VOC	26.175766	25.436551	14.700785	2.086168
2267003030	Industrial Equipment	Sweepers/Scrubbers	LPG	VOC	0.201608	0.188396	0.075989	0.013914
2267003040	Industrial Equipment	Other General Industrial Equipm	LPG	VOC	0.061260	0.058435	0.028770	0.004310
2267003050	Industrial Equipment	Other Material Handling Equipment	LPG	VOC	0.014834	0.014894	0.011821	0.004074
2267003070	Industrial Equipment	Terminal Tractors	LPG	VOC	0.123412	0.112694	0.031179	0.007572
2267004066	Lawn and Garden Equipment (Com)	Chippers/Stump Grinders	LPG	VOC	0.026739	0.025307	0.012847	0.001768
2267005055	Agricultural Equipment	Other Agricultural Equipment	LPG	VOC	0.000698	0.000680	0.000574	0.000365
2267005060	Agricultural Equipment	Irrigation Sets	LPG	VOC	0.000594	0.000541	0.000238	0.000027
2267006005	Commercial Equipment	Generator Sets	LPG	VOC	0.211707	0.223098	0.206959	0.149465
2267006010	Commercial Equipment	Pumps	LPG	VOC	0.049928	0.051412	0.040248	0.018961
2267006015	Commercial Equipment	Air Compressors	LPG	VOC	0.060707	0.061547	0.042228	0.010551
2267006025	Commercial Equipment	Welders	LPG	VOC	0.098268	0.101475	0.074838	0.016443
2267006030	Commercial Equipment	Pressure Washers	LPG	VOC	0.001278	0.001346	0.001173	0.000554
2267006035	Commercial Equipment	Hydro Power Units	LPG	VOC	0.000946	0.000940	0.000520	0.000150
2267008005	Airport Equipment	Airport Ground Support Equipment	LPG	VOC	0.000096	0.000095	0.000053	0.000008
2268002081	Construction and Mining Equipment	Other Construction Equipment	CNG	VOC	0.000015	0.000015	0.000012	0.000006
2268003020	Industrial Equipment	Forklifts	CNG	VOC	0.112466	0.108250	0.062171	0.008961
2268003030	Industrial Equipment	Sweepers/Scrubbers	CNG	VOC	0.000134	0.000129	0.000073	0.000010
2268003040	Industrial Equipment	Other General Industrial Equipment	CNG	VOC	0.000088	0.000084	0.000045	0.000006
2268003060	Industrial Equipment	AC/Refrigeration	CNG	VOC	0.000132	0.000124	0.000057	0.000011
2268003070	Industrial Equipment	Terminal Tractors	CNG	VOC	0.000512	0.000464	0.000128	0.000032
2268005055	Agricultural Equipment	Other Agricultural Equipment	CNG	VOC	0.000053	0.000044	0.000025	0.000007
2268005060	Agricultural Equipment	Irrigation Sets	CNG	VOC	0.004084	0.002391	0.000273	0.000000
2268006005	Commercial Equipment	Generator Sets	CNG	VOC	0.004130	0.004215	0.003802	0.002717
2268006010	Commercial Equipment	Pumps	CNG	VOC	0.000209	0.000210	0.000169	0.000089
2268006015	Commercial Equipment	Air Compressors	CNG	VOC	0.000301	0.000296	0.000200	0.000046
2268006020	Commercial Equipment	Gas Compressors	CNG	VOC	0.015736	0.006061	0.000937	0.001171
2268006035	Commercial Equipment	Hydro Power Units	CNG	VOC	0.000000	0.000000	0.000000	0.000000
2268010010	Industrial Equipment	Other Oil Field Equipment	CNG	VOC	0.000000	0.000000	0.000000	0.000000
2270001060	Recreational Equipment	Specialty Vehicle Carts	Diesel	VOC	0.246972	0.239834	0.210692	0.136972
2270002003	Construction and Mining Equipment	Pavers	Diesel	VOC	0.117121	0.105473	0.081769	0.047270
2270002006	Construction and Mining Equipment	Tampers/Rammers	Diesel	VOC	0.000434	0.000422	0.000348	0.000268
2270002009	Construction and Mining Equipment	Plate Compactors	Diesel	VOC	0.007276	0.006925	0.005438	0.004068
2270002015	Construction and Mining Equipment	Rollers	Diesel	VOC	0.332000	0.295865	0.221555	0.127547
2270002018	Construction and Mining Equipment	Scrapers	Diesel	VOC	0.243605	0.217363	0.161462	0.123397
2270002021	Construction and Mining Equipment	Paving Equipment	Diesel	VOC	0.021404	0.019684	0.014835	0.009115
2270002024	Construction and Mining Equipment	Surfacing Equipment	Diesel	VOC	0.014767	0.013406	0.010076	0.006402
2270002027	Construction and Mining Equipment	Signal Boards/Light Plants	Diesel	VOC	0.071778	0.064738	0.043584	0.029450
2270002030	Construction and Mining Equipment	Trenchers	Diesel	VOC	0.197678	0.177861	0.128674	0.070373
2270002033	Construction and Mining Equipment	Bore/Drill Rigs	Diesel	VOC	0.154997	0.149160	0.128368	0.087876
2270002036	Construction and Mining Equipment	Excavators	Diesel	VOC	0.961223	0.863526	0.703161	0.439642
2270002039	Construction and Mining Equipment	Concrete/Industrial Saws	Diesel	VOC	0.015925	0.013926	0.009466	0.005177
2270002042	Construction and Mining Equipment	Cement & Mortar Mixers	Diesel	VOC	0.007454	0.007327	0.006650	0.004901
2270002045	Construction and Mining Equipment	Cranes	Diesel	VOC	0.250401	0.230072	0.180296	0.117162
2270002048	Construction and Mining Equipment	Graders	Diesel	VOC	0.239333	0.214892	0.176955	0.111623

Appendix D-2: Columbia County Annual Nonroad Emissions by SCC
Tons per Year

SCC	Classification	Equipment Type	Engine Type	Pollutant Code	2002 Emissions	2004 Emissions	2009 Emissions	2018 Emissions
2270002051	Construction and Mining Equipment	Off-highway Trucks	Diesel	VOC	0.828422	0.715684	0.512359	0.448693
2270002054	Construction and Mining Equipment	Crushing/Proc. Equipment	Diesel	VOC	0.051046	0.046707	0.035648	0.021641
2270002057	Construction and Mining Equipment	Rough Terrain Forklifts	Diesel	VOC	0.477389	0.441259	0.332354	0.180162
2270002060	Construction and Mining Equipment	Rubber Tire Loaders	Diesel	VOC	1.194827	1.111861	0.878174	0.575075
2270002066	Construction and Mining Equipment	Tractors/Loaders/Backhoes	Diesel	VOC	2.062625	2.008610	1.756563	1.003374
2270002069	Construction and Mining Equipment	Crawler Tractor/Dozers	Diesel	VOC	1.038208	0.932206	0.716506	0.481109
2270002072	Construction and Mining Equipment	Skid Steer Loaders	Diesel	VOC	1.991410	1.913840	1.600998	0.927164
2270002075	Construction and Mining Equipment	Off-Highway Tractors	Diesel	VOC	0.140464	0.124784	0.088705	0.061744
2270002078	Construction and Mining Equipment	Dumpers/Tenders	Diesel	VOC	0.006052	0.005946	0.005306	0.003297
2270002081	Construction and Mining Equipment	Other Construction Equipment	Diesel	VOC	0.131071	0.120908	0.095066	0.060992
2270003010	Industrial Equipment	Aerial Lifts	Diesel	VOC	0.312282	0.308878	0.281102	0.186815
2270003020	Industrial Equipment	Forklifts	Diesel	VOC	1.102322	1.048724	0.802988	0.427023
2270003030	Industrial Equipment	Sweepers/Scrubbers	Diesel	VOC	0.570131	0.506425	0.397970	0.228009
2270003040	Industrial Equipment	Other General Industrial Eqp	Diesel	VOC	0.617159	0.581280	0.456483	0.278691
2270003050	Industrial Equipment	Other Material Handling Eqp	Diesel	VOC	0.058088	0.057050	0.051344	0.033903
2270003060	Industrial Equipment	AC/Refrigeration	Diesel	VOC	1.247377	1.060149	0.776096	0.417211
2270003070	Industrial Equipment	Terminal Tractors	Diesel	VOC	0.603933	0.575630	0.485151	0.290502
2270004031	Lawn and Garden Equipment (Com)	Leafblowers/Vacuums	Diesel	VOC	0.000015	0.000015	0.000014	0.000012
2270004036	Lawn and Garden Equipment (Com)	Snowblowers	Diesel	VOC	0.001868	0.001844	0.001692	0.001284
2270004046	Lawn and Garden Equipment (Com)	Front Mowers	Diesel	VOC	0.087773	0.083398	0.065101	0.044258
2270004056	Lawn and Garden Equipment (Com)	Lawn & Garden Tractors	Diesel	VOC	0.019438	0.018163	0.013481	0.011189
2270004066	Lawn and Garden Equipment (Com)	Chippers/Stump Grinders	Diesel	VOC	0.075240	0.075285	0.070421	0.052885
2270004071	Lawn and Garden Equipment (Com)	Commercial Turf Equipment	Diesel	VOC	0.009072	0.007544	0.005672	0.003841
2270004076	Lawn and Garden Equipment (Com)	Other Lawn & Garden Eqp.	Diesel	VOC	0.000279	0.000279	0.000258	0.000198
2270005010	Agricultural Equipment	2-Wheel Tractors	Diesel	VOC	0.000418	0.000386	0.000272	0.000235
2270005015	Agricultural Equipment	Agricultural Tractors	Diesel	VOC	12.507049	11.248653	8.583646	5.052168
2270005020	Agricultural Equipment	Combines	Diesel	VOC	0.910864	0.890159	0.796576	0.567590
2270005025	Agricultural Equipment	Balers	Diesel	VOC	0.009220	0.008718	0.007124	0.004402
2270005030	Agricultural Equipment	Agricultural Mowers	Diesel	VOC	0.001484	0.001420	0.001188	0.000739
2270005035	Agricultural Equipment	Sprayers	Diesel	VOC	0.132869	0.123607	0.096590	0.056940
2270005040	Agricultural Equipment	Tillers > 6 HP	Diesel	VOC	0.000137	0.000129	0.000107	0.000070
2270005045	Agricultural Equipment	Swathers	Diesel	VOC	0.082006	0.081498	0.075977	0.054918
2270005055	Agricultural Equipment	Other Agricultural Equipment	Diesel	VOC	0.278810	0.256018	0.194426	0.116688
2270005060	Agricultural Equipment	Irrigation Sets	Diesel	VOC	0.171617	0.155835	0.116266	0.063874
2270006005	Commercial Equipment	Generator Sets	Diesel	VOC	0.688917	0.673532	0.595237	0.402760
2270006010	Commercial Equipment	Pumps	Diesel	VOC	0.151489	0.149032	0.133481	0.095039
2270006015	Commercial Equipment	Air Compressors	Diesel	VOC	0.341482	0.323426	0.257012	0.147275
2270006020	Commercial Equipment	Gas Compressors	Diesel	VOC	0.000000	0.000000	0.000000	0.000000
2270006025	Commercial Equipment	Welders	Diesel	VOC	0.519854	0.506912	0.436447	0.241982
2270006030	Commercial Equipment	Pressure Washers	Diesel	VOC	0.021655	0.021335	0.019478	0.014577
2270006035	Commercial Equipment	Hydro Power Units	Diesel	VOC	0.015907	0.014785	0.011394	0.006783
2270007010	Logging Equipment	Shredders > 6 HP	Diesel	VOC	0.000000	0.000000	0.000000	0.000000
2270007015	Logging Equipment	Forest Eqp - Feller/Bunch/Skidder	Diesel	VOC	0.455278	0.396285	0.282062	0.135229
2270008005	Airport Equipment	Airport Ground Support Equipment	Diesel	VOC	0.001149	0.001088	0.000915	0.000641
2270009010	Construction and Mining Equipment	Other Underground Mining Equipment	Diesel	VOC	0.000000	0.000000	0.000000	0.000000
2270010010	Industrial Equipment	Other Oil Field Equipment	Diesel	VOC	0.000000	0.000000	0.000000	0.000000
2275000000	Aircraft	All Aircraft Types and Operations	Other	VOC				
2275070000	Aircraft	Auxiliary Power Units	Other	VOC				
2280000000	Marine Vessels	Commercial	All Fuels	VOC	0.000000	0.000000	0.000000	0.000000
2280001000	Marine Vessels	Commercial	Coal	VOC	0.000000	0.000000	0.000000	0.000000
2280002000	Marine Vessels	Commercial	Diesel	VOC	0.000000	0.000000	0.000000	0.000000
2280003000	Marine Vessels	Commercial	Residual Fuel	VOC	0.000000	0.000000	0.000000	0.000000
2280004000	Marine Vessels	Commercial	Gasoline	VOC	0.000000	0.000000	0.000000	0.000000
2282005010	Pleasure Craft	Outboard	2 Stroke	VOC	133.831093	124.519102	98.745300	68.961001
2282005015	Pleasure Craft	Personal Water Craft	2 Stroke	VOC	46.790951	41.741165	27.637730	18.738157
2282010005	Pleasure Craft	Inboard/Stern Drive	4 Stroke	VOC	8.945241	8.911310	8.740589	8.457004
2282020005	Pleasure Craft	Inboard/Stern Drive	Diesel	VOC	0.233763	0.245968	0.255265	0.252453
2282020010	Pleasure Craft	Outboards	Diesel	VOC	0.005873	0.005595	0.004659	0.002757
2285002005	Railroad Equipment	Line Haul Locomotives	Diesel	VOC				
2285002010	Railroad Equipment	Yard Locomotive	Diesel	VOC				
2285002015	Railroad Equipment	Railway Maintenance	Diesel	VOC	0.010483	0.010312	0.009274	0.006041
2285004015	Railroad Equipment	Railway Maintenance	4 Stroke	VOC	0.003516	0.003189	0.002379	0.002467
2285006015	Railroad Equipment	Railway Maintenance	LPG	VOC	0.000036	0.000036	0.000027	0.000007

**Columbia
County
Total
Annual VOC
Emissions**

539.540185 546.824185 488.283385 352.415846

Appendix D-2: Columbia County Annual Nonroad Emissions by SCC
Tons per Year

SCC	Classification	Equipment Type	Engine Type	Pollutant Code	2002 Emissions	2004 Emissions	2009 Emissions	2018 Emissions
2260001010	Recreational Equipment	Motorcycles: Off-Road	2 Stroke	CO	56.832001	65.990707	83.272522	88.828613
2260001020	Recreational Equipment	Snowmobiles	2 Stroke	CO	0.000000	0.000000	0.000000	0.000000
2260001030	Recreational Equipment	ATVs	2 Stroke	CO	56.034321	77.377007	117.947330	135.284360
2260001060	Recreational Equipment	Specialty Vehicles/Carts	2 Stroke	CO	36.178029	37.169032	40.368883	43.293708
2260002006	Construction and Mining Equipment	Tampers/Rammers	2 Stroke	CO	2.914779	2.884811	2.412365	2.458439
2260002009	Construction and Mining Equipment	Plate Compactors	2 Stroke	CO	0.140499	0.113519	0.089969	0.092183
2260002021	Construction and Mining Equipment	Paving Equipment	2 Stroke	CO	0.168621	0.135173	0.108528	0.111198
2260002027	Construction and Mining Equipment	Signal Boards/Light Plants	2 Stroke	CO	0.001233	0.000970	0.000834	0.000855
2260002039	Construction and Mining Equipment	Concrete/Industrial Saws	2 Stroke	CO	7.702335	7.260190	6.249327	6.403090
2260002054	Construction and Mining Equipment	Crushing/Proc. Equipment	2 Stroke	CO	0.032871	0.025881	0.022145	0.022690
2260003030	Industrial Equipment	Sweepers/Scrubbers	2 Stroke	CO	0.255591	0.178632	0.108751	0.038551
2260003040	Industrial Equipment	Other General Industrial Eqp	2 Stroke	CO	0.020364	0.014232	0.008664	0.003071
2260004015	Lawn and Garden Equipment (Res)	Rotary Tillers < 6 HP	2 Stroke	CO	1.029654	0.937353	0.700455	0.745569
2260004016	Lawn and Garden Equipment (Com)	Rotary Tillers < 6 HP	2 Stroke	CO	0.849444	0.772689	0.575410	0.648769
2260004020	Lawn and Garden Equipment (Res)	Chain Saws < 6 HP	2 Stroke	CO	13.430842	12.279374	9.349563	10.592844
2260004021	Lawn and Garden Equipment (Com)	Chain Saws < 6 HP	2 Stroke	CO	12.494669	12.197778	11.261517	13.120893
2260004025	Lawn and Garden Equipment (Res)	Trimmers/Edgers/Brush Cutter	2 Stroke	CO	19.375601	17.384007	12.090823	13.581207
2260004026	Lawn and Garden Equipment (Com)	Trimmers/Edgers/Brush Cutter	2 Stroke	CO	8.442731	7.440226	6.159595	7.171108
2260004030	Lawn and Garden Equipment (Res)	Leafblowers/Vacuums	2 Stroke	CO	12.091974	11.009717	8.195559	9.271251
2260004031	Lawn and Garden Equipment (Com)	Leafblowers/Vacuums	2 Stroke	CO	8.514068	7.993481	6.877093	7.991025
2260004035	Lawn and Garden Equipment (Res)	Snowblowers	2 Stroke	CO	7.673098	7.997624	8.802973	10.258634
2260004036	Lawn and Garden Equipment (Com)	Snowblowers	2 Stroke	CO	3.089074	3.219723	3.543946	4.129975
2260004071	Lawn and Garden Equipment (Com)	Commercial Turf Equipment	2 Stroke	CO	0.003473	0.003030	0.002457	0.002863
2260005035	Agricultural Equipment	Sprayers	2 Stroke	CO	0.485717	0.410270	0.284496	0.320995
2260006005	Commercial Equipment	Generator Sets	2 Stroke	CO	1.032451	0.890241	0.784781	0.973283
2260006010	Commercial Equipment	Pumps	2 Stroke	CO	7.270123	5.770583	5.156861	6.309900
2260006015	Commercial Equipment	Air Compressors	2 Stroke	CO	0.002691	0.002238	0.002209	0.002739
2260006035	Commercial Equipment	Hydro Power Units	2 Stroke	CO	0.041818	0.034818	0.034234	0.042448
2260007005	Logging Equipment	Chain Saws > 6 HP	2 Stroke	CO	7.496503	7.747596	7.638875	9.674361
2265001010	Recreational Equipment	Motorcycles: Off-Road	4 Stroke	CO	24.479712	28.460068	34.114094	32.258335
2265001030	Recreational Equipment	ATVs	4 Stroke	CO	220.674350	267.012820	362.251070	423.424160
2265001050	Recreational Equipment	Golf Carts	4 Stroke	CO	228.119660	237.746020	250.337980	266.892850
2265001060	Recreational Equipment	Specialty Vehicles/Carts	4 Stroke	CO	30.845400	30.974716	31.512907	33.336791
2265002003	Construction and Mining Equipment	Pavers	4 Stroke	CO	2.526406	2.596056	2.604150	2.578982
2265002006	Construction and Mining Equipment	Tampers/Rammers	4 Stroke	CO	0.019981	0.020483	0.021728	0.022331
2265002009	Construction and Mining Equipment	Plate Compactors	4 Stroke	CO	4.665506	4.732623	4.833480	4.939176
2265002015	Construction and Mining Equipment	Rollers	4 Stroke	CO	4.735029	4.853879	4.828354	4.834405
2265002021	Construction and Mining Equipment	Paving Equipment	4 Stroke	CO	9.134784	9.303863	9.656698	9.911311
2265002024	Construction and Mining Equipment	Surfacing Equipment	4 Stroke	CO	4.140516	4.261098	4.362847	4.456203
2265002027	Construction and Mining Equipment	Signal Boards/Light Plants	4 Stroke	CO	0.210698	0.215811	0.219606	0.225016
2265002030	Construction and Mining Equipment	Trenchers	4 Stroke	CO	7.743401	7.920178	7.888097	7.794852
2265002033	Construction and Mining Equipment	Bore/Drill Rigs	4 Stroke	CO	2.281353	2.290957	2.271276	2.253328
2265002039	Construction and Mining Equipment	Concrete/Industrial Saws	4 Stroke	CO	19.122386	19.645482	19.838562	20.205843
2265002042	Construction and Mining Equipment	Cement & Mortar Mixers	4 Stroke	CO	7.998217	7.966190	8.215730	8.520226
2265002045	Construction and Mining Equipment	Cranes	4 Stroke	CO	0.320086	0.316787	0.271970	0.173992
2265002054	Construction and Mining Equipment	Crushing/Proc. Equipment	4 Stroke	CO	1.122885	1.156350	1.179942	1.190787
2265002057	Construction and Mining Equipment	Rough Terrain Forklifts	4 Stroke	CO	0.417821	0.399901	0.275925	0.081559
2265002060	Construction and Mining Equipment	Rubber Tire Loaders	4 Stroke	CO	1.001771	0.939531	0.526860	0.095100
2265002066	Construction and Mining Equipment	Tractors/Loaders/Backhoes	4 Stroke	CO	6.021826	6.221144	6.385998	6.504290
2265002072	Construction and Mining Equipment	Skid Steer Loaders	4 Stroke	CO	2.664011	2.686639	2.581292	2.283342
2265002078	Construction and Mining Equipment	Dumpers/Tenders	4 Stroke	CO	1.245389	1.240222	1.277870	1.328049
2265002081	Construction and Mining Equipment	Other Construction Equipment	4 Stroke	CO	0.351233	0.341167	0.271382	0.126214
2265003010	Industrial Equipment	Aerial Lifts	4 Stroke	CO	23.946614	21.535320	15.008026	5.049418
2265003020	Industrial Equipment	Forklifts	4 Stroke	CO	54.132126	46.297586	21.507918	1.483182
2265003030	Industrial Equipment	Sweepers/Scrubbers	4 Stroke	CO	23.269767	20.654258	12.243204	3.763562
2265003040	Industrial Equipment	Other General Industrial Eqp	4 Stroke	CO	59.364098	53.798838	37.362631	13.011527
2265003050	Industrial Equipment	Other Material Handling Eqp	4 Stroke	CO	1.830734	1.661006	1.161457	0.365751
2265003060	Industrial Equipment	AC\Refrigeration	4 Stroke	CO	0.756079	0.702033	0.514063	0.183935
2265003070	Industrial Equipment	Terminal Tractors	4 Stroke	CO	5.621405	4.545121	1.000626	0.098577
2265004010	Lawn and Garden Equipment (Res)	Lawn mowers	4 Stroke	CO	196.126839	203.199418	221.218919	252.880434
2265004011	Lawn and Garden Equipment (Com)	Lawn mowers	4 Stroke	CO	29.247398	30.482462	32.771106	37.994030
2265004015	Lawn and Garden Equipment (Res)	Rotary Tillers < 6 HP	4 Stroke	CO	16.520447	17.096209	18.581491	21.202335
2265004016	Lawn and Garden Equipment (Com)	Rotary Tillers < 6 HP	4 Stroke	CO	14.248776	14.830777	16.157770	18.531492
2265004025	Lawn and Garden Equipment (Res)	Trimmers/Edgers/Brush Cutter	4 Stroke	CO	1.101432	1.144545	1.244656	1.425624
2265004026	Lawn and Garden Equipment (Com)	Trimmers/Edgers/Brush Cutter	4 Stroke	CO	0.726331	0.769927	0.848296	0.984883
2265004030	Lawn and Garden Equipment (Res)	Leafblowers/Vacuums	4 Stroke	CO	2.105351	2.187796	2.377167	2.720561
2265004031	Lawn and Garden Equipment (Com)	Leafblowers/Vacuums	4 Stroke	CO	29.069906	31.126237	34.148518	38.275993
2265004035	Lawn and Garden Equipment (Res)	Snowblowers	4 Stroke	CO	22.541863	23.498055	25.868485	30.152304
2265004036	Lawn and Garden Equipment (Com)	Snowblowers	4 Stroke	CO	9.074528	9.459453	10.413719	12.138239
2265004040	Lawn and Garden Equipment (Res)	Rear Engine Riding Mowers	4 Stroke	CO	46.124335	48.439682	55.339825	64.985558
2265004041	Lawn and Garden Equipment (Com)	Rear Engine Riding Mowers	4 Stroke	CO	3.763864	4.037928	4.560107	5.315530
2265004046	Lawn and Garden Equipment (Com)	Front Mowers	4 Stroke	CO	4.064636	4.203862	4.728937	5.619956
2265004051	Lawn and Garden Equipment (Com)	Shredders < 6 HP	4 Stroke	CO	1.632750	1.698219	1.852019	2.121608
2265004055	Lawn and Garden Equipment (Res)	Lawn & Garden Tractors	4 Stroke	CO	613.273331	644.600625	741.628464	872.170552
2265004056	Lawn and Garden Equipment (Com)	Lawn & Garden Tractors	4 Stroke	CO	50.624443	54.620756	61.994715	72.267159
2265004066	Lawn and Garden Equipment (Com)	Chippers/Stump Grinders	4 Stroke	CO	6.723162	7.047229	7.104939	7.576356
2265004071	Lawn and Garden Equipment (Com)	Commercial Turf Equipment	4 Stroke	CO	156.590729	165.066766	179.351307	208.012769
2265004075	Lawn and Garden Equipment (Res)	Other Lawn & Garden Eqp.	4 Stroke	CO	20.018184	20.714754	22.682845	26.591852
2265004076	Lawn and Garden Equipment (Com)	Other Lawn & Garden Eqp.	4 Stroke	CO	4.427115	4.580992	5.014803	5.875864
2265005010	Agricultural Equipment	2-Wheel Tractors	4 Stroke	CO	1.683041	1.800693	1.996278	2.260716

Appendix D-2: Columbia County Annual Nonroad Emissions by SCC
Tons per Year

SCC	Classification	Equipment Type	Engine Type	Pollutant Code	2002 Emissions	2004 Emissions	2009 Emissions	2018 Emissions
2265005015	Agricultural Equipment	Agricultural Tractors	4 Stroke	CO	3.404249	3.419913	2.780239	2.054230
2265005020	Agricultural Equipment	Combines	4 Stroke	CO	0.016372	0.016454	0.014790	0.010428
2265005025	Agricultural Equipment	Balers	4 Stroke	CO	1.547427	1.555228	1.398331	0.986809
2265005030	Agricultural Equipment	Agricultural Mowers	4 Stroke	CO	1.308867	1.361056	1.524444	1.745487
2265005035	Agricultural Equipment	Sprayers	4 Stroke	CO	11.202606	11.466205	12.164842	13.342441
2265005040	Agricultural Equipment	Tillers > 6 HP	4 Stroke	CO	27.856689	28.570280	30.461801	34.187548
2265005045	Agricultural Equipment	Swathers	4 Stroke	CO	2.450991	2.463347	2.214835	1.563019
2265005055	Agricultural Equipment	Other Agricultural Equipment	4 Stroke	CO	5.085246	5.181123	5.189732	4.907091
2265005060	Agricultural Equipment	Irrigation Sets	4 Stroke	CO	4.770266	4.562569	2.501103	0.999030
2265006005	Commercial Equipment	Generator Sets	4 Stroke	CO	290.355718	310.858466	369.385877	463.141954
2265006010	Commercial Equipment	Pumps	4 Stroke	CO	67.093644	72.528789	83.117571	101.784565
2265006015	Commercial Equipment	Air Compressors	4 Stroke	CO	33.328915	35.969893	40.556200	48.466336
2265006025	Commercial Equipment	Welders	4 Stroke	CO	83.731289	91.306739	105.456539	127.473761
2265006030	Commercial Equipment	Pressure Washers	4 Stroke	CO	127.165430	137.492248	161.910814	200.857361
2265006035	Commercial Equipment	Hydro Power Units	4 Stroke	CO	6.435056	7.033837	8.239556	10.200127
2265007010	Logging Equipment	Shredders > 6 HP	4 Stroke	CO	16.134978	17.177613	20.411663	26.614649
2265007015	Logging Equipment	Forest Eq - Feller/Bunch/Skidder	4 Stroke	CO	0.192391	0.209096	0.243406	0.308298
2265008005	Airport Equipment	Airport Ground Support Equipment	4 Stroke	CO	0.008846	0.008802	0.007273	0.006034
2265010010	Industrial Equipment	Other Oil Field Equipment	4 Stroke	CO	0.000000	0.000000	0.000000	0.000000
2267001060	Recreational Equipment	Specialty Vehicle Carts	LPG	CO	0.298857	0.301828	0.277881	0.197508
2267002003	Construction and Mining Equipment	Pavers	LPG	CO	0.060693	0.062376	0.047949	0.013374
2267002015	Construction and Mining Equipment	Rollers	LPG	CO	0.103207	0.105471	0.066903	0.015102
2267002021	Construction and Mining Equipment	Paving Equipment	LPG	CO	0.015835	0.016358	0.014679	0.007439
2267002024	Construction and Mining Equipment	Surfacing Equipment	LPG	CO	0.010478	0.010758	0.007980	0.002207
2267002030	Construction and Mining Equipment	Trenchers	LPG	CO	0.185724	0.190999	0.149911	0.041771
2267002033	Construction and Mining Equipment	Bore/Drill Rigs	LPG	CO	0.059978	0.062121	0.059483	0.043541
2267002039	Construction and Mining Equipment	Concrete/Industrial Saws	LPG	CO	0.180978	0.183893	0.092571	0.023503
2267002045	Construction and Mining Equipment	Cranes	LPG	CO	0.064757	0.066894	0.059970	0.030147
2267002054	Construction and Mining Equipment	Crushing/Proc. Equipment	LPG	CO	0.010787	0.011138	0.009888	0.004626
2267002057	Construction and Mining Equipment	Rough Terrain Forklifts	LPG	CO	0.117679	0.121223	0.100352	0.029959
2267002060	Construction and Mining Equipment	Rubber Tire Loaders	LPG	CO	0.294922	0.302877	0.227125	0.048537
2267002066	Construction and Mining Equipment	Tractors/Loaders/Backhoes	LPG	CO	0.031483	0.032242	0.021953	0.004450
2267002072	Construction and Mining Equipment	Skid Steer Loaders	LPG	CO	0.241005	0.248634	0.214870	0.100145
2267002081	Construction and Mining Equipment	Other Construction Equipment	LPG	CO	0.096461	0.099704	0.090856	0.050720
2267003010	Industrial Equipment	Aerial Lifts	LPG	CO	4.043558	4.252661	3.916850	2.175448
2267003020	Industrial Equipment	Forklifts	LPG	CO	387.353882	404.870836	313.085613	70.643437
2267003030	Industrial Equipment	Sweepers/Scrubbers	LPG	CO	2.992561	3.106804	1.937483	0.476407
2267003040	Industrial Equipment	Other General Industrial Equipm	LPG	CO	0.907378	0.945346	0.663594	0.150352
2267003050	Industrial Equipment	Other Material Handling Equipment	LPG	CO	0.218697	0.229919	0.210090	0.101176
2267003070	Industrial Equipment	Terminal Tractors	LPG	CO	1.833300	1.896072	1.015394	0.260157
2267004066	Lawn and Garden Equipment (Com)	Chippers/Stump Grinders	LPG	CO	0.396100	0.406406	0.287811	0.061497
2267005055	Agricultural Equipment	Other Agricultural Equipment	LPG	CO	0.010310	0.010265	0.009239	0.006351
2267005060	Agricultural Equipment	Irrigation Sets	LPG	CO	0.008808	0.008674	0.005575	0.000929
2267006005	Commercial Equipment	Generator Sets	LPG	CO	2.778443	3.089220	3.297056	2.776741
2267006010	Commercial Equipment	Pumps	LPG	CO	0.658095	0.729161	0.716568	0.427665
2267006015	Commercial Equipment	Air Compressors	LPG	CO	0.802476	0.887055	0.822643	0.324851
2267006025	Commercial Equipment	Welders	LPG	CO	1.448123	1.601246	1.470123	0.472665
2267006030	Commercial Equipment	Pressure Washers	LPG	CO	0.018773	0.020835	0.020966	0.012695
2267006035	Commercial Equipment	Hydro Power Units	LPG	CO	0.012525	0.013807	0.011719	0.004666
2267008005	Airport Equipment	Airport Ground Support Equipment	LPG	CO	0.001419	0.001525	0.001185	0.000283
2268002081	Construction and Mining Equipment	Other Construction Equipment	CNG	CO	0.003805	0.003933	0.003584	0.002001
2268003020	Industrial Equipment	Forklifts	CNG	CO	28.248489	29.198362	22.284576	4.883907
2268003030	Industrial Equipment	Sweepers/Scrubbers	CNG	CO	0.033783	0.034912	0.026485	0.005711
2268003040	Industrial Equipment	Other General Industrial Equipment	CNG	CO	0.022081	0.022800	0.016795	0.003550
2268003060	Industrial Equipment	AC/Refrigeration	CNG	CO	0.033147	0.034151	0.023176	0.005698
2268003070	Industrial Equipment	Terminal Tractors	CNG	CO	0.129111	0.132189	0.069714	0.017282
2268005055	Agricultural Equipment	Other Agricultural Equipment	CNG	CO	0.013578	0.011157	0.006310	0.001782
2268005060	Agricultural Equipment	Irrigation Sets	CNG	CO	1.040852	0.612598	0.070693	0.000000
2268006005	Commercial Equipment	Generator Sets	CNG	CO	0.922603	0.980958	0.989484	0.801224
2268006010	Commercial Equipment	Pumps	CNG	CO	0.046740	0.049563	0.047294	0.030510
2268006015	Commercial Equipment	Air Compressors	CNG	CO	0.067673	0.071527	0.062974	0.022798
2268006020	Commercial Equipment	Gas Compressors	CNG	CO	4.049792	3.811215	4.485026	0.606110
2268006035	Commercial Equipment	Hydro Power Units	CNG	CO	0.000000	0.000000	0.000000	0.000000
2268010010	Industrial Equipment	Other Oil Field Equipment	CNG	CO	0.000000	0.000000	0.000000	0.000000
2270001060	Recreational Equipment	Specialty Vehicle Carts	Diesel	CO	0.919056	0.895929	0.804411	0.531734
2270002003	Construction and Mining Equipment	Pavers	Diesel	CO	0.616421	0.541216	0.455989	0.197577
2270002006	Construction and Mining Equipment	Tampers/Rammers	Diesel	CO	0.001554	0.001592	0.001661	0.001874
2270002009	Construction and Mining Equipment	Plate Compactors	Diesel	CO	0.024891	0.024946	0.024463	0.026158
2270002015	Construction and Mining Equipment	Rollers	Diesel	CO	1.773730	1.603176	1.350557	0.653040
2270002018	Construction and Mining Equipment	Scrapers	Diesel	CO	1.602761	1.461539	1.226528	0.571603
2270002021	Construction and Mining Equipment	Paving Equipment	Diesel	CO	0.115074	0.105580	0.084416	0.046887
2270002024	Construction and Mining Equipment	Surfacing Equipment	Diesel	CO	0.086820	0.081102	0.067016	0.037880
2270002027	Construction and Mining Equipment	Signal Boards/Light Plants	Diesel	CO	0.226603	0.213495	0.171327	0.140833
2270002030	Construction and Mining Equipment	Trenchers	Diesel	CO	1.064859	0.997041	0.838749	0.445531
2270002033	Construction and Mining Equipment	Bore/Drill Rigs	Diesel	CO	0.639666	0.613022	0.535187	0.327603
2270002036	Construction and Mining Equipment	Excavators	Diesel	CO	4.920515	4.169486	3.775965	1.171236
2270002039	Construction and Mining Equipment	Concrete/Industrial Saws	Diesel	CO	0.082347	0.076349	0.063356	0.033861
2270002042	Construction and Mining Equipment	Cement & Mortar Mixers	Diesel	CO	0.028249	0.028075	0.027260	0.022089
2270002045	Construction and Mining Equipment	Cranes	Diesel	CO	0.898310	0.825348	0.676674	0.327121
2270002048	Construction and Mining Equipment	Graders	Diesel	CO	1.159069	0.949537	0.839657	0.293807

Appendix D-2: Columbia County Annual Nonroad Emissions by SCC
Tons per Year

SCC	Classification	Equipment Type	Engine Type	Pollutant Code	2002 Emissions	2004 Emissions	2009 Emissions	2018 Emissions
2270002051	Construction and Mining Equipment	Off-highway Trucks	Diesel	CO	5.027736	4.211601	3.107859	0.656929
2270002054	Construction and Mining Equipment	Crushing/Proc. Equipment	Diesel	CO	0.210384	0.193671	0.163089	0.086894
2270002057	Construction and Mining Equipment	Rough Terrain Forklifts	Diesel	CO	2.648483	2.488733	2.164904	1.172863
2270002060	Construction and Mining Equipment	Rubber Tire Loaders	Diesel	CO	6.812697	6.244991	5.129220	2.407089
2270002066	Construction and Mining Equipment	Tractors/Loaders/Backhoes	Diesel	CO	8.321784	8.237762	7.902706	5.129893
2270002069	Construction and Mining Equipment	Crawler Tractor/Dozers	Diesel	CO	5.830089	5.177010	4.378428	1.814621
2270002072	Construction and Mining Equipment	Skid Steer Loaders	Diesel	CO	7.277488	7.232348	6.796820	4.643987
2270002075	Construction and Mining Equipment	Off-Highway Tractors	Diesel	CO	0.883358	0.792113	0.607369	0.269759
2270002078	Construction and Mining Equipment	Dumpers/Tenders	Diesel	CO	0.020805	0.021063	0.020716	0.014877
2270002081	Construction and Mining Equipment	Other Construction Equipment	Diesel	CO	0.846341	0.781449	0.632315	0.334522
2270003010	Industrial Equipment	Aerial Lifts	Diesel	CO	1.073738	1.097878	1.106092	0.836699
2270003020	Industrial Equipment	Forklifts	Diesel	CO	6.520858	6.498734	6.932613	1.202177
2270003030	Industrial Equipment	Sweepers/Scrubbers	Diesel	CO	2.006521	1.776479	1.644087	0.705160
2270003040	Industrial Equipment	Other General Industrial Eqp	Diesel	CO	2.176290	2.045903	1.739721	0.979740
2270003050	Industrial Equipment	Other Material Handling Eqp	Diesel	CO	0.199415	0.198209	0.190445	0.131209
2270003060	Industrial Equipment	AC/Refrigeration	Diesel	CO	4.759574	4.421165	4.396011	2.280390
2270003070	Industrial Equipment	Terminal Tractors	Diesel	CO	2.757649	2.507948	2.602598	0.581850
2270004031	Lawn and Garden Equipment (Com)	Leafblowers/Vacuums	Diesel	CO	0.000044	0.000046	0.000051	0.000052
2270004036	Lawn and Garden Equipment (Com)	Snowblowers	Diesel	CO	0.007590	0.007473	0.006912	0.004404
2270004046	Lawn and Garden Equipment (Com)	Front Mowers	Diesel	CO	0.279802	0.277493	0.254327	0.205894
2270004056	Lawn and Garden Equipment (Com)	Lawn & Garden Tractors	Diesel	CO	0.061141	0.059981	0.053054	0.054367
2270004066	Lawn and Garden Equipment (Com)	Chippers/Stump Grinders	Diesel	CO	0.298254	0.300545	0.297709	0.214522
2270004071	Lawn and Garden Equipment (Com)	Commercial Turf Equipment	Diesel	CO	0.031458	0.028073	0.026110	0.014438
2270004076	Lawn and Garden Equipment (Com)	Other Lawn & Garden Eqp.	Diesel	CO	0.000998	0.001026	0.001061	0.000932
2270005010	Agricultural Equipment	2-Wheel Tractors	Diesel	CO	0.002277	0.002280	0.002110	0.001806
2270005015	Agricultural Equipment	Agricultural Tractors	Diesel	CO	61.033680	56.354577	46.281733	25.229042
2270005020	Agricultural Equipment	Combines	Diesel	CO	3.801542	3.744067	3.561533	2.335432
2270005025	Agricultural Equipment	Balers	Diesel	CO	0.031728	0.031640	0.030808	0.022569
2270005030	Agricultural Equipment	Agricultural Mowers	Diesel	CO	0.007290	0.007264	0.007142	0.005133
2270005035	Agricultural Equipment	Sprayers	Diesel	CO	0.428136	0.412367	0.368140	0.230587
2270005040	Agricultural Equipment	Tillers > 6 HP	Diesel	CO	0.000826	0.000785	0.000672	0.000407
2270005045	Agricultural Equipment	Swathers	Diesel	CO	0.365722	0.378374	0.406970	0.325810
2270005055	Agricultural Equipment	Other Agricultural Equipment	Diesel	CO	1.212386	1.142176	0.956977	0.540528
2270005060	Agricultural Equipment	Irrigation Sets	Diesel	CO	0.543209	0.518018	0.457205	0.267307
2270006005	Commercial Equipment	Generator Sets	Diesel	CO	2.431608	2.415944	2.310405	1.693213
2270006010	Commercial Equipment	Pumps	Diesel	CO	0.565475	0.564109	0.547787	0.419383
2270006015	Commercial Equipment	Air Compressors	Diesel	CO	1.289984	1.258536	1.191412	0.740840
2270006020	Commercial Equipment	Gas Compressors	Diesel	CO	0.000000	0.000000	0.000000	0.000000
2270006025	Commercial Equipment	Welders	Diesel	CO	1.914252	1.915353	1.793844	1.154371
2270006030	Commercial Equipment	Pressure Washers	Diesel	CO	0.073220	0.072463	0.068888	0.052282
2270006035	Commercial Equipment	Hydro Power Units	Diesel	CO	0.058285	0.056251	0.052161	0.033724
2270007010	Logging Equipment	Shredders > 6 HP	Diesel	CO	0.000000	0.000000	0.000000	0.000000
2270007015	Logging Equipment	Forest Eqp - Feller/Bunch/Skidder	Diesel	CO	2.154002	1.759792	1.448241	0.276342
2270008005	Airport Equipment	Airport Ground Support Equipment	Diesel	CO	0.006317	0.006034	0.005480	0.002968
2270009010	Construction and Mining Equipment	Other Underground Mining Equipment	Diesel	CO	0.000000	0.000000	0.000000	0.000000
2270010010	Industrial Equipment	Other Oil Field Equipment	Diesel	CO	0.000000	0.000000	0.000000	0.000000
2275000000	Aircraft	All Aircraft Types and Operations	Other	CO				
2275070000	Aircraft	Auxiliary Power Units	Other	CO				
2280000000	Marine Vessels	Commercial	All Fuels	CO	0.000000	0.000000	0.000000	0.000000
2280001000	Marine Vessels	Commercial	Coal	CO	0.000000	0.000000	0.000000	0.000000
2280002000	Marine Vessels	Commercial	Diesel	CO	0.000000	0.000000	0.000000	0.000000
2280003000	Marine Vessels	Commercial	Residual Fuel	CO	0.000000	0.000000	0.000000	0.000000
2280004000	Marine Vessels	Commercial	Gasoline	CO	0.000000	0.000000	0.000000	0.000000
2282005010	Pleasure Craft	Outboard	2 Stroke	CO	261.181723	250.856432	220.900972	191.508907
2282005015	Pleasure Craft	Personal Water Craft	2 Stroke	CO	94.517511	91.868405	86.152324	85.514097
2282010005	Pleasure Craft	Inboard/Stern Drive	4 Stroke	CO	129.348573	126.389570	116.535915	98.934522
2282020005	Pleasure Craft	Inboard/Stern Drive	Diesel	CO	0.988322	1.042635	1.178041	1.419400
2282020010	Pleasure Craft	Outboards	Diesel	CO	0.016964	0.016577	0.014985	0.011287
2285002005	Railroad Equipment	Line Haul Locomotives	Diesel	CO				
2285002010	Railroad Equipment	Yard Locomotive	Diesel	CO				
2285002015	Railroad Equipment	Railway Maintenance	Diesel	CO	0.044628	0.043519	0.039561	0.024946
2285004015	Railroad Equipment	Railway Maintenance	4 Stroke	CO	0.123993	0.129891	0.140667	0.153188
2285006015	Railroad Equipment	Railway Maintenance	LPG	CO	0.000534	0.000552	0.000481	0.000192

Columbia

County

Total

Annual CO

Emissions

3998.368810 4166.551547 4372.591569 4480.880008

Appendix D-2: Columbia County Nonroad Daily Emissions by Category
Tons per Day

Tons/Summer Day

Equipment Type	Fuel	Pollutant	2002	2004	2009	2018
Recreational	Diesel	VOC	0.000850	0.000825	0.000725	0.000471
Recreational	Gasoline	VOC	0.541318	0.669388	0.788593	0.527595
Recreational	CNG	VOC	0.000000	0.000000	0.000000	0.000000
Recreational	LPG	VOC	0.000070	0.000069	0.000059	0.000038
Construction	Diesel	VOC	0.038858	0.036081	0.029057	0.018211
Construction	Gasoline	VOC	0.023610	0.020661	0.011879	0.011325
Construction	CNG	VOC	0.000000	0.000000	0.000000	0.000000
Construction	LPG	VOC	0.000367	0.000352	0.000216	0.000062
Industrial	Diesel	VOC	0.013589	0.012503	0.009848	0.005653
Industrial	Gasoline	VOC	0.021145	0.017751	0.007435	0.001667
Industrial	CNG	VOC	0.000355	0.000342	0.000196	0.000028
Industrial	LPG	VOC	0.084211	0.081814	0.047265	0.006960
Lawn and Garden	Diesel	VOC	0.000923	0.000888	0.000745	0.000541
Lawn and Garden	Gasoline	VOC	0.352119	0.328135	0.257572	0.262365
Lawn and Garden	CNG	VOC	0.000000	0.000000	0.000000	0.000000
Lawn and Garden	LPG	VOC	0.000129	0.000122	0.000062	0.000009
Farm	Diesel	VOC	0.070619	0.063965	0.049463	0.029650
Farm	Gasoline	VOC	0.012986	0.012398	0.010252	0.008421
Farm	CNG	VOC	0.000021	0.000012	0.000001	0.000000
Farm	LPG	VOC	0.000006	0.000006	0.000004	0.000002
Light Commercial	Diesel	VOC	0.005455	0.005297	0.004557	0.002849
Light Commercial	Gasoline	VOC	0.081787	0.076612	0.061189	0.069693
Light Commercial	CNG	VOC	0.000064	0.000034	0.000016	0.000013
Light Commercial	LPG	VOC	0.001326	0.001379	0.001148	0.000615
Logging	Diesel	VOC	0.001428	0.001243	0.000885	0.000424
Logging	Gasoline	VOC	0.010388	0.009880	0.005975	0.007283
Logging	CNG	VOC	0.000000	0.000000	0.000000	0.000000
Logging	LPG	VOC	0.000000	0.000000	0.000000	0.000000
Airport Service	Diesel	VOC	0.000003	0.000003	0.000002	0.000002
Airport Service	Gasoline	VOC	0.000001	0.000001	0.000000	0.000000
Airport Service	CNG	VOC	0.000000	0.000000	0.000000	0.000000
Airport Service	LPG	VOC	0.000000	0.000000	0.000000	0.000000
Railway Maintenance	Diesel	VOC	0.000036	0.000035	0.000031	0.000020
Railway Maintenance	Gasoline	VOC	0.000012	0.000011	0.000009	0.000009
Railway Maintenance	CNG	VOC	0.000000	0.000000	0.000000	0.000000
Railway Maintenance	LPG	VOC	0.000000	0.000000	0.000000	0.000000
Recreational Marine Vessels	Diesel	VOC	0.000617	0.000648	0.000670	0.000658
Recreational Marine Vessels	Gasoline	VOC	0.558716	0.522739	0.422293	0.326893
Recreational Marine Vessels	CNG	VOC	0.000000	0.000000	0.000000	0.000000
Recreational Marine Vessels	LPG	VOC	0.000000	0.000000	0.000000	0.000000
Aircraft	Other	VOC	0.002079	0.002038	0.002204	0.002599
Marine Vessels	Coal	VOC	0.000000	0.000000	0.000000	0.000000
Marine Vessels	Diesel	VOC	0.000000	0.000000	0.000000	0.000000
Marine Vessels	Residual Oil	VOC	0.000000	0.000000	0.000000	0.000000
Marine Vessels	Gasoline	VOC	0.000000	0.000000	0.000000	0.000000
Marine Vessels	Other	VOC	0.000000	0.000000	0.000000	0.000000
Railroads	Diesel	VOC	0.006681	0.006897	0.006559	0.006601
Columbia County VOC Totals			1.829769	1.872129	1.718912	1.290656

Appendix D-2: Columbia County Nonroad Daily Emissions by Category
Tons per Day

Equipment Type	Fuel	Pollutant	2002	2004	2009	2018
Recreational	Diesel	NOx	0.002658	0.002691	0.002665	0.002176
Recreational	Gasoline	NOx	0.012920	0.014178	0.016813	0.018288
Recreational	CNG	NOx	0.000000	0.000000	0.000000	0.000000
Recreational	LPG	NOx	0.000257	0.000253	0.000214	0.000139
Construction	Diesel	NOx	0.336267	0.325265	0.282421	0.146724
Construction	Gasoline	NOx	0.002465	0.002269	0.001649	0.001314
Construction	CNG	NOx	0.000004	0.000003	0.000003	0.000001
Construction	LPG	NOx	0.001345	0.001281	0.000774	0.000269
Industrial	Diesel	NOx	0.127818	0.124839	0.108799	0.054031
Industrial	Gasoline	NOx	0.013774	0.011527	0.005107	0.000778
Industrial	CNG	NOx	0.022085	0.021068	0.011749	0.002750
Industrial	LPG	NOx	0.308848	0.297350	0.167401	0.039862
Lawn and Garden	Diesel	NOx	0.006147	0.006380	0.006591	0.005818
Lawn and Garden	Gasoline	NOx	0.028806	0.028119	0.024206	0.024911
Lawn and Garden	CNG	NOx	0.000000	0.000000	0.000000	0.000000
Lawn and Garden	LPG	NOx	0.000470	0.000441	0.000219	0.000052
Farm	Diesel	NOx	0.580394	0.563719	0.507078	0.324735
Farm	Gasoline	NOx	0.004663	0.004586	0.003613	0.002665
Farm	CNG	NOx	0.001230	0.000712	0.000086	0.000002
Farm	LPG	NOx	0.000024	0.000022	0.000015	0.000007
Light Commercial	Diesel	NOx	0.031167	0.031924	0.031939	0.025232
Light Commercial	Gasoline	NOx	0.012862	0.012735	0.011204	0.012186
Light Commercial	CNG	NOx	0.004041	0.002217	0.001361	0.001095
Light Commercial	LPG	NOx	0.006123	0.006351	0.005261	0.003037
Logging	Diesel	NOx	0.019636	0.017359	0.011620	0.002434
Logging	Gasoline	NOx	0.000380	0.000403	0.000390	0.000448
Logging	CNG	NOx	0.000000	0.000000	0.000000	0.000000
Logging	LPG	NOx	0.000000	0.000000	0.000000	0.000000
Airport Service	Diesel	NOx	0.000037	0.000036	0.000033	0.000018
Airport Service	Gasoline	NOx	0.000001	0.000001	0.000000	0.000000
Airport Service	CNG	NOx	0.000000	0.000000	0.000000	0.000000
Airport Service	LPG	NOx	0.000001	0.000001	0.000001	0.000000
Railway Maintenance	Diesel	NOx	0.000183	0.000184	0.000176	0.000127
Railway Maintenance	Gasoline	NOx	0.000003	0.000003	0.000002	0.000002
Railway Maintenance	CNG	NOx	0.000000	0.000000	0.000000	0.000000
Railway Maintenance	LPG	NOx	0.000000	0.000000	0.000000	0.000000
Recreational Marine Vessels	Diesel	NOx	0.016161	0.017068	0.018202	0.019206
Recreational Marine Vessels	Gasoline	NOx	0.019152	0.021429	0.027478	0.035681
Recreational Marine Vessels	CNG	NOx	0.000000	0.000000	0.000000	0.000000
Recreational Marine Vessels	LPG	NOx	0.000000	0.000000	0.000000	0.000000
Aircraft	Other	NOx	0.001724	0.001690	0.001828	0.002155
Marine Vessels	Coal	NOx	0.000000	0.000000	0.000000	0.000000
Marine Vessels	Diesel	NOx	0.000000	0.000000	0.000000	0.000000
Marine Vessels	Residual Oil	NOx	0.000000	0.000000	0.000000	0.000000
Marine Vessels	Gasoline	NOx	0.000000	0.000000	0.000000	0.000000
Marine Vessels	Other	NOx	0.000000	0.000000	0.000000	0.000000
Railroads	Diesel	NOx	0.154579	0.139879	0.116862	0.101296
Columbia County NOx A134Totals			1.716221	1.655983	1.365760	0.827437

Appendix D-2: Columbia County Nonroad Daily Emissions by Category
Tons per Day

Equipment Type	Fuel	Pollutant	2002	2004	2009	2018
Recreational	Diesel	CO	0.003162	0.003083	0.002768	0.001830
Recreational	Gasoline	CO	2.305807	2.627829	3.243433	3.608604
Recreational	CNG	CO	0.000000	0.000000	0.000000	0.000000
Recreational	LPG	CO	0.001028	0.001039	0.000956	0.000680
Construction	Diesel	CO	0.188163	0.173264	0.151069	0.076666
Construction	Gasoline	CO	0.328459	0.331743	0.327619	0.328425
Construction	CNG	CO	0.000014	0.000014	0.000013	0.000007
Construction	LPG	CO	0.005425	0.005575	0.004286	0.001529
Industrial	Diesel	CO	0.059005	0.056184	0.056400	0.020045
Industrial	Gasoline	CO	0.548139	0.483952	0.288004	0.077708
Industrial	CNG	CO	0.089262	0.092259	0.070306	0.015415
Industrial	LPG	CO	1.246167	1.302469	1.006184	0.231473
Lawn and Garden	Diesel	CO	0.003231	0.003209	0.003041	0.002358
Lawn and Garden	Gasoline	CO	4.848316	5.058397	5.592584	6.506512
Lawn and Garden	CNG	CO	0.000000	0.000000	0.000000	0.000000
Lawn and Garden	LPG	CO	0.001905	0.001955	0.001384	0.000296
Farm	Diesel	CO	0.337834	0.313608	0.260907	0.145094
Farm	Gasoline	CO	0.309696	0.314866	0.313456	0.323016
Farm	CNG	CO	0.005283	0.003125	0.000386	0.000009
Farm	LPG	CO	0.000096	0.000095	0.000074	0.000036
Light Commercial	Diesel	CO	0.019861	0.019704	0.018706	0.012839
Light Commercial	Gasoline	CO	1.997608	2.145064	2.510686	3.109022
Light Commercial	CNG	CO	0.015953	0.015409	0.004970	0.004581
Light Commercial	LPG	CO	0.017934	0.019888	0.019881	0.012605
Logging	Diesel	CO	0.006755	0.005519	0.004542	0.000867
Logging	Gasoline	CO	0.076442	0.080664	0.090919	0.117622
Logging	CNG	CO	0.000000	0.000000	0.000000	0.000000
Logging	LPG	CO	0.000000	0.000000	0.000000	0.000000
Airport Service	Diesel	CO	0.000017	0.000016	0.000015	0.000008
Airport Service	Gasoline	CO	0.000025	0.000024	0.000020	0.000017
Airport Service	CNG	CO	0.000000	0.000000	0.000000	0.000000
Airport Service	LPG	CO	0.000004	0.000004	0.000003	0.000001
Railway Maintenance	Diesel	CO	0.000151	0.000147	0.000134	0.000084
Railway Maintenance	Gasoline	CO	0.000434	0.000455	0.000493	0.000536
Railway Maintenance	CNG	CO	0.000000	0.000000	0.000000	0.000000
Railway Maintenance	LPG	CO	0.000002	0.000002	0.000002	0.000001
Recreational Marine Vessels	Diesel	CO	0.002590	0.002729	0.003074	0.003687
Recreational Marine Vessels	Gasoline	CO	1.261089	1.219776	1.101612	0.977348
Recreational Marine Vessels	CNG	CO	0.000000	0.000000	0.000000	0.000000
Recreational Marine Vessels	LPG	CO	0.000000	0.000000	0.000000	0.000000
Aircraft	Other	CO	0.094651	0.092758	0.100330	0.118314
Marine Vessels	Coal	CO	0.000000	0.000000	0.000000	0.000000
Marine Vessels	Diesel	CO	0.000000	0.000000	0.000000	0.000000
Marine Vessels	Residual Oil	CO	0.000000	0.000000	0.000000	0.000000
Marine Vessels	Gasoline	CO	0.000000	0.000000	0.000000	0.000000
Marine Vessels	Other	CO	0.000000	0.000000	0.000000	0.000000
Railroads	Diesel	CO	0.017024	0.017573	0.019024	0.021946
Columbia County CO Totals			13.791536	14.392397	15.197279	15.719181

Appendix D-2: Columbia County Daily Nonroad Emissions by SCC
Tons per Day

SCC	Classification	Equipment Type	Engine Type	Pollutant Code	2002 Emissions	2004 Emissions	2009 Emissions	2018 Emissions
2260001010	Recreational Equipment	Motorcycles: Off-Road	2 Stroke	NOx	0.000494	0.000575	0.000941	0.001524
2260001020	Recreational Equipment	Snowmobiles	2 Stroke	NOx	0.000000	0.000000	0.000000	0.000000
2260001030	Recreational Equipment	ATVs	2 Stroke	NOx	0.000500	0.000688	0.001306	0.002212
2260001060	Recreational Equipment	Specialty Vehicles/Carts	2 Stroke	NOx	0.000740	0.000693	0.000565	0.000582
2260002006	Construction and Mining Equipment	Tampers/Rammers	2 Stroke	NOx	0.000047	0.000045	0.000025	0.000025
2260002009	Construction and Mining Equipment	Plate Compactors	2 Stroke	NOx	0.000001	0.000001	0.000002	0.000002
2260002021	Construction and Mining Equipment	Paving Equipment	2 Stroke	NOx	0.000001	0.000001	0.000002	0.000002
2260002027	Construction and Mining Equipment	Signal Boards/Light Plants	2 Stroke	NOx	0.000000	0.000000	0.000000	0.000000
2260002039	Construction and Mining Equipment	Concrete/Industrial Saws	2 Stroke	NOx	0.000113	0.000102	0.000063	0.000065
2260002054	Construction and Mining Equipment	Crushing/Proc. Equipment	2 Stroke	NOx	0.000000	0.000000	0.000000	0.000000
2260003030	Industrial Equipment	Sweepers/Scrubbers	2 Stroke	NOx	0.000001	0.000002	0.000002	0.000001
2260003040	Industrial Equipment	Other General Industrial Eqp	2 Stroke	NOx	0.000000	0.000000	0.000000	0.000000
2260004015	Lawn and Garden Equipment (Res)	Rotary Tillers < 6 HP	2 Stroke	NOx	0.000004	0.000005	0.000010	0.000013
2260004016	Lawn and Garden Equipment (Com)	Rotary Tillers < 6 HP	2 Stroke	NOx	0.000005	0.000007	0.000014	0.000016
2260004020	Lawn and Garden Equipment (Res)	Chain Saws < 6 HP	2 Stroke	NOx	0.000034	0.000049	0.000094	0.000112
2260004021	Lawn and Garden Equipment (Com)	Chain Saws < 6 HP	2 Stroke	NOx	0.000144	0.000141	0.000097	0.000113
2260004025	Lawn and Garden Equipment (Res)	Trimmers/Edgers/Brush Cutter	2 Stroke	NOx	0.000084	0.000115	0.000211	0.000252
2260004026	Lawn and Garden Equipment (Com)	Trimmers/Edgers/Brush Cutter	2 Stroke	NOx	0.000069	0.000098	0.000136	0.000158
2260004030	Lawn and Garden Equipment (Res)	Leafblowers/Vacuums	2 Stroke	NOx	0.000050	0.000071	0.000135	0.000161
2260004031	Lawn and Garden Equipment (Com)	Leafblowers/Vacuums	2 Stroke	NOx	0.000109	0.000129	0.000127	0.000146
2260004035	Lawn and Garden Equipment (Res)	Snowblowers	2 Stroke	NOx	0.000000	0.000000	0.000000	0.000000
2260004036	Lawn and Garden Equipment (Com)	Snowblowers	2 Stroke	NOx	0.000000	0.000000	0.000000	0.000000
2260004071	Lawn and Garden Equipment (Com)	Commercial Turf Equipment	2 Stroke	NOx	0.000000	0.000000	0.000000	0.000000
2260005035	Agricultural Equipment	Sprayers	2 Stroke	NOx	0.000003	0.000005	0.000008	0.000009
2260006005	Commercial Equipment	Generator Sets	2 Stroke	NOx	0.000004	0.000008	0.000012	0.000015
2260006010	Commercial Equipment	Pumps	2 Stroke	NOx	0.000034	0.000058	0.000083	0.000102
2260006015	Commercial Equipment	Air Compressors	2 Stroke	NOx	0.000000	0.000000	0.000000	0.000000
2260006035	Commercial Equipment	Hydro Power Units	2 Stroke	NOx	0.000000	0.000000	0.000000	0.000001
2260007005	Logging Equipment	Chain Saws > 6 HP	2 Stroke	NOx	0.000099	0.000096	0.000062	0.000079
2265001010	Recreational Equipment	Motorcycles: Off-Road	4 Stroke	NOx	0.000684	0.000795	0.001011	0.001119
2265001030	Recreational Equipment	ATVs	4 Stroke	NOx	0.006172	0.007485	0.009201	0.008880
2265001050	Recreational Equipment	Golf Carts	4 Stroke	NOx	0.003696	0.003289	0.003133	0.003341
2265001060	Recreational Equipment	Specialty Vehicles/Carts	4 Stroke	NOx	0.000635	0.000653	0.000656	0.000630
2265002003	Construction and Mining Equipment	Pavers	4 Stroke	NOx	0.000084	0.000075	0.000055	0.000041
2265002006	Construction and Mining Equipment	Tampers/Rammers	4 Stroke	NOx	0.000000	0.000000	0.000000	0.000000
2265002009	Construction and Mining Equipment	Plate Compactors	4 Stroke	NOx	0.000100	0.000096	0.000067	0.000063
2265002015	Construction and Mining Equipment	Rollers	4 Stroke	NOx	0.000145	0.000127	0.000088	0.000073
2265002021	Construction and Mining Equipment	Paving Equipment	4 Stroke	NOx	0.000211	0.000197	0.000152	0.000144
2265002024	Construction and Mining Equipment	Surfacing Equipment	4 Stroke	NOx	0.000088	0.000078	0.000062	0.000061
2265002027	Construction and Mining Equipment	Signal Boards/Light Plants	4 Stroke	NOx	0.000004	0.000004	0.000003	0.000003
2265002030	Construction and Mining Equipment	Trenchers	4 Stroke	NOx	0.000255	0.000231	0.000163	0.000120
2265002033	Construction and Mining Equipment	Bore/Drill Rigs	4 Stroke	NOx	0.000080	0.000079	0.000059	0.000044
2265002039	Construction and Mining Equipment	Concrete/Industrial Saws	4 Stroke	NOx	0.000434	0.000379	0.000292	0.000282
2265002042	Construction and Mining Equipment	Cement & Mortar Mixers	4 Stroke	NOx	0.000164	0.000169	0.000142	0.000124
2265002045	Construction and Mining Equipment	Cranes	4 Stroke	NOx	0.000042	0.000040	0.000030	0.000012
2265002054	Construction and Mining Equipment	Crushing/Proc. Equipment	4 Stroke	NOx	0.000028	0.000025	0.000020	0.000018
2265002057	Construction and Mining Equipment	Rough Terrain Forklifts	4 Stroke	NOx	0.000072	0.000068	0.000043	0.000011
2265002060	Construction and Mining Equipment	Rubber Tire Loaders	4 Stroke	NOx	0.000179	0.000165	0.000086	0.000018
2265002066	Construction and Mining Equipment	Tractors/Loaders/Backhoes	4 Stroke	NOx	0.000136	0.000118	0.000098	0.000095
2265002072	Construction and Mining Equipment	Skid Steer Loaders	4 Stroke	NOx	0.000191	0.000179	0.000128	0.000068
2265002078	Construction and Mining Equipment	Dumpers/Tenders	4 Stroke	NOx	0.000027	0.000027	0.000024	0.000021
2265002081	Construction and Mining Equipment	Other Construction Equipment	4 Stroke	NOx	0.000062	0.000060	0.000046	0.000020
2265003010	Industrial Equipment	Aerial Lifts	4 Stroke	NOx	0.001927	0.001670	0.001021	0.000308
2265003020	Industrial Equipment	Forklifts	4 Stroke	NOx	0.008137	0.006849	0.002983	0.000225
2265003030	Industrial Equipment	Sweepers/Scrubbers	4 Stroke	NOx	0.001449	0.001162	0.000408	0.000069
2265003040	Industrial Equipment	Other General Industrial Eqp	4 Stroke	NOx	0.001280	0.001065	0.000488	0.000141
2265003050	Industrial Equipment	Other Material Handling Eqp	4 Stroke	NOx	0.000128	0.000109	0.000066	0.000016
2265003060	Industrial Equipment	AC/Refrigeration	4 Stroke	NOx	0.000012	0.000009	0.000005	0.000002
2265003070	Industrial Equipment	Terminal Tractors	4 Stroke	NOx	0.000840	0.000660	0.000133	0.000017
2265004010	Lawn and Garden Equipment (Res)	Lawn mowers	4 Stroke	NOx	0.003629	0.003903	0.003529	0.002622
2265004011	Lawn and Garden Equipment (Com)	Lawn mowers	4 Stroke	NOx	0.000765	0.000797	0.000521	0.000528
2265004015	Lawn and Garden Equipment (Res)	Rotary Tillers < 6 HP	4 Stroke	NOx	0.000308	0.000331	0.000298	0.000220
2265004016	Lawn and Garden Equipment (Com)	Rotary Tillers < 6 HP	4 Stroke	NOx	0.000386	0.000409	0.000345	0.000272
2265004025	Lawn and Garden Equipment (Res)	Trimmers/Edgers/Brush Cutter	4 Stroke	NOx	0.000021	0.000022	0.000018	0.000014
2265004026	Lawn and Garden Equipment (Com)	Trimmers/Edgers/Brush Cutter	4 Stroke	NOx	0.000020	0.000019	0.000015	0.000016
2265004030	Lawn and Garden Equipment (Res)	Leafblowers/Vacuums	4 Stroke	NOx	0.000040	0.000042	0.000035	0.000028
2265004031	Lawn and Garden Equipment (Com)	Leafblowers/Vacuums	4 Stroke	NOx	0.001309	0.001203	0.000981	0.000817
2265004035	Lawn and Garden Equipment (Res)	Snowblowers	4 Stroke	NOx	0.000000	0.000000	0.000000	0.000000
2265004036	Lawn and Garden Equipment (Com)	Snowblowers	4 Stroke	NOx	0.000000	0.000000	0.000000	0.000000
2265004040	Lawn and Garden Equipment (Res)	Rear Engine Riding Mowers	4 Stroke	NOx	0.000947	0.000921	0.000817	0.000915
2265004041	Lawn and Garden Equipment (Com)	Rear Engine Riding Mowers	4 Stroke	NOx	0.000106	0.000095	0.000089	0.000103
2265004046	Lawn and Garden Equipment (Com)	Front Mowers	4 Stroke	NOx	0.000112	0.000117	0.000112	0.000118
2265004051	Lawn and Garden Equipment (Com)	Shredders < 6 HP	4 Stroke	NOx	0.000044	0.000047	0.000041	0.000031
2265004055	Lawn and Garden Equipment (Res)	Lawn & Garden Tractors	4 Stroke	NOx	0.013004	0.012626	0.011003	0.012267
2265004056	Lawn and Garden Equipment (Com)	Lawn & Garden Tractors	4 Stroke	NOx	0.001482	0.001305	0.001206	0.001404

Appendix D-2: Columbia County Daily Nonroad Emissions by SCC
Tons per Day

SCC	Classification	Equipment Type	Engine Type	Pollutant Code	2002 Emissions	2004 Emissions	2009 Emissions	2018 Emissions
2265004066	Lawn and Garden Equipment (Com)	Chippers/Stump Grinders	4 Stroke	NOx	0.000474	0.000438	0.000275	0.000179
2265004071	Lawn and Garden Equipment (Com)	Commercial Turf Equipment	4 Stroke	NOx	0.005190	0.004722	0.003599	0.003963
2265004075	Lawn and Garden Equipment (Res)	Other Lawn & Garden Eqp.	4 Stroke	NOx	0.000357	0.000383	0.000376	0.000335
2265004076	Lawn and Garden Equipment (Com)	Other Lawn & Garden Eqp.	4 Stroke	NOx	0.000115	0.000124	0.000121	0.000108
2265005010	Agricultural Equipment	2-Wheel Tractors	4 Stroke	NOx	0.000049	0.000042	0.000039	0.000045
2265005015	Agricultural Equipment	Agricultural Tractors	4 Stroke	NOx	0.000543	0.000509	0.000297	0.000101
2265005020	Agricultural Equipment	Combines	4 Stroke	NOx	0.000004	0.000004	0.000004	0.000002
2265005025	Agricultural Equipment	Balers	4 Stroke	NOx	0.000386	0.000385	0.000335	0.000228
2265005030	Agricultural Equipment	Agricultural Mowers	4 Stroke	NOx	0.000040	0.000039	0.000034	0.000037
2265005035	Agricultural Equipment	Sprayers	4 Stroke	NOx	0.000628	0.000640	0.000571	0.000461
2265005040	Agricultural Equipment	Tillers > 6 HP	4 Stroke	NOx	0.000602	0.000638	0.000710	0.000835
2265005045	Agricultural Equipment	Swathers	4 Stroke	NOx	0.000612	0.000610	0.000531	0.000361
2265005055	Agricultural Equipment	Other Agricultural Equipment	4 Stroke	NOx	0.000731	0.000729	0.000637	0.000457
2265005060	Agricultural Equipment	Irrigation Sets	4 Stroke	NOx	0.001064	0.000985	0.000446	0.000128
2265006005	Commercial Equipment	Generator Sets	4 Stroke	NOx	0.005455	0.005534	0.005171	0.005982
2265006010	Commercial Equipment	Pumps	4 Stroke	NOx	0.001651	0.001615	0.001288	0.001301
2265006015	Commercial Equipment	Air Compressors	4 Stroke	NOx	0.001138	0.001101	0.000833	0.000653
2265006025	Commercial Equipment	Welders	4 Stroke	NOx	0.002054	0.001937	0.001718	0.001670
2265006030	Commercial Equipment	Pressure Washers	4 Stroke	NOx	0.002406	0.002370	0.001996	0.002339
2265006035	Commercial Equipment	Hydro Power Units	4 Stroke	NOx	0.000120	0.000112	0.000102	0.000122
2265007010	Logging Equipment	Shredders > 6 HP	4 Stroke	NOx	0.000278	0.000304	0.000326	0.000365
2265007015	Logging Equipment	Forest Eqp - Feller/Bunch/Skidder	4 Stroke	NOx	0.000003	0.000003	0.000002	0.000003
2265008005	Airport Equipment	Airport Ground Support Equipment	4 Stroke	NOx	0.000001	0.000001	0.000000	0.000000
2265010010	Industrial Equipment	Other Oil Field Equipment	4 Stroke	NOx	0.000000	0.000000	0.000000	0.000000
2267001060	Recreational Equipment	Specialty Vehicle Carts	LPG	NOx	0.000257	0.000253	0.000214	0.000139
2267002003	Construction and Mining Equipment	Pavers	LPG	NOx	0.000055	0.000053	0.000031	0.000009
2267002015	Construction and Mining Equipment	Rollers	LPG	NOx	0.000093	0.000086	0.000037	0.000010
2267002021	Construction and Mining Equipment	Paving Equipment	LPG	NOx	0.000015	0.000014	0.000011	0.000005
2267002024	Construction and Mining Equipment	Surfacing Equipment	LPG	NOx	0.000010	0.000009	0.000005	0.000001
2267002030	Construction and Mining Equipment	Trenchers	LPG	NOx	0.000170	0.000162	0.000098	0.000026
2267002033	Construction and Mining Equipment	Bore/Drill Rigs	LPG	NOx	0.000056	0.000056	0.000049	0.000032
2267002039	Construction and Mining Equipment	Concrete/Industrial Saws	LPG	NOx	0.000162	0.000142	0.000043	0.000017
2267002045	Construction and Mining Equipment	Cranes	LPG	NOx	0.000060	0.000059	0.000045	0.000018
2267002054	Construction and Mining Equipment	Crushing/Proc. Equipment	LPG	NOx	0.000010	0.000010	0.000007	0.000003
2267002057	Construction and Mining Equipment	Rough Terrain Forklifts	LPG	NOx	0.000108	0.000104	0.000070	0.000019
2267002060	Construction and Mining Equipment	Rubber Tire Loaders	LPG	NOx	0.000268	0.000254	0.000139	0.000031
2267002066	Construction and Mining Equipment	Tractors/Loaders/Backhoes	LPG	NOx	0.000028	0.000027	0.000012	0.000003
2267002072	Construction and Mining Equipment	Skid Steer Loaders	LPG	NOx	0.000222	0.000217	0.000157	0.000064
2267002081	Construction and Mining Equipment	Other Construction Equipment	LPG	NOx	0.000089	0.000088	0.000070	0.000032
2267003010	Industrial Equipment	Aerial Lifts	LPG	NOx	0.003194	0.003195	0.002524	0.001228
2267003020	Industrial Equipment	Forklifts	LPG	NOx	0.301078	0.289937	0.163217	0.038071
2267003030	Industrial Equipment	Sweepers/Scrubbers	LPG	NOx	0.002297	0.002121	0.000852	0.000272
2267003040	Industrial Equipment	Other General Industrial Equipm	LPG	NOx	0.000703	0.000663	0.000320	0.000084
2267003050	Industrial Equipment	Other Material Handling Equipment	LPG	NOx	0.000173	0.000172	0.000134	0.000050
2267003070	Industrial Equipment	Terminal Tractors	LPG	NOx	0.001403	0.001263	0.000354	0.000158
2267004066	Lawn and Garden Equipment (Com)	Chippers/Stump Grinders	LPG	NOx	0.000470	0.000441	0.000219	0.000052
2267005055	Agricultural Equipment	Other Agricultural Equipment	LPG	NOx	0.000013	0.000012	0.000010	0.000007
2267005060	Agricultural Equipment	Irrigation Sets	LPG	NOx	0.000011	0.000010	0.000004	0.000001
2267006005	Commercial Equipment	Generator Sets	LPG	NOx	0.003270	0.003439	0.003155	0.002276
2267006010	Commercial Equipment	Pumps	LPG	NOx	0.000761	0.000782	0.000608	0.000305
2267006015	Commercial Equipment	Air Compressors	LPG	NOx	0.000918	0.000928	0.000635	0.000195
2267006025	Commercial Equipment	Welders	LPG	NOx	0.001145	0.001172	0.000842	0.000251
2267006030	Commercial Equipment	Pressure Washers	LPG	NOx	0.000015	0.000016	0.000013	0.000007
2267006035	Commercial Equipment	Hydro Power Units	LPG	NOx	0.000014	0.000014	0.000008	0.000003
2267008005	Airport Equipment	Airport Ground Support Equipment	LPG	NOx	0.000001	0.000001	0.000001	0.000000
2268002081	Construction and Mining Equipment	Other Construction Equipment	CNG	NOx	0.000004	0.000003	0.000003	0.000001
2268003020	Industrial Equipment	Forklifts	CNG	NOx	0.021921	0.020918	0.011693	0.002731
2268003030	Industrial Equipment	Sweepers/Scrubbers	CNG	NOx	0.000026	0.000025	0.000014	0.000003
2268003040	Industrial Equipment	Other General Industrial Equipment	CNG	NOx	0.000017	0.000016	0.000008	0.000002
2268003060	Industrial Equipment	AC/Refrigeration	CNG	NOx	0.000022	0.000020	0.000009	0.000003
2268003070	Industrial Equipment	Terminal Tractors	CNG	NOx	0.000099	0.000088	0.000025	0.000011
2268005055	Agricultural Equipment	Other Agricultural Equipment	CNG	NOx	0.000016	0.000013	0.000007	0.000002
2268005060	Agricultural Equipment	Irrigation Sets	CNG	NOx	0.001215	0.000700	0.000079	0.000000
2268006005	Commercial Equipment	Generator Sets	CNG	NOx	0.001072	0.001092	0.000975	0.000692
2268006010	Commercial Equipment	Pumps	CNG	NOx	0.000054	0.000054	0.000043	0.000023
2268006015	Commercial Equipment	Air Compressors	CNG	NOx	0.000077	0.000075	0.000051	0.000014
2268006020	Commercial Equipment	Gas Compressors	CNG	NOx	0.002839	0.000996	0.000292	0.000365
2268006035	Commercial Equipment	Hydro Power Units	CNG	NOx	0.000000	0.000000	0.000000	0.000000
2268010010	Industrial Equipment	Other Oil Field Equipment	CNG	NOx	0.000000	0.000000	0.000000	0.000000
2270001060	Recreational Equipment	Specialty Vehicle Carts	Diesel	NOx	0.002658	0.002691	0.002665	0.002176
2270002003	Construction and Mining Equipment	Pavers	Diesel	NOx	0.004470	0.004266	0.003641	0.001667
2270002006	Construction and Mining Equipment	Tampers/Rammers	Diesel	NOx	0.000010	0.000010	0.000008	0.000007
2270002009	Construction and Mining Equipment	Plate Compactors	Diesel	NOx	0.000153	0.000149	0.000129	0.000115
2270002015	Construction and Mining Equipment	Rollers	Diesel	NOx	0.011092	0.010710	0.009404	0.004745
2270002018	Construction and Mining Equipment	Scrapers	Diesel	NOx	0.012841	0.012341	0.010265	0.004496

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2270002021	Construction and Mining Equipment	Paving Equipment	Diesel	NOx	0.000707	0.000683	0.000592	0.000337
2270002024	Construction and Mining Equipment	Surfacing Equipment	Diesel	NOx	0.000476	0.000468	0.000428	0.000292
2270002027	Construction and Mining Equipment	Signal Boards/Light Plants	Diesel	NOx	0.001339	0.001308	0.001189	0.001114
2270002030	Construction and Mining Equipment	Trenchers	Diesel	NOx	0.005160	0.005100	0.004745	0.003310
2270002033	Construction and Mining Equipment	Bore/Drill Rigs	Diesel	NOx	0.006126	0.006071	0.005609	0.003945
2270002036	Construction and Mining Equipment	Excavators	Diesel	NOx	0.044334	0.041762	0.034279	0.011751
2270002039	Construction and Mining Equipment	Concrete/Industrial Saws	Diesel	NOx	0.000347	0.000342	0.000326	0.000239
2270002042	Construction and Mining Equipment	Cement & Mortar Mixers	Diesel	NOx	0.000230	0.000230	0.000217	0.000167
2270002045	Construction and Mining Equipment	Cranes	Diesel	NOx	0.012074	0.011596	0.009726	0.004509
2270002048	Construction and Mining Equipment	Graders	Diesel	NOx	0.011265	0.010539	0.008629	0.002928
2270002051	Construction and Mining Equipment	Off-highway Trucks	Diesel	NOx	0.041816	0.040461	0.033860	0.016746
2270002054	Construction and Mining Equipment	Crushing/Proc. Equipment	Diesel	NOx	0.002120	0.002057	0.001782	0.000995
2270002057	Construction and Mining Equipment	Rough Terrain Forklifts	Diesel	NOx	0.014171	0.013992	0.012649	0.006575
2270002060	Construction and Mining Equipment	Rubber Tire Loaders	Diesel	NOx	0.054288	0.052429	0.045216	0.022846
2270002066	Construction and Mining Equipment	Tractors/Loaders/Backhoes	Diesel	NOx	0.032982	0.032639	0.030559	0.020220
2270002069	Construction and Mining Equipment	Crawler Tractor/Dozers	Diesel	NOx	0.047702	0.045631	0.038484	0.016905
2270002072	Construction and Mining Equipment	Skid Steer Loaders	Diesel	NOx	0.021147	0.021333	0.020877	0.017044
2270002075	Construction and Mining Equipment	Off-Highway Tractors	Diesel	NOx	0.005758	0.005634	0.004959	0.002919
2270002078	Construction and Mining Equipment	Dumpers/Tenders	Diesel	NOx	0.000068	0.000069	0.000067	0.000056
2270002081	Construction and Mining Equipment	Other Construction Equipment	Diesel	NOx	0.005591	0.005443	0.004780	0.002798
2270003010	Industrial Equipment	Aerial Lifts	Diesel	NOx	0.003321	0.003330	0.003214	0.002695
2270003020	Industrial Equipment	Forklifts	Diesel	NOx	0.035050	0.034731	0.029744	0.011121
2270003030	Industrial Equipment	Sweepers/Scrubbers	Diesel	NOx	0.018582	0.017776	0.015435	0.006478
2270003040	Industrial Equipment	Other General Industrial Eqp	Diesel	NOx	0.021163	0.020486	0.017525	0.008710
2270003050	Industrial Equipment	Other Material Handling Eqp	Diesel	NOx	0.000979	0.000966	0.000888	0.000626
2270003060	Industrial Equipment	AC/Refrigeration	Diesel	NOx	0.024743	0.024535	0.023383	0.019233
2270003070	Industrial Equipment	Terminal Tractors	Diesel	NOx	0.023980	0.023016	0.018610	0.005167
2270004031	Lawn and Garden Equipment (Com)	Leafblowers/Vacuums	Diesel	NOx	0.000000	0.000000	0.000000	0.000000
2270004036	Lawn and Garden Equipment (Com)	Snowblowers	Diesel	NOx	0.000000	0.000000	0.000000	0.000000
2270004046	Lawn and Garden Equipment (Com)	Front Mowers	Diesel	NOx	0.002142	0.002215	0.002300	0.002341
2270004056	Lawn and Garden Equipment (Com)	Lawn & Garden Tractors	Diesel	NOx	0.000473	0.000475	0.000460	0.000506
2270004066	Lawn and Garden Equipment (Com)	Chippers/Stump Grinders	Diesel	NOx	0.003201	0.003358	0.003496	0.002741
2270004071	Lawn and Garden Equipment (Com)	Commercial Turf Equipment	Diesel	NOx	0.000323	0.000324	0.000325	0.000221
2270004076	Lawn and Garden Equipment (Com)	Other Lawn & Garden Eqp.	Diesel	NOx	0.000008	0.000009	0.000009	0.000009
2270005010	Agricultural Equipment	2-Wheel Tractors	Diesel	NOx	0.000012	0.000011	0.000008	0.000009
2270005015	Agricultural Equipment	Agricultural Tractors	Diesel	NOx	0.504590	0.489136	0.438925	0.278982
2270005020	Agricultural Equipment	Combines	Diesel	NOx	0.051160	0.050260	0.045866	0.031210
2270005025	Agricultural Equipment	Balers	Diesel	NOx	0.000219	0.000222	0.000220	0.000180
2270005030	Agricultural Equipment	Agricultural Mowers	Diesel	NOx	0.000047	0.000046	0.000043	0.000030
2270005035	Agricultural Equipment	Sprayers	Diesel	NOx	0.003626	0.003642	0.003509	0.002539
2270005040	Agricultural Equipment	Tillers > 6 HP	Diesel	NOx	0.000006	0.000006	0.000006	0.000004
2270005045	Agricultural Equipment	Swathers	Diesel	NOx	0.003582	0.003551	0.003337	0.002439
2270005055	Agricultural Equipment	Other Agricultural Equipment	Diesel	NOx	0.010541	0.010303	0.009255	0.006043
2270005060	Agricultural Equipment	Irrigation Sets	Diesel	NOx	0.006611	0.006540	0.005909	0.003297
2270006005	Commercial Equipment	Generator Sets	Diesel	NOx	0.014236	0.014618	0.014824	0.012414
2270006010	Commercial Equipment	Pumps	Diesel	NOx	0.003389	0.003480	0.003512	0.002893
2270006015	Commercial Equipment	Air Compressors	Diesel	NOx	0.008554	0.008689	0.008327	0.005292
2270006020	Commercial Equipment	Gas Compressors	Diesel	NOx	0.000000	0.000000	0.000000	0.000000
2270006025	Commercial Equipment	Welders	Diesel	NOx	0.004142	0.004275	0.004422	0.003972
2270006030	Commercial Equipment	Pressure Washers	Diesel	NOx	0.000476	0.000488	0.000493	0.000416
2270006035	Commercial Equipment	Hydro Power Units	Diesel	NOx	0.000370	0.000374	0.000360	0.000246
2270007010	Logging Equipment	Shredders > 6 HP	Diesel	NOx	0.000000	0.000000	0.000000	0.000000
2270007015	Logging Equipment	Forest Eqp - Feller/Bunch/Skidder	Diesel	NOx	0.019636	0.017359	0.011620	0.002434
2270008005	Airport Equipment	Airport Ground Support Equipment	Diesel	NOx	0.000037	0.000036	0.000033	0.000018
2270009010	Construction and Mining Equipment	Other Underground Mining Equipment	Diesel	NOx	0.000000	0.000000	0.000000	0.000000
2270010010	Industrial Equipment	Other Oil Field Equipment	Diesel	NOx	0.000000	0.000000	0.000000	0.000000
2275000000	Aircraft	All Aircraft Types and Operations	Other	NOx	0.001724	0.001690	0.001828	0.002155
2275070000	Aircraft	Auxiliary Power Units	Other	NOx	0.000000	0.000000	0.000000	0.000000
2280000000	Marine Vessels	Commercial	All Fuels	NOx	0.000000	0.000000	0.000000	0.000000
2280001000	Marine Vessels	Commercial	Coal	NOx	0.000000	0.000000	0.000000	0.000000
2280002000	Marine Vessels	Commercial	Diesel	NOx	0.000000	0.000000	0.000000	0.000000
2280003000	Marine Vessels	Commercial	Residual Fuel	NOx	0.000000	0.000000	0.000000	0.000000
2280004000	Marine Vessels	Commercial	Gasoline	NOx	0.000000	0.000000	0.000000	0.000000
2282005010	Pleasure Craft	Outboard	2 Stroke	NOx	0.005471	0.006601	0.009685	0.013802
2282005015	Pleasure Craft	Personal Water Craft	2 Stroke	NOx	0.001532	0.002024	0.003163	0.004084
2282010005	Pleasure Craft	Inboard/Sterndrive	4 Stroke	NOx	0.012149	0.012803	0.014630	0.017796
2282020005	Pleasure Craft	Inboard/Sterndrive	Diesel	NOx	0.016100	0.017006	0.018138	0.019137
2282020010	Pleasure Craft	Outboards	Diesel	NOx	0.000061	0.000062	0.000065	0.000068
2285002005	Railroad Equipment	Line Haul Locomotives	Diesel	NOx	0.154579	0.139879	0.116862	0.101296
2285002010	Railroad Equipment	Yard Locomotive	Diesel	NOx	0.000000	0.000000	0.000000	0.000000
2285002015	Railroad Equipment	Railway Maintenance	Diesel	NOx	0.000183	0.000184	0.000176	0.000127
2285004015	Railroad Equipment	Railway Maintenance	4 Stroke	NOx	0.000003	0.000003	0.000002	0.000002
2285006015	Railroad Equipment	Railway Maintenance	LPG	NOx	0.000000	0.000000	0.000000	0.000000

Appendix D-2: Columbia County Daily Nonroad Emissions by SCC
Tons per Day

SCC	Classification	Equipment Type	Engine Type	Pollutant Code	2002 Emissions	2004 Emissions	2009 Emissions	2018 Emissions
2260001010	Recreational Equipment	Motorcycles: Off-Road	2 Stroke	VOC	0.209024	0.242721	0.278203	0.225229
2260001020	Recreational Equipment	Snowmobiles	2 Stroke	VOC	0.000000	0.000000	0.000000	0.000000
2260001030	Recreational Equipment	ATVs	2 Stroke	VOC	0.208757	0.288230	0.346393	0.141654
2260001060	Recreational Equipment	Specialty Vehicles/Carts	2 Stroke	VOC	0.005019	0.004748	0.004210	0.004345
2260002006	Construction and Mining Equipment	Tampers/Rammers	2 Stroke	VOC	0.003967	0.003799	0.001723	0.001710
2260002009	Construction and Mining Equipment	Plate Compactors	2 Stroke	VOC	0.000241	0.000147	0.000062	0.000064
2260002021	Construction and Mining Equipment	Paving Equipment	2 Stroke	VOC	0.000287	0.000170	0.000073	0.000075
2260002027	Construction and Mining Equipment	Signal Boards/Light Plants	2 Stroke	VOC	0.000002	0.000001	0.000001	0.000001
2260002039	Construction and Mining Equipment	Concrete/Industrial Saws	2 Stroke	VOC	0.010556	0.008691	0.004223	0.004327
2260002054	Construction and Mining Equipment	Crushing/Proc. Equipment	2 Stroke	VOC	0.000053	0.000028	0.000015	0.000015
2260003030	Industrial Equipment	Sweepers/Scrubbers	2 Stroke	VOC	0.000347	0.000162	0.000062	0.000022
2260003040	Industrial Equipment	Other General Industrial Eqp	2 Stroke	VOC	0.000028	0.000013	0.000005	0.000002
2260004015	Lawn and Garden Equipment (Res)	Rotary Tillers < 6 HP	2 Stroke	VOC	0.001717	0.001504	0.000730	0.000637
2260004016	Lawn and Garden Equipment (Com)	Rotary Tillers < 6 HP	2 Stroke	VOC	0.001872	0.001543	0.000521	0.000512
2260004020	Lawn and Garden Equipment (Res)	Chain Saws < 6 HP	2 Stroke	VOC	0.013967	0.011741	0.004847	0.005049
2260004021	Lawn and Garden Equipment (Com)	Chain Saws < 6 HP	2 Stroke	VOC	0.014113	0.012122	0.006109	0.007118
2260004025	Lawn and Garden Equipment (Res)	Trimmers/Edgers/Brush Cutter	2 Stroke	VOC	0.032891	0.027898	0.012133	0.012753
2260004026	Lawn and Garden Equipment (Com)	Trimmers/Edgers/Brush Cutter	2 Stroke	VOC	0.017765	0.012953	0.004979	0.005767
2260004030	Lawn and Garden Equipment (Res)	Leafblowers/Vacuums	2 Stroke	VOC	0.022519	0.019404	0.009671	0.010422
2260004031	Lawn and Garden Equipment (Com)	Leafblowers/Vacuums	2 Stroke	VOC	0.017041	0.013770	0.005805	0.006642
2260004035	Lawn and Garden Equipment (Res)	Snowblowers	2 Stroke	VOC	0.002979	0.003104	0.003416	0.003981
2260004036	Lawn and Garden Equipment (Com)	Snowblowers	2 Stroke	VOC	0.000078	0.000082	0.000090	0.000105
2260004071	Lawn and Garden Equipment (Com)	Commercial Turf Equipment	2 Stroke	VOC	0.000008	0.000005	0.000002	0.000002
2260005035	Agricultural Equipment	Sprayers	2 Stroke	VOC	0.001164	0.000849	0.000302	0.000337
2260006005	Commercial Equipment	Generator Sets	2 Stroke	VOC	0.001509	0.001003	0.000454	0.000563
2260006010	Commercial Equipment	Pumps	2 Stroke	VOC	0.010272	0.005983	0.003201	0.003863
2260006015	Commercial Equipment	Air Compressors	2 Stroke	VOC	0.000004	0.000002	0.000001	0.000001
2260006035	Commercial Equipment	Hydro Power Units	2 Stroke	VOC	0.000057	0.000031	0.000019	0.000023
2260007005	Logging Equipment	Chain Saws > 6 HP	2 Stroke	VOC	0.008575	0.008117	0.004343	0.005500
2265001010	Recreational Equipment	Motorcycles: Off-Road	4 Stroke	VOC	0.008675	0.009781	0.011729	0.011366
2265001030	Recreational Equipment	ATVs	4 Stroke	VOC	0.089398	0.105200	0.130360	0.127077
2265001050	Recreational Equipment	Golf Carts	4 Stroke	VOC	0.015130	0.013538	0.012948	0.013804
2265001060	Recreational Equipment	Specialty Vehicles/Carts	4 Stroke	VOC	0.005315	0.005169	0.004750	0.004119
2265002003	Construction and Mining Equipment	Pavers	4 Stroke	VOC	0.000217	0.000192	0.000146	0.000135
2265002006	Construction and Mining Equipment	Tampers/Rammers	4 Stroke	VOC	0.000002	0.000002	0.000001	0.000001
2265002009	Construction and Mining Equipment	Plate Compactors	4 Stroke	VOC	0.000846	0.000827	0.000520	0.000437
2265002015	Construction and Mining Equipment	Rollers	4 Stroke	VOC	0.000352	0.000306	0.000249	0.000239
2265002021	Construction and Mining Equipment	Paving Equipment	4 Stroke	VOC	0.001237	0.001149	0.000804	0.000761
2265002024	Construction and Mining Equipment	Surfacing Equipment	4 Stroke	VOC	0.000438	0.000405	0.000273	0.000277
2265002027	Construction and Mining Equipment	Signal Boards/Light Plants	4 Stroke	VOC	0.000030	0.000029	0.000017	0.000017
2265002030	Construction and Mining Equipment	Trenchers	4 Stroke	VOC	0.000865	0.000803	0.000513	0.000480
2265002033	Construction and Mining Equipment	Bore/Drill Rigs	4 Stroke	VOC	0.000523	0.000520	0.000344	0.000273
2265002039	Construction and Mining Equipment	Concrete/Industrial Saws	4 Stroke	VOC	0.001257	0.001090	0.000945	0.000952
2265002042	Construction and Mining Equipment	Cement & Mortar Mixers	4 Stroke	VOC	0.001382	0.001279	0.001042	0.000846
2265002045	Construction and Mining Equipment	Cranes	4 Stroke	VOC	0.000045	0.000043	0.000033	0.000016
2265002054	Construction and Mining Equipment	Crushing/Proc. Equipment	4 Stroke	VOC	0.000115	0.000106	0.000073	0.000072
2265002057	Construction and Mining Equipment	Rough Terrain Forklifts	4 Stroke	VOC	0.000066	0.000062	0.000040	0.000009
2265002060	Construction and Mining Equipment	Rubber Tire Loaders	4 Stroke	VOC	0.000158	0.000145	0.000075	0.000010
2265002066	Construction and Mining Equipment	Tractors/Loaders/Backhoes	4 Stroke	VOC	0.000428	0.000369	0.000321	0.000323
2265002072	Construction and Mining Equipment	Skid Steer Loaders	4 Stroke	VOC	0.000308	0.000281	0.000214	0.000156
2265002078	Construction and Mining Equipment	Dumpers/Tenders	4 Stroke	VOC	0.000198	0.000183	0.000151	0.000132
2265002081	Construction and Mining Equipment	Other Construction Equipment	4 Stroke	VOC	0.000058	0.000056	0.000043	0.000018
2265003010	Industrial Equipment	Aerial Lifts	4 Stroke	VOC	0.002704	0.002279	0.001383	0.000438
2265003020	Industrial Equipment	Forklifts	4 Stroke	VOC	0.007048	0.005951	0.002581	0.000139
2265003030	Industrial Equipment	Sweepers/Scrubbers	4 Stroke	VOC	0.002239	0.001810	0.000730	0.000184
2265003040	Industrial Equipment	Other General Industrial Eqp	4 Stroke	VOC	0.007803	0.006761	0.002452	0.000838
2265003050	Industrial Equipment	Other Material Handling Eqp	4 Stroke	VOC	0.000193	0.000160	0.000096	0.000027
2265003060	Industrial Equipment	AC/Refrigeration	4 Stroke	VOC	0.000051	0.000039	0.000024	0.000009
2265003070	Industrial Equipment	Terminal Tractors	4 Stroke	VOC	0.000732	0.000577	0.000101	0.000008
2265004010	Lawn and Garden Equipment (Res)	Lawn mowers	4 Stroke	VOC	0.069608	0.069670	0.067088	0.055712
2265004011	Lawn and Garden Equipment (Com)	Lawn mowers	4 Stroke	VOC	0.009223	0.009612	0.005544	0.005201
2265004015	Lawn and Garden Equipment (Res)	Rotary Tillers < 6 HP	4 Stroke	VOC	0.005769	0.005809	0.005544	0.004436
2265004016	Lawn and Garden Equipment (Com)	Rotary Tillers < 6 HP	4 Stroke	VOC	0.004402	0.004365	0.003704	0.002344
2265004025	Lawn and Garden Equipment (Res)	Trimmers/Edgers/Brush Cutter	4 Stroke	VOC	0.000366	0.000376	0.000348	0.000294
2265004026	Lawn and Garden Equipment (Com)	Trimmers/Edgers/Brush Cutter	4 Stroke	VOC	0.000153	0.000154	0.000100	0.000093
2265004030	Lawn and Garden Equipment (Res)	Leafblowers/Vacuums	4 Stroke	VOC	0.000774	0.000796	0.000743	0.000644
2265004031	Lawn and Garden Equipment (Com)	Leafblowers/Vacuums	4 Stroke	VOC	0.003077	0.002738	0.002293	0.002332
2265004035	Lawn and Garden Equipment (Res)	Snowblowers	4 Stroke	VOC	0.006056	0.006311	0.006946	0.008092
2265004036	Lawn and Garden Equipment (Com)	Snowblowers	4 Stroke	VOC	0.000176	0.000183	0.000202	0.000235
2265004040	Lawn and Garden Equipment (Res)	Rear Engine Riding Mowers	4 Stroke	VOC	0.007925	0.007901	0.007911	0.009064
2265004041	Lawn and Garden Equipment (Com)	Rear Engine Riding Mowers	4 Stroke	VOC	0.000361	0.000321	0.000297	0.000346
2265004046	Lawn and Garden Equipment (Com)	Front Mowers	4 Stroke	VOC	0.000608	0.000581	0.000522	0.000540
2265004051	Lawn and Garden Equipment (Com)	Shredders < 6 HP	4 Stroke	VOC	0.000543	0.000529	0.000464	0.000298
2265004055	Lawn and Garden Equipment (Res)	Lawn & Garden Tractors	4 Stroke	VOC	0.088942	0.087277	0.084227	0.095939
2265004056	Lawn and Garden Equipment (Com)	Lawn & Garden Tractors	4 Stroke	VOC	0.004861	0.004218	0.003799	0.004421

Appendix D-2: Columbia County Daily Nonroad Emissions by SCC
Tons per Day

SCC	Classification	Equipment Type	Engine Type	Pollutant Code	2002 Emissions	2004 Emissions	2009 Emissions	2018 Emissions
2265004066	Lawn and Garden Equipment (Com)	Chippers/Stump Grinders	4 Stroke	VOC	0.000741	0.000669	0.000508	0.000459
2265004071	Lawn and Garden Equipment (Com)	Commercial Turf Equipment	4 Stroke	VOC	0.017941	0.016995	0.013904	0.014628
2265004075	Lawn and Garden Equipment (Res)	Other Lawn & Garden Eqp.	4 Stroke	VOC	0.004373	0.004271	0.003993	0.003385
2265004076	Lawn and Garden Equipment (Com)	Other Lawn & Garden Eqp.	4 Stroke	VOC	0.001271	0.001233	0.001132	0.000915
2265005010	Agricultural Equipment	2-Wheel Tractors	4 Stroke	VOC	0.000172	0.000148	0.000137	0.000155
2265005015	Agricultural Equipment	Agricultural Tractors	4 Stroke	VOC	0.000557	0.000514	0.000322	0.000151
2265005020	Agricultural Equipment	Combines	4 Stroke	VOC	0.000004	0.000004	0.000004	0.000003
2265005025	Agricultural Equipment	Balers	4 Stroke	VOC	0.000473	0.000477	0.000428	0.000292
2265005030	Agricultural Equipment	Agricultural Mowers	4 Stroke	VOC	0.000179	0.000162	0.000135	0.000142
2265005035	Agricultural Equipment	Sprayers	4 Stroke	VOC	0.002658	0.002588	0.002199	0.001790
2265005040	Agricultural Equipment	Tillers > 6 HP	4 Stroke	VOC	0.005087	0.005049	0.004858	0.004339
2265005045	Agricultural Equipment	Swathers	4 Stroke	VOC	0.000667	0.000671	0.000597	0.000407
2265005055	Agricultural Equipment	Other Agricultural Equipment	4 Stroke	VOC	0.001006	0.000980	0.000848	0.000678
2265005060	Agricultural Equipment	Irrigation Sets	4 Stroke	VOC	0.001019	0.000955	0.000422	0.000129
2265006005	Commercial Equipment	Generator Sets	4 Stroke	VOC	0.034059	0.033658	0.030513	0.034689
2265006010	Commercial Equipment	Pumps	4 Stroke	VOC	0.009194	0.009396	0.005942	0.006972
2265006015	Commercial Equipment	Air Compressors	4 Stroke	VOC	0.003674	0.003687	0.002561	0.002881
2265006025	Commercial Equipment	Welders	4 Stroke	VOC	0.005855	0.005491	0.005216	0.006001
2265006030	Commercial Equipment	Pressure Washers	4 Stroke	VOC	0.016590	0.016804	0.012824	0.014134
2265006035	Commercial Equipment	Hydro Power Units	4 Stroke	VOC	0.000574	0.000558	0.000458	0.000565
2265007010	Logging Equipment	Shredders > 6 HP	4 Stroke	VOC	0.001785	0.001733	0.001617	0.001763
2265007015	Logging Equipment	Forest Eq - Feller/Bunch/Skidder	4 Stroke	VOC	0.000028	0.000029	0.000016	0.000020
2265008005	Airport Equipment	Airport Ground Support Equipment	4 Stroke	VOC	0.000001	0.000001	0.000000	0.000000
2265010010	Industrial Equipment	Other Oil Field Equipment	4 Stroke	VOC	0.000000	0.000000	0.000000	0.000000
2267001060	Recreational Equipment	Specialty Vehicle Carts	LPG	VOC	0.000070	0.000069	0.000059	0.000038
2267002003	Construction and Mining Equipment	Pavers	LPG	VOC	0.000015	0.000015	0.000009	0.000002
2267002015	Construction and Mining Equipment	Rollers	LPG	VOC	0.000026	0.000024	0.000010	0.000002
2267002021	Construction and Mining Equipment	Paving Equipment	LPG	VOC	0.000004	0.000004	0.000003	0.000001
2267002024	Construction and Mining Equipment	Surfacing Equipment	LPG	VOC	0.000003	0.000002	0.000001	0.000000
2267002030	Construction and Mining Equipment	Trenchers	LPG	VOC	0.000046	0.000045	0.000028	0.000006
2267002033	Construction and Mining Equipment	Bore/Drill Rigs	LPG	VOC	0.000015	0.000015	0.000013	0.000009
2267002039	Construction and Mining Equipment	Concrete/Industrial Saws	LPG	VOC	0.000045	0.000040	0.000012	0.000003
2267002045	Construction and Mining Equipment	Cranes	LPG	VOC	0.000016	0.000016	0.000013	0.000005
2267002054	Construction and Mining Equipment	Crushing/Proc. Equipment	LPG	VOC	0.000003	0.000003	0.000002	0.000001
2267002057	Construction and Mining Equipment	Rough Terrain Forklifts	LPG	VOC	0.000029	0.000029	0.000019	0.000004
2267002060	Construction and Mining Equipment	Rubber Tire Loaders	LPG	VOC	0.000073	0.000070	0.000039	0.000005
2267002066	Construction and Mining Equipment	Tractors/Loaders/Backhoes	LPG	VOC	0.000008	0.000007	0.000003	0.000000
2267002072	Construction and Mining Equipment	Skid Steer Loaders	LPG	VOC	0.000060	0.000059	0.000044	0.000016
2267002081	Construction and Mining Equipment	Other Construction Equipment	LPG	VOC	0.000024	0.000024	0.000019	0.000009
2267003010	Industrial Equipment	Aerial Lifts	LPG	VOC	0.000860	0.000866	0.000697	0.000324
2267003020	Industrial Equipment	Forklifts	LPG	VOC	0.082092	0.079774	0.046105	0.006543
2267003030	Industrial Equipment	Sweepers/Scrubbers	LPG	VOC	0.000632	0.000591	0.000238	0.000044
2267003040	Industrial Equipment	Other General Industrial Equipm	LPG	VOC	0.000192	0.000183	0.000090	0.000014
2267003050	Industrial Equipment	Other Material Handling Equipment	LPG	VOC	0.000047	0.000047	0.000037	0.000013
2267003070	Industrial Equipment	Terminal Tractors	LPG	VOC	0.000387	0.000353	0.000098	0.000024
2267004066	Lawn and Garden Equipment (Com)	Chippers/Stump Grinders	LPG	VOC	0.000129	0.000122	0.000062	0.000009
2267005055	Agricultural Equipment	Other Agricultural Equipment	LPG	VOC	0.000003	0.000003	0.000003	0.000002
2267005060	Agricultural Equipment	Irrigation Sets	LPG	VOC	0.000003	0.000003	0.000001	0.000000
2267006005	Commercial Equipment	Generator Sets	LPG	VOC	0.000664	0.000700	0.000649	0.000469
2267006010	Commercial Equipment	Pumps	LPG	VOC	0.000157	0.000161	0.000126	0.000059
2267006015	Commercial Equipment	Air Compressors	LPG	VOC	0.000190	0.000193	0.000132	0.000033
2267006025	Commercial Equipment	Welders	LPG	VOC	0.000308	0.000318	0.000235	0.000052
2267006030	Commercial Equipment	Pressure Washers	LPG	VOC	0.000004	0.000004	0.000004	0.000002
2267006035	Commercial Equipment	Hydro Power Units	LPG	VOC	0.000003	0.000003	0.000002	0.000000
2267008005	Airport Equipment	Airport Ground Support Equipment	LPG	VOC	0.000000	0.000000	0.000000	0.000000
2268002081	Construction and Mining Equipment	Other Construction Equipment	CNG	VOC	0.000000	0.000000	0.000000	0.000000
2268003020	Industrial Equipment	Forklifts	CNG	VOC	0.000353	0.000339	0.000195	0.000028
2268003030	Industrial Equipment	Sweepers/Scrubbers	CNG	VOC	0.000000	0.000000	0.000000	0.000000
2268003040	Industrial Equipment	Other General Industrial Equipment	CNG	VOC	0.000000	0.000000	0.000000	0.000000
2268003060	Industrial Equipment	AC/Refrigeration	CNG	VOC	0.000000	0.000000	0.000000	0.000000
2268003070	Industrial Equipment	Terminal Tractors	CNG	VOC	0.000002	0.000001	0.000000	0.000000
2268005055	Agricultural Equipment	Other Agricultural Equipment	CNG	VOC	0.000000	0.000000	0.000000	0.000000
2268005060	Agricultural Equipment	Irrigation Sets	CNG	VOC	0.000020	0.000012	0.000001	0.000000
2268006005	Commercial Equipment	Generator Sets	CNG	VOC	0.000013	0.000013	0.000012	0.000009
2268006010	Commercial Equipment	Pumps	CNG	VOC	0.000001	0.000001	0.000001	0.000000
2268006015	Commercial Equipment	Air Compressors	CNG	VOC	0.000001	0.000001	0.000001	0.000000
2268006020	Commercial Equipment	Gas Compressors	CNG	VOC	0.000049	0.000019	0.000003	0.000004
2268006035	Commercial Equipment	Hydro Power Units	CNG	VOC	0.000000	0.000000	0.000000	0.000000
2268010010	Industrial Equipment	Other Oil Field Equipment	CNG	VOC	0.000000	0.000000	0.000000	0.000000
2270001060	Recreational Equipment	Specialty Vehicle Carts	Diesel	VOC	0.000850	0.000825	0.000725	0.000471
2270002003	Construction and Mining Equipment	Pavers	Diesel	VOC	0.000431	0.000388	0.000301	0.000174
2270002006	Construction and Mining Equipment	Tampers/Rammers	Diesel	VOC	0.000002	0.000002	0.000001	0.000001
2270002009	Construction and Mining Equipment	Plate Compactors	Diesel	VOC	0.000027	0.000025	0.000020	0.000015
2270002015	Construction and Mining Equipment	Rollers	Diesel	VOC	0.001222	0.001089	0.000816	0.000469
2270002018	Construction and Mining Equipment	Scrapers	Diesel	VOC	0.000897	0.000800	0.000594	0.000454

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2270002021	Construction and Mining Equipment	Paving Equipment	Diesel	VOC	0.000079	0.000072	0.000055	0.000034
2270002024	Construction and Mining Equipment	Surfacing Equipment	Diesel	VOC	0.000054	0.000049	0.000037	0.000024
2270002027	Construction and Mining Equipment	Signal Boards/Light Plants	Diesel	VOC	0.000264	0.000238	0.000160	0.000108
2270002030	Construction and Mining Equipment	Trenchers	Diesel	VOC	0.000728	0.000655	0.000474	0.000259
2270002033	Construction and Mining Equipment	Bore/Drill Rigs	Diesel	VOC	0.000571	0.000549	0.000472	0.000323
2270002036	Construction and Mining Equipment	Excavators	Diesel	VOC	0.003538	0.003178	0.002588	0.001618
2270002039	Construction and Mining Equipment	Concrete/Industrial Saws	Diesel	VOC	0.000059	0.000051	0.000035	0.000019
2270002042	Construction and Mining Equipment	Cement & Mortar Mixers	Diesel	VOC	0.000027	0.000027	0.000024	0.000018
2270002045	Construction and Mining Equipment	Cranes	Diesel	VOC	0.000922	0.000847	0.000664	0.000431
2270002048	Construction and Mining Equipment	Graders	Diesel	VOC	0.000881	0.000791	0.000651	0.000411
2270002051	Construction and Mining Equipment	Off-highway Trucks	Diesel	VOC	0.003049	0.002634	0.001886	0.001652
2270002054	Construction and Mining Equipment	Crushing/Proc. Equipment	Diesel	VOC	0.000188	0.000172	0.000131	0.000080
2270002057	Construction and Mining Equipment	Rough Terrain Forklifts	Diesel	VOC	0.001757	0.001624	0.001223	0.000663
2270002060	Construction and Mining Equipment	Rubber Tire Loaders	Diesel	VOC	0.004398	0.004093	0.003232	0.002117
2270002066	Construction and Mining Equipment	Tractors/Loaders/Backhoes	Diesel	VOC	0.007592	0.007393	0.006466	0.003693
2270002069	Construction and Mining Equipment	Crawler Tractor/Dozers	Diesel	VOC	0.003821	0.003431	0.002637	0.001771
2270002072	Construction and Mining Equipment	Skid Steer Loaders	Diesel	VOC	0.007330	0.007044	0.005893	0.003413
2270002075	Construction and Mining Equipment	Off-Highway Tractors	Diesel	VOC	0.000517	0.000459	0.000327	0.000227
2270002078	Construction and Mining Equipment	Dumpers/Tenders	Diesel	VOC	0.000022	0.000022	0.000020	0.000012
2270002081	Construction and Mining Equipment	Other Construction Equipment	Diesel	VOC	0.000482	0.000445	0.000350	0.000225
2270003010	Industrial Equipment	Aerial Lifts	Diesel	VOC	0.000979	0.000969	0.000882	0.000586
2270003020	Industrial Equipment	Forklifts	Diesel	VOC	0.003457	0.003289	0.002518	0.001339
2270003030	Industrial Equipment	Sweepers/Scrubbers	Diesel	VOC	0.001788	0.001588	0.001248	0.000715
2270003040	Industrial Equipment	Other General Industrial Eqp	Diesel	VOC	0.001936	0.001823	0.001432	0.000874
2270003050	Industrial Equipment	Other Material Handling Eqp	Diesel	VOC	0.000182	0.000179	0.000161	0.000106
2270003060	Industrial Equipment	AC/Refrigeration	Diesel	VOC	0.003353	0.002850	0.002086	0.001122
2270003070	Industrial Equipment	Terminal Tractors	Diesel	VOC	0.001894	0.001805	0.001522	0.000911
2270004031	Lawn and Garden Equipment (Com)	Leafblowers/Vacuums	Diesel	VOC	0.000000	0.000000	0.000000	0.000000
2270004036	Lawn and Garden Equipment (Com)	Snowblowers	Diesel	VOC	0.000000	0.000000	0.000000	0.000000
2270004046	Lawn and Garden Equipment (Com)	Front Mowers	Diesel	VOC	0.000422	0.000401	0.000313	0.000213
2270004056	Lawn and Garden Equipment (Com)	Lawn & Garden Tractors	Diesel	VOC	0.000093	0.000087	0.000065	0.000054
2270004066	Lawn and Garden Equipment (Com)	Chippers/Stump Grinders	Diesel	VOC	0.000362	0.000362	0.000339	0.000254
2270004071	Lawn and Garden Equipment (Com)	Commercial Turf Equipment	Diesel	VOC	0.000044	0.000036	0.000027	0.000018
2270004076	Lawn and Garden Equipment (Com)	Other Lawn & Garden Eqp.	Diesel	VOC	0.000001	0.000001	0.000001	0.000001
2270005010	Agricultural Equipment	2-Wheel Tractors	Diesel	VOC	0.000002	0.000002	0.000001	0.000001
2270005015	Agricultural Equipment	Agricultural Tractors	Diesel	VOC	0.062665	0.056360	0.043007	0.025313
2270005020	Agricultural Equipment	Combines	Diesel	VOC	0.004564	0.004460	0.003991	0.002844
2270005025	Agricultural Equipment	Balers	Diesel	VOC	0.000046	0.000044	0.000036	0.000022
2270005030	Agricultural Equipment	Agricultural Mowers	Diesel	VOC	0.000007	0.000007	0.000006	0.000004
2270005035	Agricultural Equipment	Sprayers	Diesel	VOC	0.000666	0.000619	0.000484	0.000285
2270005040	Agricultural Equipment	Tillers > 6 HP	Diesel	VOC	0.000001	0.000001	0.000001	0.000000
2270005045	Agricultural Equipment	Swathers	Diesel	VOC	0.000411	0.000408	0.000381	0.000275
2270005055	Agricultural Equipment	Other Agricultural Equipment	Diesel	VOC	0.001397	0.001283	0.000974	0.000585
2270005060	Agricultural Equipment	Irrigation Sets	Diesel	VOC	0.000860	0.000781	0.000583	0.000320
2270006005	Commercial Equipment	Generator Sets	Diesel	VOC	0.002161	0.002112	0.001867	0.001263
2270006010	Commercial Equipment	Pumps	Diesel	VOC	0.000475	0.000467	0.000419	0.000298
2270006015	Commercial Equipment	Air Compressors	Diesel	VOC	0.001071	0.001014	0.000806	0.000462
2270006020	Commercial Equipment	Gas Compressors	Diesel	VOC	0.000000	0.000000	0.000000	0.000000
2270006025	Commercial Equipment	Welders	Diesel	VOC	0.001630	0.001590	0.001369	0.000759
2270006030	Commercial Equipment	Pressure Washers	Diesel	VOC	0.000068	0.000067	0.000061	0.000046
2270006035	Commercial Equipment	Hydro Power Units	Diesel	VOC	0.000050	0.000046	0.000036	0.000021
2270007010	Logging Equipment	Shredders > 6 HP	Diesel	VOC	0.000000	0.000000	0.000000	0.000000
2270007015	Logging Equipment	Forest Eqp - Feller/Bunch/Skidder	Diesel	VOC	0.001428	0.001243	0.000885	0.000424
2270008005	Airport Equipment	Airport Ground Support Equipment	Diesel	VOC	0.000003	0.000003	0.000002	0.000002
2270009010	Construction and Mining Equipment	Other Underground Mining Equipment	Diesel	VOC	0.000000	0.000000	0.000000	0.000000
2275000000	Aircraft	All Aircraft Types and Operations	Other	VOC	0.002079	0.002038	0.002204	0.002599
2275070000	Aircraft	Auxiliary Power Units	Other	VOC	0.000000	0.000000	0.000000	0.000000
2280000000	Marine Vessels	Commercial	All Fuels	VOC	0.000000	0.000000	0.000000	0.000000
2280001000	Marine Vessels	Commercial	Coal	VOC	0.000000	0.000000	0.000000	0.000000
2280002000	Marine Vessels	Commercial	Diesel	VOC	0.000000	0.000000	0.000000	0.000000
2280003000	Marine Vessels	Commercial	Residual Fuel	VOC	0.000000	0.000000	0.000000	0.000000
2280004000	Marine Vessels	Commercial	Gasoline	VOC	0.000000	0.000000	0.000000	0.000000
2270010010	Industrial Equipment	Other Oil Field Equipment	Diesel	VOC	0.000000	0.000000	0.000000	0.000000
2282005010	Pleasure Craft	Outboard	2 Stroke	VOC	0.395935	0.372737	0.308275	0.235088
2282005015	Pleasure Craft	Personal Water Craft	2 Stroke	VOC	0.124664	0.111715	0.075531	0.052884
2282010005	Pleasure Craft	Inboard/Sterndrive	4 Stroke	VOC	0.038117	0.038287	0.038487	0.038921
2282020005	Pleasure Craft	Inboard/Sterndrive	Diesel	VOC	0.000602	0.000634	0.000658	0.000651
2285002005	Railroad Equipment	Line Haul Locomotives	Diesel	VOC	0.006681	0.006897	0.006559	0.006601
2285002010	Railroad Equipment	Yard Locomotive	Diesel	VOC	0.000000	0.000000	0.000000	0.000000
2282020010	Pleasure Craft	Outboards	Diesel	VOC	0.000015	0.000014	0.000012	0.000007
2285002015	Railroad Equipment	Railway Maintenance	Diesel	VOC	0.000036	0.000035	0.000031	0.000020
2285004015	Railroad Equipment	Railway Maintenance	4 Stroke	VOC	0.000012	0.000011	0.000009	0.000009
2285006015	Railroad Equipment	Railway Maintenance	LPG	VOC	0.000000	0.000000	0.000000	0.000000

Appendix D-2: Columbia County Daily Nonroad Emissions by SCC
Tons per Day

SCC	Classification	Equipment Type	Engine Type	Pollutant Code	2002 Emissions	2004 Emissions	2009 Emissions	2018 Emissions
Columbia County Total Summer Day VOC Emissions					1.829790	1.872150	1.718934	1.290677

Appendix D-2: Columbia County Daily Nonroad Emissions by SCC
Tons per Day

SCC	Classification	Equipment Type	Engine Type	Pollutant Code	2002 Emissions	2004 Emissions	2009 Emissions	2018 Emissions
2260001010	Recreational Equipment	Motorcycles: Off-Road	2 Stroke	CO	0.195543	0.227055	0.286517	0.305634
2260001020	Recreational Equipment	Snowmobiles	2 Stroke	CO	0.000000	0.000000	0.000000	0.000000
2260001030	Recreational Equipment	ATVs	2 Stroke	CO	0.192798	0.266232	0.405823	0.465475
2260001060	Recreational Equipment	Specialty Vehicles/Carts	2 Stroke	CO	0.124478	0.127888	0.138898	0.148961
2260002006	Construction and Mining Equipment	Tampers/Rammers	2 Stroke	CO	0.010729	0.010618	0.008879	0.009049
2260002009	Construction and Mining Equipment	Plate Compactors	2 Stroke	CO	0.000517	0.000418	0.000331	0.000339
2260002021	Construction and Mining Equipment	Paving Equipment	2 Stroke	CO	0.000621	0.000498	0.000399	0.000409
2260002027	Construction and Mining Equipment	Signal Boards/Light Plants	2 Stroke	CO	0.000005	0.000004	0.000003	0.000003
2260002039	Construction and Mining Equipment	Concrete/Industrial Saws	2 Stroke	CO	0.028351	0.026723	0.023003	0.023569
2260002054	Construction and Mining Equipment	Crushing/Proc. Equipment	2 Stroke	CO	0.000121	0.000095	0.000082	0.000084
2260003030	Industrial Equipment	Sweepers/Scrubbers	2 Stroke	CO	0.000802	0.000560	0.000341	0.000121
2260003040	Industrial Equipment	Other General Industrial Eqp	2 Stroke	CO	0.000064	0.000045	0.000027	0.000010
2260004015	Lawn and Garden Equipment (Res)	Rotary Tillers < 6 HP	2 Stroke	CO	0.003439	0.003131	0.002340	0.002490
2260004016	Lawn and Garden Equipment (Com)	Rotary Tillers < 6 HP	2 Stroke	CO	0.004086	0.003717	0.002768	0.003121
2260004020	Lawn and Garden Equipment (Res)	Chain Saws < 6 HP	2 Stroke	CO	0.028081	0.025674	0.019548	0.022148
2260004021	Lawn and Garden Equipment (Com)	Chain Saws < 6 HP	2 Stroke	CO	0.037618	0.036724	0.033906	0.039504
2260004025	Lawn and Garden Equipment (Res)	Trimmers/Edgers/Brush Cutter	2 Stroke	CO	0.064720	0.058067	0.040386	0.045365
2260004026	Lawn and Garden Equipment (Com)	Trimmers/Edgers/Brush Cutter	2 Stroke	CO	0.040609	0.035787	0.029627	0.034493
2260004030	Lawn and Garden Equipment (Res)	Leafblowers/Vacuums	2 Stroke	CO	0.040390	0.036775	0.027375	0.030968
2260004031	Lawn and Garden Equipment (Com)	Leafblowers/Vacuums	2 Stroke	CO	0.040952	0.038448	0.033079	0.038437
2260004035	Lawn and Garden Equipment (Res)	Snowblowers	2 Stroke	CO	0.000000	0.000000	0.000000	0.000000
2260004036	Lawn and Garden Equipment (Com)	Snowblowers	2 Stroke	CO	0.000000	0.000000	0.000000	0.000000
2260004071	Lawn and Garden Equipment (Com)	Commercial Turf Equipment	2 Stroke	CO	0.000017	0.000015	0.000012	0.000014
2260005035	Agricultural Equipment	Sprayers	2 Stroke	CO	0.002434	0.002056	0.001425	0.001608
2260006005	Commercial Equipment	Generator Sets	2 Stroke	CO	0.003238	0.002792	0.002461	0.003052
2260006010	Commercial Equipment	Pumps	2 Stroke	CO	0.022801	0.018098	0.016173	0.019789
2260006015	Commercial Equipment	Air Compressors	2 Stroke	CO	0.000008	0.000007	0.000007	0.000009
2260006035	Commercial Equipment	Hydro Power Units	2 Stroke	CO	0.000131	0.000109	0.000107	0.000133
2260007005	Logging Equipment	Chain Saws > 6 HP	2 Stroke	CO	0.023511	0.024298	0.023957	0.030341
2265001010	Recreational Equipment	Motorcycles: Off-Road	4 Stroke	CO	0.087066	0.101223	0.121333	0.114732
2265001030	Recreational Equipment	ATVs	4 Stroke	CO	0.784867	0.949678	1.288410	1.505982
2265001050	Recreational Equipment	Golf Carts	4 Stroke	CO	0.811348	0.845585	0.890371	0.949251
2265001060	Recreational Equipment	Specialty Vehicles/Carts	4 Stroke	CO	0.109707	0.110167	0.112081	0.118568
2265002003	Construction and Mining Equipment	Pavers	4 Stroke	CO	0.009613	0.009878	0.009908	0.009813
2265002006	Construction and Mining Equipment	Tampers/Rammers	4 Stroke	CO	0.000076	0.000078	0.000083	0.000085
2265002009	Construction and Mining Equipment	Plate Compactors	4 Stroke	CO	0.017752	0.018007	0.018391	0.018793
2265002015	Construction and Mining Equipment	Rollers	4 Stroke	CO	0.018016	0.018468	0.018371	0.018394
2265002021	Construction and Mining Equipment	Paving Equipment	4 Stroke	CO	0.034757	0.035400	0.036742	0.037711
2265002024	Construction and Mining Equipment	Surfacing Equipment	4 Stroke	CO	0.015754	0.016213	0.016600	0.016955
2265002027	Construction and Mining Equipment	Signal Boards/Light Plants	4 Stroke	CO	0.000802	0.000821	0.000836	0.000856
2265002030	Construction and Mining Equipment	Trenchers	4 Stroke	CO	0.029463	0.030135	0.030013	0.029658
2265002033	Construction and Mining Equipment	Bore/Drill Rigs	4 Stroke	CO	0.008680	0.008717	0.008642	0.008574
2265002039	Construction and Mining Equipment	Concrete/Industrial Saws	4 Stroke	CO	0.072758	0.074748	0.075483	0.076880
2265002042	Construction and Mining Equipment	Cement & Mortar Mixers	4 Stroke	CO	0.030432	0.030310	0.031260	0.032418
2265002045	Construction and Mining Equipment	Cranes	4 Stroke	CO	0.001218	0.001205	0.001035	0.000662
2265002054	Construction and Mining Equipment	Crushing/Proc. Equipment	4 Stroke	CO	0.004272	0.004400	0.004490	0.004531
2265002057	Construction and Mining Equipment	Rough Terrain Forklifts	4 Stroke	CO	0.001590	0.001522	0.001050	0.000310
2265002060	Construction and Mining Equipment	Rubber Tire Loaders	4 Stroke	CO	0.003812	0.003575	0.002005	0.000362
2265002066	Construction and Mining Equipment	Tractors/Loaders/Backhoes	4 Stroke	CO	0.022912	0.023671	0.024298	0.024748
2265002072	Construction and Mining Equipment	Skid Steer Loaders	4 Stroke	CO	0.010136	0.010222	0.009821	0.008688
2265002078	Construction and Mining Equipment	Dumpers/Tenders	4 Stroke	CO	0.004739	0.004719	0.004862	0.005053
2265002081	Construction and Mining Equipment	Other Construction Equipment	4 Stroke	CO	0.001336	0.001298	0.001033	0.000480
2265003010	Industrial Equipment	Aerial Lifts	4 Stroke	CO	0.077632	0.069815	0.048654	0.016370
2265003020	Industrial Equipment	Forklifts	4 Stroke	CO	0.175491	0.150092	0.069726	0.004808
2265003030	Industrial Equipment	Sweepers/Scrubbers	4 Stroke	CO	0.075438	0.066959	0.039691	0.012201
2265003040	Industrial Equipment	Other General Industrial Eqp	4 Stroke	CO	0.192452	0.174410	0.121126	0.042182
2265003050	Industrial Equipment	Other Material Handling Eqp	4 Stroke	CO	0.005935	0.005385	0.003765	0.001186
2265003060	Industrial Equipment	AC/Refrigeration	4 Stroke	CO	0.002101	0.001951	0.001428	0.000511
2265003070	Industrial Equipment	Terminal Tractors	4 Stroke	CO	0.018224	0.014735	0.003244	0.000320
2265004010	Lawn and Garden Equipment (Res)	Lawn mowers	4 Stroke	CO	0.677193	0.701613	0.763831	0.873153
2265004011	Lawn and Garden Equipment (Com)	Lawn mowers	4 Stroke	CO	0.145420	0.151561	0.162940	0.188909
2265004015	Lawn and Garden Equipment (Res)	Rotary Tillers < 6 HP	4 Stroke	CO	0.057042	0.059030	0.064159	0.073208
2265004016	Lawn and Garden Equipment (Com)	Rotary Tillers < 6 HP	4 Stroke	CO	0.070846	0.073740	0.080338	0.092140
2265004025	Lawn and Garden Equipment (Res)	Trimmers/Edgers/Brush Cutter	4 Stroke	CO	0.003803	0.003952	0.004298	0.004922
2265004026	Lawn and Garden Equipment (Com)	Trimmers/Edgers/Brush Cutter	4 Stroke	CO	0.003611	0.003828	0.004218	0.004897
2265004030	Lawn and Garden Equipment (Res)	Leafblowers/Vacuums	4 Stroke	CO	0.007269	0.007554	0.008208	0.009394
2265004031	Lawn and Garden Equipment (Com)	Leafblowers/Vacuums	4 Stroke	CO	0.144538	0.154762	0.169789	0.190311
2265004035	Lawn and Garden Equipment (Res)	Snowblowers	4 Stroke	CO	0.000000	0.000000	0.000000	0.000000
2265004036	Lawn and Garden Equipment (Com)	Snowblowers	4 Stroke	CO	0.000000	0.000000	0.000000	0.000000
2265004040	Lawn and Garden Equipment (Res)	Rear Engine Riding Mowers	4 Stroke	CO	0.159260	0.167254	0.191079	0.224384
2265004041	Lawn and Garden Equipment (Com)	Rear Engine Riding Mowers	4 Stroke	CO	0.018714	0.020077	0.022673	0.026429
2265004046	Lawn and Garden Equipment (Com)	Front Mowers	4 Stroke	CO	0.020210	0.020902	0.023513	0.027943
2265004051	Lawn and Garden Equipment (Com)	Shredders < 6 HP	4 Stroke	CO	0.008118	0.008444	0.009208	0.010549
2265004055	Lawn and Garden Equipment (Res)	Lawn & Garden Tractors	4 Stroke	CO	2.117529	2.225697	2.560718	3.011458
2265004056	Lawn and Garden Equipment (Com)	Lawn & Garden Tractors	4 Stroke	CO	0.251709	0.271579	0.308242	0.359318

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SCC	Classification	Equipment Type	Engine Type	Pollutant Code	2002 Emissions	2004 Emissions	2009 Emissions	2018 Emissions
2265004066	Lawn and Garden Equipment (Com)	Chippers/Stump Grinders	4 Stroke	CO	0.033428	0.035039	0.035326	0.037670
2265004071	Lawn and Garden Equipment (Com)	Commercial Turf Equipment	4 Stroke	CO	0.778581	0.820725	0.891748	1.034255
2265004075	Lawn and Garden Equipment (Res)	Other Lawn & Garden Eqp.	4 Stroke	CO	0.069119	0.071525	0.078320	0.091817
2265004076	Lawn and Garden Equipment (Com)	Other Lawn & Garden Eqp.	4 Stroke	CO	0.022012	0.022777	0.024934	0.029215
2265005010	Agricultural Equipment	2-Wheel Tractors	4 Stroke	CO	0.008717	0.009326	0.010339	0.011709
2265005015	Agricultural Equipment	Agricultural Tractors	4 Stroke	CO	0.017631	0.017713	0.014400	0.010639
2265005020	Agricultural Equipment	Combines	4 Stroke	CO	0.000085	0.000085	0.000077	0.000054
2265005025	Agricultural Equipment	Balers	4 Stroke	CO	0.008015	0.008055	0.007242	0.005111
2265005030	Agricultural Equipment	Agricultural Mowers	4 Stroke	CO	0.006779	0.007049	0.007895	0.009040
2265005035	Agricultural Equipment	Sprayers	4 Stroke	CO	0.058021	0.059386	0.063005	0.069104
2265005040	Agricultural Equipment	Tillers > 6 HP	4 Stroke	CO	0.144277	0.147973	0.157769	0.177066
2265005045	Agricultural Equipment	Swathers	4 Stroke	CO	0.012694	0.012758	0.011471	0.008095
2265005055	Agricultural Equipment	Other Agricultural Equipment	4 Stroke	CO	0.026338	0.026834	0.026879	0.025415
2265005060	Agricultural Equipment	Irrigation Sets	4 Stroke	CO	0.024706	0.023631	0.012954	0.005174
2265006005	Commercial Equipment	Generator Sets	4 Stroke	CO	0.941303	1.007771	1.197511	1.501458
2265006010	Commercial Equipment	Pumps	4 Stroke	CO	0.217511	0.235131	0.269459	0.329975
2265006015	Commercial Equipment	Air Compressors	4 Stroke	CO	0.108049	0.116611	0.131479	0.157123
2265006025	Commercial Equipment	Welders	4 Stroke	CO	0.271448	0.296007	0.341879	0.413257
2265006030	Commercial Equipment	Pressure Washers	4 Stroke	CO	0.412257	0.445736	0.524898	0.651159
2265006035	Commercial Equipment	Hydro Power Units	4 Stroke	CO	0.020862	0.022803	0.026712	0.033068
2265007010	Logging Equipment	Shredders > 6 HP	4 Stroke	CO	0.052308	0.055688	0.066172	0.086282
2265007015	Logging Equipment	Forest Eq - Feller/Bunch/Skidder	4 Stroke	CO	0.000624	0.000678	0.000789	0.000999
2265008005	Airport Equipment	Airport Ground Support Equipment	4 Stroke	CO	0.000025	0.000024	0.000020	0.000017
2265010010	Industrial Equipment	Other Oil Field Equipment	4 Stroke	CO	0.000000	0.000000	0.000000	0.000000
2267001060	Recreational Equipment	Specialty Vehicle Carts	LPG	CO	0.001028	0.001039	0.000956	0.000680
2267002003	Construction and Mining Equipment	Pavers	LPG	CO	0.000223	0.000230	0.000176	0.000049
2267002015	Construction and Mining Equipment	Rollers	LPG	CO	0.000380	0.000388	0.000246	0.000056
2267002021	Construction and Mining Equipment	Paving Equipment	LPG	CO	0.000058	0.000060	0.000054	0.000027
2267002024	Construction and Mining Equipment	Surfacing Equipment	LPG	CO	0.000039	0.000040	0.000029	0.000008
2267002030	Construction and Mining Equipment	Trenchers	LPG	CO	0.000684	0.000703	0.000552	0.000154
2267002033	Construction and Mining Equipment	Bore/Drill Rigs	LPG	CO	0.000221	0.000229	0.000219	0.000160
2267002039	Construction and Mining Equipment	Concrete/Industrial Saws	LPG	CO	0.000666	0.000677	0.000341	0.000087
2267002045	Construction and Mining Equipment	Cranes	LPG	CO	0.000238	0.000246	0.000221	0.000111
2267002054	Construction and Mining Equipment	Crushing/Proc. Equipment	LPG	CO	0.000040	0.000041	0.000036	0.000017
2267002057	Construction and Mining Equipment	Rough Terrain Forklifts	LPG	CO	0.000433	0.000446	0.000369	0.000110
2267002060	Construction and Mining Equipment	Rubber Tire Loaders	LPG	CO	0.001086	0.001115	0.000836	0.000179
2267002066	Construction and Mining Equipment	Tractors/Loaders/Backhoes	LPG	CO	0.000116	0.000119	0.000081	0.000016
2267002072	Construction and Mining Equipment	Skid Steer Loaders	LPG	CO	0.000887	0.000915	0.000791	0.000369
2267002081	Construction and Mining Equipment	Other Construction Equipment	LPG	CO	0.000355	0.000367	0.000334	0.000187
2267003010	Industrial Equipment	Aerial Lifts	LPG	CO	0.012681	0.013337	0.012284	0.006823
2267003020	Industrial Equipment	Forklifts	LPG	CO	1.214819	1.269756	0.981899	0.221552
2267003030	Industrial Equipment	Sweepers/Scrubbers	LPG	CO	0.009385	0.009744	0.006076	0.001494
2267003040	Industrial Equipment	Other General Industrial Equipm	LPG	CO	0.002846	0.002965	0.002081	0.000472
2267003050	Industrial Equipment	Other Material Handling Equipment	LPG	CO	0.000686	0.000721	0.000659	0.000317
2267003070	Industrial Equipment	Terminal Tractors	LPG	CO	0.005750	0.005946	0.003184	0.000816
2267004066	Lawn and Garden Equipment (Com)	Chippers/Stump Grinders	LPG	CO	0.001905	0.001955	0.001384	0.000296
2267005055	Agricultural Equipment	Other Agricultural Equipment	LPG	CO	0.000052	0.000051	0.000046	0.000032
2267005060	Agricultural Equipment	Irrigation Sets	LPG	CO	0.000044	0.000043	0.000028	0.000005
2267006005	Commercial Equipment	Generator Sets	LPG	CO	0.008714	0.009688	0.010340	0.008708
2267006010	Commercial Equipment	Pumps	LPG	CO	0.002064	0.002287	0.002247	0.001341
2267006015	Commercial Equipment	Air Compressors	LPG	CO	0.002517	0.002782	0.002580	0.001019
2267006025	Commercial Equipment	Welders	LPG	CO	0.004542	0.005022	0.004611	0.001482
2267006030	Commercial Equipment	Pressure Washers	LPG	CO	0.000059	0.000065	0.000066	0.000040
2267006035	Commercial Equipment	Hydro Power Units	LPG	CO	0.000039	0.000043	0.000037	0.000015
2267008005	Airport Equipment	Airport Ground Support Equipment	LPG	CO	0.000004	0.000004	0.000003	0.000001
2268002081	Construction and Mining Equipment	Other Construction Equipment	CNG	CO	0.000014	0.000014	0.000013	0.000007
2268003020	Industrial Equipment	Forklifts	CNG	CO	0.088593	0.091572	0.069889	0.015317
2268003030	Industrial Equipment	Sweepers/Scrubbers	CNG	CO	0.000106	0.000109	0.000083	0.000018
2268003040	Industrial Equipment	Other General Industrial Equipment	CNG	CO	0.000069	0.000072	0.000053	0.000011
2268003060	Industrial Equipment	AC/Refrigeration	CNG	CO	0.000089	0.000092	0.000062	0.000015
2268003070	Industrial Equipment	Terminal Tractors	CNG	CO	0.000405	0.000415	0.000219	0.000054
2268005055	Agricultural Equipment	Other Agricultural Equipment	CNG	CO	0.000068	0.000056	0.000032	0.000009
2268005060	Agricultural Equipment	Irrigation Sets	CNG	CO	0.005215	0.003069	0.000354	0.000000
2268006005	Commercial Equipment	Generator Sets	CNG	CO	0.002893	0.003076	0.003103	0.002513
2268006010	Commercial Equipment	Pumps	CNG	CO	0.000147	0.000155	0.000148	0.000096
2268006015	Commercial Equipment	Air Compressors	CNG	CO	0.000212	0.000224	0.000197	0.000071
2268006020	Commercial Equipment	Gas Compressors	CNG	CO	0.012701	0.011953	0.001521	0.001901
2268006035	Commercial Equipment	Hydro Power Units	CNG	CO	0.000000	0.000000	0.000000	0.000000
2268010010	Industrial Equipment	Other Oil Field Equipment	CNG	CO	0.000000	0.000000	0.000000	0.000000
2270001060	Recreational Equipment	Specialty Vehicle Carts	Diesel	CO	0.003162	0.003083	0.002768	0.001830
2270002003	Construction and Mining Equipment	Pavers	Diesel	CO	0.002269	0.001992	0.001678	0.000727
2270002006	Construction and Mining Equipment	Tampers/Rammers	Diesel	CO	0.000006	0.000006	0.000006	0.000007
2270002009	Construction and Mining Equipment	Plate Compactors	Diesel	CO	0.000092	0.000092	0.000090	0.000096
2270002015	Construction and Mining Equipment	Rollers	Diesel	CO	0.006529	0.005901	0.004971	0.002404
2270002018	Construction and Mining Equipment	Scrapers	Diesel	CO	0.005899	0.005380	0.004515	0.002104

Appendix D-2: Columbia County Daily Nonroad Emissions by SCC
Tons per Day

SCC	Classification	Equipment Type	Engine Type	Pollutant Code	2002 Emissions	2004 Emissions	2009 Emissions	2018 Emissions
2270002021	Construction and Mining Equipment	Paving Equipment	Diesel	CO	0.000424	0.000389	0.000311	0.000173
2270002024	Construction and Mining Equipment	Surfacing Equipment	Diesel	CO	0.000320	0.000299	0.000247	0.000139
2270002027	Construction and Mining Equipment	Signal Boards/Light Plants	Diesel	CO	0.000834	0.000786	0.000631	0.000518
2270002030	Construction and Mining Equipment	Trenchers	Diesel	CO	0.003920	0.003670	0.003087	0.001640
2270002033	Construction and Mining Equipment	Bore/Drill Rigs	Diesel	CO	0.002354	0.002256	0.001970	0.001206
2270002036	Construction and Mining Equipment	Excavators	Diesel	CO	0.018111	0.015347	0.013899	0.004311
2270002039	Construction and Mining Equipment	Concrete/Industrial Saws	Diesel	CO	0.000303	0.000281	0.000233	0.000125
2270002042	Construction and Mining Equipment	Cement & Mortar Mixers	Diesel	CO	0.000104	0.000103	0.000100	0.000081
2270002045	Construction and Mining Equipment	Cranes	Diesel	CO	0.003307	0.003038	0.002491	0.001204
2270002048	Construction and Mining Equipment	Graders	Diesel	CO	0.004266	0.003495	0.003091	0.001081
2270002051	Construction and Mining Equipment	Off-highway Trucks	Diesel	CO	0.018506	0.015502	0.011439	0.002418
2270002054	Construction and Mining Equipment	Crushing/Proc. Equipment	Diesel	CO	0.000774	0.000713	0.000600	0.000320
2270002057	Construction and Mining Equipment	Rough Terrain Forklifts	Diesel	CO	0.009749	0.009161	0.007969	0.004317
2270002060	Construction and Mining Equipment	Rubber Tire Loaders	Diesel	CO	0.025076	0.022987	0.018880	0.008860
2270002066	Construction and Mining Equipment	Tractors/Loaders/Backhoes	Diesel	CO	0.030631	0.030322	0.029088	0.018882
2270002069	Construction and Mining Equipment	Crawler Tractor/Dozers	Diesel	CO	0.021459	0.019056	0.016116	0.006679
2270002072	Construction and Mining Equipment	Skid Steer Loaders	Diesel	CO	0.026787	0.026621	0.025018	0.017094
2270002075	Construction and Mining Equipment	Off-Highway Tractors	Diesel	CO	0.003251	0.002916	0.002236	0.000993
2270002078	Construction and Mining Equipment	Dumpers/Tenders	Diesel	CO	0.000077	0.000078	0.000076	0.000055
2270002081	Construction and Mining Equipment	Other Construction Equipment	Diesel	CO	0.003115	0.002876	0.002327	0.001231
2270003010	Industrial Equipment	Aerial Lifts	Diesel	CO	0.003367	0.003443	0.003469	0.002624
2270003020	Industrial Equipment	Forklifts	Diesel	CO	0.020451	0.020381	0.021742	0.003770
2270003030	Industrial Equipment	Sweepers/Scrubbers	Diesel	CO	0.006293	0.005571	0.005156	0.002212
2270003040	Industrial Equipment	Other General Industrial Eqp	Diesel	CO	0.006825	0.006416	0.005456	0.003073
2270003050	Industrial Equipment	Other Material Handling Eqp	Diesel	CO	0.000625	0.000622	0.000597	0.000411
2270003060	Industrial Equipment	AC/Refrigeration	Diesel	CO	0.012795	0.011885	0.011817	0.006130
2270003070	Industrial Equipment	Terminal Tractors	Diesel	CO	0.008649	0.007865	0.008162	0.001825
2270004031	Lawn and Garden Equipment (Com)	Leafblowers/Vacuums	Diesel	CO	0.000000	0.000000	0.000000	0.000000
2270004036	Lawn and Garden Equipment (Com)	Snowblowers	Diesel	CO	0.000000	0.000000	0.000000	0.000000
2270004046	Lawn and Garden Equipment (Com)	Front Mowers	Diesel	CO	0.001346	0.001335	0.001223	0.000990
2270004056	Lawn and Garden Equipment (Com)	Lawn & Garden Tractors	Diesel	CO	0.000294	0.000289	0.000255	0.000262
2270004066	Lawn and Garden Equipment (Com)	Chippers/Stump Grinders	Diesel	CO	0.001435	0.001446	0.001432	0.001032
2270004071	Lawn and Garden Equipment (Com)	Commercial Turf Equipment	Diesel	CO	0.000151	0.000135	0.000126	0.000069
2270004076	Lawn and Garden Equipment (Com)	Other Lawn & Garden Eqp.	Diesel	CO	0.000005	0.000005	0.000005	0.000004
2270005010	Agricultural Equipment	2-Wheel Tractors	Diesel	CO	0.000011	0.000011	0.000011	0.000009
2270005015	Agricultural Equipment	Agricultural Tractors	Diesel	CO	0.305802	0.282358	0.231889	0.126407
2270005020	Agricultural Equipment	Combines	Diesel	CO	0.019047	0.018759	0.017845	0.011701
2270005025	Agricultural Equipment	Balers	Diesel	CO	0.000159	0.000159	0.000154	0.000113
2270005030	Agricultural Equipment	Agricultural Mowers	Diesel	CO	0.000037	0.000036	0.000036	0.000026
2270005035	Agricultural Equipment	Sprayers	Diesel	CO	0.002145	0.002066	0.001845	0.001155
2270005040	Agricultural Equipment	Tillers > 6 HP	Diesel	CO	0.000004	0.000004	0.000003	0.000002
2270005045	Agricultural Equipment	Swathers	Diesel	CO	0.001832	0.001896	0.002039	0.001632
2270005055	Agricultural Equipment	Other Agricultural Equipment	Diesel	CO	0.006075	0.005723	0.004795	0.002708
2270005060	Agricultural Equipment	Irrigation Sets	Diesel	CO	0.002722	0.002595	0.002291	0.001339
2270006005	Commercial Equipment	Generator Sets	Diesel	CO	0.007626	0.007577	0.007246	0.005310
2270006010	Commercial Equipment	Pumps	Diesel	CO	0.001773	0.001769	0.001718	0.001315
2270006015	Commercial Equipment	Air Compressors	Diesel	CO	0.004046	0.003947	0.003737	0.002323
2270006020	Commercial Equipment	Gas Compressors	Diesel	CO	0.000000	0.000000	0.000000	0.000000
2270006025	Commercial Equipment	Welders	Diesel	CO	0.006003	0.006007	0.005626	0.003620
2270006030	Commercial Equipment	Pressure Washers	Diesel	CO	0.000230	0.000227	0.000216	0.000164
2270006035	Commercial Equipment	Hydro Power Units	Diesel	CO	0.000183	0.000176	0.000164	0.000106
2270007010	Logging Equipment	Shredders > 6 HP	Diesel	CO	0.000000	0.000000	0.000000	0.000000
2270007015	Logging Equipment	Forest Eqp - Feller/Bunch/Skidder	Diesel	CO	0.006755	0.005519	0.004542	0.000867
2270008005	Airport Equipment	Airport Ground Support Equipment	Diesel	CO	0.000017	0.000016	0.000015	0.000008
2275000000	Aircraft	All Aircraft Types and Operations	Other	CO	0.094651	0.092758	0.100330	0.118314
2275070000	Aircraft	Auxiliary Power Units	Other	CO	0.000000	0.000000	0.000000	0.000000
2280000000	Marine Vessels	Commercial	All Fuels	CO	0.000000	0.000000	0.000000	0.000000
2280001000	Marine Vessels	Commercial	Coal	CO	0.000000	0.000000	0.000000	0.000000
2280002000	Marine Vessels	Commercial	Diesel	CO	0.000000	0.000000	0.000000	0.000000
2280003000	Marine Vessels	Commercial	Residual Fuel	CO	0.000000	0.000000	0.000000	0.000000
2280004000	Marine Vessels	Commercial	Gasoline	CO	0.000000	0.000000	0.000000	0.000000
2270009010	Construction and Mining Equipment	Other Underground Mining Equipment	Diesel	CO	0.000000	0.000000	0.000000	0.000000
2270010010	Industrial Equipment	Other Oil Field Equipment	Diesel	CO	0.000000	0.000000	0.000000	0.000000
2282005010	Pleasure Craft	Outboard	2 Stroke	CO	0.673005	0.646399	0.569211	0.493474
2282005015	Pleasure Craft	Personal Water Craft	2 Stroke	CO	0.243550	0.236724	0.221995	0.220350
2282010005	Pleasure Craft	Inboard/Sterndrive	4 Stroke	CO	0.344534	0.336653	0.310406	0.263523
2285002005	Railroad Equipment	Line Haul Locomotives	Diesel	CO	0.017024	0.017573	0.019024	0.021946
2285002010	Railroad Equipment	Yard Locomotive	Diesel	CO	0.000000	0.000000	0.000000	0.000000
2282020005	Pleasure Craft	Inboard/Sterndrive	Diesel	CO	0.002547	0.002687	0.003036	0.003657
2282020010	Pleasure Craft	Outboards	Diesel	CO	0.000044	0.000043	0.000039	0.000029
2285002015	Railroad Equipment	Railway Maintenance	Diesel	CO	0.000151	0.000147	0.000134	0.000084
2285004015	Railroad Equipment	Railway Maintenance	4 Stroke	CO	0.000434	0.000455	0.000493	0.000536
2285006015	Railroad Equipment	Railway Maintenance	LPG	CO	0.000002	0.000002	0.000002	0.000001

Appendix D-2: Columbia County Daily Nonroad Emissions by SCC
Tons per Day

SCC	Classification	Equipment Type	Engine Type	Pollutant Code	2002 Emissions	2004 Emissions	2009 Emissions	2018 Emissions
Columbia County Total Summer Day CO Emissions					13.791536	14.392397	15.197279	15.719181