

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

Equipment Type	Fuel	Pollutant	Tons/Year			
			2002	2004	2009	2018
Recreational	Diesel	VOC	0.185229	0.179876	0.158019	0.102729
Recreational	Gasoline	VOC	114.482708	141.638011	166.539179	110.812012
Recreational	CNG	VOC	0.185229	0.179876	0.158019	0.102729
Recreational	LPG	VOC	0.015179	0.014952	0.012816	0.008365
Construction	Diesel	VOC	12.469014	11.597002	9.360111	5.904996
Construction	Gasoline	VOC	7.221234	6.300947	3.561377	3.382829
Construction	CNG	VOC	0.000017	0.000017	0.000014	0.000006
Construction	LPG	VOC	0.113113	0.108589	0.066634	0.019155
Industrial	Diesel	VOC	5.000048	4.546889	3.545522	2.017910
Industrial	Gasoline	VOC	6.657786	5.577545	2.289281	0.506665
Industrial	CNG	VOC	0.110918	0.106727	0.061136	0.008829
Industrial	LPG	VOC	26.264542	25.516949	14.741632	2.170801
Lawn and Garden	Diesel	VOC	2.093901	2.016421	1.692958	1.228403
Lawn and Garden	Gasoline	VOC	365.587861	328.297371	224.378896	229.899054
Lawn and Garden	CNG	VOC	0.000000	0.000000	0.000000	0.000000
Lawn and Garden	LPG	VOC	0.289676	0.274160	0.139180	0.019157
Farm	Diesel	VOC	16.768520	15.188506	11.745149	7.040334
Farm	Gasoline	VOC	3.050169	2.903954	2.376166	1.927386
Farm	CNG	VOC	0.004921	0.002896	0.000354	0.000008
Farm	LPG	VOC	0.001536	0.001452	0.000966	0.000466
Light Commercial	Diesel	VOC	1.949220	1.892869	1.628418	1.018052
Light Commercial	Gasoline	VOC	27.626746	25.596213	19.417918	21.799558
Light Commercial	CNG	VOC	0.022835	0.012083	0.005725	0.004508
Light Commercial	LPG	VOC	0.473865	0.492899	0.410135	0.219795
Logging	Diesel	VOC	0.174105	0.151545	0.107864	0.051713
Logging	Gasoline	VOC	1.242579	1.178059	0.695259	0.844247
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	0.000000	0.000000	0.000000	0.000000
Airport Service	Gasoline	VOC	0.000000	0.000000	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	0.039533	0.038887	0.034974	0.022780
Railway Maintenance	Gasoline	VOC	0.013257	0.012027	0.008970	0.009305
Railway Maintenance	CNG	VOC	0.000000	0.000000	0.000000	0.000000
Railway Maintenance	LPG	VOC	0.000136	0.000134	0.000101	0.000028
Recreational Marine Vessels	Diesel	VOC	0.980330	1.029122	1.063323	1.044041
Recreational Marine Vessels	Gasoline	VOC	775.502532	716.610979	552.778429	393.366108
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
Northumberland County VOC Totals			1368.526742	1291.466956	1016.978527	783.531969

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			2002	2004	2009	2018
Recreational	Diesel	NOx	0.579340	0.586598	0.580995	0.474336
Recreational	Gasoline	NOx	3.318517	3.639360	4.293502	4.613682
Recreational	CNG	NOx	0.579340	0.586598	0.580995	0.474336
Recreational	LPG	NOx	0.056025	0.055069	0.046642	0.030284
Construction	Diesel	NOx	105.909524	102.446269	89.025142	46.876099
Construction	Gasoline	NOx	0.906897	0.834529	0.607881	0.482906
Construction	CNG	NOx	0.001084	0.001073	0.000855	0.000398
Construction	LPG	NOx	0.414831	0.395234	0.238829	0.082980
Industrial	Diesel	NOx	45.485276	44.508773	39.244476	21.220258
Industrial	Gasoline	NOx	5.184309	4.338166	1.922325	0.293126
Industrial	CNG	NOx	6.893038	6.575406	3.666345	0.858295
Industrial	LPG	NOx	96.326657	92.740677	52.210855	12.432550
Lawn and Garden	Diesel	NOx	14.009488	14.542947	15.019594	13.237395
Lawn and Garden	Gasoline	NOx	39.977302	38.127864	31.598102	32.763574
Lawn and Garden	CNG	NOx	0.000000	0.000000	0.000000	0.000000
Lawn and Garden	LPG	NOx	1.059102	0.993012	0.492694	0.116329
Farm	Diesel	NOx	137.815226	133.855788	120.406424	77.108649
Farm	Gasoline	NOx	1.335041	1.313140	1.034350	0.762716
Farm	CNG	NOx	0.292108	0.169148	0.020376	0.000474
Farm	LPG	NOx	0.005625	0.005290	0.003472	0.001763
Light Commercial	Diesel	NOx	11.137192	11.407651	11.412934	9.016408
Light Commercial	Gasoline	NOx	5.540069	5.483165	4.821468	5.242991
Light Commercial	CNG	NOx	1.444010	0.792377	0.486192	0.391191
Light Commercial	LPG	NOx	2.187976	2.269509	1.880050	1.085109
Logging	Diesel	NOx	2.394278	2.116661	1.416862	0.296770
Logging	Gasoline	NOx	0.053327	0.056824	0.055852	0.063843
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	0.000000	0.000000	0.000000	0.000000
Airport Service	Gasoline	NOx	0.000000	0.000000	0.000000	0.000000
Airport Service	CNG	NOx	0.000000	0.000000	0.000000	0.000000
Airport Service	LPG	NOx	0.000000	0.000000	0.000000	0.000000
Railway Maintenance	Diesel	NOx	0.203796	0.204758	0.196391	0.141172
Railway Maintenance	Gasoline	NOx	0.003856	0.003488	0.002858	0.002856
Railway Maintenance	CNG	NOx	0.000000	0.000000	0.000000	0.000000
Railway Maintenance	LPG	NOx	0.000503	0.000494	0.000361	0.000114
Recreational Marine Vessels	Diesel	NOx	25.657504	27.097351	28.898468	30.490897
Recreational Marine Vessels	Gasoline	NOx	34.378704	38.207966	48.409102	62.468749
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
Northumberland County NOx Totals			543.149945	533.355184	458.574390	321.030248

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			2002	2004	2009	2018
Recreational	Diesel	CO	0.689292	0.671946	0.603308	0.398800
Recreational	Gasoline	CO	489.872598	558.547774	689.853585	767.489125
Recreational	CNG	CO	0.689292	0.671946	0.603308	0.398800
Recreational	LPG	CO	0.224143	0.226371	0.208411	0.148131
Construction	Diesel	CO	59.953232	55.313092	48.244871	24.920604
Construction	Gasoline	CO	98.440208	99.400110	98.112346	98.360511
Construction	CNG	CO	0.004321	0.004467	0.004070	0.002272
Construction	LPG	CO	1.673896	1.720119	1.322424	0.471877
Industrial	Diesel	CO	21.309146	20.222784	20.274766	7.644174
Industrial	Gasoline	CO	165.855855	146.453497	87.214602	23.559837
Industrial	CNG	CO	27.860229	28.795620	21.941770	4.811415
Industrial	LPG	CO	388.667355	406.227349	313.818974	72.194306
Lawn and Garden	Diesel	CO	7.341242	7.291127	6.908793	5.347988
Lawn and Garden	Gasoline	CO	5321.995325	5559.226655	6054.734596	7019.767498
Lawn and Garden	CNG	CO	0.000000	0.000000	0.000000	0.000000
Lawn and Garden	LPG	CO	4.291083	4.402736	3.117954	0.666213
Farm	Diesel	CO	80.219202	74.466601	61.952787	34.452734
Farm	Gasoline	CO	71.159077	72.343643	72.014986	74.212295
Farm	CNG	CO	1.254479	0.742096	0.091613	0.002120
Farm	LPG	CO	0.022745	0.022532	0.017625	0.008661
Light Commercial	Diesel	CO	7.097131	7.040908	6.684350	4.587896
Light Commercial	Gasoline	CO	690.857144	741.770891	868.136284	1075.024337
Light Commercial	CNG	CO	5.700733	5.506244	1.776044	1.636927
Light Commercial	LPG	CO	6.408591	7.106655	7.104137	4.504369
Logging	Diesel	CO	0.823720	0.672969	0.553827	0.105677
Logging	Gasoline	CO	9.110574	9.611702	10.819991	13.995312
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	0.000000	0.000000	0.000000	0.000000
Airport Service	Gasoline	CO	0.000000	0.000000	0.000000	0.000000
Airport Service	CNG	CO	0.000000	0.000000	0.000000	0.000000
Airport Service	LPG	CO	0.000000	0.000000	0.000000	0.000000
Railway Maintenance	Diesel	CO	0.168299	0.164115	0.149188	0.094076
Railway Maintenance	Gasoline	CO	0.467592	0.489835	0.530471	0.577690
Railway Maintenance	CNG	CO	0.000000	0.000000	0.000000	0.000000
Railway Maintenance	LPG	CO	0.002013	0.002082	0.001815	0.000723
Recreational Marine Vessels	Diesel	CO	4.112531	4.333141	4.880561	5.852811
Recreational Marine Vessels	Gasoline	CO	1984.286465	1919.104372	1732.864890	1538.008051
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
Northumberland County CO Totals			9450.557512	9732.553379	10114.542347	10779.245228

**Appendix D-2: Northumberland 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	0.107765	0.125376	0.205105	0.332181
2260001020	Recreational Equipment	Snowmobiles	2 Stroke	NOx	0.000000	0.000000	0.000000	0.000000
2260001030	Recreational Equipment	ATVs	2 Stroke	NOx	0.108963	0.149942	0.284631	0.482236
2260001060	Recreational Equipment	Specialty Vehicles/Carts	2 Stroke	NOx	0.161202	0.151055	0.123086	0.126835
2260002006	Construction and Mining Equipment	Tampers/Rammers	2 Stroke	NOx	0.014559	0.014001	0.007594	0.007617
2260002009	Construction and Mining Equipment	Plate Compactors	2 Stroke	NOx	0.000213	0.000361	0.000497	0.000509
2260002021	Construction and Mining Equipment	Paving Equipment	2 Stroke	NOx	0.000258	0.000440	0.000595	0.000609
2260002027	Construction and Mining Equipment	Signal Boards/Light Plants	2 Stroke	NOx	0.000002	0.000004	0.000004	0.000005
2260002039	Construction and Mining Equipment	Concrete/Industrial Saws	2 Stroke	NOx	0.034881	0.031585	0.019540	0.020021
2260002054	Construction and Mining Equipment	Crushing/Proc. Equipment	2 Stroke	NOx	0.000057	0.000095	0.000117	0.000120
2260003030	Industrial Equipment	Sweepers/Scrubbers	2 Stroke	NOx	0.000406	0.000587	0.000495	0.000175
2260003040	Industrial Equipment	Other General Industrial Eqp	2 Stroke	NOx	0.000032	0.000047	0.000039	0.000014
2260004015	Lawn and Garden Equipment (Res)	Rotary Tillers < 6 HP	2 Stroke	NOx	0.002103	0.002753	0.005227	0.006595
2260004016	Lawn and Garden Equipment (Com)	Rotary Tillers < 6 HP	2 Stroke	NOx	0.011343	0.016064	0.030550	0.036596
2260004020	Lawn and Garden Equipment (Res)	Chain Saws < 6 HP	2 Stroke	NOx	0.027431	0.039392	0.075585	0.090374
2260004021	Lawn and Garden Equipment (Com)	Chain Saws < 6 HP	2 Stroke	NOx	0.517139	0.507922	0.347639	0.405037
2260004025	Lawn and Garden Equipment (Res)	Trimmers/Edgers/Brush Cutter	2 Stroke	NOx	0.042095	0.057882	0.106111	0.126698
2260004026	Lawn and Garden Equipment (Com)	Trimmers/Edgers/Brush Cutter	2 Stroke	NOx	0.154565	0.220318	0.305822	0.355560
2260004030	Lawn and Garden Equipment (Res)	Leafblowers/Vacuums	2 Stroke	NOx	0.025052	0.035685	0.067800	0.080991
2260004031	Lawn and Garden Equipment (Com)	Leafblowers/Vacuums	2 Stroke	NOx	0.246105	0.289703	0.285196	0.329632
2260004035	Lawn and Garden Equipment (Res)	Snowblowers	2 Stroke	NOx	0.006230	0.006492	0.007145	0.008324
2260004036	Lawn and Garden Equipment (Com)	Snowblowers	2 Stroke	NOx	0.013870	0.014455	0.015908	0.018535
2260004071	Lawn and Garden Equipment (Com)	Commercial Turf Equipment	2 Stroke	NOx	0.000048	0.000080	0.000132	0.000154
2260005035	Agricultural Equipment	Sprayers	2 Stroke	NOx	0.000782	0.001189	0.001921	0.002180
2260006005	Commercial Equipment	Generator Sets	2 Stroke	NOx	0.001538	0.002708	0.004345	0.005387
2260006010	Commercial Equipment	Pumps	2 Stroke	NOx	0.012223	0.020715	0.029575	0.036612
2260006015	Commercial Equipment	Air Compressors	2 Stroke	NOx	0.000005	0.000008	0.000012	0.000014
2260006035	Commercial Equipment	Hydro Power Units	2 Stroke	NOx	0.000074	0.000128	0.000178	0.000221
2260007005	Logging Equipment	Chain Saws > 6 HP	2 Stroke	NOx	0.012055	0.011668	0.007620	0.009650
2265001010	Recreational Equipment	Motorcycles: Off-Road	4 Stroke	NOx	0.179714	0.209084	0.265896	0.294088
2265001030	Recreational Equipment	ATVs	4 Stroke	NOx	1.622406	1.967599	2.418684	2.334529
2265001050	Recreational Equipment	Golf Carts	4 Stroke	NOx	0.971604	0.864626	0.823740	0.878214
2265001060	Recreational Equipment	Specialty Vehicles/Carts	4 Stroke	NOx	0.166862	0.171677	0.172360	0.165600
2265002003	Construction and Mining Equipment	Pavers	4 Stroke	NOx	0.031437	0.028057	0.020302	0.015436
2265002006	Construction and Mining Equipment	Tampers/Rammers	4 Stroke	NOx	0.000175	0.000158	0.000126	0.000127
2265002009	Construction and Mining Equipment	Plate Compactors	4 Stroke	NOx	0.037343	0.035729	0.025042	0.023290
2265002015	Construction and Mining Equipment	Rollers	4 Stroke	NOx	0.053863	0.047360	0.032580	0.026993
2265002021	Construction and Mining Equipment	Paving Equipment	4 Stroke	NOx	0.078423	0.073219	0.056459	0.053712
2265002024	Construction and Mining Equipment	Surfacing Equipment	4 Stroke	NOx	0.032592	0.029036	0.023132	0.022854
2265002027	Construction and Mining Equipment	Signal Boards/Light Plants	4 Stroke	NOx	0.001530	0.001399	0.001048	0.001073
2265002030	Construction and Mining Equipment	Trenchers	4 Stroke	NOx	0.094887	0.086113	0.060530	0.044708
2265002033	Construction and Mining Equipment	Bore/Drill Rigs	4 Stroke	NOx	0.029815	0.029368	0.021942	0.016329
2265002039	Construction and Mining Equipment	Concrete/Industrial Saws	4 Stroke	NOx	0.161379	0.140950	0.108708	0.104896
2265002042	Construction and Mining Equipment	Cement & Mortar Mixers	4 Stroke	NOx	0.060920	0.062725	0.052972	0.046235
2265002045	Construction and Mining Equipment	Cranes	4 Stroke	NOx	0.015621	0.014873	0.011049	0.004572
2265002054	Construction and Mining Equipment	Crushing/Proc. Equipment	4 Stroke	NOx	0.010548	0.009470	0.007599	0.006624
2265002057	Construction and Mining Equipment	Rough Terrain Forklifts	4 Stroke	NOx	0.026922	0.025288	0.016119	0.004240
2265002060	Construction and Mining Equipment	Rubber Tire Loaders	4 Stroke	NOx	0.066614	0.061290	0.031963	0.006837
2265002066	Construction and Mining Equipment	Tractors/Loaders/Backhoes	4 Stroke	NOx	0.050608	0.044025	0.036528	0.035222

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2265002072	Construction and Mining Equipment	Skid Steer Loaders	4 Stroke	NOx	0.071028	0.066463	0.047574	0.025479
2265002078	Construction and Mining Equipment	Dumpers/Tenders	4 Stroke	NOx	0.009978	0.010182	0.008894	0.007958
2265002081	Construction and Mining Equipment	Other Construction Equipment	4 Stroke	NOx	0.023246	0.022339	0.016970	0.007441
2265003010	Industrial Equipment	Aerial Lifts	4 Stroke	NOx	0.724967	0.628016	0.384131	0.115673
2265003020	Industrial Equipment	Forklifts	4 Stroke	NOx	3.060502	2.576265	1.121881	0.084764
2265003030	Industrial Equipment	Sweepers/Scrubbers	4 Stroke	NOx	0.544992	0.437195	0.153520	0.025878
2265003040	Industrial Equipment	Other General Industrial Eqp	4 Stroke	NOx	0.481358	0.400683	0.183723	0.053117
2265003050	Industrial Equipment	Other Material Handling Eqp	4 Stroke	NOx	0.048061	0.041138	0.024801	0.005922
2265003060	Industrial Equipment	ACRefrigeration	4 Stroke	NOx	0.007912	0.005983	0.003573	0.001266
2265003070	Industrial Equipment	Terminal Tractors	4 Stroke	NOx	0.316079	0.248252	0.050161	0.006317
2265004010	Lawn and Garden Equipment (Res)	Lawn mowers	4 Stroke	NOx	2.201794	2.368341	2.141473	1.590752
2265004011	Lawn and Garden Equipment (Com)	Lawn mowers	4 Stroke	NOx	2.077677	2.165128	1.414960	1.434761
2265004015	Lawn and Garden Equipment (Res)	Rotary Tillers < 6 HP	4 Stroke	NOx	0.186849	0.200672	0.180583	0.153301
2265004016	Lawn and Garden Equipment (Com)	Rotary Tillers < 6 HP	4 Stroke	NOx	1.047298	1.110292	0.937328	0.738585
2265004025	Lawn and Garden Equipment (Res)	Trimmers/Edgers/Brush Cutter	4 Stroke	NOx	0.012652	0.013360	0.011182	0.008798
2265004026	Lawn and Garden Equipment (Com)	Trimmers/Edgers/Brush Cutter	4 Stroke	NOx	0.053867	0.051796	0.041348	0.044226
2265004030	Lawn and Garden Equipment (Res)	Leafblowers/Vacuums	4 Stroke	NOx	0.024279	0.025632	0.021388	0.016783
2265004031	Lawn and Garden Equipment (Com)	Leafblowers/Vacuums	4 Stroke	NOx	3.555750	3.266878	2.664947	2.219008
2265004035	Lawn and Garden Equipment (Res)	Snowblowers	4 Stroke	NOx	0.203103	0.211669	0.232943	0.271404
2265004036	Lawn and Garden Equipment (Com)	Snowblowers	4 Stroke	NOx	0.452211	0.471285	0.518651	0.604285
2265004040	Lawn and Garden Equipment (Res)	Rear Engine Riding Mowers	4 Stroke	NOx	0.574327	0.559021	0.495896	0.554957
2265004041	Lawn and Garden Equipment (Com)	Rear Engine Riding Mowers	4 Stroke	NOx	0.288196	0.256865	0.240914	0.280382
2265004046	Lawn and Garden Equipment (Com)	Front Mowers	4 Stroke	NOx	0.304076	0.318143	0.305285	0.321011
2265004051	Lawn and Garden Equipment (Com)	Shredders < 6 HP	4 Stroke	NOx	0.119122	0.127273	0.111083	0.085098
2265004055	Lawn and Garden Equipment (Res)	Lawn & Garden Tractors	4 Stroke	NOx	7.890738	7.661328	6.676425	7.443460
2265004056	Lawn and Garden Equipment (Com)	Lawn & Garden Tractors	4 Stroke	NOx	4.025535	3.543961	3.276791	3.813227
2265004066	Lawn and Garden Equipment (Com)	Chippers/Stump Grinders	4 Stroke	NOx	1.286467	1.189505	0.747156	0.485650
2265004071	Lawn and Garden Equipment (Com)	Commercial Turf Equipment	4 Stroke	NOx	14.098155	12.827346	9.775174	10.763550
2265004075	Lawn and Garden Equipment (Res)	Other Lawn & Garden Eqp.	4 Stroke	NOx	0.216372	0.232622	0.228263	0.203387
2265004076	Lawn and Garden Equipment (Com)	Other Lawn & Garden Eqp.	4 Stroke	NOx	0.312855	0.335999	0.329196	0.292453
2265005010	Agricultural Equipment	2-Wheel Tractors	4 Stroke	NOx	0.013972	0.012148	0.011300	0.012795
2265005015	Agricultural Equipment	Agricultural Tractors	4 Stroke	NOx	0.155559	0.145903	0.084957	0.028931
2265005020	Agricultural Equipment	Combines	4 Stroke	NOx	0.001170	0.001166	0.001015	0.000691
2265005025	Agricultural Equipment	Balers	4 Stroke	NOx	0.110577	0.110218	0.095984	0.065343
2265005030	Agricultural Equipment	Agricultural Mowers	4 Stroke	NOx	0.011418	0.011140	0.009832	0.010538
2265005035	Agricultural Equipment	Sprayers	4 Stroke	NOx	0.179890	0.183220	0.163643	0.132053
2265005040	Agricultural Equipment	Tillers > 6 HP	4 Stroke	NOx	0.172440	0.182719	0.203341	0.239166
2265005045	Agricultural Equipment	Swathers	4 Stroke	NOx	0.175144	0.174576	0.152030	0.103498
2265005055	Agricultural Equipment	Other Agricultural Equipment	4 Stroke	NOx	0.209375	0.208731	0.182537	0.130944
2265005060	Agricultural Equipment	Irrigation Sets	4 Stroke	NOx	0.304714	0.282130	0.127790	0.036578
2265006005	Commercial Equipment	Generator Sets	4 Stroke	NOx	2.350714	2.384846	2.228332	2.578087
2265006010	Commercial Equipment	Pumps	4 Stroke	NOx	0.711414	0.696024	0.555020	0.560690
2265006015	Commercial Equipment	Air Compressors	4 Stroke	NOx	0.490237	0.474410	0.359155	0.281463
2265006025	Commercial Equipment	Welders	4 Stroke	NOx	0.885166	0.834657	0.740577	0.719780
2265006030	Commercial Equipment	Pressure Washers	4 Stroke	NOx	1.037009	1.021409	0.860252	1.007977
2265006035	Commercial Equipment	Hydro Power Units	4 Stroke	NOx	0.051688	0.048260	0.044023	0.052759
2265007010	Logging Equipment	Shredders > 6 HP	4 Stroke	NOx	0.040813	0.044690	0.047873	0.053738
2265007015	Logging Equipment	Forest Eqp - Feller/Bunch/Skidder	4 Stroke	NOx	0.000459	0.000466	0.000359	0.000455
2265008005	Airport Equipment	Airport Ground Support Equipment	4 Stroke	NOx	0.000000	0.000000	0.000000	0.000000

**Appendix D-2: Northumberland 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
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	0.056025	0.055069	0.046642	0.030284
2267002003	Construction and Mining Equipment	Pavers	LPG	NOx	0.017089	0.016290	0.009488	0.002625
2267002015	Construction and Mining Equipment	Rollers	LPG	NOx	0.028788	0.026406	0.011279	0.003074
2267002021	Construction and Mining Equipment	Paving Equipment	LPG	NOx	0.004506	0.004443	0.003440	0.001416
2267002024	Construction and Mining Equipment	Surfacing Equipment	LPG	NOx	0.002941	0.002784	0.001508	0.000430
2267002030	Construction and Mining Equipment	Trenchers	LPG	NOx	0.052306	0.050070	0.030316	0.008155
2267002033	Construction and Mining Equipment	Bore/Drill Rigs	LPG	NOx	0.017214	0.017250	0.014999	0.009955
2267002039	Construction and Mining Equipment	Concrete/Industrial Saws	LPG	NOx	0.049858	0.043958	0.013342	0.005097
2267002045	Construction and Mining Equipment	Cranes	LPG	NOx	0.018415	0.018155	0.014017	0.005623
2267002054	Construction and Mining Equipment	Crushing/Proc. Equipment	LPG	NOx	0.003065	0.003015	0.002287	0.000829
2267002057	Construction and Mining Equipment	Rough Terrain Forklifts	LPG	NOx	0.033256	0.032193	0.021456	0.005756
2267002060	Construction and Mining Equipment	Rubber Tire Loaders	LPG	NOx	0.082744	0.078447	0.042842	0.009461
2267002066	Construction and Mining Equipment	Tractors/Loaders/Backhoes	LPG	NOx	0.008791	0.008178	0.003763	0.000919
2267002072	Construction and Mining Equipment	Skid Steer Loaders	LPG	NOx	0.068368	0.066838	0.048446	0.019635
2267002081	Construction and Mining Equipment	Other Construction Equipment	LPG	NOx	0.027491	0.027208	0.021646	0.010003
2267003010	Industrial Equipment	Aerial Lifts	LPG	NOx	0.996274	0.996335	0.787282	0.383061
2267003020	Industrial Equipment	Forklifts	LPG	NOx	93.903283	90.428574	50.905792	11.874025
2267003030	Industrial Equipment	Sweepers/Scrubbers	LPG	NOx	0.716561	0.661398	0.265717	0.084679
2267003040	Industrial Equipment	Other General Industrial Equipm	LPG	NOx	0.219146	0.206874	0.099957	0.026051
2267003050	Industrial Equipment	Other Material Handling Equipment	LPG	NOx	0.053810	0.053705	0.041708	0.015611
2267003070	Industrial Equipment	Terminal Tractors	LPG	NOx	0.437583	0.393791	0.110399	0.049123
2267004066	Lawn and Garden Equipment (Com)	Chippers/Stump Grinders	LPG	NOx	1.059102	0.993012	0.492694	0.116329
2267005055	Agricultural Equipment	Other Agricultural Equipment	LPG	NOx	0.003054	0.002968	0.002477	0.001561
2267005060	Agricultural Equipment	Irrigation Sets	LPG	NOx	0.002571	0.002322	0.000995	0.000202
2267006005	Commercial Equipment	Generator Sets	LPG	NOx	1.168399	1.228800	1.127286	0.813424
2267006010	Commercial Equipment	Pumps	LPG	NOx	0.272096	0.279510	0.217414	0.108879
2267006015	Commercial Equipment	Air Compressors	LPG	NOx	0.328034	0.331616	0.226847	0.069695
2267006025	Commercial Equipment	Welders	LPG	NOx	0.408980	0.418917	0.300857	0.089704
2267006030	Commercial Equipment	Pressure Washers	LPG	NOx	0.005374	0.005623	0.004795	0.002396
2267006035	Commercial Equipment	Hydro Power Units	LPG	NOx	0.005094	0.005044	0.002849	0.001011
2267008005	Airport Equipment	Airport Ground Support Equipment	LPG	NOx	0.000000	0.000000	0.000000	0.000000
2268002081	Construction and Mining Equipment	Other Construction Equipment	CNG	NOx	0.001084	0.001073	0.000855	0.000398
2268003020	Industrial Equipment	Forklifts	CNG	NOx	6.836897	6.524010	3.646803	0.851693
2268003030	Industrial Equipment	Sweepers/Scrubbers	CNG	NOx	0.008170	0.007787	0.004301	0.001000
2268003040	Industrial Equipment	Other General Industrial Equipment	CNG	NOx	0.005342	0.005063	0.002628	0.000632
2268003060	Industrial Equipment	AC\Refrigeration	CNG	NOx	0.011826	0.011040	0.004949	0.001553
2268003070	Industrial Equipment	Terminal Tractors	CNG	NOx	0.030803	0.027506	0.007664	0.003417
2268005055	Agricultural Equipment	Other Agricultural Equipment	CNG	NOx	0.003695	0.003019	0.001688	0.000474
2268005060	Agricultural Equipment	Irrigation Sets	CNG	NOx	0.288413	0.166129	0.018688	0.000000
2268006005	Commercial Equipment	Generator Sets	CNG	NOx	0.382963	0.390196	0.348315	0.247407
2268006010	Commercial Equipment	Pumps	CNG	NOx	0.019203	0.019250	0.015426	0.008327
2268006015	Commercial Equipment	Air Compressors	CNG	NOx	0.027468	0.026914	0.018096	0.005051
2268006020	Commercial Equipment	Gas Compressors	CNG	NOx	1.014376	0.356017	0.104355	0.130407
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	0.579340	0.586598	0.580995	0.474336
2270002003	Construction and Mining Equipment	Pavers	Diesel	NOx	1.379198	1.316051	1.123406	0.514459
2270002006	Construction and Mining Equipment	Tampers/Rammers	Diesel	NOx	0.003031	0.002956	0.002543	0.002175

**Appendix D-2: Northumberland 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
2270002009	Construction and Mining Equipment	Plate Compactors	Diesel	NOx	0.047283	0.045973	0.039813	0.035632
2270002015	Construction and Mining Equipment	Rollers	Diesel	NOx	3.422022	3.304372	2.901264	1.463982
2270002018	Construction and Mining Equipment	Scrapers	Diesel	NOx	3.961922	3.807623	3.166959	1.387024
2270002021	Construction and Mining Equipment	Paving Equipment	Diesel	NOx	0.218102	0.210817	0.182780	0.103865
2270002024	Construction and Mining Equipment	Surfacing Equipment	Diesel	NOx	0.146960	0.144421	0.132163	0.090238
2270002027	Construction and Mining Equipment	Signal Boards/Light Plants	Diesel	NOx	0.413249	0.403504	0.366898	0.343672
2270002030	Construction and Mining Equipment	Trenchers	Diesel	NOx	1.591877	1.573610	1.463978	1.021151
2270002033	Construction and Mining Equipment	Bore/Drill Rigs	Diesel	NOx	1.889916	1.873201	1.730449	1.217137
2270002036	Construction and Mining Equipment	Excavators	Diesel	NOx	13.678292	12.884808	10.575815	3.625411
2270002039	Construction and Mining Equipment	Concrete/Industrial Saws	Diesel	NOx	0.107033	0.105602	0.100522	0.073606
2270002042	Construction and Mining Equipment	Cement & Mortar Mixers	Diesel	NOx	0.071006	0.070808	0.066897	0.051452
2270002045	Construction and Mining Equipment	Cranes	Diesel	NOx	3.725007	3.577760	3.000644	1.391072
2270002048	Construction and Mining Equipment	Graders	Diesel	NOx	3.475470	3.251545	2.662172	0.903233
2270002051	Construction and Mining Equipment	Off-highway Trucks	Diesel	NOx	12.901195	12.483212	10.446841	5.166509
2270002054	Construction and Mining Equipment	Crushing/Proc. Equipment	Diesel	NOx	0.654010	0.634705	0.549922	0.306868
2270002057	Construction and Mining Equipment	Rough Terrain Forklifts	Diesel	NOx	4.372184	4.316986	3.902645	2.028450
2270002060	Construction and Mining Equipment	Rubber Tire Loaders	Diesel	NOx	16.749284	16.175759	13.950344	7.048535
2270002066	Construction and Mining Equipment	Tractors/Loaders/Backhoes	Diesel	NOx	10.175957	10.070025	9.428276	6.238496
2270002069	Construction and Mining Equipment	Crawler Tractor/Dozers	Diesel	NOx	14.717373	14.078458	11.873357	5.215644
2270002072	Construction and Mining Equipment	Skid Steer Loaders	Diesel	NOx	6.524520	6.581942	6.441236	5.258456
2270002075	Construction and Mining Equipment	Off-Highway Tractors	Diesel	NOx	1.776375	1.738316	1.529881	0.900554
2270002078	Construction and Mining Equipment	Dumpers/Tenders	Diesel	NOx	0.021000	0.021164	0.020799	0.017139
2270002081	Construction and Mining Equipment	Other Construction Equipment	Diesel	NOx	1.725002	1.679227	1.474678	0.863395
2270003010	Industrial Equipment	Aerial Lifts	Diesel	NOx	1.035877	1.038677	1.002429	0.840604
2270003020	Industrial Equipment	Forklifts	Diesel	NOx	10.931685	10.832109	9.276911	3.468659
2270003030	Industrial Equipment	Sweepers/Scrubbers	Diesel	NOx	5.795572	5.544121	4.813957	2.020306
2270003040	Industrial Equipment	Other General Industrial Eqp	Diesel	NOx	6.600636	6.389230	5.465960	2.716574
2270003050	Industrial Equipment	Other Material Handling Eqp	Diesel	NOx	0.305293	0.301179	0.276829	0.195344
2270003060	Industrial Equipment	AC/Refrigeration	Diesel	NOx	13.337102	13.224973	12.604027	10.367144
2270003070	Industrial Equipment	Terminal Tractors	Diesel	NOx	7.479110	7.178483	5.804362	1.611627
2270004031	Lawn and Garden Equipment (Com)	Leafblowers/Vacuums	Diesel	NOx	0.000785	0.000827	0.000899	0.000943
2270004036	Lawn and Garden Equipment (Com)	Snowblowers	Diesel	NOx	0.165401	0.172567	0.175820	0.134185
2270004046	Lawn and Garden Equipment (Com)	Front Mowers	Diesel	NOx	4.824295	4.987962	5.180197	5.271870
2270004056	Lawn and Garden Equipment (Com)	Lawn & Garden Tractors	Diesel	NOx	1.064652	1.070061	1.036199	1.140368
2270004066	Lawn and Garden Equipment (Com)	Chippers/Stump Grinders	Diesel	NOx	7.208461	7.562198	7.872977	6.172611
2270004071	Lawn and Garden Equipment (Com)	Commercial Turf Equipment	Diesel	NOx	0.726975	0.729490	0.732488	0.496994
2270004076	Lawn and Garden Equipment (Com)	Other Lawn & Garden Eqp.	Diesel	NOx	0.018919	0.019840	0.021014	0.020424
2270005010	Agricultural Equipment	2-Wheel Tractors	Diesel	NOx	0.002769	0.002573	0.001998	0.002037
2270005015	Agricultural Equipment	Agricultural Tractors	Diesel	NOx	119.815538	116.146066	104.223356	66.244758
2270005020	Agricultural Equipment	Combines	Diesel	NOx	12.148103	11.934370	10.890918	7.410904
2270005025	Agricultural Equipment	Balers	Diesel	NOx	0.052071	0.052741	0.052186	0.042790
2270005030	Agricultural Equipment	Agricultural Mowers	Diesel	NOx	0.011102	0.010977	0.010225	0.007122
2270005035	Agricultural Equipment	Sprayers	Diesel	NOx	0.860944	0.864897	0.833202	0.602973
2270005040	Agricultural Equipment	Tillers > 6 HP	Diesel	NOx	0.001416	0.001421	0.001353	0.000969
2270005045	Agricultural Equipment	Swathers	Diesel	NOx	0.850604	0.843177	0.792462	0.579186
2270005055	Agricultural Equipment	Other Agricultural Equipment	Diesel	NOx	2.502880	2.446572	2.197710	1.434939
2270005060	Agricultural Equipment	Irrigation Sets	Diesel	NOx	1.569799	1.552994	1.403014	0.782971
2270006005	Commercial Equipment	Generator Sets	Diesel	NOx	5.087048	5.223618	5.297322	4.436169
2270006010	Commercial Equipment	Pumps	Diesel	NOx	1.211054	1.243425	1.255078	1.033908

**Appendix D-2: Northumberland 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
2270006015	Commercial Equipment	Air Compressors	Diesel	NOx	3.056841	3.104928	2.975483	1.890882
2270006020	Commercial Equipment	Gas Compressors	Diesel	NOx	0.000000	0.000000	0.000000	0.000000
2270006025	Commercial Equipment	Welders	Diesel	NOx	1.480090	1.527749	1.580326	1.419231
2270006030	Commercial Equipment	Pressure Washers	Diesel	NOx	0.169936	0.174216	0.176076	0.148482
2270006035	Commercial Equipment	Hydro Power Units	Diesel	NOx	0.132223	0.133716	0.128650	0.087736
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	2.394278	2.116661	1.416862	0.296770
2270008005	Airport Equipment	Airport Ground Support Equipment	Diesel	NOx	0.000000	0.000000	0.000000	0.000000
2270009010	Construction and Mining Equipment	Other Underground Mining Equipment	Diesel	NOx	2.162256	2.093421	1.890860	1.607946
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	8.686063	10.479800	15.375869	21.911425
2282005015	Pleasure Craft	Personal Water Craft	2 Stroke	NOx	2.431773	3.213722	5.021576	6.484346
2282010005	Pleasure Craft	Inboard/Stern Drive	4 Stroke	NOx	23.260868	24.514444	28.011657	34.072979
2282020005	Pleasure Craft	Inboard/Stern Drive	Diesel	NOx	25.561254	26.998949	28.795981	30.382358
2282020010	Pleasure Craft	Outboards	Diesel	NOx	0.096250	0.098402	0.102487	0.108540
2285002005	Railroad Equipment	Line Haul Locomotives	Diesel	NOx				
2285002010	Railroad Equipment	Yard Locomotive	Diesel	NOx				
2285002015	Railroad Equipment	Railway Maintenance	Diesel	NOx	0.203796	0.204758	0.196391	0.141172
2285004015	Railroad Equipment	Railway Maintenance	4 Stroke	NOx	0.003856	0.003488	0.002858	0.002856
2285006015	Railroad Equipment	Railway Maintenance	LPG	NOx	0.000503	0.000494	0.000361	0.000114
Northumberland County Total Annual NOx Emissions					542.570605	532.768587	457.993396	320.555912

**Appendix D-2: Northumberland 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	VOC	45.042233	52.302543	59.930558	48.611973
2260001020	Recreational Equipment	Snowmobiles	2 Stroke	VOC	0.000000	0.000000	0.000000	0.000000
2260001030	Recreational Equipment	ATVs	2 Stroke	VOC	44.970457	62.093107	74.468003	30.009267
2260001060	Recreational Equipment	Specialty Vehicles/Carts	2 Stroke	VOC	0.906630	0.844674	0.720228	0.736564
2260002006	Construction and Mining Equipment	Tampers/Rammers	2 Stroke	VOC	1.217403	1.165520	0.524954	0.520782
2260002009	Construction and Mining Equipment	Plate Compactors	2 Stroke	VOC	0.073737	0.044630	0.018432	0.018886
2260002021	Construction and Mining Equipment	Paving Equipment	2 Stroke	VOC	0.087866	0.051701	0.021944	0.022484
2260002027	Construction and Mining Equipment	Signal Boards/Light Plants	2 Stroke	VOC	0.000631	0.000344	0.000189	0.000194
2260002039	Construction and Mining Equipment	Concrete/Industrial Saws	2 Stroke	VOC	3.251405	2.675777	1.297303	1.329223
2260002054	Construction and Mining Equipment	Crushing/Proc. Equipment	2 Stroke	VOC	0.016313	0.008710	0.004438	0.004547
2260003030	Industrial Equipment	Sweepers/Scrubbers	2 Stroke	VOC	0.107990	0.050209	0.019088	0.006766
2260003040	Industrial Equipment	Other General Industrial Eqp	2 Stroke	VOC	0.008571	0.003970	0.001500	0.000532
2260004015	Lawn and Garden Equipment (Res)	Rotary Tillers < 6 HP	2 Stroke	VOC	0.821975	0.713035	0.319428	0.264445
2260004016	Lawn and Garden Equipment (Com)	Rotary Tillers < 6 HP	2 Stroke	VOC	4.212145	3.472452	1.170250	1.149642
2260004020	Lawn and Garden Equipment (Res)	Chain Saws < 6 HP	2 Stroke	VOC	10.613204	8.798395	3.192800	3.239042
2260004021	Lawn and Garden Equipment (Com)	Chain Saws < 6 HP	2 Stroke	VOC	50.727333	43.559810	21.917931	25.536773
2260004025	Lawn and Garden Equipment (Res)	Trimmers/Edgers/Brush Cutter	2 Stroke	VOC	15.643505	13.092791	5.066489	5.206818
2260004026	Lawn and Garden Equipment (Com)	Trimmers/Edgers/Brush Cutter	2 Stroke	VOC	39.960275	29.120179	11.154485	12.920181
2260004030	Lawn and Garden Equipment (Res)	Leafblowers/Vacuums	2 Stroke	VOC	10.304010	8.693215	3.688804	3.872364
2260004031	Lawn and Garden Equipment (Com)	Leafblowers/Vacuums	2 Stroke	VOC	38.332590	30.964784	13.020344	14.896599
2260004035	Lawn and Garden Equipment (Res)	Snowblowers	2 Stroke	VOC	5.981315	6.234208	6.861841	7.996311
2260004036	Lawn and Garden Equipment (Com)	Snowblowers	2 Stroke	VOC	11.773112	12.271036	13.506715	15.740182
2260004071	Lawn and Garden Equipment (Com)	Commercial Turf Equipment	2 Stroke	VOC	0.017231	0.012033	0.004328	0.005044
2260005035	Agricultural Equipment	Sprayers	2 Stroke	VOC	0.273947	0.199063	0.068814	0.076840
2260006005	Commercial Equipment	Generator Sets	2 Stroke	VOC	0.531779	0.350502	0.153010	0.189789
2260006010	Commercial Equipment	Pumps	2 Stroke	VOC	3.645456	2.111095	1.113100	1.342470
2260006015	Commercial Equipment	Air Compressors	2 Stroke	VOC	0.001292	0.000712	0.000425	0.000527
2260006035	Commercial Equipment	Hydro Power Units	2 Stroke	VOC	0.020158	0.011168	0.006588	0.008169
2260007005	Logging Equipment	Chain Saws > 6 HP	2 Stroke	VOC	1.044588	0.988685	0.528241	0.668999
2265001010	Recreational Equipment	Motorcycles: Off-Road	4 Stroke	VOC	1.679959	1.886584	2.274472	2.317970
2265001030	Recreational Equipment	ATVs	4 Stroke	VOC	17.547237	20.577967	25.454874	25.413593
2265001050	Recreational Equipment	Golf Carts	4 Stroke	VOC	3.344225	2.977194	2.837221	3.024846
2265001060	Recreational Equipment	Specialty Vehicles/Carts	4 Stroke	VOC	0.991967	0.955943	0.853823	0.697800
2265002003	Construction and Mining Equipment	Pavers	4 Stroke	VOC	0.067270	0.059143	0.044373	0.041178
2265002006	Construction and Mining Equipment	Tampers/Rammers	4 Stroke	VOC	0.000569	0.000495	0.000390	0.000393
2265002009	Construction and Mining Equipment	Plate Compactors	4 Stroke	VOC	0.263938	0.257960	0.158027	0.130836
2265002015	Construction and Mining Equipment	Rollers	4 Stroke	VOC	0.108907	0.094014	0.075923	0.072777
2265002021	Construction and Mining Equipment	Paving Equipment	4 Stroke	VOC	0.367659	0.339130	0.226898	0.212293
2265002024	Construction and Mining Equipment	Surfacing Equipment	4 Stroke	VOC	0.135929	0.125352	0.082475	0.083801
2265002027	Construction and Mining Equipment	Signal Boards/Light Plants	4 Stroke	VOC	0.009510	0.009121	0.005214	0.005342
2265002030	Construction and Mining Equipment	Trenchers	4 Stroke	VOC	0.268955	0.248917	0.155281	0.145319
2265002033	Construction and Mining Equipment	Bore/Drill Rigs	4 Stroke	VOC	0.157371	0.156295	0.099190	0.076489
2265002039	Construction and Mining Equipment	Concrete/Industrial Saws	4 Stroke	VOC	0.392775	0.338616	0.292021	0.294275
2265002042	Construction and Mining Equipment	Cement & Mortar Mixers	4 Stroke	VOC	0.393310	0.360230	0.282863	0.218257
2265002045	Construction and Mining Equipment	Cranes	4 Stroke	VOC	0.013592	0.012759	0.009717	0.004614
2265002054	Construction and Mining Equipment	Crushing/Proc. Equipment	4 Stroke	VOC	0.035536	0.032443	0.021852	0.021471
2265002057	Construction and Mining Equipment	Rough Terrain Forklifts	4 Stroke	VOC	0.020235	0.019004	0.012143	0.002703
2265002060	Construction and Mining Equipment	Rubber Tire Loaders	4 Stroke	VOC	0.048881	0.045022	0.023014	0.003123
2265002066	Construction and Mining Equipment	Tractors/Loaders/Backhoes	4 Stroke	VOC	0.131902	0.112652	0.097009	0.097675

**Appendix D-2: Northumberland 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
2265002072	Construction and Mining Equipment	Skid Steer Loaders	4 Stroke	VOC	0.091466	0.082630	0.061527	0.044087
2265002078	Construction and Mining Equipment	Dumpers/Tenders	4 Stroke	VOC	0.054987	0.050100	0.039862	0.033377
2265002081	Construction and Mining Equipment	Other Construction Equipment	4 Stroke	VOC	0.017517	0.016848	0.012894	0.005419
2265003010	Industrial Equipment	Aerial Lifts	4 Stroke	VOC	0.794731	0.665121	0.397808	0.125090
2265003020	Industrial Equipment	Forklifts	4 Stroke	VOC	2.247601	1.895986	0.819423	0.044058
2265003030	Industrial Equipment	Sweepers/Scrubbers	4 Stroke	VOC	0.697142	0.560572	0.220948	0.055895
2265003040	Industrial Equipment	Other General Industrial Eqp	4 Stroke	VOC	2.487946	2.153704	0.760074	0.259966
2265003050	Industrial Equipment	Other Material Handling Eqp	4 Stroke	VOC	0.056610	0.046577	0.027626	0.007523
2265003060	Industrial Equipment	ACRefrigeration	4 Stroke	VOC	0.025579	0.019466	0.011672	0.004158
2265003070	Industrial Equipment	Terminal Tractors	4 Stroke	VOC	0.231616	0.181940	0.031143	0.002679
2265004010	Lawn and Garden Equipment (Res)	Lawn mowers	4 Stroke	VOC	30.378434	30.147962	28.111597	20.872814
2265004011	Lawn and Garden Equipment (Com)	Lawn mowers	4 Stroke	VOC	21.626385	22.539010	12.879809	12.026118
2265004015	Lawn and Garden Equipment (Res)	Rotary Tillers < 6 HP	4 Stroke	VOC	2.533354	2.533513	2.339245	1.655166
2265004016	Lawn and Garden Equipment (Com)	Rotary Tillers < 6 HP	4 Stroke	VOC	10.358211	10.267734	8.695195	5.461725
2265004025	Lawn and Garden Equipment (Res)	Trimmers/Edgers/Brush Cutter	4 Stroke	VOC	0.158688	0.162429	0.144038	0.108614
2265004026	Lawn and Garden Equipment (Com)	Trimmers/Edgers/Brush Cutter	4 Stroke	VOC	0.357275	0.358665	0.232151	0.214491
2265004030	Lawn and Garden Equipment (Res)	Leafblowers/Vacuums	4 Stroke	VOC	0.322878	0.330699	0.293874	0.225123
2265004031	Lawn and Garden Equipment (Com)	Leafblowers/Vacuums	4 Stroke	VOC	7.192700	6.387227	5.330823	5.415180
2265004035	Lawn and Garden Equipment (Res)	Snowblowers	4 Stroke	VOC	2.168769	2.260410	2.487858	2.899011
2265004036	Lawn and Garden Equipment (Com)	Snowblowers	4 Stroke	VOC	1.777649	1.852992	2.039821	2.377471
2265004040	Lawn and Garden Equipment (Res)	Rear Engine Riding Mowers	4 Stroke	VOC	2.896659	2.829783	2.699589	3.063907
2265004041	Lawn and Garden Equipment (Com)	Rear Engine Riding Mowers	4 Stroke	VOC	0.830772	0.734355	0.674775	0.785316
2265004046	Lawn and Garden Equipment (Com)	Front Mowers	4 Stroke	VOC	1.322784	1.255283	1.104702	1.126116
2265004051	Lawn and Garden Equipment (Com)	Shredders < 6 HP	4 Stroke	VOC	1.257138	1.222289	1.066818	0.667516
2265004055	Lawn and Garden Equipment (Res)	Lawn & Garden Tractors	4 Stroke	VOC	34.680394	33.284786	30.378940	34.233444
2265004056	Lawn and Garden Equipment (Com)	Lawn & Garden Tractors	4 Stroke	VOC	11.251273	9.717343	8.696543	10.118899
2265004066	Lawn and Garden Equipment (Com)	Chippers/Stump Grinders	4 Stroke	VOC	1.705989	1.535582	1.160030	1.049473
2265004071	Lawn and Garden Equipment (Com)	Commercial Turf Equipment	4 Stroke	VOC	41.671957	39.403568	32.046998	33.629267
2265004075	Lawn and Garden Equipment (Res)	Other Lawn & Garden Eqp.	4 Stroke	VOC	1.942445	1.873098	1.687964	1.296146
2265004076	Lawn and Garden Equipment (Com)	Other Lawn & Garden Eqp.	4 Stroke	VOC	2.767412	2.668706	2.404709	1.845857
2265005010	Agricultural Equipment	2-Wheel Tractors	4 Stroke	VOC	0.041513	0.035662	0.032652	0.036975
2265005015	Agricultural Equipment	Agricultural Tractors	4 Stroke	VOC	0.135892	0.125266	0.077986	0.036346
2265005020	Agricultural Equipment	Combines	4 Stroke	VOC	0.000983	0.000986	0.000872	0.000592
2265005025	Agricultural Equipment	Balers	4 Stroke	VOC	0.101929	0.102463	0.091188	0.062071
2265005030	Agricultural Equipment	Agricultural Mowers	4 Stroke	VOC	0.042652	0.038293	0.031430	0.032905
2265005035	Agricultural Equipment	Sprayers	4 Stroke	VOC	0.620124	0.601788	0.503471	0.399887
2265005040	Agricultural Equipment	Tillers > 6 HP	4 Stroke	VOC	1.200766	1.190161	1.139661	1.005306
2265005045	Agricultural Equipment	Swathers	4 Stroke	VOC	0.148503	0.148932	0.131893	0.089600
2265005055	Agricultural Equipment	Other Agricultural Equipment	4 Stroke	VOC	0.235502	0.228823	0.196096	0.155279
2265005060	Agricultural Equipment	Irrigation Sets	4 Stroke	VOC	0.248358	0.232518	0.102103	0.031584
2265006005	Commercial Equipment	Generator Sets	4 Stroke	VOC	10.840654	10.574293	9.083883	10.084049
2265006010	Commercial Equipment	Pumps	4 Stroke	VOC	3.274387	3.338639	2.016152	2.363589
2265006015	Commercial Equipment	Air Compressors	4 Stroke	VOC	1.323765	1.324945	0.896987	1.011551
2265006025	Commercial Equipment	Welders	4 Stroke	VOC	2.057342	1.911229	1.791503	2.062780
2265006030	Commercial Equipment	Pressure Washers	4 Stroke	VOC	5.729709	5.778347	4.200548	4.544739
2265006035	Commercial Equipment	Hydro Power Units	4 Stroke	VOC	0.202205	0.195283	0.155723	0.191895
2265007010	Logging Equipment	Shredders > 6 HP	4 Stroke	VOC	0.194489	0.185696	0.165058	0.172766
2265007015	Logging Equipment	Forest Eqp - Feller/Bunch/Skidder	4 Stroke	VOC	0.003503	0.003677	0.001960	0.002482
2265008005	Airport Equipment	Airport Ground Support Equipment	4 Stroke	VOC	0.000000	0.000000	0.000000	0.000000

Appendix D-2: Northumberland 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
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	0.015179	0.014952	0.012816	0.008365
2267002003	Construction and Mining Equipment	Pavers	LPG	VOC	0.004658	0.004475	0.002659	0.000546
2267002015	Construction and Mining Equipment	Rollers	LPG	VOC	0.007903	0.007329	0.003165	0.000493
2267002021	Construction and Mining Equipment	Paving Equipment	LPG	VOC	0.001219	0.001207	0.000953	0.000370
2267002024	Construction and Mining Equipment	Surfacing Equipment	LPG	VOC	0.000804	0.000767	0.000424	0.000087
2267002030	Construction and Mining Equipment	Trenchers	LPG	VOC	0.014255	0.013747	0.008503	0.001712
2267002033	Construction and Mining Equipment	Bore/Drill Rigs	LPG	VOC	0.004625	0.004651	0.004103	0.002729
2267002039	Construction and Mining Equipment	Concrete/Industrial Saws	LPG	VOC	0.013815	0.012360	0.003656	0.000778
2267002045	Construction and Mining Equipment	Cranes	LPG	VOC	0.004982	0.004936	0.003888	0.001474
2267002054	Construction and Mining Equipment	Crushing/Proc. Equipment	LPG	VOC	0.000830	0.000820	0.000635	0.000213
2267002057	Construction and Mining Equipment	Rough Terrain Forklifts	LPG	VOC	0.009040	0.008808	0.006008	0.001271
2267002060	Construction and Mining Equipment	Rubber Tire Loaders	LPG	VOC	0.022615	0.021623	0.012127	0.001626
2267002066	Construction and Mining Equipment	Tractors/Loaders/Backhoes	LPG	VOC	0.002411	0.002266	0.001065	0.000144
2267002072	Construction and Mining Equipment	Skid Steer Loaders	LPG	VOC	0.018531	0.018217	0.013465	0.005032
2267002081	Construction and Mining Equipment	Other Construction Equipment	LPG	VOC	0.007426	0.007382	0.005984	0.002678
2267003010	Industrial Equipment	Aerial Lifts	LPG	VOC	0.268363	0.269945	0.217528	0.100998
2267003020	Industrial Equipment	Forklifts	LPG	VOC	25.603831	24.880766	14.379575	2.040585
2267003030	Industrial Equipment	Sweepers/Scrubbers	LPG	VOC	0.197203	0.184279	0.074328	0.013610
2267003040	Industrial Equipment	Other General Industrial Equipm	LPG	VOC	0.059921	0.057158	0.028141	0.004216
2267003050	Industrial Equipment	Other Material Handling Equipment	LPG	VOC	0.014509	0.014568	0.011562	0.003985
2267003070	Industrial Equipment	Terminal Tractors	LPG	VOC	0.120715	0.110232	0.030497	0.007407
2267004066	Lawn and Garden Equipment (Com)	Chippers/Stump Grinders	LPG	VOC	0.289676	0.274160	0.139180	0.019157
2267005055	Agricultural Equipment	Other Agricultural Equipment	LPG	VOC	0.000830	0.000809	0.000683	0.000434
2267005060	Agricultural Equipment	Irrigation Sets	LPG	VOC	0.000706	0.000644	0.000283	0.000032
2267006005	Commercial Equipment	Generator Sets	LPG	VOC	0.237257	0.250024	0.231937	0.167504
2267006010	Commercial Equipment	Pumps	LPG	VOC	0.055954	0.057617	0.045106	0.021250
2267006015	Commercial Equipment	Air Compressors	LPG	VOC	0.068034	0.068975	0.047325	0.011825
2267006025	Commercial Equipment	Welders	LPG	VOC	0.110127	0.113722	0.083870	0.018428
2267006030	Commercial Equipment	Pressure Washers	LPG	VOC	0.001433	0.001508	0.001315	0.000621
2267006035	Commercial Equipment	Hydro Power Units	LPG	VOC	0.001060	0.001053	0.000582	0.000168
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	0.000017	0.000017	0.000014	0.000006
2268003020	Industrial Equipment	Forklifts	CNG	VOC	0.110009	0.105884	0.060813	0.008765
2268003030	Industrial Equipment	Sweepers/Scrubbers	CNG	VOC	0.000132	0.000126	0.000072	0.000010
2268003040	Industrial Equipment	Other General Industrial Equipment	CNG	VOC	0.000086	0.000082	0.000044	0.000006
2268003060	Industrial Equipment	AC\Refrigeration	CNG	VOC	0.000191	0.000180	0.000082	0.000016
2268003070	Industrial Equipment	Terminal Tractors	CNG	VOC	0.000501	0.000454	0.000125	0.000031
2268005055	Agricultural Equipment	Other Agricultural Equipment	CNG	VOC	0.000063	0.000052	0.000029	0.000008
2268005060	Agricultural Equipment	Irrigation Sets	CNG	VOC	0.004858	0.002844	0.000325	0.000000
2268006005	Commercial Equipment	Generator Sets	CNG	VOC	0.004628	0.004724	0.004261	0.003044
2268006010	Commercial Equipment	Pumps	CNG	VOC	0.000234	0.000235	0.000190	0.000100
2268006015	Commercial Equipment	Air Compressors	CNG	VOC	0.000338	0.000332	0.000225	0.000052
2268006020	Commercial Equipment	Gas Compressors	CNG	VOC	0.017635	0.006792	0.001050	0.001312
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	0.185229	0.179876	0.158019	0.102729
2270002003	Construction and Mining Equipment	Pavers	Diesel	VOC	0.133006	0.119778	0.092859	0.053681
2270002006	Construction and Mining Equipment	Tampers/Rammers	Diesel	VOC	0.000493	0.000479	0.000395	0.000304

**Appendix D-2: Northumberland 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
2270002009	Construction and Mining Equipment	Plate Compactors	Diesel	VOC	0.008263	0.007864	0.006176	0.004620
2270002015	Construction and Mining Equipment	Rollers	Diesel	VOC	0.377028	0.335993	0.251603	0.144845
2270002018	Construction and Mining Equipment	Scrapers	Diesel	VOC	0.276644	0.246844	0.183361	0.140133
2270002021	Construction and Mining Equipment	Paving Equipment	Diesel	VOC	0.024307	0.022354	0.016847	0.010351
2270002024	Construction and Mining Equipment	Surfacing Equipment	Diesel	VOC	0.016770	0.015224	0.011442	0.007270
2270002027	Construction and Mining Equipment	Signal Boards/Light Plants	Diesel	VOC	0.081514	0.073518	0.049495	0.033444
2270002030	Construction and Mining Equipment	Trenchers	Diesel	VOC	0.224488	0.201984	0.146126	0.079918
2270002033	Construction and Mining Equipment	Bore/Drill Rigs	Diesel	VOC	0.176018	0.169391	0.145779	0.099794
2270002036	Construction and Mining Equipment	Excavators	Diesel	VOC	1.091590	0.980643	0.798528	0.499269
2270002039	Construction and Mining Equipment	Concrete/Industrial Saws	Diesel	VOC	0.018085	0.015815	0.010749	0.005880
2270002042	Construction and Mining Equipment	Cement & Mortar Mixers	Diesel	VOC	0.008465	0.008321	0.007552	0.005566
2270002045	Construction and Mining Equipment	Cranes	Diesel	VOC	0.284362	0.261276	0.204749	0.133052
2270002048	Construction and Mining Equipment	Graders	Diesel	VOC	0.271793	0.244037	0.200955	0.126761
2270002051	Construction and Mining Equipment	Off-highway Trucks	Diesel	VOC	0.940778	0.812750	0.581849	0.509547
2270002054	Construction and Mining Equipment	Crushing/Proc. Equipment	Diesel	VOC	0.057969	0.053042	0.040483	0.024576
2270002057	Construction and Mining Equipment	Rough Terrain Forklifts	Diesel	VOC	0.542136	0.501105	0.377430	0.204597
2270002060	Construction and Mining Equipment	Rubber Tire Loaders	Diesel	VOC	1.356877	1.262659	0.997277	0.653071
2270002066	Construction and Mining Equipment	Tractors/Loaders/Backhoes	Diesel	VOC	2.342371	2.281030	1.994799	1.139458
2270002069	Construction and Mining Equipment	Crawler Tractor/Dozers	Diesel	VOC	1.179016	1.058637	0.813683	0.546360
2270002072	Construction and Mining Equipment	Skid Steer Loaders	Diesel	VOC	2.261498	2.173407	1.818135	1.052912
2270002075	Construction and Mining Equipment	Off-Highway Tractors	Diesel	VOC	0.159515	0.141708	0.100735	0.070118
2270002078	Construction and Mining Equipment	Dumpers/Tenders	Diesel	VOC	0.006873	0.006752	0.006026	0.003745
2270002081	Construction and Mining Equipment	Other Construction Equipment	Diesel	VOC	0.148848	0.137307	0.107960	0.069264
2270003010	Industrial Equipment	Aerial Lifts	Diesel	VOC	0.305459	0.302129	0.274960	0.182733
2270003020	Industrial Equipment	Forklifts	Diesel	VOC	1.078237	1.025810	0.785443	0.417693
2270003030	Industrial Equipment	Sweepers/Scrubbers	Diesel	VOC	0.557674	0.495360	0.389274	0.223027
2270003040	Industrial Equipment	Other General Industrial Eqp	Diesel	VOC	0.603674	0.568579	0.446509	0.272602
2270003050	Industrial Equipment	Other Material Handling Eqp	Diesel	VOC	0.056819	0.055804	0.050223	0.033162
2270003060	Industrial Equipment	AC/Refrigeration	Diesel	VOC	1.807448	1.536155	1.124563	0.604539
2270003070	Industrial Equipment	Terminal Tractors	Diesel	VOC	0.590738	0.563053	0.474551	0.284154
2270004031	Lawn and Garden Equipment (Com)	Leafblowers/Vacuums	Diesel	VOC	0.000158	0.000161	0.000156	0.000131
2270004036	Lawn and Garden Equipment (Com)	Snowblowers	Diesel	VOC	0.015882	0.015677	0.014378	0.010915
2270004046	Lawn and Garden Equipment (Com)	Front Mowers	Diesel	VOC	0.950872	0.903475	0.705257	0.479465
2270004056	Lawn and Garden Equipment (Com)	Lawn & Garden Tractors	Diesel	VOC	0.210584	0.196769	0.146042	0.121219
2270004066	Lawn and Garden Equipment (Com)	Chippers/Stump Grinders	Diesel	VOC	0.815097	0.815586	0.762889	0.572917
2270004071	Lawn and Garden Equipment (Com)	Commercial Turf Equipment	Diesel	VOC	0.098280	0.081728	0.061445	0.041616
2270004076	Lawn and Garden Equipment (Com)	Other Lawn & Garden Eqp.	Diesel	VOC	0.003028	0.003024	0.002790	0.002141
2270005010	Agricultural Equipment	2-Wheel Tractors	Diesel	VOC	0.000497	0.000460	0.000324	0.000279
2270005015	Agricultural Equipment	Agricultural Tractors	Diesel	VOC	14.879923	13.382780	10.212160	6.010679
2270005020	Agricultural Equipment	Combines	Diesel	VOC	1.083676	1.059042	0.947705	0.675275
2270005025	Agricultural Equipment	Balers	Diesel	VOC	0.010969	0.010372	0.008475	0.005238
2270005030	Agricultural Equipment	Agricultural Mowers	Diesel	VOC	0.001766	0.001689	0.001414	0.000880
2270005035	Agricultural Equipment	Sprayers	Diesel	VOC	0.158077	0.147058	0.114915	0.067743
2270005040	Agricultural Equipment	Tillers > 6 HP	Diesel	VOC	0.000163	0.000154	0.000128	0.000084
2270005045	Agricultural Equipment	Swathers	Diesel	VOC	0.097565	0.096960	0.090391	0.065337
2270005055	Agricultural Equipment	Other Agricultural Equipment	Diesel	VOC	0.331707	0.304591	0.231313	0.138827
2270005060	Agricultural Equipment	Irrigation Sets	Diesel	VOC	0.204177	0.185401	0.138324	0.075993
2270006005	Commercial Equipment	Generator Sets	Diesel	VOC	0.772062	0.754821	0.667076	0.451369
2270006010	Commercial Equipment	Pumps	Diesel	VOC	0.169772	0.167019	0.149591	0.106509

**Appendix D-2: Northumberland 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
2270006015	Commercial Equipment	Air Compressors	Diesel	VOC	0.382695	0.362461	0.288031	0.165049
2270006020	Commercial Equipment	Gas Compressors	Diesel	VOC	0.000000	0.000000	0.000000	0.000000
2270006025	Commercial Equipment	Welders	Diesel	VOC	0.582595	0.568091	0.489121	0.271186
2270006030	Commercial Equipment	Pressure Washers	Diesel	VOC	0.024268	0.023909	0.021829	0.016336
2270006035	Commercial Equipment	Hydro Power Units	Diesel	VOC	0.017827	0.016569	0.012769	0.007602
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	0.174105	0.151545	0.107864	0.051713
2270008005	Airport Equipment	Airport Ground Support Equipment	Diesel	VOC	0.000000	0.000000	0.000000	0.000000
2270009010	Construction and Mining Equipment	Other Underground Mining Equipment	Diesel	VOC	0.480309	0.465084	0.395120	0.286460
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	547.490840	509.396316	403.958035	282.113180
2282005015	Pleasure Craft	Personal Water Craft	2 Stroke	VOC	191.417527	170.759305	113.063442	76.656095
2282010005	Pleasure Craft	Inboard/Stern Drive	4 Stroke	VOC	36.594165	36.455358	35.756952	34.596833
2282020005	Pleasure Craft	Inboard/Stern Drive	Diesel	VOC	0.956304	1.006232	1.044266	1.032764
2282020010	Pleasure Craft	Outboards	Diesel	VOC	0.024025	0.022890	0.019058	0.011277
2285002005	Railroad Equipment	Line Haul Locomotives	Diesel	VOC				
2285002010	Railroad Equipment	Yard Locomotive	Diesel	VOC				
2285002015	Railroad Equipment	Railway Maintenance	Diesel	VOC	0.039533	0.038887	0.034974	0.022780
2285004015	Railroad Equipment	Railway Maintenance	4 Stroke	VOC	0.013257	0.012027	0.008970	0.009305
2285006015	Railroad Equipment	Railway Maintenance	LPG	VOC	0.000136	0.000134	0.000101	0.000028
Northumberland County Total Annual VOC Emissions					1368.347942	1291.293545	1016.827063	783.435955

**Appendix D-2: Northumberland 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	42.624001	49.493031	62.454388	66.621460
2260001020	Recreational Equipment	Snowmobiles	2 Stroke	CO	0.000000	0.000000	0.000000	0.000000
2260001030	Recreational Equipment	ATVs	2 Stroke	CO	42.025742	58.032753	88.460503	101.463270
2260001060	Recreational Equipment	Specialty Vehicles/Carts	2 Stroke	CO	27.133522	27.876772	30.276663	32.470281
2260002006	Construction and Mining Equipment	Tampers/Rammers	2 Stroke	CO	3.310099	3.276067	2.739545	2.791868
2260002009	Construction and Mining Equipment	Plate Compactors	2 Stroke	CO	0.159554	0.128915	0.102171	0.104685
2260002021	Construction and Mining Equipment	Paving Equipment	2 Stroke	CO	0.191490	0.153506	0.123247	0.126280
2260002027	Construction and Mining Equipment	Signal Boards/Light Plants	2 Stroke	CO	0.001400	0.001101	0.000947	0.000970
2260002039	Construction and Mining Equipment	Concrete/Industrial Saws	2 Stroke	CO	8.746973	8.244861	7.096899	7.271516
2260002054	Construction and Mining Equipment	Crushing/Proc. Equipment	2 Stroke	CO	0.037329	0.029392	0.025148	0.025767
2260003030	Industrial Equipment	Sweepers/Scrubbers	2 Stroke	CO	0.250006	0.174729	0.106375	0.037708
2260003040	Industrial Equipment	Other General Industrial Eqp	2 Stroke	CO	0.019919	0.013921	0.008475	0.003004
2260004015	Lawn and Garden Equipment (Res)	Rotary Tillers < 6 HP	2 Stroke	CO	1.730399	1.575282	1.177159	1.252976
2260004016	Lawn and Garden Equipment (Com)	Rotary Tillers < 6 HP	2 Stroke	CO	9.202313	8.370803	6.233614	7.028327
2260004020	Lawn and Garden Equipment (Res)	Chain Saws < 6 HP	2 Stroke	CO	22.571390	20.636274	15.712538	17.801952
2260004021	Lawn and Garden Equipment (Com)	Chain Saws < 6 HP	2 Stroke	CO	135.358919	132.142602	121.999769	142.143002
2260004025	Lawn and Garden Equipment (Res)	Trimmers/Edgers/Brush Cutter	2 Stroke	CO	32.561941	29.214936	20.319404	22.824089
2260004026	Lawn and Garden Equipment (Com)	Trimmers/Edgers/Brush Cutter	2 Stroke	CO	91.462915	80.602445	66.728942	77.687005
2260004030	Lawn and Garden Equipment (Res)	Leafblowers/Vacuums	2 Stroke	CO	20.321335	18.502534	13.773160	15.580930
2260004031	Lawn and Garden Equipment (Com)	Leafblowers/Vacuums	2 Stroke	CO	92.235733	86.596047	74.501835	86.569428
2260004035	Lawn and Garden Equipment (Res)	Snowblowers	2 Stroke	CO	11.793513	12.292309	13.530126	15.717469
2260004036	Lawn and Garden Equipment (Com)	Snowblowers	2 Stroke	CO	26.257125	27.367638	30.123543	35.104786
2260004071	Lawn and Garden Equipment (Com)	Commercial Turf Equipment	2 Stroke	CO	0.037627	0.032827	0.026621	0.031021
2260005035	Agricultural Equipment	Sprayers	2 Stroke	CO	0.577868	0.488107	0.338472	0.381896
2260006005	Commercial Equipment	Generator Sets	2 Stroke	CO	1.157058	0.997684	0.879496	1.090749
2260006010	Commercial Equipment	Pumps	2 Stroke	CO	8.147551	6.467033	5.779241	7.071440
2260006015	Commercial Equipment	Air Compressors	2 Stroke	CO	0.003015	0.002508	0.002476	0.003070
2260006035	Commercial Equipment	Hydro Power Units	2 Stroke	CO	0.046865	0.039020	0.038366	0.047571
2260007005	Logging Equipment	Chain Saws > 6 HP	2 Stroke	CO	2.866765	2.962787	2.921210	3.699608
2265001010	Recreational Equipment	Motorcycles: Off-Road	4 Stroke	CO	18.359783	21.345051	25.585569	24.193750
2265001030	Recreational Equipment	ATVs	4 Stroke	CO	165.505750	200.259610	271.688290	317.568120
2265001050	Recreational Equipment	Golf Carts	4 Stroke	CO	171.089750	178.309520	187.753490	200.169650
2265001060	Recreational Equipment	Specialty Vehicles/Carts	4 Stroke	CO	23.134050	23.231037	23.634682	25.002593
2265002003	Construction and Mining Equipment	Pavers	4 Stroke	CO	2.869052	2.948149	2.957341	2.928760
2265002006	Construction and Mining Equipment	Tampers/Rammers	4 Stroke	CO	0.022691	0.023261	0.024675	0.025360
2265002009	Construction and Mining Equipment	Plate Compactors	4 Stroke	CO	5.298271	5.374490	5.489026	5.609058
2265002015	Construction and Mining Equipment	Rollers	4 Stroke	CO	5.377223	5.512192	5.483205	5.490077
2265002021	Construction and Mining Equipment	Paving Equipment	4 Stroke	CO	10.373700	10.565710	10.966399	11.255544
2265002024	Construction and Mining Equipment	Surfacing Equipment	4 Stroke	CO	4.702079	4.839014	4.954564	5.060581
2265002027	Construction and Mining Equipment	Signal Boards/Light Plants	4 Stroke	CO	0.239274	0.245080	0.249390	0.255534
2265002030	Construction and Mining Equipment	Trenchers	4 Stroke	CO	8.793609	8.994361	8.957930	8.852037
2265002033	Construction and Mining Equipment	Bore/Drill Rigs	4 Stroke	CO	2.590764	2.601671	2.579320	2.558938
2265002039	Construction and Mining Equipment	Concrete/Industrial Saws	4 Stroke	CO	21.715883	22.309924	22.529189	22.946284
2265002042	Construction and Mining Equipment	Cement & Mortar Mixers	4 Stroke	CO	9.082984	9.046614	9.329998	9.675791
2265002045	Construction and Mining Equipment	Cranes	4 Stroke	CO	0.363499	0.359751	0.308856	0.197590
2265002054	Construction and Mining Equipment	Crushing/Proc. Equipment	4 Stroke	CO	1.275178	1.313181	1.339973	1.352289
2265002057	Construction and Mining Equipment	Rough Terrain Forklifts	4 Stroke	CO	0.474488	0.454138	0.313348	0.092620
2265002060	Construction and Mining Equipment	Rubber Tire Loaders	4 Stroke	CO	1.137638	1.066957	0.598316	0.107998
2265002066	Construction and Mining Equipment	Tractors/Loaders/Backhoes	4 Stroke	CO	6.838543	7.064893	7.252107	7.386442

**Appendix D-2: Northumberland 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
2265002072	Construction and Mining Equipment	Skid Steer Loaders	4 Stroke	CO	3.025321	3.051018	2.931383	2.593023
2265002078	Construction and Mining Equipment	Dumpers/Tenders	4 Stroke	CO	1.414297	1.408428	1.451182	1.508167
2265002081	Construction and Mining Equipment	Other Construction Equipment	4 Stroke	CO	0.398869	0.387438	0.308188	0.143332
2265003010	Industrial Equipment	Aerial Lifts	4 Stroke	CO	23.423385	21.064777	14.680103	4.939089
2265003020	Industrial Equipment	Forklifts	4 Stroke	CO	52.949347	45.285991	21.037973	1.450775
2265003030	Industrial Equipment	Sweepers/Scrubbers	4 Stroke	CO	22.761326	20.202966	11.975692	3.681328
2265003040	Industrial Equipment	Other General Industrial Eqp	4 Stroke	CO	58.067002	52.623343	36.546265	12.727227
2265003050	Industrial Equipment	Other Material Handling Eqp	4 Stroke	CO	1.790733	1.624713	1.136079	0.357759
2265003060	Industrial Equipment	ACRefrigeration	4 Stroke	CO	1.095559	1.017245	0.744876	0.266522
2265003070	Industrial Equipment	Terminal Tractors	4 Stroke	CO	5.498578	4.445811	0.978763	0.096423
2265004010	Lawn and Garden Equipment (Res)	Lawn mowers	4 Stroke	CO	329.603686	341.489621	371.772534	424.981750
2265004011	Lawn and Garden Equipment (Com)	Lawn mowers	4 Stroke	CO	316.846789	330.226651	355.020298	411.601963
2265004015	Lawn and Garden Equipment (Res)	Rotary Tillers < 6 HP	4 Stroke	CO	27.763666	28.731272	31.227383	35.631882
2265004016	Lawn and Garden Equipment (Com)	Rotary Tillers < 6 HP	4 Stroke	CO	154.361740	160.666750	175.042500	200.757830
2265004025	Lawn and Garden Equipment (Res)	Trimmers/Edgers/Brush Cutter	4 Stroke	CO	1.851026	1.923482	2.091724	2.395852
2265004026	Lawn and Garden Equipment (Com)	Trimmers/Edgers/Brush Cutter	4 Stroke	CO	7.868580	8.340875	9.189870	10.669562
2265004030	Lawn and Garden Equipment (Res)	Leafblowers/Vacuums	4 Stroke	CO	3.538177	3.676731	3.994981	4.572076
2265004031	Lawn and Garden Equipment (Com)	Leafblowers/Vacuums	4 Stroke	CO	314.923956	337.200862	369.942226	414.656538
2265004035	Lawn and Garden Equipment (Res)	Snowblowers	4 Stroke	CO	34.646732	36.116393	39.759732	46.343940
2265004036	Lawn and Garden Equipment (Com)	Snowblowers	4 Stroke	CO	77.133478	80.405344	88.516604	103.175024
2265004040	Lawn and Garden Equipment (Res)	Rear Engine Riding Mowers	4 Stroke	CO	77.514900	81.405981	93.002117	109.212387
2265004041	Lawn and Garden Equipment (Com)	Rear Engine Riding Mowers	4 Stroke	CO	40.775194	43.744223	49.401164	57.584915
2265004046	Lawn and Garden Equipment (Com)	Front Mowers	4 Stroke	CO	44.033558	45.541834	51.230148	60.882848
2265004051	Lawn and Garden Equipment (Com)	Shredders < 6 HP	4 Stroke	CO	17.688127	18.397371	20.063538	22.984082
2265004055	Lawn and Garden Equipment (Res)	Lawn & Garden Tractors	4 Stroke	CO	1030.645045	1083.292569	1246.354064	1465.738436
2265004056	Lawn and Garden Equipment (Com)	Lawn & Garden Tractors	4 Stroke	CO	548.431414	591.724824	671.609405	782.894173
2265004066	Lawn and Garden Equipment (Com)	Chippers/Stump Grinders	4 Stroke	CO	72.834246	76.344976	76.970166	82.077188
2265004071	Lawn and Garden Equipment (Com)	Commercial Turf Equipment	4 Stroke	CO	1696.399548	1788.223318	1942.972428	2253.471567
2265004075	Lawn and Garden Equipment (Res)	Other Lawn & Garden Eqp.	4 Stroke	CO	33.641838	34.812467	38.119971	44.689308
2265004076	Lawn and Garden Equipment (Com)	Other Lawn & Garden Eqp.	4 Stroke	CO	47.960414	49.627413	54.327031	63.655192
2265005010	Agricultural Equipment	2-Wheel Tractors	4 Stroke	CO	2.002352	2.142326	2.375017	2.689626
2265005015	Agricultural Equipment	Agricultural Tractors	4 Stroke	CO	4.050113	4.068749	3.307714	2.443965
2265005020	Agricultural Equipment	Combines	4 Stroke	CO	0.019478	0.019575	0.017596	0.012407
2265005025	Agricultural Equipment	Balers	4 Stroke	CO	1.841010	1.850290	1.663626	1.174029
2265005030	Agricultural Equipment	Agricultural Mowers	4 Stroke	CO	1.557188	1.619279	1.813665	2.076646
2265005035	Agricultural Equipment	Sprayers	4 Stroke	CO	13.327997	13.641607	14.472791	15.873808
2265005040	Agricultural Equipment	Tillers > 6 HP	4 Stroke	CO	33.141742	33.990716	36.241101	40.673712
2265005045	Agricultural Equipment	Swathers	4 Stroke	CO	2.916001	2.930700	2.635040	1.859560
2265005055	Agricultural Equipment	Other Agricultural Equipment	4 Stroke	CO	6.050033	6.164101	6.174344	5.838078
2265005060	Agricultural Equipment	Irrigation Sets	4 Stroke	CO	5.675294	5.428192	2.975620	1.188569
2265006005	Commercial Equipment	Generator Sets	4 Stroke	CO	325.398649	348.375876	413.966960	519.038401
2265006010	Commercial Equipment	Pumps	4 Stroke	CO	75.191155	81.282271	93.149007	114.068911
2265006015	Commercial Equipment	Air Compressors	4 Stroke	CO	37.351372	40.311088	45.450917	54.315723
2265006025	Commercial Equipment	Welders	4 Stroke	CO	93.836790	102.326522	118.184058	142.858526
2265006030	Commercial Equipment	Pressure Washers	4 Stroke	CO	142.512987	154.086140	181.451777	225.098770
2265006035	Commercial Equipment	Hydro Power Units	4 Stroke	CO	7.211701	7.882749	9.233986	11.431177
2265007010	Logging Equipment	Shredders > 6 HP	4 Stroke	CO	6.170236	6.568954	7.805699	10.177806
2265007015	Logging Equipment	Forest Eqp - Feller/Bunch/Skidder	4 Stroke	CO	0.073573	0.079961	0.093082	0.117898
2265008005	Airport Equipment	Airport Ground Support Equipment	4 Stroke	CO	0.000000	0.000000	0.000000	0.000000

**Appendix D-2: Northumberland 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
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	0.224143	0.226371	0.208411	0.148131
2267002003	Construction and Mining Equipment	Pavers	LPG	CO	0.068924	0.070836	0.054452	0.015188
2267002015	Construction and Mining Equipment	Rollers	LPG	CO	0.117204	0.119775	0.075977	0.017150
2267002021	Construction and Mining Equipment	Paving Equipment	LPG	CO	0.017983	0.018577	0.016670	0.008448
2267002024	Construction and Mining Equipment	Surfacing Equipment	LPG	CO	0.011899	0.012217	0.009062	0.002507
2267002030	Construction and Mining Equipment	Trenchers	LPG	CO	0.210913	0.216904	0.170243	0.047436
2267002033	Construction and Mining Equipment	Bore/Drill Rigs	LPG	CO	0.068113	0.070546	0.067550	0.049446
2267002039	Construction and Mining Equipment	Concrete/Industrial Saws	LPG	CO	0.205524	0.208834	0.105126	0.026691
2267002045	Construction and Mining Equipment	Cranes	LPG	CO	0.073540	0.075966	0.068103	0.034235
2267002054	Construction and Mining Equipment	Crushing/Proc. Equipment	LPG	CO	0.012250	0.012649	0.011229	0.005253
2267002057	Construction and Mining Equipment	Rough Terrain Forklifts	LPG	CO	0.133639	0.137664	0.113963	0.034023
2267002060	Construction and Mining Equipment	Rubber Tire Loaders	LPG	CO	0.334921	0.343955	0.257929	0.055120
2267002066	Construction and Mining Equipment	Tractors/Loaders/Backhoes	LPG	CO	0.035753	0.036615	0.024931	0.005053
2267002072	Construction and Mining Equipment	Skid Steer Loaders	LPG	CO	0.273691	0.282355	0.244012	0.113727
2267002081	Construction and Mining Equipment	Other Construction Equipment	LPG	CO	0.109544	0.113226	0.103178	0.057599
2267003010	Industrial Equipment	Aerial Lifts	LPG	CO	3.955207	4.159741	3.831268	2.127915
2267003020	Industrial Equipment	Forklifts	LPG	CO	378.890261	396.024458	306.244756	69.099888
2267003030	Industrial Equipment	Sweepers/Scrubbers	LPG	CO	2.927174	3.038920	1.895149	0.465998
2267003040	Industrial Equipment	Other General Industrial Equipm	LPG	CO	0.887552	0.924690	0.649095	0.147067
2267003050	Industrial Equipment	Other Material Handling Equipment	LPG	CO	0.213918	0.224895	0.205500	0.098965
2267003070	Industrial Equipment	Terminal Tractors	LPG	CO	1.793242	1.854643	0.993207	0.254473
2267004066	Lawn and Garden Equipment (Com)	Chippers/Stump Grinders	LPG	CO	4.291083	4.402736	3.117954	0.666213
2267005055	Agricultural Equipment	Other Agricultural Equipment	LPG	CO	0.012266	0.012213	0.010992	0.007556
2267005060	Agricultural Equipment	Irrigation Sets	LPG	CO	0.010479	0.010319	0.006633	0.001106
2267006005	Commercial Equipment	Generator Sets	LPG	CO	3.113772	3.462057	3.694977	3.111865
2267006010	Commercial Equipment	Pumps	LPG	CO	0.737520	0.817163	0.803051	0.479280
2267006015	Commercial Equipment	Air Compressors	LPG	CO	0.899327	0.994113	0.921928	0.364057
2267006025	Commercial Equipment	Welders	LPG	CO	1.622897	1.794500	1.647552	0.529711
2267006030	Commercial Equipment	Pressure Washers	LPG	CO	0.021038	0.023349	0.023497	0.014228
2267006035	Commercial Equipment	Hydro Power Units	LPG	CO	0.014037	0.015474	0.013133	0.005229
2267008005	Airport Equipment	Airport Ground Support Equipment	LPG	CO	0.000000	0.000000	0.000000	0.000000
2268002081	Construction and Mining Equipment	Other Construction Equipment	CNG	CO	0.004321	0.004467	0.004070	0.002272
2268003020	Industrial Equipment	Forklifts	CNG	CO	27.631266	28.560383	21.797663	4.777195
2268003030	Industrial Equipment	Sweepers/Scrubbers	CNG	CO	0.033045	0.034149	0.025906	0.005587
2268003040	Industrial Equipment	Other General Industrial Equipment	CNG	CO	0.021598	0.022302	0.016429	0.003473
2268003060	Industrial Equipment	AC/Refrigeration	CNG	CO	0.048030	0.049485	0.033581	0.008256
2268003070	Industrial Equipment	Terminal Tractors	CNG	CO	0.126289	0.129301	0.068191	0.016904
2268005055	Agricultural Equipment	Other Agricultural Equipment	CNG	CO	0.016154	0.013274	0.007507	0.002120
2268005060	Agricultural Equipment	Irrigation Sets	CNG	CO	1.238325	0.728822	0.084105	0.000000
2268006005	Commercial Equipment	Generator Sets	CNG	CO	1.033952	1.099350	1.108905	0.897924
2268006010	Commercial Equipment	Pumps	CNG	CO	0.052381	0.055545	0.053001	0.034192
2268006015	Commercial Equipment	Air Compressors	CNG	CO	0.075841	0.080160	0.070574	0.025550
2268006020	Commercial Equipment	Gas Compressors	CNG	CO	4.538560	4.271189	0.543564	0.679261
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	0.689292	0.671946	0.603308	0.398800
2270002003	Construction and Mining Equipment	Pavers	Diesel	CO	0.700024	0.614619	0.517833	0.224374
2270002006	Construction and Mining Equipment	Tampers/Rammers	Diesel	CO	0.001765	0.001808	0.001886	0.002128

**Appendix D-2: Northumberland 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
2270002009	Construction and Mining Equipment	Plate Compactors	Diesel	CO	0.028267	0.028329	0.027781	0.029706
2270002015	Construction and Mining Equipment	Rollers	Diesel	CO	2.014294	1.820608	1.533728	0.741610
2270002018	Construction and Mining Equipment	Scrapers	Diesel	CO	1.820137	1.659762	1.392878	0.649128
2270002021	Construction and Mining Equipment	Paving Equipment	Diesel	CO	0.130681	0.119900	0.095865	0.053246
2270002024	Construction and Mining Equipment	Surfacing Equipment	Diesel	CO	0.098595	0.092102	0.076105	0.043017
2270002027	Construction and Mining Equipment	Signal Boards/Light Plants	Diesel	CO	0.257336	0.242451	0.194564	0.159933
2270002030	Construction and Mining Equipment	Trenchers	Diesel	CO	1.209282	1.132266	0.952505	0.505957
2270002033	Construction and Mining Equipment	Bore/Drill Rigs	Diesel	CO	0.726422	0.696164	0.607772	0.372035
2270002036	Construction and Mining Equipment	Excavators	Diesel	CO	5.587865	4.734977	4.288085	1.330086
2270002039	Construction and Mining Equipment	Concrete/Industrial Saws	Diesel	CO	0.093515	0.086704	0.071949	0.038454
2270002042	Construction and Mining Equipment	Cement & Mortar Mixers	Diesel	CO	0.032081	0.031883	0.030957	0.025085
2270002045	Construction and Mining Equipment	Cranes	Diesel	CO	1.020144	0.937287	0.768449	0.371487
2270002048	Construction and Mining Equipment	Graders	Diesel	CO	1.316269	1.078318	0.953537	0.333655
2270002051	Construction and Mining Equipment	Off-highway Trucks	Diesel	CO	5.709628	4.782804	3.529366	0.746026
2270002054	Construction and Mining Equipment	Crushing/Proc. Equipment	Diesel	CO	0.238918	0.219938	0.185208	0.098679
2270002057	Construction and Mining Equipment	Rough Terrain Forklifts	Diesel	CO	3.007687	2.826270	2.458522	1.331934
2270002060	Construction and Mining Equipment	Rubber Tire Loaders	Diesel	CO	7.736677	7.091976	5.824876	2.733553
2270002066	Construction and Mining Equipment	Tractors/Loaders/Backhoes	Diesel	CO	9.450435	9.355018	8.974519	5.825641
2270002069	Construction and Mining Equipment	Crawler Tractor/Dozers	Diesel	CO	6.620802	5.879148	4.972258	2.060731
2270002072	Construction and Mining Equipment	Skid Steer Loaders	Diesel	CO	8.264506	8.213243	7.718646	5.273833
2270002075	Construction and Mining Equipment	Off-Highway Tractors	Diesel	CO	1.003165	0.899544	0.689744	0.306345
2270002078	Construction and Mining Equipment	Dumpers/Tenders	Diesel	CO	0.023626	0.023920	0.023525	0.016894
2270002081	Construction and Mining Equipment	Other Construction Equipment	Diesel	CO	0.961127	0.887434	0.718074	0.379892
2270003010	Industrial Equipment	Aerial Lifts	Diesel	CO	1.050277	1.073889	1.081924	0.818417
2270003020	Industrial Equipment	Forklifts	Diesel	CO	6.378378	6.356738	6.781137	1.175910
2270003030	Industrial Equipment	Sweepers/Scrubbers	Diesel	CO	1.962679	1.737663	1.608164	0.689753
2270003040	Industrial Equipment	Other General Industrial Eqp	Diesel	CO	2.128739	2.001200	1.701709	0.958332
2270003050	Industrial Equipment	Other Material Handling Eqp	Diesel	CO	0.195058	0.193878	0.186284	0.128342
2270003060	Industrial Equipment	AC/Refrigeration	Diesel	CO	6.896621	6.406265	6.369817	3.304283
2270003070	Industrial Equipment	Terminal Tractors	Diesel	CO	2.697395	2.453150	2.545731	0.569136
2270004031	Lawn and Garden Equipment (Com)	Leafblowers/Vacuums	Diesel	CO	0.000480	0.000503	0.000547	0.000564
2270004036	Lawn and Garden Equipment (Com)	Snowblowers	Diesel	CO	0.064516	0.063517	0.058753	0.037430
2270004046	Lawn and Garden Equipment (Com)	Front Mowers	Diesel	CO	3.031189	3.006173	2.755210	2.230514
2270004056	Lawn and Garden Equipment (Com)	Lawn & Garden Tractors	Diesel	CO	0.662363	0.649796	0.574753	0.588976
2270004066	Lawn and Garden Equipment (Com)	Chippers/Stump Grinders	Diesel	CO	3.231080	3.255905	3.225178	2.323993
2270004071	Lawn and Garden Equipment (Com)	Commercial Turf Equipment	Diesel	CO	0.340799	0.304122	0.282856	0.156413
2270004076	Lawn and Garden Equipment (Com)	Other Lawn & Garden Eqp.	Diesel	CO	0.010814	0.011111	0.011497	0.010100
2270005010	Agricultural Equipment	2-Wheel Tractors	Diesel	CO	0.002709	0.002713	0.002510	0.002148
2270005015	Agricultural Equipment	Agricultural Tractors	Diesel	CO	72.613166	67.046330	55.062439	30.015569
2270005020	Agricultural Equipment	Combines	Diesel	CO	4.522781	4.454403	4.237238	2.778517
2270005025	Agricultural Equipment	Balers	Diesel	CO	0.037747	0.037643	0.036653	0.026851
2270005030	Agricultural Equipment	Agricultural Mowers	Diesel	CO	0.008673	0.008642	0.008497	0.006107
2270005035	Agricultural Equipment	Sprayers	Diesel	CO	0.509363	0.490603	0.437985	0.274334
2270005040	Agricultural Equipment	Tillers > 6 HP	Diesel	CO	0.000982	0.000934	0.000800	0.000484
2270005045	Agricultural Equipment	Swathers	Diesel	CO	0.435108	0.450161	0.484182	0.387624
2270005055	Agricultural Equipment	Other Agricultural Equipment	Diesel	CO	1.442403	1.358873	1.138537	0.643079
2270005060	Agricultural Equipment	Irrigation Sets	Diesel	CO	0.646268	0.616298	0.543947	0.318021
2270006005	Commercial Equipment	Generator Sets	Diesel	CO	2.725078	2.707524	2.589247	1.897567
2270006010	Commercial Equipment	Pumps	Diesel	CO	0.633722	0.632191	0.613899	0.469999

**Appendix D-2: Northumberland 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
2270006015	Commercial Equipment	Air Compressors	Diesel	CO	1.445671	1.410428	1.335203	0.830252
2270006020	Commercial Equipment	Gas Compressors	Diesel	CO	0.000000	0.000000	0.000000	0.000000
2270006025	Commercial Equipment	Welders	Diesel	CO	2.145283	2.146517	2.010343	1.293692
2270006030	Commercial Equipment	Pressure Washers	Diesel	CO	0.082057	0.081209	0.077202	0.058592
2270006035	Commercial Equipment	Hydro Power Units	Diesel	CO	0.065320	0.063040	0.058456	0.037794
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	0.823720	0.672969	0.553827	0.105677
2270008005	Airport Equipment	Airport Ground Support Equipment	Diesel	CO	0.000000	0.000000	0.000000	0.000000
2270009010	Construction and Mining Equipment	Other Underground Mining Equipment	Diesel	CO	1.899986	1.856618	1.636238	1.267175
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	1068.470685	1026.230856	903.685783	783.445525
2282005015	Pleasure Craft	Personal Water Craft	2 Stroke	CO	386.662544	375.825273	352.441317	349.830402
2282010005	Pleasure Craft	Inboard/Sterndrive	4 Stroke	CO	529.153236	517.048243	476.737791	404.732124
2282020005	Pleasure Craft	Inboard/Sterndrive	Diesel	CO	4.043134	4.265326	4.819257	5.806635
2282020010	Pleasure Craft	Outboards	Diesel	CO	0.069398	0.067816	0.061304	0.046176
2285002005	Railroad Equipment	Line Haul Locomotives	Diesel	CO				
2285002010	Railroad Equipment	Yard Locomotive	Diesel	CO				
2285002015	Railroad Equipment	Railway Maintenance	Diesel	CO	0.168299	0.164115	0.149188	0.094076
2285004015	Railroad Equipment	Railway Maintenance	4 Stroke	CO	0.467592	0.489835	0.530471	0.577690
2285006015	Railroad Equipment	Railway Maintenance	LPG	CO	0.002013	0.002082	0.001815	0.000723
Northumberland County Total Annual CO Emissions					9449.868220	9731.881432	10113.939038	10778.846428

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

Tons/Summer Day

Equipment Type	Fuel	Pollutant	2002	2004	2009	2018
Recreational	Diesel	VOC	0.000637	0.000619	0.000544	0.000353
Recreational	Gasoline	VOC	0.405989	0.502041	0.591445	0.395696
Recreational	CNG	VOC	0.000000	0.000000	0.000000	0.000000
Recreational	LPG	VOC	0.000052	0.000051	0.000044	0.000029
Construction	Diesel	VOC	0.046003	0.042790	0.034541	0.021799
Construction	Gasoline	VOC	0.026812	0.023463	0.013490	0.012861
Construction	CNG	VOC	0.000000	0.000000	0.000000	0.000000
Construction	LPG	VOC	0.000416	0.000400	0.000245	0.000071
Industrial	Diesel	VOC	0.014871	0.013572	0.010616	0.006058
Industrial	Gasoline	VOC	0.020707	0.017382	0.007284	0.001634
Industrial	CNG	VOC	0.000348	0.000335	0.000192	0.000028
Industrial	LPG	VOC	0.082371	0.080026	0.046233	0.006808
Lawn and Garden	Diesel	VOC	0.009995	0.009624	0.008074	0.005856
Lawn and Garden	Gasoline	VOC	1.452362	1.300677	0.888111	0.913964
Lawn and Garden	CNG	VOC	0.000000	0.000000	0.000000	0.000000
Lawn and Garden	LPG	VOC	0.001393	0.001319	0.000669	0.000092
Farm	Diesel	VOC	0.084017	0.076100	0.058848	0.035275
Farm	Gasoline	VOC	0.015450	0.014750	0.012196	0.010018
Farm	CNG	VOC	0.000025	0.000015	0.000002	0.000000
Farm	LPG	VOC	0.000008	0.000007	0.000005	0.000002
Light Commercial	Diesel	VOC	0.006113	0.005936	0.005107	0.003193
Light Commercial	Gasoline	VOC	0.091658	0.085859	0.068574	0.078104
Light Commercial	CNG	VOC	0.000072	0.000038	0.000018	0.000014
Light Commercial	LPG	VOC	0.001486	0.001546	0.001286	0.000689
Logging	Diesel	VOC	0.000546	0.000475	0.000338	0.000162
Logging	Gasoline	VOC	0.003972	0.003778	0.002285	0.002785
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	0.000000	0.000000	0.000000	0.000000
Airport Service	Gasoline	VOC	0.000000	0.000000	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	0.000134	0.000132	0.000118	0.000077
Railway Maintenance	Gasoline	VOC	0.000046	0.000043	0.000033	0.000034
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	0.002526	0.002652	0.002740	0.002690
Recreational Marine Vessels	Gasoline	VOC	2.285655	2.138477	1.727563	1.337289
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	0.003110	0.003110	0.003110	0.003110
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	0.027533	0.028422	0.027029	0.027203
Northumberland County VOC Totals			4.584309	4.353638	3.510739	2.865895

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

Equipment Type	Fuel	Pollutant	Tons/Summer Day			
			2002	2004	2009	2018
Recreational	Diesel	NOx	0.001993	0.002018	0.001999	0.001632
Recreational	Gasoline	NOx	0.009690	0.010634	0.012609	0.013716
Recreational	CNG	NOx	0.000000	0.000000	0.000000	0.000000
Recreational	LPG	NOx	0.000193	0.000189	0.000160	0.000104
Construction	Diesel	NOx	0.390315	0.377552	0.328106	0.172900
Construction	Gasoline	NOx	0.002799	0.002576	0.001873	0.001492
Construction	CNG	NOx	0.000004	0.000004	0.000003	0.000001
Construction	LPG	NOx	0.001527	0.001455	0.000879	0.000305
Industrial	Diesel	NOx	0.136676	0.133663	0.117432	0.061906
Industrial	Gasoline	NOx	0.013479	0.011279	0.004998	0.000762
Industrial	CNG	NOx	0.021613	0.020617	0.011496	0.002691
Industrial	LPG	NOx	0.302100	0.290853	0.163744	0.038991
Lawn and Garden	Diesel	NOx	0.066590	0.069121	0.071398	0.063026
Lawn and Garden	Gasoline	NOx	0.142949	0.135578	0.110957	0.114832
Lawn and Garden	CNG	NOx	0.000000	0.000000	0.000000	0.000000
Lawn and Garden	LPG	NOx	0.005094	0.004776	0.002370	0.000560
Farm	Diesel	NOx	0.690508	0.670669	0.603283	0.386344
Farm	Gasoline	NOx	0.005547	0.005456	0.004299	0.003171
Farm	CNG	NOx	0.001464	0.000847	0.000102	0.000002
Farm	LPG	NOx	0.000028	0.000027	0.000017	0.000009
Light Commercial	Diesel	NOx	0.034928	0.035777	0.035793	0.028277
Light Commercial	Gasoline	NOx	0.014414	0.014271	0.012556	0.013657
Light Commercial	CNG	NOx	0.004529	0.002485	0.001525	0.001227
Light Commercial	LPG	NOx	0.006862	0.007118	0.005896	0.003403
Logging	Diesel	NOx	0.007509	0.006638	0.004444	0.000931
Logging	Gasoline	NOx	0.000145	0.000154	0.000149	0.000171
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	0.000000	0.000000	0.000000	0.000000
Airport Service	Gasoline	NOx	0.000000	0.000000	0.000000	0.000000
Airport Service	CNG	NOx	0.000000	0.000000	0.000000	0.000000
Airport Service	LPG	NOx	0.000000	0.000000	0.000000	0.000000
Railway Maintenance	Diesel	NOx	0.000690	0.000694	0.000665	0.000478
Railway Maintenance	Gasoline	NOx	0.000011	0.000010	0.000008	0.000008
Railway Maintenance	CNG	NOx	0.000000	0.000000	0.000000	0.000000
Railway Maintenance	LPG	NOx	0.000002	0.000002	0.000001	0.000000
Recreational Marine Vessels	Diesel	NOx	0.066113	0.069824	0.074465	0.078568
Recreational Marine Vessels	Gasoline	NOx	0.078347	0.087663	0.112409	0.145970
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	0.001883	0.001883	0.001883	0.001883
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	0.637023	0.576442	0.481589	0.417441
Northumberland County NOx Totals			2.645024	2.540276	2.167110	1.554459

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

Equipment Type	Fuel	Pollutant	Tons/Summer Day			
			2002	2004	2009	2018
Recreational	Diesel	CO	0.002372	0.002312	0.002076	0.001372
Recreational	Gasoline	CO	1.729356	1.970872	2.432574	2.706453
Recreational	CNG	CO	0.000000	0.000000	0.000000	0.000000
Recreational	LPG	CO	0.000771	0.000779	0.000717	0.000510
Construction	Diesel	CO	0.221100	0.204011	0.177945	0.092010
Construction	Gasoline	CO	0.373007	0.376736	0.372052	0.372968
Construction	CNG	CO	0.000016	0.000016	0.000015	0.000008
Construction	LPG	CO	0.006161	0.006331	0.004868	0.001737
Industrial	Diesel	CO	0.063740	0.060553	0.060732	0.022493
Industrial	Gasoline	CO	0.537152	0.474296	0.282384	0.076251
Industrial	CNG	CO	0.087354	0.090287	0.068799	0.015086
Industrial	LPG	CO	1.218939	1.274010	0.984199	0.226416
Lawn and Garden	Diesel	CO	0.035001	0.034765	0.032948	0.025544
Lawn and Garden	Gasoline	CO	22.979691	24.043500	26.169511	30.312891
Lawn and Garden	CNG	CO	0.000000	0.000000	0.000000	0.000000
Lawn and Garden	LPG	CO	0.020640	0.021177	0.014997	0.003204
Farm	Diesel	CO	0.401929	0.373106	0.310407	0.172622
Farm	Gasoline	CO	0.368453	0.374603	0.372926	0.384299
Farm	CNG	CO	0.006285	0.003718	0.000459	0.000011
Farm	LPG	CO	0.000114	0.000113	0.000088	0.000043
Light Commercial	Diesel	CO	0.022258	0.022082	0.020963	0.014389
Light Commercial	Gasoline	CO	2.238698	2.403951	2.813700	3.484249
Light Commercial	CNG	CO	0.017879	0.017269	0.005570	0.005134
Light Commercial	LPG	CO	0.020099	0.022288	0.022280	0.014127
Logging	Diesel	CO	0.002583	0.002111	0.001737	0.000331
Logging	Gasoline	CO	0.029233	0.030847	0.034769	0.044980
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	0.000000	0.000000	0.000000	0.000000
Airport Service	Gasoline	CO	0.000000	0.000000	0.000000	0.000000
Airport Service	CNG	CO	0.000000	0.000000	0.000000	0.000000
Airport Service	LPG	CO	0.000000	0.000000	0.000000	0.000000
Railway Maintenance	Diesel	CO	0.000570	0.000556	0.000505	0.000319
Railway Maintenance	Gasoline	CO	0.001637	0.001715	0.001857	0.002023
Railway Maintenance	CNG	CO	0.000000	0.000000	0.000000	0.000000
Railway Maintenance	LPG	CO	0.000007	0.000007	0.000006	0.000002
Recreational Marine Vessels	Diesel	CO	0.010597	0.011166	0.012576	0.015081
Recreational Marine Vessels	Gasoline	CO	5.159001	4.989991	4.506595	3.998240
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	0.174751	0.147507	0.147507	0.147507
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	0.070154	0.072417	0.078399	0.090439
Northumberland County CO Totals			35.799547	37.033090	38.934162	42.230740

**Appendix D-2: Northumberland 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	0.000371	0.000431	0.000706	0.001143
2260001020	Recreational Equipment	Snowmobiles	2 Stroke	NOx	0.000000	0.000000	0.000000	0.000000
2260001030	Recreational Equipment	ATVs	2 Stroke	NOx	0.000375	0.000516	0.000979	0.001659
2260001060	Recreational Equipment	Specialty Vehicles/Carts	2 Stroke	NOx	0.000555	0.000520	0.000424	0.000436
2260002006	Construction and Mining Equipment	Tampers/Rammers	2 Stroke	NOx	0.000054	0.000052	0.000028	0.000028
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	0.000002	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	0.000128	0.000116	0.000072	0.000074
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	0.000007	0.000009	0.000017	0.000022
2260004016	Lawn and Garden Equipment (Com)	Rotary Tillers < 6 HP	2 Stroke	NOx	0.000055	0.000077	0.000147	0.000176
2260004020	Lawn and Garden Equipment (Res)	Chain Saws < 6 HP	2 Stroke	NOx	0.000057	0.000082	0.000158	0.000189
2260004021	Lawn and Garden Equipment (Com)	Chain Saws < 6 HP	2 Stroke	NOx	0.001557	0.001529	0.001047	0.001219
2260004025	Lawn and Garden Equipment (Res)	Trimmers/Edgers/Brush Cutter	2 Stroke	NOx	0.000141	0.000193	0.000354	0.000423
2260004026	Lawn and Garden Equipment (Com)	Trimmers/Edgers/Brush Cutter	2 Stroke	NOx	0.000743	0.001060	0.001471	0.001710
2260004030	Lawn and Garden Equipment (Res)	Leafblowers/Vacuums	2 Stroke	NOx	0.000084	0.000119	0.000226	0.000271
2260004031	Lawn and Garden Equipment (Com)	Leafblowers/Vacuums	2 Stroke	NOx	0.001184	0.001393	0.001372	0.001586
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	0.000001	0.000001
2260005035	Agricultural Equipment	Sprayers	2 Stroke	NOx	0.000004	0.000006	0.000010	0.000011
2260006005	Commercial Equipment	Generator Sets	2 Stroke	NOx	0.000005	0.000008	0.000014	0.000017
2260006010	Commercial Equipment	Pumps	2 Stroke	NOx	0.000038	0.000065	0.000093	0.000115
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	0.000001	0.000001
2260007005	Logging Equipment	Chain Saws > 6 HP	2 Stroke	NOx	0.000038	0.000037	0.000024	0.000030
2265001010	Recreational Equipment	Motorcycles: Off-Road	4 Stroke	NOx	0.000513	0.000597	0.000759	0.000839
2265001030	Recreational Equipment	ATVs	4 Stroke	NOx	0.004629	0.005613	0.006900	0.006660
2265001050	Recreational Equipment	Golf Carts	4 Stroke	NOx	0.002772	0.002467	0.002350	0.002506
2265001060	Recreational Equipment	Specialty Vehicles/Carts	4 Stroke	NOx	0.000476	0.000490	0.000492	0.000472
2265002003	Construction and Mining Equipment	Pavers	4 Stroke	NOx	0.000096	0.000086	0.000062	0.000047
2265002006	Construction and Mining Equipment	Tampers/Rammers	4 Stroke	NOx	0.000001	0.000000	0.000000	0.000000
2265002009	Construction and Mining Equipment	Plate Compactors	4 Stroke	NOx	0.000114	0.000109	0.000076	0.000071
2265002015	Construction and Mining Equipment	Rollers	4 Stroke	NOx	0.000164	0.000145	0.000099	0.000082
2265002021	Construction and Mining Equipment	Paving Equipment	4 Stroke	NOx	0.000239	0.000223	0.000172	0.000164
2265002024	Construction and Mining Equipment	Surfacing Equipment	4 Stroke	NOx	0.000099	0.000089	0.000071	0.000070
2265002027	Construction and Mining Equipment	Signal Boards/Light Plants	4 Stroke	NOx	0.000005	0.000004	0.000003	0.000003
2265002030	Construction and Mining Equipment	Trenchers	4 Stroke	NOx	0.000290	0.000263	0.000185	0.000136
2265002033	Construction and Mining Equipment	Bore/Drill Rigs	4 Stroke	NOx	0.000091	0.000090	0.000067	0.000050
2265002039	Construction and Mining Equipment	Concrete/Industrial Saws	4 Stroke	NOx	0.000493	0.000430	0.000332	0.000320

**Appendix D-2: Northumberland 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
2265002042	Construction and Mining Equipment	Cement & Mortar Mixers	4 Stroke	NOx	0.000186	0.000191	0.000162	0.000141
2265002045	Construction and Mining Equipment	Cranes	4 Stroke	NOx	0.000048	0.000045	0.000034	0.000014
2265002054	Construction and Mining Equipment	Crushing/Proc. Equipment	4 Stroke	NOx	0.000032	0.000029	0.000023	0.000020
2265002057	Construction and Mining Equipment	Rough Terrain Forklifts	4 Stroke	NOx	0.000082	0.000077	0.000049	0.000013
2265002060	Construction and Mining Equipment	Rubber Tire Loaders	4 Stroke	NOx	0.000203	0.000187	0.000098	0.000021
2265002066	Construction and Mining Equipment	Tractors/Loaders/Backhoes	4 Stroke	NOx	0.000154	0.000134	0.000111	0.000108
2265002072	Construction and Mining Equipment	Skid Steer Loaders	4 Stroke	NOx	0.000217	0.000203	0.000145	0.000078
2265002078	Construction and Mining Equipment	Dumpers/Tenders	4 Stroke	NOx	0.000030	0.000031	0.000027	0.000024
2265002081	Construction and Mining Equipment	Other Construction Equipment	4 Stroke	NOx	0.000071	0.000068	0.000052	0.000023
2265003010	Industrial Equipment	Aerial Lifts	4 Stroke	NOx	0.001885	0.001633	0.000999	0.000301
2265003020	Industrial Equipment	Forklifts	4 Stroke	NOx	0.007959	0.006700	0.002917	0.000220
2265003030	Industrial Equipment	Sweepers/Scrubbers	4 Stroke	NOx	0.001417	0.001137	0.000399	0.000067
2265003040	Industrial Equipment	Other General Industrial Eqp	4 Stroke	NOx	0.001252	0.001042	0.000478	0.000138
2265003050	Industrial Equipment	Other Material Handling Eqp	4 Stroke	NOx	0.000125	0.000107	0.000064	0.000015
2265003060	Industrial Equipment	AC\Refrigeration	4 Stroke	NOx	0.000018	0.000013	0.000008	0.000003
2265003070	Industrial Equipment	Terminal Tractors	4 Stroke	NOx	0.000822	0.000646	0.000130	0.000016
2265004010	Lawn and Garden Equipment (Res)	Lawn mowers	4 Stroke	NOx	0.006098	0.006560	0.005931	0.004406
2265004011	Lawn and Garden Equipment (Com)	Lawn mowers	4 Stroke	NOx	0.008286	0.008635	0.005643	0.005722
2265004015	Lawn and Garden Equipment (Res)	Rotary Tillers < 6 HP	4 Stroke	NOx	0.000518	0.000556	0.000500	0.000369
2265004016	Lawn and Garden Equipment (Com)	Rotary Tillers < 6 HP	4 Stroke	NOx	0.004177	0.004428	0.003738	0.002946
2265004025	Lawn and Garden Equipment (Res)	Trimmers/Edgers/Brush Cutter	4 Stroke	NOx	0.000035	0.000037	0.000031	0.000024
2265004026	Lawn and Garden Equipment (Com)	Trimmers/Edgers/Brush Cutter	4 Stroke	NOx	0.000215	0.000207	0.000165	0.000176
2265004030	Lawn and Garden Equipment (Res)	Leafblowers/Vacuums	4 Stroke	NOx	0.000067	0.000071	0.000059	0.000046
2265004031	Lawn and Garden Equipment (Com)	Leafblowers/Vacuums	4 Stroke	NOx	0.014181	0.013029	0.010629	0.008850
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	0.001591	0.001548	0.001373	0.001537
2265004041	Lawn and Garden Equipment (Com)	Rear Engine Riding Mowers	4 Stroke	NOx	0.001149	0.001024	0.000961	0.001118
2265004046	Lawn and Garden Equipment (Com)	Front Mowers	4 Stroke	NOx	0.001213	0.001269	0.001218	0.001280
2265004051	Lawn and Garden Equipment (Com)	Shredders < 6 HP	4 Stroke	NOx	0.000475	0.000508	0.000443	0.000339
2265004055	Lawn and Garden Equipment (Res)	Lawn & Garden Tractors	4 Stroke	NOx	0.021855	0.021219	0.018491	0.020616
2265004056	Lawn and Garden Equipment (Com)	Lawn & Garden Tractors	4 Stroke	NOx	0.016055	0.014134	0.013069	0.015208
2265004066	Lawn and Garden Equipment (Com)	Chippers/Stump Grinders	4 Stroke	NOx	0.005131	0.004744	0.002980	0.001937
2265004071	Lawn and Garden Equipment (Com)	Commercial Turf Equipment	4 Stroke	NOx	0.056228	0.051160	0.038987	0.042929
2265004075	Lawn and Garden Equipment (Res)	Other Lawn & Garden Eqp.	4 Stroke	NOx	0.000599	0.000644	0.000632	0.000563
2265004076	Lawn and Garden Equipment (Com)	Other Lawn & Garden Eqp.	4 Stroke	NOx	0.001248	0.001340	0.001313	0.001166
2265005010	Agricultural Equipment	2-Wheel Tractors	4 Stroke	NOx	0.000058	0.000050	0.000047	0.000053
2265005015	Agricultural Equipment	Agricultural Tractors	4 Stroke	NOx	0.000646	0.000606	0.000353	0.000120
2265005020	Agricultural Equipment	Combines	4 Stroke	NOx	0.000005	0.000005	0.000004	0.000003
2265005025	Agricultural Equipment	Balers	4 Stroke	NOx	0.000459	0.000458	0.000399	0.000271
2265005030	Agricultural Equipment	Agricultural Mowers	4 Stroke	NOx	0.000047	0.000046	0.000041	0.000044
2265005035	Agricultural Equipment	Sprayers	4 Stroke	NOx	0.000747	0.000761	0.000680	0.000549
2265005040	Agricultural Equipment	Tillers > 6 HP	4 Stroke	NOx	0.000716	0.000759	0.000845	0.000994

**Appendix D-2: Northumberland 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
2265005045	Agricultural Equipment	Swathers	4 Stroke	NOx	0.000728	0.000725	0.000632	0.000430
2265005055	Agricultural Equipment	Other Agricultural Equipment	4 Stroke	NOx	0.000870	0.000867	0.000758	0.000544
2265005060	Agricultural Equipment	Irrigation Sets	4 Stroke	NOx	0.001266	0.001172	0.000531	0.000152
2265006005	Commercial Equipment	Generator Sets	4 Stroke	NOx	0.006113	0.006202	0.005795	0.006704
2265006010	Commercial Equipment	Pumps	4 Stroke	NOx	0.001850	0.001810	0.001443	0.001458
2265006015	Commercial Equipment	Air Compressors	4 Stroke	NOx	0.001275	0.001234	0.000934	0.000732
2265006025	Commercial Equipment	Welders	4 Stroke	NOx	0.002302	0.002171	0.001926	0.001872
2265006030	Commercial Equipment	Pressure Washers	4 Stroke	NOx	0.002697	0.002656	0.002237	0.002621
2265006035	Commercial Equipment	Hydro Power Units	4 Stroke	NOx	0.000134	0.000125	0.000114	0.000137
2265007010	Logging Equipment	Shredders > 6 HP	4 Stroke	NOx	0.000106	0.000116	0.000124	0.000140
2265007015	Logging Equipment	Forest Eq - Feller/Bunch/Skidder	4 Stroke	NOx	0.000001	0.000001	0.000001	0.000001
2265008005	Airport Equipment	Airport Ground Support Equipment	4 Stroke	NOx	0.000000	0.000000	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	0.000193	0.000189	0.000160	0.000104
2267002003	Construction and Mining Equipment	Pavers	LPG	NOx	0.000063	0.000060	0.000035	0.000010
2267002015	Construction and Mining Equipment	Rollers	LPG	NOx	0.000106	0.000097	0.000042	0.000011
2267002021	Construction and Mining Equipment	Paving Equipment	LPG	NOx	0.000017	0.000016	0.000013	0.000005
2267002024	Construction and Mining Equipment	Surfacing Equipment	LPG	NOx	0.000011	0.000010	0.000006	0.000002
2267002030	Construction and Mining Equipment	Trenchers	LPG	NOx	0.000193	0.000184	0.000112	0.000030
2267002033	Construction and Mining Equipment	Bore/Drill Rigs	LPG	NOx	0.000063	0.000063	0.000055	0.000037
2267002039	Construction and Mining Equipment	Concrete/Industrial Saws	LPG	NOx	0.000184	0.000162	0.000049	0.000019
2267002045	Construction and Mining Equipment	Cranes	LPG	NOx	0.000068	0.000067	0.000052	0.000021
2267002054	Construction and Mining Equipment	Crushing/Proc. Equipment	LPG	NOx	0.000011	0.000011	0.000008	0.000003
2267002057	Construction and Mining Equipment	Rough Terrain Forklifts	LPG	NOx	0.000122	0.000118	0.000079	0.000021
2267002060	Construction and Mining Equipment	Rubber Tire Loaders	LPG	NOx	0.000305	0.000289	0.000158	0.000035
2267002066	Construction and Mining Equipment	Tractors/Loaders/Backhoes	LPG	NOx	0.000032	0.000030	0.000014	0.000003
2267002072	Construction and Mining Equipment	Skid Steer Loaders	LPG	NOx	0.000252	0.000246	0.000178	0.000072
2267002081	Construction and Mining Equipment	Other Construction Equipment	LPG	NOx	0.000101	0.000100	0.000080	0.000037
2267003010	Industrial Equipment	Aerial Lifts	LPG	NOx	0.003125	0.003125	0.002469	0.001201
2267003020	Industrial Equipment	Forklifts	LPG	NOx	0.294500	0.283602	0.159651	0.037239
2267003030	Industrial Equipment	Sweepers/Scrubbers	LPG	NOx	0.002247	0.002074	0.000833	0.000266
2267003040	Industrial Equipment	Other General Industrial Equipm	LPG	NOx	0.000687	0.000649	0.000313	0.000082
2267003050	Industrial Equipment	Other Material Handling Equipment	LPG	NOx	0.000169	0.000168	0.000131	0.000049
2267003070	Industrial Equipment	Terminal Tractors	LPG	NOx	0.001372	0.001235	0.000346	0.000154
2267004066	Lawn and Garden Equipment (Com)	Chippers/Stump Grinders	LPG	NOx	0.005094	0.004776	0.002370	0.000560
2267005055	Agricultural Equipment	Other Agricultural Equipment	LPG	NOx	0.000015	0.000015	0.000012	0.000008
2267005060	Agricultural Equipment	Irrigation Sets	LPG	NOx	0.000013	0.000012	0.000005	0.000001
2267006005	Commercial Equipment	Generator Sets	LPG	NOx	0.003664	0.003854	0.003535	0.002551
2267006010	Commercial Equipment	Pumps	LPG	NOx	0.000853	0.000877	0.000682	0.000341
2267006015	Commercial Equipment	Air Compressors	LPG	NOx	0.001029	0.001040	0.000711	0.000219
2267006025	Commercial Equipment	Welders	LPG	NOx	0.001283	0.001314	0.000944	0.000281
2267006030	Commercial Equipment	Pressure Washers	LPG	NOx	0.000017	0.000018	0.000015	0.000008
2267006035	Commercial Equipment	Hydro Power Units	LPG	NOx	0.000016	0.000016	0.000009	0.000003

**Appendix D-2: Northumberland 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
2267008005	Airport Equipment	Airport Ground Support Equipment	LPG	NOx	0.000000	0.000000	0.000000	0.000000
2268002081	Construction and Mining Equipment	Other Construction Equipment	CNG	NOx	0.000004	0.000004	0.000003	0.000001
2268003020	Industrial Equipment	Forklifts	CNG	NOx	0.021442	0.020461	0.011437	0.002671
2268003030	Industrial Equipment	Sweepers/Scrubbers	CNG	NOx	0.000026	0.000024	0.000013	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	0.000032	0.000030	0.000013	0.000004
2268003070	Industrial Equipment	Terminal Tractors	CNG	NOx	0.000097	0.000086	0.000024	0.000011
2268005055	Agricultural Equipment	Other Agricultural Equipment	CNG	NOx	0.000019	0.000015	0.000008	0.000002
2268005060	Agricultural Equipment	Irrigation Sets	CNG	NOx	0.001445	0.000832	0.000094	0.000000
2268006005	Commercial Equipment	Generator Sets	CNG	NOx	0.001201	0.001224	0.001092	0.000776
2268006010	Commercial Equipment	Pumps	CNG	NOx	0.000060	0.000060	0.000048	0.000026
2268006015	Commercial Equipment	Air Compressors	CNG	NOx	0.000086	0.000084	0.000057	0.000016
2268006020	Commercial Equipment	Gas Compressors	CNG	NOx	0.003181	0.001117	0.000327	0.000409
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	Speciality Vehicle Carts	Diesel	NOx	0.001993	0.002018	0.001999	0.001632
2270002003	Construction and Mining Equipment	Pavers	Diesel	NOx	0.005077	0.004844	0.004135	0.001894
2270002006	Construction and Mining Equipment	Tampers/Rammers	Diesel	NOx	0.000011	0.000011	0.000009	0.000008
2270002009	Construction and Mining Equipment	Plate Compactors	Diesel	NOx	0.000174	0.000169	0.000147	0.000131
2270002015	Construction and Mining Equipment	Rollers	Diesel	NOx	0.012596	0.012163	0.010679	0.005389
2270002018	Construction and Mining Equipment	Scrapers	Diesel	NOx	0.014583	0.014015	0.011657	0.005105
2270002021	Construction and Mining Equipment	Paving Equipment	Diesel	NOx	0.000803	0.000776	0.000673	0.000382
2270002024	Construction and Mining Equipment	Surfacing Equipment	Diesel	NOx	0.000541	0.000532	0.000486	0.000332
2270002027	Construction and Mining Equipment	Signal Boards/Light Plants	Diesel	NOx	0.001521	0.001485	0.001350	0.001265
2270002030	Construction and Mining Equipment	Trenchers	Diesel	NOx	0.005859	0.005792	0.005389	0.003759
2270002033	Construction and Mining Equipment	Bore/Drill Rigs	Diesel	NOx	0.006956	0.006895	0.006369	0.004480
2270002036	Construction and Mining Equipment	Excavators	Diesel	NOx	0.050347	0.047427	0.038928	0.013344
2270002039	Construction and Mining Equipment	Concrete/Industrial Saws	Diesel	NOx	0.000394	0.000389	0.000370	0.000271
2270002042	Construction and Mining Equipment	Cement & Mortar Mixers	Diesel	NOx	0.000261	0.000261	0.000246	0.000189
2270002045	Construction and Mining Equipment	Cranes	Diesel	NOx	0.013711	0.013169	0.011045	0.005120
2270002048	Construction and Mining Equipment	Graders	Diesel	NOx	0.012793	0.011968	0.009799	0.003325
2270002051	Construction and Mining Equipment	Off-highway Trucks	Diesel	NOx	0.047487	0.045948	0.038453	0.019017
2270002054	Construction and Mining Equipment	Crushing/Proc. Equipment	Diesel	NOx	0.002407	0.002336	0.002024	0.001130
2270002057	Construction and Mining Equipment	Rough Terrain Forklifts	Diesel	NOx	0.016093	0.015890	0.014365	0.007466
2270002060	Construction and Mining Equipment	Rubber Tire Loaders	Diesel	NOx	0.061651	0.059540	0.051349	0.025944
2270002066	Construction and Mining Equipment	Tractors/Loaders/Backhoes	Diesel	NOx	0.037456	0.037066	0.034704	0.022963
2270002069	Construction and Mining Equipment	Crawler Tractor/Dozers	Diesel	NOx	0.054172	0.051820	0.043704	0.019198
2270002072	Construction and Mining Equipment	Skid Steer Loaders	Diesel	NOx	0.024016	0.024227	0.023709	0.019355
2270002075	Construction and Mining Equipment	Off-Highway Tractors	Diesel	NOx	0.006538	0.006398	0.005631	0.003315
2270002078	Construction and Mining Equipment	Dumpers/Tenders	Diesel	NOx	0.000077	0.000078	0.000077	0.000063
2270002081	Construction and Mining Equipment	Other Construction Equipment	Diesel	NOx	0.006349	0.006181	0.005428	0.003178
2270003010	Industrial Equipment	Aerial Lifts	Diesel	NOx	0.003249	0.003258	0.003144	0.002636
2270003020	Industrial Equipment	Forklifts	Diesel	NOx	0.034284	0.033972	0.029094	0.010878

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SCC	Classification	Equipment Type	Engine Type	Pollutant Code	2002 Emissions	2004 Emissions	2009 Emissions	2018 Emissions
2270003030	Industrial Equipment	Sweepers/Scrubbers	Diesel	NOx	0.018176	0.017387	0.015098	0.006336
2270003040	Industrial Equipment	Other General Industrial Eqp	Diesel	NOx	0.020701	0.020038	0.017142	0.008520
2270003050	Industrial Equipment	Other Material Handling Eqp	Diesel	NOx	0.000957	0.000945	0.000868	0.000613
2270003060	Industrial Equipment	AC\Refrigeration	Diesel	NOx	0.035852	0.035551	0.033882	0.027869
2270003070	Industrial Equipment	Terminal Tractors	Diesel	NOx	0.023456	0.022513	0.018204	0.005054
2270004031	Lawn and Garden Equipment (Com)	Leafblowers/Vacuums	Diesel	NOx	0.000004	0.000004	0.000004	0.000005
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	0.023205	0.023992	0.024917	0.025358
2270004056	Lawn and Garden Equipment (Com)	Lawn & Garden Tractors	Diesel	NOx	0.005121	0.005147	0.004984	0.005485
2270004066	Lawn and Garden Equipment (Com)	Chippers/Stump Grinders	Diesel	NOx	0.034672	0.036374	0.037869	0.029690
2270004071	Lawn and Garden Equipment (Com)	Commercial Turf Equipment	Diesel	NOx	0.003497	0.003509	0.003523	0.002391
2270004076	Lawn and Garden Equipment (Com)	Other Lawn & Garden Eqp.	Diesel	NOx	0.000091	0.000095	0.000101	0.000098
2270005010	Agricultural Equipment	2-Wheel Tractors	Diesel	NOx	0.000014	0.000013	0.000010	0.000010
2270005015	Agricultural Equipment	Agricultural Tractors	Diesel	NOx	0.600322	0.581937	0.522199	0.331912
2270005020	Agricultural Equipment	Combines	Diesel	NOx	0.060867	0.059796	0.054568	0.037131
2270005025	Agricultural Equipment	Balers	Diesel	NOx	0.000261	0.000264	0.000261	0.000214
2270005030	Agricultural Equipment	Agricultural Mowers	Diesel	NOx	0.000056	0.000055	0.000051	0.000036
2270005035	Agricultural Equipment	Sprayers	Diesel	NOx	0.004314	0.004333	0.004175	0.003021
2270005040	Agricultural Equipment	Tillers > 6 HP	Diesel	NOx	0.000007	0.000007	0.000007	0.000005
2270005045	Agricultural Equipment	Swathers	Diesel	NOx	0.004262	0.004225	0.003971	0.002902
2270005055	Agricultural Equipment	Other Agricultural Equipment	Diesel	NOx	0.012540	0.012258	0.011011	0.007190
2270005060	Agricultural Equipment	Irrigation Sets	Diesel	NOx	0.007865	0.007781	0.007030	0.003923
2270006005	Commercial Equipment	Generator Sets	Diesel	NOx	0.015954	0.016382	0.016613	0.013913
2270006010	Commercial Equipment	Pumps	Diesel	NOx	0.003798	0.003900	0.003936	0.003243
2270006015	Commercial Equipment	Air Compressors	Diesel	NOx	0.009587	0.009738	0.009332	0.005930
2270006020	Commercial Equipment	Gas Compressors	Diesel	NOx	0.000000	0.000000	0.000000	0.000000
2270006025	Commercial Equipment	Welders	Diesel	NOx	0.004642	0.004791	0.004956	0.004451
2270006030	Commercial Equipment	Pressure Washers	Diesel	NOx	0.000533	0.000546	0.000552	0.000466
2270006035	Commercial Equipment	Hydro Power Units	Diesel	NOx	0.000415	0.000419	0.000403	0.000275
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	0.007509	0.006638	0.004444	0.000931
2270008005	Airport Equipment	Airport Ground Support Equipment	Diesel	NOx	0.000000	0.000000	0.000000	0.000000
2270009010	Construction and Mining Equipment	Other Underground Mining Equipment	Diesel	NOx	0.008441	0.008172	0.007381	0.006277
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	0.001883	0.001883	0.002034	0.002392
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	0.022382	0.027004	0.039620	0.056461
2282005015	Pleasure Craft	Personal Water Craft	2 Stroke	NOx	0.006266	0.008281	0.012939	0.016709

**Appendix D-2: Northumberland 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
2282010005	Pleasure Craft	Inboard/Stern Drive	4 Stroke	NOx	0.049699	0.052378	0.059850	0.072800
2282020005	Pleasure Craft	Inboard/Stern Drive	Diesel	NOx	0.065865	0.069570	0.074201	0.078288
2282020010	Pleasure Craft	Outboards	Diesel	NOx	0.000248	0.000254	0.000264	0.000280
2285002005	Railroad Equipment	Line Haul Locomotives	Diesel	NOx	0.637023	0.576442	0.481589	0.417441
2285002010	Railroad Equipment	Yard Locomotive	Diesel	NOx	0.000000	0.000000	0.000000	0.000000
2285002015	Railroad Equipment	Railway Maintenance	Diesel	NOx	0.000690	0.000694	0.000665	0.000478
2285004015	Railroad Equipment	Railway Maintenance	4 Stroke	NOx	0.000011	0.000010	0.000008	0.000008
2285006015	Railroad Equipment	Railway Maintenance	LPG	NOx	0.000002	0.000002	0.000001	0.000000
Northumberland County Total Summer Day NOx Emissions					2.645024	2.540276	2.167261	1.554968

**Appendix D-2: Northumberland 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	0.156768	0.182041	0.208652	0.168922
2260001020	Recreational Equipment	Snowmobiles	2 Stroke	VOC	0.000000	0.000000	0.000000	0.000000
2260001030	Recreational Equipment	ATVs	2 Stroke	VOC	0.156568	0.216173	0.259795	0.106241
2260001060	Recreational Equipment	Specialty Vehicles/Carts	2 Stroke	VOC	0.003764	0.003561	0.003158	0.003259
2260002006	Construction and Mining Equipment	Tampers/Rammers	2 Stroke	VOC	0.004505	0.004314	0.001957	0.001942
2260002009	Construction and Mining Equipment	Plate Compactors	2 Stroke	VOC	0.000274	0.000167	0.000070	0.000072
2260002021	Construction and Mining Equipment	Paving Equipment	2 Stroke	VOC	0.000326	0.000193	0.000083	0.000085
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	0.011988	0.009869	0.004796	0.004914
2260002054	Construction and Mining Equipment	Crushing/Proc. Equipment	2 Stroke	VOC	0.000060	0.000032	0.000017	0.000017
2260003030	Industrial Equipment	Sweepers/Scrubbers	2 Stroke	VOC	0.000340	0.000159	0.000061	0.000021
2260003040	Industrial Equipment	Other General Industrial Eqp	2 Stroke	VOC	0.000027	0.000013	0.000005	0.000002
2260004015	Lawn and Garden Equipment (Res)	Rotary Tillers < 6 HP	2 Stroke	VOC	0.002885	0.002527	0.001227	0.001070
2260004016	Lawn and Garden Equipment (Com)	Rotary Tillers < 6 HP	2 Stroke	VOC	0.020275	0.016718	0.005646	0.005549
2260004020	Lawn and Garden Equipment (Res)	Chain Saws < 6 HP	2 Stroke	VOC	0.023472	0.019732	0.008146	0.008486
2260004021	Lawn and Garden Equipment (Com)	Chain Saws < 6 HP	2 Stroke	VOC	0.152893	0.131321	0.066180	0.077106
2260004025	Lawn and Garden Equipment (Res)	Trimmers/Edgers/Brush Cutter	2 Stroke	VOC	0.055276	0.046884	0.020390	0.021432
2260004026	Lawn and Garden Equipment (Com)	Trimmers/Edgers/Brush Cutter	2 Stroke	VOC	0.192456	0.140326	0.053937	0.062477
2260004030	Lawn and Garden Equipment (Res)	Leafblowers/Vacuums	2 Stroke	VOC	0.037845	0.032609	0.016252	0.017514
2260004031	Lawn and Garden Equipment (Com)	Leafblowers/Vacuums	2 Stroke	VOC	0.184607	0.149178	0.062890	0.071958
2260004035	Lawn and Garden Equipment (Res)	Snowblowers	2 Stroke	VOC	0.004578	0.004772	0.005251	0.006118
2260004036	Lawn and Garden Equipment (Com)	Snowblowers	2 Stroke	VOC	0.000666	0.000694	0.000764	0.000890
2260004071	Lawn and Garden Equipment (Com)	Commercial Turf Equipment	2 Stroke	VOC	0.000083	0.000058	0.000021	0.000024
2260005035	Agricultural Equipment	Sprayers	2 Stroke	VOC	0.001385	0.001011	0.000359	0.000401
2260006005	Commercial Equipment	Generator Sets	2 Stroke	VOC	0.001691	0.001124	0.000508	0.000630
2260006010	Commercial Equipment	Pumps	2 Stroke	VOC	0.011512	0.006705	0.003587	0.004330
2260006015	Commercial Equipment	Air Compressors	2 Stroke	VOC	0.000004	0.000002	0.000001	0.000002
2260006035	Commercial Equipment	Hydro Power Units	2 Stroke	VOC	0.000063	0.000035	0.000021	0.000026
2260007005	Logging Equipment	Chain Saws > 6 HP	2 Stroke	VOC	0.003279	0.003104	0.001661	0.002103
2265001010	Recreational Equipment	Motorcycles: Off-Road	4 Stroke	VOC	0.006506	0.007336	0.008796	0.008524
2265001030	Recreational Equipment	ATVs	4 Stroke	VOC	0.067049	0.078900	0.097770	0.095308
2265001050	Recreational Equipment	Golf Carts	4 Stroke	VOC	0.011348	0.010153	0.009711	0.010353
2265001060	Recreational Equipment	Specialty Vehicles/Carts	4 Stroke	VOC	0.003986	0.003877	0.003562	0.003090
2265002003	Construction and Mining Equipment	Pavers	4 Stroke	VOC	0.000247	0.000218	0.000166	0.000154
2265002006	Construction and Mining Equipment	Tampers/Rammers	4 Stroke	VOC	0.000002	0.000002	0.000002	0.000002
2265002009	Construction and Mining Equipment	Plate Compactors	4 Stroke	VOC	0.000960	0.000940	0.000590	0.000496
2265002015	Construction and Mining Equipment	Rollers	4 Stroke	VOC	0.000400	0.000347	0.000283	0.000271
2265002021	Construction and Mining Equipment	Paving Equipment	4 Stroke	VOC	0.001405	0.001305	0.000913	0.000864
2265002024	Construction and Mining Equipment	Surfacing Equipment	4 Stroke	VOC	0.000497	0.000460	0.000310	0.000315
2265002027	Construction and Mining Equipment	Signal Boards/Light Plants	4 Stroke	VOC	0.000034	0.000033	0.000019	0.000020
2265002030	Construction and Mining Equipment	Trenchers	4 Stroke	VOC	0.000982	0.000912	0.000583	0.000545
2265002033	Construction and Mining Equipment	Bore/Drill Rigs	4 Stroke	VOC	0.000594	0.000590	0.000390	0.000310
2265002039	Construction and Mining Equipment	Concrete/Industrial Saws	4 Stroke	VOC	0.001427	0.001237	0.001073	0.001081

**Appendix D-2: Northumberland 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
2265002042	Construction and Mining Equipment	Cement & Mortar Mixers	4 Stroke	VOC	0.001569	0.001453	0.001183	0.000961
2265002045	Construction and Mining Equipment	Cranes	4 Stroke	VOC	0.000051	0.000048	0.000037	0.000018
2265002054	Construction and Mining Equipment	Crushing/Proc. Equipment	4 Stroke	VOC	0.000131	0.000120	0.000083	0.000082
2265002057	Construction and Mining Equipment	Rough Terrain Forklifts	4 Stroke	VOC	0.000075	0.000071	0.000046	0.000010
2265002060	Construction and Mining Equipment	Rubber Tire Loaders	4 Stroke	VOC	0.000179	0.000165	0.000085	0.000012
2265002066	Construction and Mining Equipment	Tractors/Loaders/Backhoes	4 Stroke	VOC	0.000486	0.000419	0.000364	0.000367
2265002072	Construction and Mining Equipment	Skid Steer Loaders	4 Stroke	VOC	0.000350	0.000319	0.000243	0.000177
2265002078	Construction and Mining Equipment	Dumpers/Tenders	4 Stroke	VOC	0.000225	0.000208	0.000172	0.000150
2265002081	Construction and Mining Equipment	Other Construction Equipment	4 Stroke	VOC	0.000066	0.000064	0.000049	0.000021
2265003010	Industrial Equipment	Aerial Lifts	4 Stroke	VOC	0.002645	0.002229	0.001353	0.000428
2265003020	Industrial Equipment	Forklifts	4 Stroke	VOC	0.006894	0.005821	0.002525	0.000136
2265003030	Industrial Equipment	Sweepers/Scrubbers	4 Stroke	VOC	0.002191	0.001770	0.000714	0.000180
2265003040	Industrial Equipment	Other General Industrial Eqp	4 Stroke	VOC	0.007632	0.006613	0.002398	0.000820
2265003050	Industrial Equipment	Other Material Handling Eqp	4 Stroke	VOC	0.000189	0.000156	0.000094	0.000026
2265003060	Industrial Equipment	AC\Refrigeration	4 Stroke	VOC	0.000074	0.000057	0.000035	0.000012
2265003070	Industrial Equipment	Terminal Tractors	4 Stroke	VOC	0.000716	0.000564	0.000099	0.000008
2265004010	Lawn and Garden Equipment (Res)	Lawn mowers	4 Stroke	VOC	0.116980	0.117085	0.112745	0.093627
2265004011	Lawn and Garden Equipment (Com)	Lawn mowers	4 Stroke	VOC	0.099916	0.104132	0.060060	0.056346
2265004015	Lawn and Garden Equipment (Res)	Rotary Tillers < 6 HP	4 Stroke	VOC	0.009695	0.009762	0.009316	0.007455
2265004016	Lawn and Garden Equipment (Com)	Rotary Tillers < 6 HP	4 Stroke	VOC	0.047693	0.047285	0.040125	0.025395
2265004025	Lawn and Garden Equipment (Res)	Trimmers/Edgers/Brush Cutter	4 Stroke	VOC	0.000615	0.000632	0.000585	0.000494
2265004026	Lawn and Garden Equipment (Com)	Trimmers/Edgers/Brush Cutter	4 Stroke	VOC	0.001656	0.001663	0.001087	0.001010
2265004030	Lawn and Garden Equipment (Res)	Leafblowers/Vacuums	4 Stroke	VOC	0.001301	0.001337	0.001249	0.001083
2265004031	Lawn and Garden Equipment (Com)	Leafblowers/Vacuums	4 Stroke	VOC	0.033330	0.029658	0.024842	0.025265
2265004035	Lawn and Garden Equipment (Res)	Snowblowers	4 Stroke	VOC	0.009308	0.009700	0.010675	0.012438
2265004036	Lawn and Garden Equipment (Com)	Snowblowers	4 Stroke	VOC	0.001495	0.001558	0.001714	0.001997
2265004040	Lawn and Garden Equipment (Res)	Rear Engine Riding Mowers	4 Stroke	VOC	0.013319	0.013279	0.013296	0.015232
2265004041	Lawn and Garden Equipment (Com)	Rear Engine Riding Mowers	4 Stroke	VOC	0.003915	0.003479	0.003219	0.003746
2265004046	Lawn and Garden Equipment (Com)	Front Mowers	4 Stroke	VOC	0.006582	0.006292	0.005656	0.005852
2265004051	Lawn and Garden Equipment (Com)	Shredders < 6 HP	4 Stroke	VOC	0.005881	0.005726	0.005028	0.003227
2265004055	Lawn and Garden Equipment (Res)	Lawn & Garden Tractors	4 Stroke	VOC	0.149472	0.146675	0.141549	0.161231
2265004056	Lawn and Garden Equipment (Com)	Lawn & Garden Tractors	4 Stroke	VOC	0.052664	0.045700	0.041157	0.047891
2265004066	Lawn and Garden Equipment (Com)	Chippers/Stump Grinders	4 Stroke	VOC	0.008025	0.007250	0.005506	0.004977
2265004071	Lawn and Garden Equipment (Com)	Commercial Turf Equipment	4 Stroke	VOC	0.194365	0.184114	0.150628	0.158475
2265004075	Lawn and Garden Equipment (Res)	Other Lawn & Garden Eqp.	4 Stroke	VOC	0.007349	0.007177	0.006710	0.005688
2265004076	Lawn and Garden Equipment (Com)	Other Lawn & Garden Eqp.	4 Stroke	VOC	0.013764	0.013355	0.012259	0.009909
2265005010	Agricultural Equipment	2-Wheel Tractors	4 Stroke	VOC	0.000204	0.000176	0.000163	0.000184
2265005015	Agricultural Equipment	Agricultural Tractors	4 Stroke	VOC	0.000663	0.000612	0.000383	0.000179
2265005020	Agricultural Equipment	Combines	4 Stroke	VOC	0.000005	0.000005	0.000005	0.000003
2265005025	Agricultural Equipment	Balers	4 Stroke	VOC	0.000563	0.000568	0.000509	0.000347
2265005030	Agricultural Equipment	Agricultural Mowers	4 Stroke	VOC	0.000213	0.000192	0.000160	0.000169
2265005035	Agricultural Equipment	Sprayers	4 Stroke	VOC	0.003162	0.003079	0.002617	0.002130
2265005040	Agricultural Equipment	Tillers > 6 HP	4 Stroke	VOC	0.006052	0.006007	0.005780	0.005162

**Appendix D-2: Northumberland 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
2265005045	Agricultural Equipment	Swathers	4 Stroke	VOC	0.000793	0.000798	0.000711	0.000484
2265005055	Agricultural Equipment	Other Agricultural Equipment	4 Stroke	VOC	0.001197	0.001166	0.001009	0.000806
2265005060	Agricultural Equipment	Irrigation Sets	4 Stroke	VOC	0.001213	0.001136	0.000502	0.000153
2265006005	Commercial Equipment	Generator Sets	4 Stroke	VOC	0.038169	0.037720	0.034195	0.038876
2265006010	Commercial Equipment	Pumps	4 Stroke	VOC	0.010304	0.010530	0.006660	0.007813
2265006015	Commercial Equipment	Air Compressors	4 Stroke	VOC	0.004118	0.004132	0.002870	0.003229
2265006025	Commercial Equipment	Welders	4 Stroke	VOC	0.006562	0.006154	0.005846	0.006726
2265006030	Commercial Equipment	Pressure Washers	4 Stroke	VOC	0.018592	0.018832	0.014372	0.015840
2265006035	Commercial Equipment	Hydro Power Units	4 Stroke	VOC	0.000643	0.000625	0.000514	0.000633
2265007010	Logging Equipment	Shredders > 6 HP	4 Stroke	VOC	0.000683	0.000663	0.000618	0.000674
2265007015	Logging Equipment	Forest Eq - Feller/Bunch/Skidder	4 Stroke	VOC	0.000011	0.000011	0.000006	0.000008
2265008005	Airport Equipment	Airport Ground Support Equipment	4 Stroke	VOC	0.000000	0.000000	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	0.000052	0.000051	0.000044	0.000029
2267002003	Construction and Mining Equipment	Pavers	LPG	VOC	0.000017	0.000016	0.000010	0.000002
2267002015	Construction and Mining Equipment	Rollers	LPG	VOC	0.000029	0.000027	0.000012	0.000002
2267002021	Construction and Mining Equipment	Paving Equipment	LPG	VOC	0.000004	0.000004	0.000004	0.000001
2267002024	Construction and Mining Equipment	Surfacing Equipment	LPG	VOC	0.000003	0.000003	0.000002	0.000000
2267002030	Construction and Mining Equipment	Trenchers	LPG	VOC	0.000052	0.000051	0.000031	0.000006
2267002033	Construction and Mining Equipment	Bore/Drill Rigs	LPG	VOC	0.000017	0.000017	0.000015	0.000010
2267002039	Construction and Mining Equipment	Concrete/Industrial Saws	LPG	VOC	0.000051	0.000045	0.000013	0.000003
2267002045	Construction and Mining Equipment	Cranes	LPG	VOC	0.000018	0.000018	0.000014	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	0.000033	0.000032	0.000022	0.000005
2267002060	Construction and Mining Equipment	Rubber Tire Loaders	LPG	VOC	0.000083	0.000080	0.000045	0.000006
2267002066	Construction and Mining Equipment	Tractors/Loaders/Backhoes	LPG	VOC	0.000009	0.000008	0.000004	0.000001
2267002072	Construction and Mining Equipment	Skid Steer Loaders	LPG	VOC	0.000068	0.000067	0.000050	0.000019
2267002081	Construction and Mining Equipment	Other Construction Equipment	LPG	VOC	0.000027	0.000027	0.000022	0.000010
2267003010	Industrial Equipment	Aerial Lifts	LPG	VOC	0.000842	0.000847	0.000682	0.000317
2267003020	Industrial Equipment	Forklifts	LPG	VOC	0.080299	0.078031	0.045097	0.006400
2267003030	Industrial Equipment	Sweepers/Scrubbers	LPG	VOC	0.000618	0.000578	0.000233	0.000043
2267003040	Industrial Equipment	Other General Industrial Equipm	LPG	VOC	0.000188	0.000179	0.000088	0.000013
2267003050	Industrial Equipment	Other Material Handling Equipment	LPG	VOC	0.000046	0.000046	0.000036	0.000012
2267003070	Industrial Equipment	Terminal Tractors	LPG	VOC	0.000379	0.000346	0.000096	0.000023
2267004066	Lawn and Garden Equipment (Com)	Chippers/Stump Grinders	LPG	VOC	0.001393	0.001319	0.000669	0.000092
2267005055	Agricultural Equipment	Other Agricultural Equipment	LPG	VOC	0.000004	0.000004	0.000003	0.000002
2267005060	Agricultural Equipment	Irrigation Sets	LPG	VOC	0.000004	0.000003	0.000001	0.000000
2267006005	Commercial Equipment	Generator Sets	LPG	VOC	0.000744	0.000784	0.000727	0.000525
2267006010	Commercial Equipment	Pumps	LPG	VOC	0.000175	0.000181	0.000141	0.000067
2267006015	Commercial Equipment	Air Compressors	LPG	VOC	0.000213	0.000216	0.000148	0.000037
2267006025	Commercial Equipment	Welders	LPG	VOC	0.000345	0.000357	0.000263	0.000058
2267006030	Commercial Equipment	Pressure Washers	LPG	VOC	0.000004	0.000005	0.000004	0.000002
2267006035	Commercial Equipment	Hydro Power Units	LPG	VOC	0.000003	0.000003	0.000002	0.000001

**Appendix D-2: Northumberland 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
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	0.000345	0.000332	0.000191	0.000027
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	0.000001	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	0.000024	0.000014	0.000002	0.000000
2268006005	Commercial Equipment	Generator Sets	CNG	VOC	0.000015	0.000015	0.000013	0.000010
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	0.000055	0.000021	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	Speciality Vehicle Carts	Diesel	VOC	0.000637	0.000619	0.000544	0.000353
2270002003	Construction and Mining Equipment	Pavers	Diesel	VOC	0.000490	0.000441	0.000342	0.000198
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	0.000030	0.000029	0.000023	0.000017
2270002015	Construction and Mining Equipment	Rollers	Diesel	VOC	0.001388	0.001237	0.000926	0.000533
2270002018	Construction and Mining Equipment	Scrapers	Diesel	VOC	0.001018	0.000909	0.000675	0.000516
2270002021	Construction and Mining Equipment	Paving Equipment	Diesel	VOC	0.000089	0.000082	0.000062	0.000038
2270002024	Construction and Mining Equipment	Surfacing Equipment	Diesel	VOC	0.000062	0.000056	0.000042	0.000027
2270002027	Construction and Mining Equipment	Signal Boards/Light Plants	Diesel	VOC	0.000300	0.000271	0.000182	0.000123
2270002030	Construction and Mining Equipment	Trenchers	Diesel	VOC	0.000826	0.000743	0.000538	0.000294
2270002033	Construction and Mining Equipment	Bore/Drill Rigs	Diesel	VOC	0.000648	0.000623	0.000537	0.000367
2270002036	Construction and Mining Equipment	Excavators	Diesel	VOC	0.004018	0.003610	0.002939	0.001838
2270002039	Construction and Mining Equipment	Concrete/Industrial Saws	Diesel	VOC	0.000067	0.000058	0.000040	0.000022
2270002042	Construction and Mining Equipment	Cement & Mortar Mixers	Diesel	VOC	0.000031	0.000031	0.000028	0.000020
2270002045	Construction and Mining Equipment	Cranes	Diesel	VOC	0.001047	0.000962	0.000754	0.000490
2270002048	Construction and Mining Equipment	Graders	Diesel	VOC	0.001000	0.000898	0.000740	0.000467
2270002051	Construction and Mining Equipment	Off-highway Trucks	Diesel	VOC	0.003463	0.002992	0.002142	0.001876
2270002054	Construction and Mining Equipment	Crushing/Proc. Equipment	Diesel	VOC	0.000213	0.000195	0.000149	0.000090
2270002057	Construction and Mining Equipment	Rough Terrain Forklifts	Diesel	VOC	0.001995	0.001844	0.001389	0.000753
2270002060	Construction and Mining Equipment	Rubber Tire Loaders	Diesel	VOC	0.004994	0.004648	0.003671	0.002404
2270002066	Construction and Mining Equipment	Tractors/Loaders/Backhoes	Diesel	VOC	0.008622	0.008396	0.007342	0.004194
2270002069	Construction and Mining Equipment	Crawler Tractor/Dozers	Diesel	VOC	0.004340	0.003897	0.002995	0.002011
2270002072	Construction and Mining Equipment	Skid Steer Loaders	Diesel	VOC	0.008324	0.008000	0.006692	0.003876
2270002075	Construction and Mining Equipment	Off-Highway Tractors	Diesel	VOC	0.000587	0.000522	0.000371	0.000258
2270002078	Construction and Mining Equipment	Dumpers/Tenders	Diesel	VOC	0.000025	0.000025	0.000022	0.000014
2270002081	Construction and Mining Equipment	Other Construction Equipment	Diesel	VOC	0.000548	0.000505	0.000397	0.000255
2270003010	Industrial Equipment	Aerial Lifts	Diesel	VOC	0.000958	0.000948	0.000862	0.000573
2270003020	Industrial Equipment	Forklifts	Diesel	VOC	0.003382	0.003217	0.002463	0.001310

**Appendix D-2: Northumberland 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
2270003030	Industrial Equipment	Sweepers/Scrubbers	Diesel	VOC	0.001749	0.001554	0.001221	0.000699
2270003040	Industrial Equipment	Other General Industrial Eqp	Diesel	VOC	0.001893	0.001783	0.001400	0.000855
2270003050	Industrial Equipment	Other Material Handling Eqp	Diesel	VOC	0.000178	0.000175	0.000158	0.000104
2270003060	Industrial Equipment	AC\Refrigeration	Diesel	VOC	0.004859	0.004129	0.003023	0.001625
2270003070	Industrial Equipment	Terminal Tractors	Diesel	VOC	0.001853	0.001766	0.001488	0.000891
2270004031	Lawn and Garden Equipment (Com)	Leafblowers/Vacuums	Diesel	VOC	0.000001	0.000001	0.000001	0.000001
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	0.004574	0.004346	0.003392	0.002306
2270004056	Lawn and Garden Equipment (Com)	Lawn & Garden Tractors	Diesel	VOC	0.001013	0.000946	0.000702	0.000583
2270004066	Lawn and Garden Equipment (Com)	Chippers/Stump Grinders	Diesel	VOC	0.003921	0.003923	0.003669	0.002756
2270004071	Lawn and Garden Equipment (Com)	Commercial Turf Equipment	Diesel	VOC	0.000473	0.000393	0.000296	0.000200
2270004076	Lawn and Garden Equipment (Com)	Other Lawn & Garden Eqp.	Diesel	VOC	0.000015	0.000015	0.000013	0.000010
2270005010	Agricultural Equipment	2-Wheel Tractors	Diesel	VOC	0.000002	0.000002	0.000002	0.000001
2270005015	Agricultural Equipment	Agricultural Tractors	Diesel	VOC	0.074554	0.067053	0.051167	0.030116
2270005020	Agricultural Equipment	Combines	Diesel	VOC	0.005430	0.005306	0.004748	0.003383
2270005025	Agricultural Equipment	Balers	Diesel	VOC	0.000055	0.000052	0.000042	0.000026
2270005030	Agricultural Equipment	Agricultural Mowers	Diesel	VOC	0.000009	0.000008	0.000007	0.000004
2270005035	Agricultural Equipment	Sprayers	Diesel	VOC	0.000792	0.000737	0.000576	0.000339
2270005040	Agricultural Equipment	Tillers > 6 HP	Diesel	VOC	0.000001	0.000001	0.000001	0.000000
2270005045	Agricultural Equipment	Swathers	Diesel	VOC	0.000489	0.000486	0.000453	0.000327
2270005055	Agricultural Equipment	Other Agricultural Equipment	Diesel	VOC	0.001662	0.001526	0.001159	0.000696
2270005060	Agricultural Equipment	Irrigation Sets	Diesel	VOC	0.001023	0.000929	0.000693	0.000381
2270006005	Commercial Equipment	Generator Sets	Diesel	VOC	0.002421	0.002367	0.002092	0.001416
2270006010	Commercial Equipment	Pumps	Diesel	VOC	0.000532	0.000524	0.000469	0.000334
2270006015	Commercial Equipment	Air Compressors	Diesel	VOC	0.001200	0.001137	0.000903	0.000518
2270006020	Commercial Equipment	Gas Compressors	Diesel	VOC	0.000000	0.000000	0.000000	0.000000
2270006025	Commercial Equipment	Welders	Diesel	VOC	0.001827	0.001782	0.001534	0.000850
2270006030	Commercial Equipment	Pressure Washers	Diesel	VOC	0.000076	0.000075	0.000068	0.000051
2270006035	Commercial Equipment	Hydro Power Units	Diesel	VOC	0.000056	0.000052	0.000040	0.000024
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	0.000546	0.000475	0.000338	0.000162
2270008005	Airport Equipment	Airport Ground Support Equipment	Diesel	VOC	0.000000	0.000000	0.000000	0.000000
2270009010	Construction and Mining Equipment	Other Underground Mining Equipment	Diesel	VOC	0.001875	0.001816	0.001542	0.001118
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	0.003110	0.003110	0.003359	0.003950
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
2282005010	Pleasure Craft	Outboard	2 Stroke	VOC	1.619734	1.524833	1.261127	0.961724
2282005015	Pleasure Craft	Personal Water Craft	2 Stroke	VOC	0.509988	0.457018	0.308988	0.216342

**Appendix D-2: Northumberland 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
2282010005	Pleasure Craft	Inboard/Stern Drive	4 Stroke	VOC	0.155933	0.156627	0.157447	0.159223
2282020005	Pleasure Craft	Inboard/Stern Drive	Diesel	VOC	0.002464	0.002593	0.002691	0.002661
2282020010	Pleasure Craft	Outboards	Diesel	VOC	0.000062	0.000059	0.000049	0.000029
2285002005	Railroad Equipment	Line Haul Locomotives	Diesel	VOC	0.027533	0.028422	0.027029	0.027203
2285002010	Railroad Equipment	Yard Locomotive	Diesel	VOC	0.000000	0.000000	0.000000	0.000000
2285002015	Railroad Equipment	Railway Maintenance	Diesel	VOC	0.000134	0.000132	0.000118	0.000077
2285004015	Railroad Equipment	Railway Maintenance	4 Stroke	VOC	0.000046	0.000043	0.000033	0.000034
2285006015	Railroad Equipment	Railway Maintenance	LPG	VOC	0.000000	0.000000	0.000000	0.000000
Northumberland County Total Summer Day VOC Emissions					4.584333	4.353662	3.511012	2.866760

**Appendix D-2: Northumberland 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	0.146657	0.170291	0.214888	0.229226
2260001020	Recreational Equipment	Snowmobiles	2 Stroke	CO	0.000000	0.000000	0.000000	0.000000
2260001030	Recreational Equipment	ATVs	2 Stroke	CO	0.144599	0.199674	0.304367	0.349106
2260001060	Recreational Equipment	Specialty Vehicles/Carts	2 Stroke	CO	0.093359	0.095916	0.104173	0.111721
2260002006	Construction and Mining Equipment	Tampers/Rammers	2 Stroke	CO	0.012184	0.012059	0.010084	0.010276
2260002009	Construction and Mining Equipment	Plate Compactors	2 Stroke	CO	0.000587	0.000475	0.000376	0.000385
2260002021	Construction and Mining Equipment	Paving Equipment	2 Stroke	CO	0.000705	0.000565	0.000454	0.000465
2260002027	Construction and Mining Equipment	Signal Boards/Light Plants	2 Stroke	CO	0.000005	0.000004	0.000003	0.000004
2260002039	Construction and Mining Equipment	Concrete/Industrial Saws	2 Stroke	CO	0.032196	0.030348	0.026122	0.026765
2260002054	Construction and Mining Equipment	Crushing/Proc. Equipment	2 Stroke	CO	0.000137	0.000108	0.000093	0.000095
2260003030	Industrial Equipment	Sweepers/Scrubbers	2 Stroke	CO	0.000784	0.000548	0.000334	0.000118
2260003040	Industrial Equipment	Other General Industrial Eqp	2 Stroke	CO	0.000062	0.000044	0.000027	0.000009
2260004015	Lawn and Garden Equipment (Res)	Rotary Tillers < 6 HP	2 Stroke	CO	0.005780	0.005262	0.003932	0.004185
2260004016	Lawn and Garden Equipment (Com)	Rotary Tillers < 6 HP	2 Stroke	CO	0.044263	0.040263	0.029984	0.033806
2260004020	Lawn and Garden Equipment (Res)	Chain Saws < 6 HP	2 Stroke	CO	0.047192	0.043146	0.032852	0.037220
2260004021	Lawn and Garden Equipment (Com)	Chain Saws < 6 HP	2 Stroke	CO	0.407532	0.397849	0.367311	0.427957
2260004025	Lawn and Garden Equipment (Res)	Trimmers/Edgers/Brush Cutter	2 Stroke	CO	0.108765	0.097585	0.067872	0.076238
2260004026	Lawn and Garden Equipment (Com)	Trimmers/Edgers/Brush Cutter	2 Stroke	CO	0.439934	0.387695	0.320964	0.373672
2260004030	Lawn and Garden Equipment (Res)	Leafblowers/Vacuums	2 Stroke	CO	0.067878	0.061803	0.046006	0.052044
2260004031	Lawn and Garden Equipment (Com)	Leafblowers/Vacuums	2 Stroke	CO	0.443651	0.416525	0.358352	0.416396
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	0.000181	0.000158	0.000128	0.000149
2260005035	Agricultural Equipment	Sprayers	2 Stroke	CO	0.002895	0.002446	0.001696	0.001913
2260006005	Commercial Equipment	Generator Sets	2 Stroke	CO	0.003629	0.003129	0.002758	0.003421
2260006010	Commercial Equipment	Pumps	2 Stroke	CO	0.025552	0.020282	0.018125	0.022177
2260006015	Commercial Equipment	Air Compressors	2 Stroke	CO	0.000009	0.000008	0.000008	0.000010
2260006035	Commercial Equipment	Hydro Power Units	2 Stroke	CO	0.000147	0.000122	0.000120	0.000149
2260007005	Logging Equipment	Chain Saws > 6 HP	2 Stroke	CO	0.008991	0.009292	0.009162	0.011603
2265001010	Recreational Equipment	Motorcycles: Off-Road	4 Stroke	CO	0.065300	0.075917	0.091000	0.086049
2265001030	Recreational Equipment	ATVs	4 Stroke	CO	0.588650	0.712258	0.966307	1.129487
2265001050	Recreational Equipment	Golf Carts	4 Stroke	CO	0.608511	0.634189	0.667778	0.711938
2265001060	Recreational Equipment	Specialty Vehicles/Carts	4 Stroke	CO	0.082280	0.082625	0.084061	0.088926
2265002003	Construction and Mining Equipment	Pavers	4 Stroke	CO	0.010916	0.011217	0.011252	0.011144
2265002006	Construction and Mining Equipment	Tampers/Rammers	4 Stroke	CO	0.000086	0.000089	0.000094	0.000096
2265002009	Construction and Mining Equipment	Plate Compactors	4 Stroke	CO	0.020159	0.020449	0.020885	0.021342
2265002015	Construction and Mining Equipment	Rollers	4 Stroke	CO	0.020460	0.020973	0.020863	0.020889
2265002021	Construction and Mining Equipment	Paving Equipment	4 Stroke	CO	0.039470	0.040201	0.041726	0.042826
2265002024	Construction and Mining Equipment	Surfacing Equipment	4 Stroke	CO	0.017891	0.018412	0.018851	0.019255
2265002027	Construction and Mining Equipment	Signal Boards/Light Plants	4 Stroke	CO	0.000910	0.000932	0.000949	0.000972
2265002030	Construction and Mining Equipment	Trenchers	4 Stroke	CO	0.033458	0.034222	0.034084	0.033681
2265002033	Construction and Mining Equipment	Bore/Drill Rigs	4 Stroke	CO	0.009857	0.009899	0.009814	0.009736
2265002039	Construction and Mining Equipment	Concrete/Industrial Saws	4 Stroke	CO	0.082626	0.084886	0.085720	0.087307

**Appendix D-2: Northumberland 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
2265002042	Construction and Mining Equipment	Cement & Mortar Mixers	4 Stroke	CO	0.034559	0.034421	0.035499	0.036815
2265002045	Construction and Mining Equipment	Cranes	4 Stroke	CO	0.001383	0.001369	0.001175	0.000752
2265002054	Construction and Mining Equipment	Crushing/Proc. Equipment	4 Stroke	CO	0.004852	0.004996	0.005098	0.005145
2265002057	Construction and Mining Equipment	Rough Terrain Forklifts	4 Stroke	CO	0.001805	0.001728	0.001192	0.000352
2265002060	Construction and Mining Equipment	Rubber Tire Loaders	4 Stroke	CO	0.004329	0.004060	0.002277	0.000411
2265002066	Construction and Mining Equipment	Tractors/Loaders/Backhoes	4 Stroke	CO	0.026020	0.026881	0.027593	0.028104
2265002072	Construction and Mining Equipment	Skid Steer Loaders	4 Stroke	CO	0.011511	0.011609	0.011154	0.009866
2265002078	Construction and Mining Equipment	Dumpers/Tenders	4 Stroke	CO	0.005381	0.005359	0.005522	0.005738
2265002081	Construction and Mining Equipment	Other Construction Equipment	4 Stroke	CO	0.001518	0.001474	0.001173	0.000545
2265003010	Industrial Equipment	Aerial Lifts	4 Stroke	CO	0.075936	0.068290	0.047591	0.016012
2265003020	Industrial Equipment	Forklifts	4 Stroke	CO	0.171656	0.146812	0.068203	0.004703
2265003030	Industrial Equipment	Sweepers/Scrubbers	4 Stroke	CO	0.073790	0.065496	0.038824	0.011934
2265003040	Industrial Equipment	Other General Industrial Eqp	4 Stroke	CO	0.188247	0.170599	0.118479	0.041260
2265003050	Industrial Equipment	Other Material Handling Eqp	4 Stroke	CO	0.005805	0.005267	0.003683	0.001160
2265003060	Industrial Equipment	AC\Refrigeration	4 Stroke	CO	0.003044	0.002827	0.002070	0.000741
2265003070	Industrial Equipment	Terminal Tractors	4 Stroke	CO	0.017826	0.014413	0.003173	0.000313
2265004010	Lawn and Garden Equipment (Res)	Lawn mowers	4 Stroke	CO	1.138066	1.179106	1.283668	1.467390
2265004011	Lawn and Garden Equipment (Com)	Lawn mowers	4 Stroke	CO	1.575387	1.641912	1.765188	2.046517
2265004015	Lawn and Garden Equipment (Res)	Rotary Tillers < 6 HP	4 Stroke	CO	0.095863	0.099204	0.107823	0.123031
2265004016	Lawn and Garden Equipment (Com)	Rotary Tillers < 6 HP	4 Stroke	CO	0.767498	0.798847	0.870325	0.998183
2265004025	Lawn and Garden Equipment (Res)	Trimmers/Edgers/Brush Cutter	4 Stroke	CO	0.006391	0.006641	0.007222	0.008272
2265004026	Lawn and Garden Equipment (Com)	Trimmers/Edgers/Brush Cutter	4 Stroke	CO	0.039123	0.041471	0.045693	0.053050
2265004030	Lawn and Garden Equipment (Res)	Leafblowers/Vacuums	4 Stroke	CO	0.012217	0.012695	0.013794	0.015787
2265004031	Lawn and Garden Equipment (Com)	Leafblowers/Vacuums	4 Stroke	CO	1.565826	1.676588	1.839381	2.061704
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	0.267646	0.281081	0.321121	0.377092
2265004041	Lawn and Garden Equipment (Com)	Rear Engine Riding Mowers	4 Stroke	CO	0.202737	0.217500	0.245626	0.286317
2265004046	Lawn and Garden Equipment (Com)	Front Mowers	4 Stroke	CO	0.218938	0.226437	0.254720	0.302714
2265004051	Lawn and Garden Equipment (Com)	Shredders < 6 HP	4 Stroke	CO	0.087947	0.091473	0.099757	0.114279
2265004055	Lawn and Garden Equipment (Res)	Lawn & Garden Tractors	4 Stroke	CO	3.558644	3.740426	4.303450	5.060947
2265004056	Lawn and Garden Equipment (Com)	Lawn & Garden Tractors	4 Stroke	CO	2.726843	2.942101	3.339293	3.892610
2265004066	Lawn and Garden Equipment (Com)	Chippers/Stump Grinders	4 Stroke	CO	0.362137	0.379593	0.382702	0.408094
2265004071	Lawn and Garden Equipment (Com)	Commercial Turf Equipment	4 Stroke	CO	8.434628	8.891183	9.660608	11.204432
2265004075	Lawn and Garden Equipment (Res)	Other Lawn & Garden Eqp.	4 Stroke	CO	0.116160	0.120202	0.131622	0.154305
2265004076	Lawn and Garden Equipment (Com)	Other Lawn & Garden Eqp.	4 Stroke	CO	0.238463	0.246751	0.270118	0.316498
2265005010	Agricultural Equipment	2-Wheel Tractors	4 Stroke	CO	0.010371	0.011096	0.012301	0.013930
2265005015	Agricultural Equipment	Agricultural Tractors	4 Stroke	CO	0.020977	0.021073	0.017131	0.012658
2265005020	Agricultural Equipment	Combines	4 Stroke	CO	0.000101	0.000101	0.000091	0.000064
2265005025	Agricultural Equipment	Balers	4 Stroke	CO	0.009535	0.009583	0.008616	0.006081
2265005030	Agricultural Equipment	Agricultural Mowers	4 Stroke	CO	0.008065	0.008387	0.009393	0.010755
2265005035	Agricultural Equipment	Sprayers	4 Stroke	CO	0.069029	0.070653	0.074958	0.082214
2265005040	Agricultural Equipment	Tillers > 6 HP	4 Stroke	CO	0.171649	0.176046	0.187702	0.210659

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Tons per Day**

SCC	Classification	Equipment Type	Engine Type	Pollutant Code	2002 Emissions	2004 Emissions	2009 Emissions	2018 Emissions
2265005045	Agricultural Equipment	Swathers	4 Stroke	CO	0.015103	0.015179	0.013648	0.009631
2265005055	Agricultural Equipment	Other Agricultural Equipment	4 Stroke	CO	0.031335	0.031925	0.031978	0.030237
2265005060	Agricultural Equipment	Irrigation Sets	4 Stroke	CO	0.029394	0.028114	0.015411	0.006156
2265006005	Commercial Equipment	Generator Sets	4 Stroke	CO	1.054909	1.129399	1.342038	1.682669
2265006010	Commercial Equipment	Pumps	4 Stroke	CO	0.243762	0.263509	0.301979	0.369800
2265006015	Commercial Equipment	Air Compressors	4 Stroke	CO	0.121089	0.130684	0.147347	0.176086
2265006025	Commercial Equipment	Welders	4 Stroke	CO	0.304209	0.331732	0.383140	0.463133
2265006030	Commercial Equipment	Pressure Washers	4 Stroke	CO	0.462012	0.499531	0.588248	0.729747
2265006035	Commercial Equipment	Hydro Power Units	4 Stroke	CO	0.023380	0.025555	0.029936	0.037059
2265007010	Logging Equipment	Shredders > 6 HP	4 Stroke	CO	0.020003	0.021296	0.025305	0.032995
2265007015	Logging Equipment	Forest Eq - Feller/Bunch/Skidder	4 Stroke	CO	0.000239	0.000259	0.000302	0.000382
2265008005	Airport Equipment	Airport Ground Support Equipment	4 Stroke	CO	0.000000	0.000000	0.000000	0.000000
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	0.000771	0.000779	0.000717	0.000510
2267002003	Construction and Mining Equipment	Pavers	LPG	CO	0.000254	0.000261	0.000200	0.000056
2267002015	Construction and Mining Equipment	Rollers	LPG	CO	0.000431	0.000441	0.000280	0.000063
2267002021	Construction and Mining Equipment	Paving Equipment	LPG	CO	0.000066	0.000068	0.000061	0.000031
2267002024	Construction and Mining Equipment	Surfacing Equipment	LPG	CO	0.000044	0.000045	0.000033	0.000009
2267002030	Construction and Mining Equipment	Trenchers	LPG	CO	0.000776	0.000798	0.000627	0.000175
2267002033	Construction and Mining Equipment	Bore/Drill Rigs	LPG	CO	0.000251	0.000260	0.000249	0.000182
2267002039	Construction and Mining Equipment	Concrete/Industrial Saws	LPG	CO	0.000756	0.000769	0.000387	0.000098
2267002045	Construction and Mining Equipment	Cranes	LPG	CO	0.000271	0.000280	0.000251	0.000126
2267002054	Construction and Mining Equipment	Crushing/Proc. Equipment	LPG	CO	0.000045	0.000047	0.000041	0.000019
2267002057	Construction and Mining Equipment	Rough Terrain Forklifts	LPG	CO	0.000492	0.000507	0.000419	0.000125
2267002060	Construction and Mining Equipment	Rubber Tire Loaders	LPG	CO	0.001233	0.001266	0.000949	0.000203
2267002066	Construction and Mining Equipment	Tractors/Loaders/Backhoes	LPG	CO	0.000132	0.000135	0.000092	0.000019
2267002072	Construction and Mining Equipment	Skid Steer Loaders	LPG	CO	0.001007	0.001039	0.000898	0.000419
2267002081	Construction and Mining Equipment	Other Construction Equipment	LPG	CO	0.000403	0.000417	0.000380	0.000212
2267003010	Industrial Equipment	Aerial Lifts	LPG	CO	0.012404	0.013046	0.012016	0.006674
2267003020	Industrial Equipment	Forklifts	LPG	CO	1.188276	1.242012	0.960445	0.216711
2267003030	Industrial Equipment	Sweepers/Scrubbers	LPG	CO	0.009180	0.009531	0.005944	0.001461
2267003040	Industrial Equipment	Other General Industrial Equipm	LPG	CO	0.002784	0.002900	0.002036	0.000461
2267003050	Industrial Equipment	Other Material Handling Equipment	LPG	CO	0.000671	0.000705	0.000644	0.000310
2267003070	Industrial Equipment	Terminal Tractors	LPG	CO	0.005624	0.005817	0.003115	0.000798
2267004066	Lawn and Garden Equipment (Com)	Chippers/Stump Grinders	LPG	CO	0.020640	0.021177	0.014997	0.003204
2267005055	Agricultural Equipment	Other Agricultural Equipment	LPG	CO	0.000061	0.000061	0.000055	0.000038
2267005060	Agricultural Equipment	Irrigation Sets	LPG	CO	0.000053	0.000052	0.000033	0.000006
2267006005	Commercial Equipment	Generator Sets	LPG	CO	0.009765	0.010858	0.011588	0.009759
2267006010	Commercial Equipment	Pumps	LPG	CO	0.002313	0.002563	0.002519	0.001503
2267006015	Commercial Equipment	Air Compressors	LPG	CO	0.002820	0.003118	0.002891	0.001142
2267006025	Commercial Equipment	Welders	LPG	CO	0.005090	0.005628	0.005167	0.001661
2267006030	Commercial Equipment	Pressure Washers	LPG	CO	0.000066	0.000073	0.000074	0.000045
2267006035	Commercial Equipment	Hydro Power Units	LPG	CO	0.000044	0.000049	0.000041	0.000016

**Appendix D-2: Northumberland 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
2267008005	Airport Equipment	Airport Ground Support Equipment	LPG	CO	0.000000	0.000000	0.000000	0.000000
2268002081	Construction and Mining Equipment	Other Construction Equipment	CNG	CO	0.000016	0.000016	0.000015	0.000008
2268003020	Industrial Equipment	Forklifts	CNG	CO	0.086657	0.089571	0.068362	0.014982
2268003030	Industrial Equipment	Sweepers/Scrubbers	CNG	CO	0.000104	0.000107	0.000081	0.000018
2268003040	Industrial Equipment	Other General Industrial Equipment	CNG	CO	0.000068	0.000070	0.000052	0.000011
2268003060	Industrial Equipment	AC\Refrigeration	CNG	CO	0.000129	0.000133	0.000090	0.000022
2268003070	Industrial Equipment	Terminal Tractors	CNG	CO	0.000396	0.000406	0.000214	0.000053
2268005055	Agricultural Equipment	Other Agricultural Equipment	CNG	CO	0.000081	0.000067	0.000038	0.000011
2268005060	Agricultural Equipment	Irrigation Sets	CNG	CO	0.006204	0.003652	0.000421	0.000000
2268006005	Commercial Equipment	Generator Sets	CNG	CO	0.003243	0.003448	0.003478	0.002816
2268006010	Commercial Equipment	Pumps	CNG	CO	0.000164	0.000174	0.000166	0.000107
2268006015	Commercial Equipment	Air Compressors	CNG	CO	0.000238	0.000251	0.000221	0.000080
2268006020	Commercial Equipment	Gas Compressors	CNG	CO	0.014234	0.013395	0.001705	0.002130
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	Speciality Vehicle Carts	Diesel	CO	0.002372	0.002312	0.002076	0.001372
2270002003	Construction and Mining Equipment	Pavers	Diesel	CO	0.002577	0.002262	0.001906	0.000826
2270002006	Construction and Mining Equipment	Tampers/Rammers	Diesel	CO	0.000006	0.000007	0.000007	0.000008
2270002009	Construction and Mining Equipment	Plate Compactors	Diesel	CO	0.000104	0.000104	0.000102	0.000109
2270002015	Construction and Mining Equipment	Rollers	Diesel	CO	0.007414	0.006701	0.005645	0.002730
2270002018	Construction and Mining Equipment	Scrapers	Diesel	CO	0.006700	0.006109	0.005127	0.002389
2270002021	Construction and Mining Equipment	Paving Equipment	Diesel	CO	0.000481	0.000441	0.000353	0.000196
2270002024	Construction and Mining Equipment	Surfacing Equipment	Diesel	CO	0.000363	0.000339	0.000280	0.000158
2270002027	Construction and Mining Equipment	Signal Boards/Light Plants	Diesel	CO	0.000947	0.000892	0.000716	0.000589
2270002030	Construction and Mining Equipment	Trenchers	Diesel	CO	0.004451	0.004168	0.003506	0.001862
2270002033	Construction and Mining Equipment	Bore/Drill Rigs	Diesel	CO	0.002674	0.002562	0.002237	0.001369
2270002036	Construction and Mining Equipment	Excavators	Diesel	CO	0.020568	0.017429	0.015784	0.004896
2270002039	Construction and Mining Equipment	Concrete/Industrial Saws	Diesel	CO	0.000344	0.000319	0.000265	0.000142
2270002042	Construction and Mining Equipment	Cement & Mortar Mixers	Diesel	CO	0.000118	0.000117	0.000114	0.000092
2270002045	Construction and Mining Equipment	Cranes	Diesel	CO	0.003755	0.003450	0.002829	0.001367
2270002048	Construction and Mining Equipment	Graders	Diesel	CO	0.004845	0.003969	0.003510	0.001228
2270002051	Construction and Mining Equipment	Off-highway Trucks	Diesel	CO	0.021016	0.017605	0.012991	0.002746
2270002054	Construction and Mining Equipment	Crushing/Proc. Equipment	Diesel	CO	0.000879	0.000810	0.000682	0.000363
2270002057	Construction and Mining Equipment	Rough Terrain Forklifts	Diesel	CO	0.011071	0.010403	0.009049	0.004903
2270002060	Construction and Mining Equipment	Rubber Tire Loaders	Diesel	CO	0.028477	0.026104	0.021440	0.010062
2270002066	Construction and Mining Equipment	Tractors/Loaders/Backhoes	Diesel	CO	0.034785	0.034434	0.033034	0.021443
2270002069	Construction and Mining Equipment	Crawler Tractor/Dozers	Diesel	CO	0.024370	0.021640	0.018302	0.007585
2270002072	Construction and Mining Equipment	Skid Steer Loaders	Diesel	CO	0.030420	0.030231	0.028411	0.019412
2270002075	Construction and Mining Equipment	Off-Highway Tractors	Diesel	CO	0.003692	0.003311	0.002539	0.001128
2270002078	Construction and Mining Equipment	Dumpers/Tenders	Diesel	CO	0.000087	0.000088	0.000087	0.000062
2270002081	Construction and Mining Equipment	Other Construction Equipment	Diesel	CO	0.003538	0.003266	0.002643	0.001398
2270003010	Industrial Equipment	Aerial Lifts	Diesel	CO	0.003294	0.003368	0.003393	0.002567
2270003020	Industrial Equipment	Forklifts	Diesel	CO	0.020004	0.019936	0.021267	0.003688

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SCC	Classification	Equipment Type	Engine Type	Pollutant Code	2002 Emissions	2004 Emissions	2009 Emissions	2018 Emissions
2270003030	Industrial Equipment	Sweepers/Scrubbers	Diesel	CO	0.006155	0.005450	0.005044	0.002163
2270003040	Industrial Equipment	Other General Industrial Eqp	Diesel	CO	0.006676	0.006276	0.005337	0.003006
2270003050	Industrial Equipment	Other Material Handling Eqp	Diesel	CO	0.000612	0.000608	0.000584	0.000403
2270003060	Industrial Equipment	AC\Refrigeration	Diesel	CO	0.018539	0.017221	0.017123	0.008882
2270003070	Industrial Equipment	Terminal Tractors	Diesel	CO	0.008460	0.007694	0.007984	0.001785
2270004031	Lawn and Garden Equipment (Com)	Leafblowers/Vacuums	Diesel	CO	0.000002	0.000002	0.000003	0.000003
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	0.014580	0.014460	0.013252	0.010729
2270004056	Lawn and Garden Equipment (Com)	Lawn & Garden Tractors	Diesel	CO	0.003186	0.003126	0.002765	0.002833
2270004066	Lawn and Garden Equipment (Com)	Chippers/Stump Grinders	Diesel	CO	0.015541	0.015661	0.015513	0.011178
2270004071	Lawn and Garden Equipment (Com)	Commercial Turf Equipment	Diesel	CO	0.001639	0.001463	0.001361	0.000752
2270004076	Lawn and Garden Equipment (Com)	Other Lawn & Garden Eqp.	Diesel	CO	0.000052	0.000053	0.000055	0.000049
2270005010	Agricultural Equipment	2-Wheel Tractors	Diesel	CO	0.000014	0.000014	0.000013	0.000011
2270005015	Agricultural Equipment	Agricultural Tractors	Diesel	CO	0.363820	0.335928	0.275884	0.150390
2270005020	Agricultural Equipment	Combines	Diesel	CO	0.022661	0.022318	0.021230	0.013921
2270005025	Agricultural Equipment	Balers	Diesel	CO	0.000189	0.000189	0.000184	0.000135
2270005030	Agricultural Equipment	Agricultural Mowers	Diesel	CO	0.000043	0.000043	0.000043	0.000031
2270005035	Agricultural Equipment	Sprayers	Diesel	CO	0.002552	0.002458	0.002194	0.001375
2270005040	Agricultural Equipment	Tillers > 6 HP	Diesel	CO	0.000005	0.000005	0.000004	0.000002
2270005045	Agricultural Equipment	Swathers	Diesel	CO	0.002180	0.002255	0.002426	0.001942
2270005055	Agricultural Equipment	Other Agricultural Equipment	Diesel	CO	0.007227	0.006808	0.005705	0.003222
2270005060	Agricultural Equipment	Irrigation Sets	Diesel	CO	0.003238	0.003088	0.002725	0.001593
2270006005	Commercial Equipment	Generator Sets	Diesel	CO	0.008546	0.008491	0.008120	0.005951
2270006010	Commercial Equipment	Pumps	Diesel	CO	0.001987	0.001983	0.001925	0.001474
2270006015	Commercial Equipment	Air Compressors	Diesel	CO	0.004534	0.004423	0.004187	0.002604
2270006020	Commercial Equipment	Gas Compressors	Diesel	CO	0.000000	0.000000	0.000000	0.000000
2270006025	Commercial Equipment	Welders	Diesel	CO	0.006728	0.006732	0.006305	0.004057
2270006030	Commercial Equipment	Pressure Washers	Diesel	CO	0.000257	0.000255	0.000242	0.000184
2270006035	Commercial Equipment	Hydro Power Units	Diesel	CO	0.000205	0.000198	0.000183	0.000119
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	0.002583	0.002111	0.001737	0.000331
2270008005	Airport Equipment	Airport Ground Support Equipment	Diesel	CO	0.000000	0.000000	0.000000	0.000000
2270009010	Construction and Mining Equipment	Other Underground Mining Equipment	Diesel	CO	0.007417	0.007248	0.006387	0.004947
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	0.147507	0.147507	0.159308	0.187334
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
2282005010	Pleasure Craft	Outboard	2 Stroke	CO	2.753203	2.644360	2.328590	2.018759
2282005015	Pleasure Craft	Personal Water Craft	2 Stroke	CO	0.996340	0.968415	0.908160	0.901432

**Appendix D-2: Northumberland 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
2282010005	Pleasure Craft	Inboard/Stern Drive	4 Stroke	CO	1.409459	1.377216	1.269845	1.078049
2282020005	Pleasure Craft	Inboard/Stern Drive	Diesel	CO	0.010418	0.010991	0.012418	0.014962
2282020010	Pleasure Craft	Outboards	Diesel	CO	0.000179	0.000175	0.000158	0.000119
2285002005	Railroad Equipment	Line Haul Locomotives	Diesel	CO	0.070154	0.072417	0.078399	0.090439
2285002010	Railroad Equipment	Yard Locomotive	Diesel	CO	0.000000	0.000000	0.000000	0.000000
2285002015	Railroad Equipment	Railway Maintenance	Diesel	CO	0.000570	0.000556	0.000505	0.000319
2285004015	Railroad Equipment	Railway Maintenance	4 Stroke	CO	0.001637	0.001715	0.001857	0.002023
2285006015	Railroad Equipment	Railway Maintenance	LPG	CO	0.000007	0.000007	0.000006	0.000002
Northumberland County Total Summer Day CO Emissions					35.772303	37.033090	38.945963	42.270567