

Appendix D2: Susquehanna County Daily Nonroad Emissions by SCC
Tons per Day

SCC	Classification	Equipment Type	Engine Type	Pollutant Code	2002 Emissions	2004 Emissions	2009 Emissions	2018 Emissions
2260001010	Recreational Equipment	Motorcycles: Off-Road	2 Stroke	NOx	0.000494	0.000575	0.000941	0.001524
2260001020	Recreational Equipment	Snowmobiles	2 Stroke	NOx	0.000000	0.000000	0.000000	0.000000
2260001030	Recreational Equipment	ATVs	2 Stroke	NOx	0.000500	0.000688	0.001306	0.002212
2260001060	Recreational Equipment	Specialty Vehicles/Carts	2 Stroke	NOx	0.000740	0.000693	0.000565	0.000582
2260002006	Construction and Mining Equipment	Tampers/Rammers	2 Stroke	NOx	0.000024	0.000023	0.000013	0.000013
2260002009	Construction and Mining Equipment	Plate Compactors	2 Stroke	NOx	0.000000	0.000001	0.000001	0.000001
2260002021	Construction and Mining Equipment	Paving Equipment	2 Stroke	NOx	0.000000	0.000001	0.000001	0.000001
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	0.000058	0.000053	0.000033	0.000033
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	0.000000	0.000000	0.000000	0.000000
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	0.000003	0.000004	0.000007	0.000009
2260004016	Lawn and Garden Equipment (Com)	Rotary Tillers < 6 HP	2 Stroke	NOx	0.000009	0.000013	0.000025	0.000030
2260004020	Lawn and Garden Equipment (Res)	Chain Saws < 6 HP	2 Stroke	NOx	0.000023	0.000033	0.000063	0.000075
2260004021	Lawn and Garden Equipment (Com)	Chain Saws < 6 HP	2 Stroke	NOx	0.000263	0.000259	0.000177	0.000206
2260004025	Lawn and Garden Equipment (Res)	Trimmers/Edgers/Brush Cutter	2 Stroke	NOx	0.000056	0.000077	0.000140	0.000168
2260004026	Lawn and Garden Equipment (Com)	Trimmers/Edgers/Brush Cutter	2 Stroke	NOx	0.000126	0.000179	0.000249	0.000289
2260004030	Lawn and Garden Equipment (Res)	Leafblowers/Vacuums	2 Stroke	NOx	0.000033	0.000047	0.000090	0.000107
2260004031	Lawn and Garden Equipment (Com)	Leafblowers/Vacuums	2 Stroke	NOx	0.000200	0.000236	0.000232	0.000268
2260004035	Lawn and Garden Equipment (Res)	Snowblowers	2 Stroke	NOx	0.000000	0.000000	0.000000	0.000000
2260004036	Lawn and Garden Equipment (Com)	Snowblowers	2 Stroke	NOx	0.000000	0.000000	0.000000	0.000000
2260004071	Lawn and Garden Equipment (Com)	Commercial Turf Equipment	2 Stroke	NOx	0.000000	0.000000	0.000000	0.000000
2260005035	Agricultural Equipment	Sprayers	2 Stroke	NOx	0.000003	0.000005	0.000008	0.000009
2260006005	Commercial Equipment	Generator Sets	2 Stroke	NOx	0.000003	0.000005	0.000008	0.000009
2260006010	Commercial Equipment	Pumps	2 Stroke	NOx	0.000021	0.000036	0.000051	0.000064
2260006015	Commercial Equipment	Air Compressors	2 Stroke	NOx	0.000000	0.000000	0.000000	0.000000
2260006035	Commercial Equipment	Hydro Power Units	2 Stroke	NOx	0.000000	0.000000	0.000000	0.000000
2260007005	Logging Equipment	Chain Saws > 6 HP	2 Stroke	NOx	0.000100	0.000096	0.000063	0.000080
2265001010	Recreational Equipment	Motorcycles: Off-Road	4 Stroke	NOx	0.000684	0.000795	0.001011	0.001119
2265001030	Recreational Equipment	ATVs	4 Stroke	NOx	0.006172	0.007485	0.009201	0.008880
2265001050	Recreational Equipment	Golf Carts	4 Stroke	NOx	0.002772	0.002467	0.002350	0.002506
2265001060	Recreational Equipment	Specialty Vehicles/Carts	4 Stroke	NOx	0.000635	0.000653	0.000656	0.000630
2265002003	Construction and Mining Equipment	Pavers	4 Stroke	NOx	0.000043	0.000039	0.000028	0.000021
2265002006	Construction and Mining Equipment	Tampers/Rammers	4 Stroke	NOx	0.000000	0.000000	0.000000	0.000000
2265002009	Construction and Mining Equipment	Plate Compactors	4 Stroke	NOx	0.000052	0.000049	0.000035	0.000032
2265002015	Construction and Mining Equipment	Rollers	4 Stroke	NOx	0.000074	0.000065	0.000045	0.000037
2265002021	Construction and Mining Equipment	Paving Equipment	4 Stroke	NOx	0.000108	0.000101	0.000078	0.000074
2265002024	Construction and Mining Equipment	Surfacing Equipment	4 Stroke	NOx	0.000045	0.000040	0.000032	0.000032
2265002027	Construction and Mining Equipment	Signal Boards/Light Plants	4 Stroke	NOx	0.000002	0.000002	0.000001	0.000001
2265002030	Construction and Mining Equipment	Trenchers	4 Stroke	NOx	0.000131	0.000119	0.000084	0.000062
2265002033	Construction and Mining Equipment	Bore/Drill Rigs	4 Stroke	NOx	0.000041	0.000041	0.000030	0.000023
2265002039	Construction and Mining Equipment	Concrete/Industrial Saws	4 Stroke	NOx	0.000223	0.000195	0.000150	0.000145
2265002042	Construction and Mining Equipment	Cement & Mortar Mixers	4 Stroke	NOx	0.000084	0.000087	0.000073	0.000064
2265002045	Construction and Mining Equipment	Cranes	4 Stroke	NOx	0.000022	0.000021	0.000015	0.000006
2265002054	Construction and Mining Equipment	Crushing/Proc. Equipment	4 Stroke	NOx	0.000015	0.000013	0.000010	0.000009
2265002057	Construction and Mining Equipment	Rough Terrain Forklifts	4 Stroke	NOx	0.000037	0.000035	0.000022	0.000006
2265002060	Construction and Mining Equipment	Rubber Tire Loaders	4 Stroke	NOx	0.000092	0.000085	0.000044	0.000009
2265002066	Construction and Mining Equipment	Tractors/Loaders/Backhoes	4 Stroke	NOx	0.000070	0.000061	0.000050	0.000049
2265002072	Construction and Mining Equipment	Skid Steer Loaders	4 Stroke	NOx	0.000098	0.000092	0.000066	0.000035
2265002078	Construction and Mining Equipment	Dumpers/Tenders	4 Stroke	NOx	0.000014	0.000014	0.000012	0.000011
2265002081	Construction and Mining Equipment	Other Construction Equipment	4 Stroke	NOx	0.000032	0.000031	0.000023	0.000010
2265003010	Industrial Equipment	Aerial Lifts	4 Stroke	NOx	0.000254	0.000220	0.000135	0.000041
2265003020	Industrial Equipment	Forklifts	4 Stroke	NOx	0.001073	0.000903	0.000393	0.000030
2265003030	Industrial Equipment	Sweepers/Scrubbers	4 Stroke	NOx	0.000191	0.000153	0.000054	0.000009
2265003040	Industrial Equipment	Other General Industrial Eqp	4 Stroke	NOx	0.000169	0.000140	0.000064	0.000019
2265003050	Industrial Equipment	Other Material Handling Eqp	4 Stroke	NOx	0.000017	0.000014	0.000009	0.000002
2265003060	Industrial Equipment	AC\Refrigeration	4 Stroke	NOx	0.000008	0.000006	0.000004	0.000001
2265003070	Industrial Equipment	Terminal Tractors	4 Stroke	NOx	0.000111	0.000087	0.000018	0.000002
2265004010	Lawn and Garden Equipment (Res)	Lawn mowers	4 Stroke	NOx	0.002416	0.002599	0.002350	0.001745
2265004011	Lawn and Garden Equipment (Com)	Lawn mowers	4 Stroke	NOx	0.001402	0.001461	0.000955	0.000968
2265004015	Lawn and Garden Equipment (Res)	Rotary Tillers < 6 HP	4 Stroke	NOx	0.000205	0.000220	0.000198	0.000146
2265004016	Lawn and Garden Equipment (Com)	Rotary Tillers < 6 HP	4 Stroke	NOx	0.000707	0.000749	0.000633	0.000499
2265004025	Lawn and Garden Equipment (Res)	Trimmers/Edgers/Brush Cutter	4 Stroke	NOx	0.000014	0.000015	0.000012	0.000010
2265004026	Lawn and Garden Equipment (Com)	Trimmers/Edgers/Brush Cutter	4 Stroke	NOx	0.000036	0.000035	0.000028	0.000030
2265004030	Lawn and Garden Equipment (Res)	Leafblowers/Vacuums	4 Stroke	NOx	0.000027	0.000028	0.000023	0.000018
2265004031	Lawn and Garden Equipment (Com)	Leafblowers/Vacuums	4 Stroke	NOx	0.002400	0.002205	0.001799	0.001498
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	0.000630	0.000613	0.000544	0.000609
2265004041	Lawn and Garden Equipment (Com)	Rear Engine Riding Mowers	4 Stroke	NOx	0.000195	0.000173	0.000163	0.000189
2265004046	Lawn and Garden Equipment (Com)	Front Mowers	4 Stroke	NOx	0.000205	0.000215	0.000206	0.000217
2265004051	Lawn and Garden Equipment (Com)	Shredders < 6 HP	4 Stroke	NOx	0.000080	0.000086	0.000075	0.000057
2265004055	Lawn and Garden Equipment (Res)	Lawn & Garden Tractors	4 Stroke	NOx	0.008658	0.008406	0.007325	0.008167
2265004056	Lawn and Garden Equipment (Com)	Lawn & Garden Tractors	4 Stroke	NOx	0.002717	0.002392	0.002212	0.002574
2265004066	Lawn and Garden Equipment (Com)	Chippers/Stump Grinders	4 Stroke	NOx	0.000868	0.000803	0.000504	0.000328

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2265004071	Lawn and Garden Equipment (Com)	Commercial Turf Equipment	4 Stroke	NOx	0.009516	0.008658	0.006598	0.007265
2265004075	Lawn and Garden Equipment (Res)	Other Lawn & Garden Eqp.	4 Stroke	NOx	0.000237	0.000255	0.000250	0.000223
2265004076	Lawn and Garden Equipment (Com)	Other Lawn & Garden Eqp.	4 Stroke	NOx	0.000211	0.000227	0.000222	0.000197
2265005010	Agricultural Equipment	2-Wheel Tractors	4 Stroke	NOx	0.000049	0.000043	0.000040	0.000045
2265005015	Agricultural Equipment	Agricultural Tractors	4 Stroke	NOx	0.000549	0.000515	0.000300	0.000102
2265005020	Agricultural Equipment	Combines	4 Stroke	NOx	0.000004	0.000004	0.000004	0.000002
2265005025	Agricultural Equipment	Balers	4 Stroke	NOx	0.000390	0.000389	0.000339	0.000231
2265005030	Agricultural Equipment	Agricultural Mowers	4 Stroke	NOx	0.000040	0.000039	0.000035	0.000037
2265005035	Agricultural Equipment	Sprayers	4 Stroke	NOx	0.000635	0.000647	0.000577	0.000466
2265005040	Agricultural Equipment	Tillers > 6 HP	4 Stroke	NOx	0.000608	0.000645	0.000718	0.000844
2265005045	Agricultural Equipment	Swathers	4 Stroke	NOx	0.000618	0.000616	0.000536	0.000365
2265005055	Agricultural Equipment	Other Agricultural Equipment	4 Stroke	NOx	0.000739	0.000737	0.000644	0.000462
2265005060	Agricultural Equipment	Irrigation Sets	4 Stroke	NOx	0.001075	0.000996	0.000451	0.000129
2265006005	Commercial Equipment	Generator Sets	4 Stroke	NOx	0.003386	0.003435	0.003209	0.003713
2265006010	Commercial Equipment	Pumps	4 Stroke	NOx	0.001025	0.001002	0.000799	0.000808
2265006015	Commercial Equipment	Air Compressors	4 Stroke	NOx	0.000706	0.000683	0.000517	0.000405
2265006025	Commercial Equipment	Welders	4 Stroke	NOx	0.001275	0.001202	0.001067	0.001037
2265006030	Commercial Equipment	Pressure Washers	4 Stroke	NOx	0.001494	0.001471	0.001239	0.001452
2265006035	Commercial Equipment	Hydro Power Units	4 Stroke	NOx	0.000074	0.000070	0.000063	0.000076
2265007010	Logging Equipment	Shredders > 6 HP	4 Stroke	NOx	0.000279	0.000306	0.000328	0.000368
2265007015	Logging Equipment	Forest Eqp - Feller/Bunch/Skidder	4 Stroke	NOx	0.000003	0.000003	0.000002	0.000003
2265008005	Airport Equipment	Airport Ground Support Equipment	4 Stroke	NOx	0.000000	0.000000	0.000000	0.000000
2265010010	Industrial Equipment	Other Oil Field Equipment	4 Stroke	NOx	0.000208	0.000182	0.000168	0.000170
2267001060	Recreational Equipment	Specialty Vehicle Carts	LPG	NOx	0.000257	0.000253	0.000214	0.000139
2267002003	Construction and Mining Equipment	Pavers	LPG	NOx	0.000028	0.000027	0.000016	0.000004
2267002015	Construction and Mining Equipment	Rollers	LPG	NOx	0.000048	0.000044	0.000019	0.000005
2267002021	Construction and Mining Equipment	Paving Equipment	LPG	NOx	0.000008	0.000007	0.000006	0.000002
2267002024	Construction and Mining Equipment	Surfacing Equipment	LPG	NOx	0.000005	0.000005	0.000003	0.000001
2267002030	Construction and Mining Equipment	Trenchers	LPG	NOx	0.000087	0.000083	0.000050	0.000014
2267002033	Construction and Mining Equipment	Bore/Drill Rigs	LPG	NOx	0.000029	0.000029	0.000025	0.000017
2267002039	Construction and Mining Equipment	Concrete/Industrial Saws	LPG	NOx	0.000083	0.000073	0.000022	0.000008
2267002045	Construction and Mining Equipment	Cranes	LPG	NOx	0.000031	0.000030	0.000023	0.000009
2267002054	Construction and Mining Equipment	Crushing/Proc. Equipment	LPG	NOx	0.000005	0.000005	0.000004	0.000001
2267002057	Construction and Mining Equipment	Rough Terrain Forklifts	LPG	NOx	0.000055	0.000054	0.000036	0.000010
2267002060	Construction and Mining Equipment	Rubber Tire Loaders	LPG	NOx	0.000138	0.000131	0.000071	0.000016
2267002066	Construction and Mining Equipment	Tractors/Loaders/Backhoes	LPG	NOx	0.000015	0.000014	0.000006	0.000002
2267002072	Construction and Mining Equipment	Skid Steer Loaders	LPG	NOx	0.000114	0.000111	0.000081	0.000033
2267002081	Construction and Mining Equipment	Other Construction Equipment	LPG	NOx	0.000046	0.000045	0.000036	0.000017
2267003010	Industrial Equipment	Aerial Lifts	LPG	NOx	0.000421	0.000421	0.000333	0.000162
2267003020	Industrial Equipment	Forklifts	LPG	NOx	0.039694	0.038225	0.021518	0.005019
2267003030	Industrial Equipment	Sweepers/Scrubbers	LPG	NOx	0.000303	0.000280	0.000112	0.000036
2267003040	Industrial Equipment	Other General Industrial Equipm	LPG	NOx	0.000093	0.000087	0.000042	0.000011
2267003050	Industrial Equipment	Other Material Handling Equipment	LPG	NOx	0.000023	0.000023	0.000018	0.000007
2267003070	Industrial Equipment	Terminal Tractors	LPG	NOx	0.000185	0.000166	0.000047	0.000021
2267004066	Lawn and Garden Equipment (Com)	Chippers/Stump Grinders	LPG	NOx	0.000862	0.000808	0.000401	0.000095
2267005055	Agricultural Equipment	Other Agricultural Equipment	LPG	NOx	0.000013	0.000013	0.000011	0.000007
2267005060	Agricultural Equipment	Irrigation Sets	LPG	NOx	0.000011	0.000010	0.000004	0.000001
2267006005	Commercial Equipment	Generator Sets	LPG	NOx	0.002029	0.002134	0.001958	0.001413
2267006010	Commercial Equipment	Pumps	LPG	NOx	0.000473	0.000486	0.000378	0.000189
2267006015	Commercial Equipment	Air Compressors	LPG	NOx	0.000570	0.000576	0.000394	0.000121
2267006025	Commercial Equipment	Welders	LPG	NOx	0.000710	0.000728	0.000523	0.000156
2267006030	Commercial Equipment	Pressure Washers	LPG	NOx	0.000009	0.000010	0.000008	0.000004
2267006035	Commercial Equipment	Hydro Power Units	LPG	NOx	0.000009	0.000009	0.000005	0.000002
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	0.000002	0.000002	0.000001	0.000001
2268003020	Industrial Equipment	Forklifts	CNG	NOx	0.002890	0.002758	0.001542	0.000360
2268003030	Industrial Equipment	Sweepers/Scrubbers	CNG	NOx	0.000003	0.000003	0.000002	0.000000
2268003040	Industrial Equipment	Other General Industrial Equipment	CNG	NOx	0.000002	0.000002	0.000001	0.000000
2268003060	Industrial Equipment	AC\Refrigeration	CNG	NOx	0.000014	0.000013	0.000006	0.000002
2268003070	Industrial Equipment	Terminal Tractors	CNG	NOx	0.000013	0.000012	0.000003	0.000001
2268005055	Agricultural Equipment	Other Agricultural Equipment	CNG	NOx	0.000016	0.000013	0.000007	0.000002
2268005060	Agricultural Equipment	Irrigation Sets	CNG	NOx	0.001227	0.000707	0.000080	0.000000
2268006005	Commercial Equipment	Generator Sets	CNG	NOx	0.000665	0.000678	0.000605	0.000430
2268006010	Commercial Equipment	Pumps	CNG	NOx	0.000033	0.000033	0.000027	0.000014
2268006015	Commercial Equipment	Air Compressors	CNG	NOx	0.000048	0.000047	0.000031	0.000009
2268006020	Commercial Equipment	Gas Compressors	CNG	NOx	0.001762	0.000618	0.000181	0.000227
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	0.001078	0.000771	0.000112	0.000088
2270001060	Recreational Equipment	Specialty Vehicle Carts	Diesel	NOx	0.002658	0.002691	0.002665	0.002176
2270002003	Construction and Mining Equipment	Pavers	Diesel	NOx	0.002296	0.002191	0.001870	0.000856
2270002006	Construction and Mining Equipment	Tampers/Rammers	Diesel	NOx	0.000005	0.000005	0.000004	0.000004
2270002009	Construction and Mining Equipment	Plate Compactors	Diesel	NOx	0.000079	0.000077	0.000066	0.000059
2270002015	Construction and Mining Equipment	Rollers	Diesel	NOx	0.005696	0.005500	0.004829	0.002437
2270002018	Construction and Mining Equipment	Scrapers	Diesel	NOx	0.006595	0.006338	0.005272	0.002309
2270002021	Construction and Mining Equipment	Paving Equipment	Diesel	NOx	0.000363	0.000351	0.000304	0.000173
2270002024	Construction and Mining Equipment	Surfacing Equipment	Diesel	NOx	0.000245	0.000240	0.000220	0.000150

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2270002027	Construction and Mining Equipment	Signal Boards/Light Plants	Diesel	NOx	0.000688	0.000672	0.000611	0.000572
2270002030	Construction and Mining Equipment	Trenchers	Diesel	NOx	0.002650	0.002619	0.002437	0.001700
2270002033	Construction and Mining Equipment	Bore/Drill Rigs	Diesel	NOx	0.003146	0.003118	0.002880	0.002026
2270002036	Construction and Mining Equipment	Excavators	Diesel	NOx	0.022769	0.021448	0.017604	0.006035
2270002039	Construction and Mining Equipment	Concrete/Industrial Saws	Diesel	NOx	0.000178	0.000176	0.000167	0.000123
2270002042	Construction and Mining Equipment	Cement & Mortar Mixers	Diesel	NOx	0.000118	0.000118	0.000111	0.000086
2270002045	Construction and Mining Equipment	Cranes	Diesel	NOx	0.006201	0.005955	0.004995	0.002316
2270002048	Construction and Mining Equipment	Graders	Diesel	NOx	0.005785	0.005412	0.004431	0.001504
2270002051	Construction and Mining Equipment	Off-highway Trucks	Diesel	NOx	0.021475	0.020779	0.017390	0.008600
2270002054	Construction and Mining Equipment	Crushing/Proc. Equipment	Diesel	NOx	0.001089	0.001057	0.000915	0.000511
2270002057	Construction and Mining Equipment	Rough Terrain Forklifts	Diesel	NOx	0.007278	0.007186	0.006496	0.003377
2270002060	Construction and Mining Equipment	Rubber Tire Loaders	Diesel	NOx	0.027881	0.026926	0.023221	0.011733
2270002066	Construction and Mining Equipment	Tractors/Loaders/Backhoes	Diesel	NOx	0.016939	0.016762	0.015694	0.010384
2270002069	Construction and Mining Equipment	Crawler Tractor/Dozers	Diesel	NOx	0.024498	0.023435	0.019764	0.008682
2270002072	Construction and Mining Equipment	Skid Steer Loaders	Diesel	NOx	0.010861	0.010956	0.010722	0.008753
2270002075	Construction and Mining Equipment	Off-Highway Tractors	Diesel	NOx	0.002957	0.002894	0.002547	0.001499
2270002078	Construction and Mining Equipment	Dumpers/Tenders	Diesel	NOx	0.000035	0.000035	0.000035	0.000029
2270002081	Construction and Mining Equipment	Other Construction Equipment	Diesel	NOx	0.002871	0.002795	0.002455	0.001437
2270003010	Industrial Equipment	Aerial Lifts	Diesel	NOx	0.000438	0.000439	0.000424	0.000355
2270003020	Industrial Equipment	Forklifts	Diesel	NOx	0.004621	0.004579	0.003921	0.001466
2270003030	Industrial Equipment	Sweepers/Scrubbers	Diesel	NOx	0.002450	0.002344	0.002035	0.000854
2270003040	Industrial Equipment	Other General Industrial Eqp	Diesel	NOx	0.002790	0.002701	0.002311	0.001148
2270003050	Industrial Equipment	Other Material Handling Eqp	Diesel	NOx	0.000129	0.000127	0.000117	0.000083
2270003060	Industrial Equipment	AC/Refrigeration	Diesel	NOx	0.016097	0.015962	0.015212	0.012512
2270003070	Industrial Equipment	Terminal Tractors	Diesel	NOx	0.003162	0.003034	0.002454	0.000681
2270004031	Lawn and Garden Equipment (Com)	Leafblowers/Vacuums	Diesel	NOx	0.000001	0.000001	0.000001	0.000001
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	0.003927	0.004060	0.004217	0.004291
2270004056	Lawn and Garden Equipment (Com)	Lawn & Garden Tractors	Diesel	NOx	0.000867	0.000871	0.000843	0.000928
2270004066	Lawn and Garden Equipment (Com)	Chippers/Stump Grinders	Diesel	NOx	0.005868	0.006156	0.006409	0.005024
2270004071	Lawn and Garden Equipment (Com)	Commercial Turf Equipment	Diesel	NOx	0.000592	0.000594	0.000596	0.000405
2270004076	Lawn and Garden Equipment (Com)	Other Lawn & Garden Eqp.	Diesel	NOx	0.000015	0.000016	0.000017	0.000017
2270005010	Agricultural Equipment	2-Wheel Tractors	Diesel	NOx	0.000012	0.000011	0.000009	0.000009
2270005015	Agricultural Equipment	Agricultural Tractors	Diesel	NOx	0.509886	0.494271	0.443532	0.281911
2270005020	Agricultural Equipment	Combines	Diesel	NOx	0.051697	0.050788	0.046347	0.031538
2270005025	Agricultural Equipment	Balers	Diesel	NOx	0.000222	0.000224	0.000222	0.000182
2270005030	Agricultural Equipment	Agricultural Mowers	Diesel	NOx	0.000047	0.000047	0.000044	0.000030
2270005035	Agricultural Equipment	Sprayers	Diesel	NOx	0.003664	0.003681	0.003546	0.002566
2270005040	Agricultural Equipment	Tillers > 6 HP	Diesel	NOx	0.000006	0.000006	0.000006	0.000004
2270005045	Agricultural Equipment	Swathers	Diesel	NOx	0.003620	0.003588	0.003372	0.002465
2270005055	Agricultural Equipment	Other Agricultural Equipment	Diesel	NOx	0.010651	0.010412	0.009353	0.006107
2270005060	Agricultural Equipment	Irrigation Sets	Diesel	NOx	0.006680	0.006609	0.005971	0.003332
2270006005	Commercial Equipment	Generator Sets	Diesel	NOx	0.008836	0.009073	0.009201	0.007706
2270006010	Commercial Equipment	Pumps	Diesel	NOx	0.002104	0.002160	0.002180	0.001796
2270006015	Commercial Equipment	Air Compressors	Diesel	NOx	0.005310	0.005393	0.005168	0.003284
2270006020	Commercial Equipment	Gas Compressors	Diesel	NOx	0.000000	0.000000	0.000000	0.000000
2270006025	Commercial Equipment	Welders	Diesel	NOx	0.002571	0.002654	0.002745	0.002465
2270006030	Commercial Equipment	Pressure Washers	Diesel	NOx	0.000295	0.000303	0.000306	0.000258
2270006035	Commercial Equipment	Hydro Power Units	Diesel	NOx	0.000230	0.000232	0.000223	0.000152
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	0.019767	0.017475	0.011698	0.002450
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	0.000000	0.000000	0.000000	0.000000
2270010010	Industrial Equipment	Other Oil Field Equipment	Diesel	NOx	0.002916	0.002713	0.002106	0.000959
2275000000	Aircraft	All Aircraft Types and Operations	Other	NOx	0.000000	0.000000	0.000000	0.000000
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	0.011937	0.014402	0.021131	0.030112
2282005015	Pleasure Craft	Personal Water Craft	2 Stroke	NOx	0.003342	0.004417	0.006901	0.008911
2282010005	Pleasure Craft	Inboard/Sterndrive	4 Stroke	NOx	0.026506	0.027935	0.031920	0.038827
2282020005	Pleasure Craft	Inboard/Sterndrive	Diesel	NOx	0.035128	0.037104	0.039574	0.041754
2282020010	Pleasure Craft	Outboards	Diesel	NOx	0.000132	0.000135	0.000141	0.000149
2285002005	Railroad Equipment	Line Haul Locomotives	Diesel	NOx	0.329212	0.297904	0.248884	0.215732
2285002010	Railroad Equipment	Yard Locomotive	Diesel	NOx	0.000000	0.000000	0.000000	0.000000
2285002015	Railroad Equipment	Railway Maintenance	Diesel	NOx	0.000913	0.000918	0.000880	0.000633
2285004015	Railroad Equipment	Railway Maintenance	4 Stroke	NOx	0.000014	0.000013	0.000011	0.000011
2285006015	Railroad Equipment	Railway Maintenance	LPG	NOx	0.000002	0.000002	0.000002	0.000001
Susquehanna County Total Summer Day NOx Emissions					1.365722	1.312790	1.164494	0.852292

Appendix D2: Susquehanna County Daily Nonroad Emissions by SCC
Tons per Day

SCC	Classification	Equipment Type	Engine Type	Pollutant Code	2002 Emissions	2004 Emissions	2009 Emissions	2018 Emissions
2260001010	Recreational Equipment	Motorcycles: Off-Road	2 Stroke	VOC	0.209024	0.242721	0.278203	0.225229
2260001020	Recreational Equipment	Snowmobiles	2 Stroke	VOC	0.032397	0.035372	0.038767	0.029467
2260001030	Recreational Equipment	ATVs	2 Stroke	VOC	0.208757	0.288230	0.346393	0.141654
2260001060	Recreational Equipment	Specialty Vehicles/Carts	2 Stroke	VOC	0.005019	0.004748	0.004210	0.004345
2260002006	Construction and Mining Equipment	Tampers/Rammers	2 Stroke	VOC	0.002037	0.001951	0.000885	0.000878
2260002009	Construction and Mining Equipment	Plate Compactors	2 Stroke	VOC	0.000124	0.000075	0.000032	0.000033
2260002021	Construction and Mining Equipment	Paving Equipment	2 Stroke	VOC	0.000147	0.000087	0.000038	0.000039
2260002027	Construction and Mining Equipment	Signal Boards/Light Plants	2 Stroke	VOC	0.000001	0.000001	0.000000	0.000000
2260002039	Construction and Mining Equipment	Concrete/Industrial Saws	2 Stroke	VOC	0.005421	0.004463	0.002169	0.002222
2260002054	Construction and Mining Equipment	Crushing/Proc. Equipment	2 Stroke	VOC	0.000027	0.000015	0.000008	0.000008
2260003030	Industrial Equipment	Sweepers/Scrubbers	2 Stroke	VOC	0.000046	0.000021	0.000008	0.000003
2260003040	Industrial Equipment	Other General Industrial Eqp	2 Stroke	VOC	0.000004	0.000002	0.000001	0.000000
2260004015	Lawn and Garden Equipment (Res)	Rotary Tillers < 6 HP	2 Stroke	VOC	0.001143	0.001001	0.000486	0.000424
2260004016	Lawn and Garden Equipment (Com)	Rotary Tillers < 6 HP	2 Stroke	VOC	0.003431	0.002829	0.000955	0.000939
2260004020	Lawn and Garden Equipment (Res)	Chain Saws < 6 HP	2 Stroke	VOC	0.009298	0.007817	0.003227	0.003362
2260004021	Lawn and Garden Equipment (Com)	Chain Saws < 6 HP	2 Stroke	VOC	0.025874	0.022223	0.011200	0.013049
2260004025	Lawn and Garden Equipment (Res)	Trimmers/Edgers/Brush Cutter	2 Stroke	VOC	0.021897	0.018573	0.008078	0.008490
2260004026	Lawn and Garden Equipment (Com)	Trimmers/Edgers/Brush Cutter	2 Stroke	VOC	0.032569	0.023747	0.009128	0.010573
2260004030	Lawn and Garden Equipment (Res)	Leafblowers/Vacuums	2 Stroke	VOC	0.014992	0.012918	0.006438	0.006938
2260004031	Lawn and Garden Equipment (Com)	Leafblowers/Vacuums	2 Stroke	VOC	0.031241	0.025246	0.010643	0.012177
2260004035	Lawn and Garden Equipment (Res)	Snowblowers	2 Stroke	VOC	0.002334	0.002433	0.002677	0.003119
2260004036	Lawn and Garden Equipment (Com)	Snowblowers	2 Stroke	VOC	0.000296	0.000309	0.000340	0.000396
2260004071	Lawn and Garden Equipment (Com)	Commercial Turf Equipment	2 Stroke	VOC	0.000014	0.000010	0.000004	0.000004
2260005035	Agricultural Equipment	Sprayers	2 Stroke	VOC	0.001177	0.000858	0.000305	0.000341
2260006005	Commercial Equipment	Generator Sets	2 Stroke	VOC	0.000936	0.000622	0.000282	0.000349
2260006010	Commercial Equipment	Pumps	2 Stroke	VOC	0.006376	0.003713	0.001987	0.002398
2260006015	Commercial Equipment	Air Compressors	2 Stroke	VOC	0.000002	0.000001	0.000001	0.000001
2260006035	Commercial Equipment	Hydro Power Units	2 Stroke	VOC	0.000035	0.000019	0.000012	0.000014
2260007005	Logging Equipment	Chain Saws > 6 HP	2 Stroke	VOC	0.008632	0.008171	0.004372	0.005536
2265001010	Recreational Equipment	Motorcycles: Off-Road	4 Stroke	VOC	0.008675	0.009781	0.011729	0.011366
2265001030	Recreational Equipment	ATVs	4 Stroke	VOC	0.089398	0.105200	0.130360	0.127077
2265001050	Recreational Equipment	Golf Carts	4 Stroke	VOC	0.011348	0.010153	0.009711	0.010353
2265001060	Recreational Equipment	Specialty Vehicles/Carts	4 Stroke	VOC	0.005315	0.005169	0.004750	0.004119
2265002003	Construction and Mining Equipment	Pavers	4 Stroke	VOC	0.000111	0.000099	0.000075	0.000070
2265002006	Construction and Mining Equipment	Tampers/Rammers	4 Stroke	VOC	0.000001	0.000001	0.000001	0.000001
2265002009	Construction and Mining Equipment	Plate Compactors	4 Stroke	VOC	0.000434	0.000425	0.000267	0.000224
2265002015	Construction and Mining Equipment	Rollers	4 Stroke	VOC	0.000181	0.000157	0.000128	0.000123
2265002021	Construction and Mining Equipment	Paving Equipment	4 Stroke	VOC	0.000635	0.000590	0.000413	0.000391
2265002024	Construction and Mining Equipment	Surfacing Equipment	4 Stroke	VOC	0.000225	0.000208	0.000140	0.000142
2265002027	Construction and Mining Equipment	Signal Boards/Light Plants	4 Stroke	VOC	0.000016	0.000015	0.000009	0.000009
2265002030	Construction and Mining Equipment	Trenchers	4 Stroke	VOC	0.000444	0.000412	0.000263	0.000247
2265002033	Construction and Mining Equipment	Bore/Drill Rigs	4 Stroke	VOC	0.000269	0.000267	0.000177	0.000140
2265002039	Construction and Mining Equipment	Concrete/Industrial Saws	4 Stroke	VOC	0.000645	0.000560	0.000485	0.000489
2265002042	Construction and Mining Equipment	Cement & Mortar Mixers	4 Stroke	VOC	0.000710	0.000657	0.000535	0.000435
2265002045	Construction and Mining Equipment	Cranes	4 Stroke	VOC	0.000023	0.000022	0.000017	0.000008
2265002054	Construction and Mining Equipment	Crushing/Proc. Equipment	4 Stroke	VOC	0.000059	0.000054	0.000038	0.000037
2265002057	Construction and Mining Equipment	Rough Terrain Forklifts	4 Stroke	VOC	0.000034	0.000032	0.000021	0.000005
2265002060	Construction and Mining Equipment	Rubber Tire Loaders	4 Stroke	VOC	0.000081	0.000075	0.000039	0.000005
2265002066	Construction and Mining Equipment	Tractors/Loaders/Backhoes	4 Stroke	VOC	0.000220	0.000189	0.000165	0.000166
2265002072	Construction and Mining Equipment	Skid Steer Loaders	4 Stroke	VOC	0.000158	0.000144	0.000110	0.000080
2265002078	Construction and Mining Equipment	Dumpers/Tenders	4 Stroke	VOC	0.000102	0.000094	0.000078	0.000068
2265002081	Construction and Mining Equipment	Other Construction Equipment	4 Stroke	VOC	0.000030	0.000029	0.000022	0.000009
2265003010	Industrial Equipment	Aerial Lifts	4 Stroke	VOC	0.000357	0.000300	0.000182	0.000058
2265003020	Industrial Equipment	Forklifts	4 Stroke	VOC	0.000929	0.000785	0.000340	0.000018
2265003030	Industrial Equipment	Sweepers/Scrubbers	4 Stroke	VOC	0.000295	0.000239	0.000096	0.000024
2265003040	Industrial Equipment	Other General Industrial Eqp	4 Stroke	VOC	0.001029	0.000891	0.000323	0.000110
2265003050	Industrial Equipment	Other Material Handling Eqp	4 Stroke	VOC	0.000025	0.000021	0.000013	0.000004
2265003060	Industrial Equipment	AC\Refrigeration	4 Stroke	VOC	0.000033	0.000026	0.000016	0.000006
2265003070	Industrial Equipment	Terminal Tractors	4 Stroke	VOC	0.000097	0.000076	0.000013	0.000001
2265004010	Lawn and Garden Equipment (Res)	Lawn mowers	4 Stroke	VOC	0.046341	0.046382	0.044663	0.037090
2265004011	Lawn and Garden Equipment (Com)	Lawn mowers	4 Stroke	VOC	0.016909	0.017622	0.010164	0.009536
2265004015	Lawn and Garden Equipment (Res)	Rotary Tillers < 6 HP	4 Stroke	VOC	0.003841	0.003867	0.003691	0.002953
2265004016	Lawn and Garden Equipment (Com)	Rotary Tillers < 6 HP	4 Stroke	VOC	0.008071	0.008002	0.006790	0.004298
2265004025	Lawn and Garden Equipment (Res)	Trimmers/Edgers/Brush Cutter	4 Stroke	VOC	0.000244	0.000250	0.000232	0.000196
2265004026	Lawn and Garden Equipment (Com)	Trimmers/Edgers/Brush Cutter	4 Stroke	VOC	0.000280	0.000281	0.000184	0.000171
2265004030	Lawn and Garden Equipment (Res)	Leafblowers/Vacuums	4 Stroke	VOC	0.000515	0.000530	0.000495	0.000429
2265004031	Lawn and Garden Equipment (Com)	Leafblowers/Vacuums	4 Stroke	VOC	0.005640	0.005019	0.004204	0.004276
2265004035	Lawn and Garden Equipment (Res)	Snowblowers	4 Stroke	VOC	0.004746	0.004946	0.005443	0.006341
2265004036	Lawn and Garden Equipment (Com)	Snowblowers	4 Stroke	VOC	0.000664	0.000692	0.000762	0.000888
2265004040	Lawn and Garden Equipment (Res)	Rear Engine Riding Mowers	4 Stroke	VOC	0.005276	0.005260	0.005267	0.006034
2265004041	Lawn and Garden Equipment (Com)	Rear Engine Riding Mowers	4 Stroke	VOC	0.000663	0.000589	0.000545	0.000634
2265004046	Lawn and Garden Equipment (Com)	Front Mowers	4 Stroke	VOC	0.001114	0.001065	0.000957	0.000990
2265004051	Lawn and Garden Equipment (Com)	Shredders < 6 HP	4 Stroke	VOC	0.000995	0.000969	0.000851	0.000546
2265004055	Lawn and Garden Equipment (Res)	Lawn & Garden Tractors	4 Stroke	VOC	0.059213	0.058104	0.056074	0.063871
2265004056	Lawn and Garden Equipment (Com)	Lawn & Garden Tractors	4 Stroke	VOC	0.008912	0.007734	0.006965	0.008105
2265004066	Lawn and Garden Equipment (Com)	Chippers/Stump Grinders	4 Stroke	VOC	0.001358	0.001227	0.000932	0.000842

**Appendix D2: Susquehanna 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
2265004071	Lawn and Garden Equipment (Com)	Commercial Turf Equipment	4 Stroke	VOC	0.032892	0.031158	0.025491	0.026819
2265004075	Lawn and Garden Equipment (Res)	Other Lawn & Garden Eqp.	4 Stroke	VOC	0.002911	0.002843	0.002658	0.002253
2265004076	Lawn and Garden Equipment (Com)	Other Lawn & Garden Eqp.	4 Stroke	VOC	0.002329	0.002260	0.002075	0.001677
2265005010	Agricultural Equipment	2-Wheel Tractors	4 Stroke	VOC	0.000173	0.000150	0.000138	0.000156
2265005015	Agricultural Equipment	Agricultural Tractors	4 Stroke	VOC	0.000563	0.000520	0.000325	0.000152
2265005020	Agricultural Equipment	Combines	4 Stroke	VOC	0.000004	0.000004	0.000004	0.000003
2265005025	Agricultural Equipment	Balers	4 Stroke	VOC	0.000478	0.000482	0.000432	0.000295
2265005030	Agricultural Equipment	Agricultural Mowers	4 Stroke	VOC	0.000181	0.000163	0.000136	0.000143
2265005035	Agricultural Equipment	Sprayers	4 Stroke	VOC	0.002686	0.002615	0.002222	0.001809
2265005040	Agricultural Equipment	Tillers > 6 HP	4 Stroke	VOC	0.005140	0.005102	0.004909	0.004384
2265005045	Agricultural Equipment	Swathers	4 Stroke	VOC	0.000674	0.000678	0.000604	0.000411
2265005055	Agricultural Equipment	Other Agricultural Equipment	4 Stroke	VOC	0.001016	0.000991	0.000857	0.000685
2265005060	Agricultural Equipment	Irrigation Sets	4 Stroke	VOC	0.001030	0.000965	0.000427	0.000130
2265006005	Commercial Equipment	Generator Sets	4 Stroke	VOC	0.021140	0.020891	0.018939	0.021531
2265006010	Commercial Equipment	Pumps	4 Stroke	VOC	0.005707	0.005832	0.003688	0.004327
2265006015	Commercial Equipment	Air Compressors	4 Stroke	VOC	0.002281	0.002289	0.001590	0.001788
2265006025	Commercial Equipment	Welders	4 Stroke	VOC	0.003634	0.003408	0.003238	0.003725
2265006030	Commercial Equipment	Pressure Washers	4 Stroke	VOC	0.010297	0.010430	0.007960	0.008773
2265006035	Commercial Equipment	Hydro Power Units	4 Stroke	VOC	0.000356	0.000346	0.000284	0.000350
2265007010	Logging Equipment	Shredders > 6 HP	4 Stroke	VOC	0.001797	0.001745	0.001628	0.001775
2265007015	Logging Equipment	Forest Eqp - Feller/Bunch/Skidder	4 Stroke	VOC	0.000028	0.000029	0.000016	0.000020
2265008005	Airport Equipment	Airport Ground Support Equipment	4 Stroke	VOC	0.000000	0.000000	0.000000	0.000000
2265010010	Industrial Equipment	Other Oil Field Equipment	4 Stroke	VOC	0.000700	0.000596	0.000541	0.000548
2267001060	Recreational Equipment	Specialty Vehicle Carts	LPG	VOC	0.000070	0.000069	0.000059	0.000038
2267002003	Construction and Mining Equipment	Pavers	LPG	VOC	0.000008	0.000007	0.000004	0.000001
2267002015	Construction and Mining Equipment	Rollers	LPG	VOC	0.000013	0.000012	0.000005	0.000001
2267002021	Construction and Mining Equipment	Paving Equipment	LPG	VOC	0.000002	0.000002	0.000002	0.000001
2267002024	Construction and Mining Equipment	Surfacing Equipment	LPG	VOC	0.000001	0.000001	0.000001	0.000000
2267002030	Construction and Mining Equipment	Trenchers	LPG	VOC	0.000024	0.000023	0.000014	0.000003
2267002033	Construction and Mining Equipment	Bore/Drill Rigs	LPG	VOC	0.000008	0.000008	0.000007	0.000005
2267002039	Construction and Mining Equipment	Concrete/Industrial Saws	LPG	VOC	0.000023	0.000021	0.000006	0.000001
2267002045	Construction and Mining Equipment	Cranes	LPG	VOC	0.000008	0.000008	0.000006	0.000002
2267002054	Construction and Mining Equipment	Crushing/Proc. Equipment	LPG	VOC	0.000001	0.000001	0.000001	0.000000
2267002057	Construction and Mining Equipment	Rough Terrain Forklifts	LPG	VOC	0.000015	0.000015	0.000010	0.000002
2267002060	Construction and Mining Equipment	Rubber Tire Loaders	LPG	VOC	0.000038	0.000036	0.000020	0.000003
2267002066	Construction and Mining Equipment	Tractors/Loaders/Backhoes	LPG	VOC	0.000004	0.000004	0.000002	0.000000
2267002072	Construction and Mining Equipment	Skid Steer Loaders	LPG	VOC	0.000031	0.000030	0.000022	0.000008
2267002081	Construction and Mining Equipment	Other Construction Equipment	LPG	VOC	0.000012	0.000012	0.000010	0.000004
2267003010	Industrial Equipment	Aerial Lifts	LPG	VOC	0.000113	0.000114	0.000092	0.000043
2267003020	Industrial Equipment	Forklifts	LPG	VOC	0.010823	0.010517	0.006078	0.000863
2267003030	Industrial Equipment	Sweepers/Scrubbers	LPG	VOC	0.000083	0.000078	0.000031	0.000006
2267003040	Industrial Equipment	Other General Industrial Equipm	LPG	VOC	0.000025	0.000024	0.000012	0.000002
2267003050	Industrial Equipment	Other Material Handling Equipment	LPG	VOC	0.000006	0.000006	0.000005	0.000002
2267003070	Industrial Equipment	Terminal Tractors	LPG	VOC	0.000051	0.000047	0.000013	0.000003
2267004066	Lawn and Garden Equipment (Com)	Chippers/Stump Grinders	LPG	VOC	0.000236	0.000223	0.000113	0.000016
2267005055	Agricultural Equipment	Other Agricultural Equipment	LPG	VOC	0.000004	0.000003	0.000003	0.000002
2267005060	Agricultural Equipment	Irrigation Sets	LPG	VOC	0.000003	0.000003	0.000001	0.000000
2267006005	Commercial Equipment	Generator Sets	LPG	VOC	0.000412	0.000434	0.000403	0.000291
2267006010	Commercial Equipment	Pumps	LPG	VOC	0.000097	0.000100	0.000078	0.000037
2267006015	Commercial Equipment	Air Compressors	LPG	VOC	0.000118	0.000120	0.000082	0.000021
2267006025	Commercial Equipment	Welders	LPG	VOC	0.000191	0.000198	0.000146	0.000032
2267006030	Commercial Equipment	Pressure Washers	LPG	VOC	0.000002	0.000003	0.000002	0.000001
2267006035	Commercial Equipment	Hydro Power Units	LPG	VOC	0.000002	0.000002	0.000001	0.000000
2267008005	Airport Equipment	Airport Ground Support Equipment	LPG	VOC	0.000000	0.000000	0.000000	0.000000
2268002081	Construction and Mining Equipment	Other Construction Equipment	CNG	VOC	0.000000	0.000000	0.000000	0.000000
2268003020	Industrial Equipment	Forklifts	CNG	VOC	0.000047	0.000045	0.000026	0.000004
2268003030	Industrial Equipment	Sweepers/Scrubbers	CNG	VOC	0.000000	0.000000	0.000000	0.000000
2268003040	Industrial Equipment	Other General Industrial Equipment	CNG	VOC	0.000000	0.000000	0.000000	0.000000
2268003060	Industrial Equipment	AC\Refrigeration	CNG	VOC	0.000000	0.000000	0.000000	0.000000
2268003070	Industrial Equipment	Terminal Tractors	CNG	VOC	0.000000	0.000000	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	0.000021	0.000012	0.000001	0.000000
2268006005	Commercial Equipment	Generator Sets	CNG	VOC	0.000008	0.000008	0.000007	0.000005
2268006010	Commercial Equipment	Pumps	CNG	VOC	0.000000	0.000000	0.000000	0.000000
2268006015	Commercial Equipment	Air Compressors	CNG	VOC	0.000001	0.000001	0.000000	0.000000
2268006020	Commercial Equipment	Gas Compressors	CNG	VOC	0.000031	0.000012	0.000002	0.000002
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	0.000018	0.000013	0.000001	0.000001
2270001060	Recreational Equipment	Specialty Vehicle Carts	Diesel	VOC	0.000850	0.000825	0.000725	0.000471
2270002003	Construction and Mining Equipment	Pavers	Diesel	VOC	0.000221	0.000199	0.000155	0.000089
2270002006	Construction and Mining Equipment	Tampers/Rammers	Diesel	VOC	0.000001	0.000001	0.000001	0.000001
2270002009	Construction and Mining Equipment	Plate Compactors	Diesel	VOC	0.000014	0.000013	0.000010	0.000008
2270002015	Construction and Mining Equipment	Rollers	Diesel	VOC	0.000628	0.000559	0.000419	0.000241
2270002018	Construction and Mining Equipment	Scrapers	Diesel	VOC	0.000460	0.000411	0.000305	0.000233
2270002021	Construction and Mining Equipment	Paving Equipment	Diesel	VOC	0.000040	0.000037	0.000028	0.000017
2270002024	Construction and Mining Equipment	Surfacing Equipment	Diesel	VOC	0.000028	0.000025	0.000019	0.000012

**Appendix D2: Susquehanna 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
2270002027	Construction and Mining Equipment	Signal Boards/Light Plants	Diesel	VOC	0.000136	0.000122	0.000082	0.000056
2270002030	Construction and Mining Equipment	Trenchers	Diesel	VOC	0.000374	0.000336	0.000243	0.000133
2270002033	Construction and Mining Equipment	Bore/Drill Rigs	Diesel	VOC	0.000293	0.000282	0.000243	0.000166
2270002036	Construction and Mining Equipment	Excavators	Diesel	VOC	0.001817	0.001632	0.001329	0.000831
2270002039	Construction and Mining Equipment	Concrete/Industrial Saws	Diesel	VOC	0.000030	0.000026	0.000018	0.000010
2270002042	Construction and Mining Equipment	Cement & Mortar Mixers	Diesel	VOC	0.000014	0.000014	0.000013	0.000009
2270002045	Construction and Mining Equipment	Cranes	Diesel	VOC	0.000473	0.000435	0.000341	0.000221
2270002048	Construction and Mining Equipment	Graders	Diesel	VOC	0.000452	0.000406	0.000335	0.000211
2270002051	Construction and Mining Equipment	Off-highway Trucks	Diesel	VOC	0.001566	0.001353	0.000969	0.000848
2270002054	Construction and Mining Equipment	Crushing/Proc. Equipment	Diesel	VOC	0.000096	0.000088	0.000067	0.000041
2270002057	Construction and Mining Equipment	Rough Terrain Forklifts	Diesel	VOC	0.000902	0.000834	0.000628	0.000341
2270002060	Construction and Mining Equipment	Rubber Tire Loaders	Diesel	VOC	0.002259	0.002102	0.001660	0.001087
2270002066	Construction and Mining Equipment	Tractors/Loaders/Backhoes	Diesel	VOC	0.003899	0.003797	0.003321	0.001897
2270002069	Construction and Mining Equipment	Crawler Tractor/Dozers	Diesel	VOC	0.001963	0.001762	0.001354	0.000909
2270002072	Construction and Mining Equipment	Skid Steer Loaders	Diesel	VOC	0.003764	0.003618	0.003026	0.001753
2270002075	Construction and Mining Equipment	Off-Highway Tractors	Diesel	VOC	0.000266	0.000236	0.000168	0.000117
2270002078	Construction and Mining Equipment	Dumpers/Tenders	Diesel	VOC	0.000011	0.000011	0.000010	0.000006
2270002081	Construction and Mining Equipment	Other Construction Equipment	Diesel	VOC	0.000248	0.000229	0.000180	0.000115
2270003010	Industrial Equipment	Aerial Lifts	Diesel	VOC	0.000129	0.000128	0.000116	0.000077
2270003020	Industrial Equipment	Forklifts	Diesel	VOC	0.000456	0.000434	0.000332	0.000177
2270003030	Industrial Equipment	Sweepers/Scrubbers	Diesel	VOC	0.000236	0.000209	0.000165	0.000094
2270003040	Industrial Equipment	Other General Industrial Eqp	Diesel	VOC	0.000255	0.000240	0.000189	0.000115
2270003050	Industrial Equipment	Other Material Handling Eqp	Diesel	VOC	0.000024	0.000024	0.000021	0.000014
2270003060	Industrial Equipment	AC\Refrigeration	Diesel	VOC	0.002181	0.001854	0.001357	0.000730
2270003070	Industrial Equipment	Terminal Tractors	Diesel	VOC	0.000250	0.000238	0.000201	0.000120
2270004031	Lawn and Garden Equipment (Com)	Leafblowers/Vacuums	Diesel	VOC	0.000000	0.000000	0.000000	0.000000
2270004036	Lawn and Garden Equipment (Com)	Snowblowers	Diesel	VOC	0.000000	0.000000	0.000000	0.000000
2270004046	Lawn and Garden Equipment (Com)	Front Mowers	Diesel	VOC	0.000774	0.000735	0.000574	0.000390
2270004056	Lawn and Garden Equipment (Com)	Lawn & Garden Tractors	Diesel	VOC	0.000171	0.000160	0.000119	0.000099
2270004066	Lawn and Garden Equipment (Com)	Chippers/Stump Grinders	Diesel	VOC	0.000663	0.000664	0.000621	0.000466
2270004071	Lawn and Garden Equipment (Com)	Commercial Turf Equipment	Diesel	VOC	0.000080	0.000067	0.000050	0.000034
2270004076	Lawn and Garden Equipment (Com)	Other Lawn & Garden Eqp.	Diesel	VOC	0.000002	0.000002	0.000002	0.000002
2270005010	Agricultural Equipment	2-Wheel Tractors	Diesel	VOC	0.000002	0.000002	0.000001	0.000001
2270005015	Agricultural Equipment	Agricultural Tractors	Diesel	VOC	0.063323	0.056952	0.043459	0.025579
2270005020	Agricultural Equipment	Combines	Diesel	VOC	0.004612	0.004507	0.004033	0.002874
2270005025	Agricultural Equipment	Balers	Diesel	VOC	0.000047	0.000044	0.000036	0.000022
2270005030	Agricultural Equipment	Agricultural Mowers	Diesel	VOC	0.000008	0.000007	0.000006	0.000004
2270005035	Agricultural Equipment	Sprayers	Diesel	VOC	0.000673	0.000626	0.000489	0.000288
2270005040	Agricultural Equipment	Tillers > 6 HP	Diesel	VOC	0.000001	0.000001	0.000001	0.000000
2270005045	Agricultural Equipment	Swathers	Diesel	VOC	0.000415	0.000413	0.000385	0.000278
2270005055	Agricultural Equipment	Other Agricultural Equipment	Diesel	VOC	0.001412	0.001296	0.000984	0.000591
2270005060	Agricultural Equipment	Irrigation Sets	Diesel	VOC	0.000869	0.000789	0.000589	0.000323
2270006005	Commercial Equipment	Generator Sets	Diesel	VOC	0.001341	0.001311	0.001159	0.000784
2270006010	Commercial Equipment	Pumps	Diesel	VOC	0.000295	0.000290	0.000260	0.000185
2270006015	Commercial Equipment	Air Compressors	Diesel	VOC	0.000665	0.000630	0.000500	0.000287
2270006020	Commercial Equipment	Gas Compressors	Diesel	VOC	0.000000	0.000000	0.000000	0.000000
2270006025	Commercial Equipment	Welders	Diesel	VOC	0.001012	0.000987	0.000850	0.000471
2270006030	Commercial Equipment	Pressure Washers	Diesel	VOC	0.000042	0.000042	0.000038	0.000028
2270006035	Commercial Equipment	Hydro Power Units	Diesel	VOC	0.000031	0.000029	0.000022	0.000013
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	0.001437	0.001251	0.000891	0.000427
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	0.000000	0.000000	0.000000	0.000000
2270010010	Industrial Equipment	Other Oil Field Equipment	Diesel	VOC	0.000239	0.000204	0.000133	0.000077
2275000000	Aircraft	All Aircraft Types and Operations	Other	VOC	0.000000	0.000000	0.000000	0.000000
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	0.863858	0.813244	0.672601	0.512919
2282005015	Pleasure Craft	Personal Water Craft	2 Stroke	VOC	0.271993	0.243743	0.164794	0.115383
2282010005	Pleasure Craft	Inboard/Sterndrive	4 Stroke	VOC	0.083164	0.083534	0.083972	0.084919
2282020005	Pleasure Craft	Inboard/Sterndrive	Diesel	VOC	0.001314	0.001383	0.001435	0.001419
2282020010	Pleasure Craft	Outboards	Diesel	VOC	0.000033	0.000031	0.000026	0.000015
2285002005	Railroad Equipment	Line Haul Locomotives	Diesel	VOC	0.014229	0.014689	0.013969	0.014058
2285002010	Railroad Equipment	Yard Locomotive	Diesel	VOC	0.000000	0.000000	0.000000	0.000000
2285002015	Railroad Equipment	Railway Maintenance	Diesel	VOC	0.000177	0.000174	0.000157	0.000102
2285004015	Railroad Equipment	Railway Maintenance	4 Stroke	VOC	0.000061	0.000056	0.000044	0.000045
2285006015	Railroad Equipment	Railway Maintenance	LPG	VOC	0.000001	0.000001	0.000000	0.000000
Susquehanna County Total Summer Day VOC Emissions					2.355768	2.363446	2.135237	1.631363

Appendix D2: Susquehanna County Daily Nonroad Emissions by SCC
Tons per Day

SCC	Classification	Equipment Type	Engine Type	Pollutant Code	2002 Emissions	2004 Emissions	2009 Emissions	2018 Emissions
2260001010	Recreational Equipment	Motorcycles: Off-Road	2 Stroke	CO	0.195543	0.227055	0.286517	0.305634
2260001020	Recreational Equipment	Snowmobiles	2 Stroke	CO	0.000000	0.000000	0.000000	0.000000
2260001030	Recreational Equipment	ATVs	2 Stroke	CO	0.192798	0.266232	0.405823	0.465475
2260001060	Recreational Equipment	Specialty Vehicles/Carts	2 Stroke	CO	0.124478	0.127888	0.138898	0.148961
2260002006	Construction and Mining Equipment	Tampers/Rammers	2 Stroke	CO	0.005510	0.005453	0.004560	0.004647
2260002009	Construction and Mining Equipment	Plate Compactors	2 Stroke	CO	0.000266	0.000215	0.000170	0.000174
2260002021	Construction and Mining Equipment	Paving Equipment	2 Stroke	CO	0.000319	0.000256	0.000205	0.000210
2260002027	Construction and Mining Equipment	Signal Boards/Light Plants	2 Stroke	CO	0.000002	0.000002	0.000002	0.000002
2260002039	Construction and Mining Equipment	Concrete/Industrial Saws	2 Stroke	CO	0.014560	0.013724	0.011813	0.012104
2260002054	Construction and Mining Equipment	Crushing/Proc. Equipment	2 Stroke	CO	0.000062	0.000049	0.000042	0.000043
2260003030	Industrial Equipment	Sweepers/Scrubbers	2 Stroke	CO	0.000106	0.000074	0.000045	0.000016
2260003040	Industrial Equipment	Other General Industrial Eqp	2 Stroke	CO	0.000008	0.000006	0.000004	0.000001
2260004015	Lawn and Garden Equipment (Res)	Rotary Tillers < 6 HP	2 Stroke	CO	0.002290	0.002084	0.001558	0.001658
2260004016	Lawn and Garden Equipment (Com)	Rotary Tillers < 6 HP	2 Stroke	CO	0.007491	0.006814	0.005074	0.005721
2260004020	Lawn and Garden Equipment (Res)	Chain Saws < 6 HP	2 Stroke	CO	0.018695	0.017092	0.013014	0.014745
2260004021	Lawn and Garden Equipment (Com)	Chain Saws < 6 HP	2 Stroke	CO	0.068967	0.067328	0.062160	0.072424
2260004025	Lawn and Garden Equipment (Res)	Trimmers/Edgers/Brush Cutter	2 Stroke	CO	0.043087	0.038658	0.026887	0.030201
2260004026	Lawn and Garden Equipment (Com)	Trimmers/Edgers/Brush Cutter	2 Stroke	CO	0.074450	0.065610	0.054317	0.063237
2260004030	Lawn and Garden Equipment (Res)	Leafblowers/Vacuums	2 Stroke	CO	0.026890	0.024483	0.018225	0.020617
2260004031	Lawn and Garden Equipment (Com)	Leafblowers/Vacuums	2 Stroke	CO	0.075079	0.070489	0.060644	0.070467
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	0.000031	0.000027	0.000022	0.000025
2260005035	Agricultural Equipment	Sprayers	2 Stroke	CO	0.002459	0.002077	0.001440	0.001625
2260006005	Commercial Equipment	Generator Sets	2 Stroke	CO	0.000210	0.001733	0.001528	0.001895
2260006010	Commercial Equipment	Pumps	2 Stroke	CO	0.014152	0.011233	0.010038	0.012283
2260006015	Commercial Equipment	Air Compressors	2 Stroke	CO	0.000005	0.000004	0.000004	0.000005
2260006035	Commercial Equipment	Hydro Power Units	2 Stroke	CO	0.000081	0.000068	0.000067	0.000083
2260007005	Logging Equipment	Chain Saws > 6 HP	2 Stroke	CO	0.023668	0.024461	0.024117	0.030544
2265001010	Recreational Equipment	Motorcycles: Off-Road	4 Stroke	CO	0.087066	0.101223	0.121333	0.114732
2265001030	Recreational Equipment	ATVs	4 Stroke	CO	0.784867	0.949678	1.288410	1.505982
2265001050	Recreational Equipment	Golf Carts	4 Stroke	CO	0.608511	0.634189	0.667778	0.711938
2265001060	Recreational Equipment	Specialty Vehicles/Carts	4 Stroke	CO	0.109707	0.110167	0.112081	0.118568
2265002003	Construction and Mining Equipment	Pavers	4 Stroke	CO	0.004937	0.005073	0.005089	0.005039
2265002006	Construction and Mining Equipment	Tampers/Rammers	4 Stroke	CO	0.000039	0.000040	0.000042	0.000044
2265002009	Construction and Mining Equipment	Plate Compactors	4 Stroke	CO	0.009117	0.009248	0.009445	0.009651
2265002015	Construction and Mining Equipment	Rollers	4 Stroke	CO	0.009252	0.009485	0.009435	0.009447
2265002021	Construction and Mining Equipment	Paving Equipment	4 Stroke	CO	0.017850	0.018180	0.018870	0.019367
2265002024	Construction and Mining Equipment	Surfacing Equipment	4 Stroke	CO	0.008091	0.008326	0.008525	0.008708
2265002027	Construction and Mining Equipment	Signal Boards/Light Plants	4 Stroke	CO	0.000412	0.000422	0.000429	0.000440
2265002030	Construction and Mining Equipment	Trenchers	4 Stroke	CO	0.015131	0.015476	0.015414	0.015232
2265002033	Construction and Mining Equipment	Bore/Drill Rigs	4 Stroke	CO	0.004458	0.004477	0.004438	0.004403
2265002039	Construction and Mining Equipment	Concrete/Industrial Saws	4 Stroke	CO	0.037366	0.038388	0.038766	0.039483
2265002042	Construction and Mining Equipment	Cement & Mortar Mixers	4 Stroke	CO	0.015629	0.015566	0.016054	0.016649
2265002045	Construction and Mining Equipment	Cranes	4 Stroke	CO	0.000625	0.000619	0.000531	0.000340
2265002054	Construction and Mining Equipment	Crushing/Proc. Equipment	4 Stroke	CO	0.002194	0.002260	0.002306	0.002327
2265002057	Construction and Mining Equipment	Rough Terrain Forklifts	4 Stroke	CO	0.000816	0.000781	0.000539	0.000159
2265002060	Construction and Mining Equipment	Rubber Tire Loaders	4 Stroke	CO	0.001958	0.001836	0.001030	0.000186
2265002066	Construction and Mining Equipment	Tractors/Loaders/Backhoes	4 Stroke	CO	0.011767	0.012156	0.012479	0.012710
2265002072	Construction and Mining Equipment	Skid Steer Loaders	4 Stroke	CO	0.005206	0.005250	0.005044	0.004462
2265002078	Construction and Mining Equipment	Dumpers/Tenders	4 Stroke	CO	0.002434	0.002423	0.002497	0.002595
2265002081	Construction and Mining Equipment	Other Construction Equipment	4 Stroke	CO	0.000686	0.000667	0.000530	0.000247
2265003010	Industrial Equipment	Aerial Lifts	4 Stroke	CO	0.010235	0.009204	0.006415	0.002158
2265003020	Industrial Equipment	Forklifts	4 Stroke	CO	0.023137	0.019788	0.009193	0.000634
2265003030	Industrial Equipment	Sweepers/Scrubbers	4 Stroke	CO	0.009946	0.008828	0.005233	0.001609
2265003040	Industrial Equipment	Other General Industrial Eqp	4 Stroke	CO	0.025373	0.022994	0.015969	0.005561
2265003050	Industrial Equipment	Other Material Handling Eqp	4 Stroke	CO	0.000782	0.000710	0.000496	0.000156
2265003060	Industrial Equipment	AC\Refrigeration	4 Stroke	CO	0.001367	0.001269	0.000929	0.000333
2265003070	Industrial Equipment	Terminal Tractors	4 Stroke	CO	0.002403	0.001943	0.000428	0.000042
2265004010	Lawn and Garden Equipment (Res)	Lawn mowers	4 Stroke	CO	0.450839	0.467097	0.508519	0.581299
2265004011	Lawn and Garden Equipment (Com)	Lawn mowers	4 Stroke	CO	0.266604	0.277862	0.298724	0.346334
2265004015	Lawn and Garden Equipment (Res)	Rotary Tillers < 6 HP	4 Stroke	CO	0.037976	0.039299	0.042713	0.048738
2265004016	Lawn and Garden Equipment (Com)	Rotary Tillers < 6 HP	4 Stroke	CO	0.129884	0.135190	0.147286	0.168923
2265004025	Lawn and Garden Equipment (Res)	Trimmers/Edgers/Brush Cutter	4 Stroke	CO	0.002532	0.002631	0.002861	0.003277
2265004026	Lawn and Garden Equipment (Com)	Trimmers/Edgers/Brush Cutter	4 Stroke	CO	0.006621	0.007018	0.007733	0.008978
2265004030	Lawn and Garden Equipment (Res)	Leafblowers/Vacuums	4 Stroke	CO	0.004840	0.005029	0.005464	0.006254
2265004031	Lawn and Garden Equipment (Com)	Leafblowers/Vacuums	4 Stroke	CO	0.264986	0.283730	0.311280	0.348904
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	0.106027	0.111349	0.127210	0.149383
2265004041	Lawn and Garden Equipment (Com)	Rear Engine Riding Mowers	4 Stroke	CO	0.034309	0.036808	0.041568	0.048454
2265004046	Lawn and Garden Equipment (Com)	Front Mowers	4 Stroke	CO	0.037051	0.038320	0.043106	0.051229
2265004051	Lawn and Garden Equipment (Com)	Shredders < 6 HP	4 Stroke	CO	0.014883	0.015480	0.016882	0.019339
2265004055	Lawn and Garden Equipment (Res)	Lawn & Garden Tractors	4 Stroke	CO	1.409739	1.481751	1.704790	2.004869
2265004056	Lawn and Garden Equipment (Com)	Lawn & Garden Tractors	4 Stroke	CO	0.461466	0.497894	0.565111	0.658749
2265004066	Lawn and Garden Equipment (Com)	Chippers/Stump Grinders	4 Stroke	CO	0.061285	0.064239	0.064765	0.069062

Appendix D2: Susquehanna 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
2265004071	Lawn and Garden Equipment (Com)	Commercial Turf Equipment	4 Stroke	CO	1.427399	1.504662	1.634872	1.896135
2265004075	Lawn and Garden Equipment (Res)	Other Lawn & Garden Eqp.	4 Stroke	CO	0.046016	0.047617	0.052141	0.061127
2265004076	Lawn and Garden Equipment (Com)	Other Lawn & Garden Eqp.	4 Stroke	CO	0.040355	0.041758	0.045712	0.053561
2265005010	Agricultural Equipment	2-Wheel Tractors	4 Stroke	CO	0.008808	0.009424	0.010448	0.011832
2265005015	Agricultural Equipment	Agricultural Tractors	4 Stroke	CO	0.017817	0.017898	0.014551	0.010751
2265005020	Agricultural Equipment	Combines	4 Stroke	CO	0.000086	0.000086	0.000077	0.000055
2265005025	Agricultural Equipment	Balers	4 Stroke	CO	0.008099	0.008139	0.007318	0.005165
2265005030	Agricultural Equipment	Agricultural Mowers	4 Stroke	CO	0.006850	0.007123	0.007978	0.009135
2265005035	Agricultural Equipment	Sprayers	4 Stroke	CO	0.058630	0.060010	0.063666	0.069829
2265005040	Agricultural Equipment	Tillers > 6 HP	4 Stroke	CO	0.145791	0.149526	0.159425	0.178924
2265005045	Agricultural Equipment	Swathers	4 Stroke	CO	0.012828	0.012892	0.011592	0.008180
2265005055	Agricultural Equipment	Other Agricultural Equipment	4 Stroke	CO	0.026614	0.027116	0.027161	0.025682
2265005060	Agricultural Equipment	Irrigation Sets	4 Stroke	CO	0.024966	0.023879	0.013090	0.005229
2265006005	Commercial Equipment	Generator Sets	4 Stroke	CO	0.584257	0.625513	0.743282	0.931940
2265006010	Commercial Equipment	Pumps	4 Stroke	CO	0.135007	0.145943	0.167250	0.204812
2265006015	Commercial Equipment	Air Compressors	4 Stroke	CO	0.067065	0.072379	0.081608	0.097525
2265006025	Commercial Equipment	Welders	4 Stroke	CO	0.168485	0.183728	0.212201	0.256504
2265006030	Commercial Equipment	Pressure Washers	4 Stroke	CO	0.255884	0.276663	0.325799	0.404168
2265006035	Commercial Equipment	Hydro Power Units	4 Stroke	CO	0.012949	0.014154	0.016580	0.020525
2265007010	Logging Equipment	Shredders > 6 HP	4 Stroke	CO	0.052658	0.056061	0.066616	0.086860
2265007015	Logging Equipment	Forest Eqp - Feller/Bunch/Skidder	4 Stroke	CO	0.000628	0.000682	0.000794	0.001006
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	0.046031	0.047106	0.047676	0.048235
2267001060	Recreational Equipment	Specialty Vehicle Carts	LPG	CO	0.001028	0.001039	0.000956	0.000680
2267002003	Construction and Mining Equipment	Pavers	LPG	CO	0.000115	0.000118	0.000091	0.000025
2267002015	Construction and Mining Equipment	Rollers	LPG	CO	0.000195	0.000199	0.000126	0.000029
2267002021	Construction and Mining Equipment	Paving Equipment	LPG	CO	0.000030	0.000031	0.000028	0.000014
2267002024	Construction and Mining Equipment	Surfacing Equipment	LPG	CO	0.000020	0.000020	0.000015	0.000004
2267002030	Construction and Mining Equipment	Trenchers	LPG	CO	0.000351	0.000361	0.000283	0.000079
2267002033	Construction and Mining Equipment	Bore/Drill Rigs	LPG	CO	0.000113	0.000117	0.000112	0.000082
2267002039	Construction and Mining Equipment	Concrete/Industrial Saws	LPG	CO	0.000342	0.000348	0.000175	0.000044
2267002045	Construction and Mining Equipment	Cranes	LPG	CO	0.000122	0.000126	0.000113	0.000057
2267002054	Construction and Mining Equipment	Crushing/Proc. Equipment	LPG	CO	0.000020	0.000021	0.000019	0.000009
2267002057	Construction and Mining Equipment	Rough Terrain Forklifts	LPG	CO	0.000222	0.000229	0.000190	0.000057
2267002060	Construction and Mining Equipment	Rubber Tire Loaders	LPG	CO	0.000558	0.000573	0.000429	0.000092
2267002066	Construction and Mining Equipment	Tractors/Loaders/Backhoes	LPG	CO	0.000060	0.000061	0.000041	0.000008
2267002072	Construction and Mining Equipment	Skid Steer Loaders	LPG	CO	0.000456	0.000470	0.000406	0.000189
2267002081	Construction and Mining Equipment	Other Construction Equipment	LPG	CO	0.000182	0.000188	0.000172	0.000096
2267003010	Industrial Equipment	Aerial Lifts	LPG	CO	0.001672	0.001758	0.001620	0.000899
2267003020	Industrial Equipment	Forklifts	LPG	CO	0.160161	0.167404	0.129453	0.092209
2267003030	Industrial Equipment	Sweepers/Scrubbers	LPG	CO	0.001237	0.001285	0.000801	0.000197
2267003040	Industrial Equipment	Other General Industrial Equipm	LPG	CO	0.000375	0.000391	0.000274	0.000062
2267003050	Industrial Equipment	Other Material Handling Equipment	LPG	CO	0.000090	0.000095	0.000087	0.000042
2267003070	Industrial Equipment	Terminal Tractors	LPG	CO	0.000758	0.000784	0.000420	0.000108
2267004066	Lawn and Garden Equipment (Com)	Chippers/Stump Grinders	LPG	CO	0.003493	0.003584	0.002538	0.000542
2267005055	Agricultural Equipment	Other Agricultural Equipment	LPG	CO	0.000052	0.000052	0.000047	0.000032
2267005060	Agricultural Equipment	Irrigation Sets	LPG	CO	0.000045	0.000044	0.000028	0.000005
2267006005	Commercial Equipment	Generator Sets	LPG	CO	0.005409	0.006013	0.006418	0.005405
2267006010	Commercial Equipment	Pumps	LPG	CO	0.001281	0.001419	0.001395	0.000832
2267006015	Commercial Equipment	Air Compressors	LPG	CO	0.001562	0.001727	0.001601	0.000632
2267006025	Commercial Equipment	Welders	LPG	CO	0.002819	0.003117	0.002862	0.000920
2267006030	Commercial Equipment	Pressure Washers	LPG	CO	0.000037	0.000041	0.000041	0.000025
2267006035	Commercial Equipment	Hydro Power Units	LPG	CO	0.000024	0.000027	0.000023	0.000009
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	0.000007	0.000007	0.000007	0.000004
2268003020	Industrial Equipment	Forklifts	CNG	CO	0.011680	0.012073	0.009214	0.002019
2268003030	Industrial Equipment	Sweepers/Scrubbers	CNG	CO	0.000014	0.000014	0.000011	0.000002
2268003040	Industrial Equipment	Other General Industrial Equipment	CNG	CO	0.000009	0.000009	0.000007	0.000001
2268003060	Industrial Equipment	AC\Refrigeration	CNG	CO	0.000058	0.000060	0.000041	0.000010
2268003070	Industrial Equipment	Terminal Tractors	CNG	CO	0.000053	0.000055	0.000029	0.000007
2268005055	Agricultural Equipment	Other Agricultural Equipment	CNG	CO	0.000069	0.000056	0.000032	0.000009
2268005060	Agricultural Equipment	Irrigation Sets	CNG	CO	0.005270	0.003102	0.000358	0.000000
2268006005	Commercial Equipment	Generator Sets	CNG	CO	0.001796	0.001910	0.001926	0.001560
2268006010	Commercial Equipment	Pumps	CNG	CO	0.000091	0.000096	0.000092	0.000059
2268006015	Commercial Equipment	Air Compressors	CNG	CO	0.000132	0.000139	0.000123	0.000044
2268006020	Commercial Equipment	Gas Compressors	CNG	CO	0.007883	0.007419	0.000944	0.001180
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	0.004580	0.004350	0.000842	0.000445
2270001060	Recreational Equipment	Specialty Vehicle Carts	Diesel	CO	0.003162	0.003083	0.002768	0.001830
2270002003	Construction and Mining Equipment	Pavers	Diesel	CO	0.001165	0.001023	0.000862	0.000373
2270002006	Construction and Mining Equipment	Tampers/Rammers	Diesel	CO	0.000003	0.000003	0.000003	0.000004
2270002009	Construction and Mining Equipment	Plate Compactors	Diesel	CO	0.000047	0.000047	0.000046	0.000049
2270002015	Construction and Mining Equipment	Rollers	Diesel	CO	0.003353	0.003031	0.002553	0.001234
2270002018	Construction and Mining Equipment	Scrapers	Diesel	CO	0.003030	0.002763	0.002319	0.001081
2270002021	Construction and Mining Equipment	Paving Equipment	Diesel	CO	0.000218	0.000200	0.000160	0.000089
2270002024	Construction and Mining Equipment	Surfacing Equipment	Diesel	CO	0.000164	0.000153	0.000127	0.000072

**Appendix D2: Susquehanna 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
2270002027	Construction and Mining Equipment	Signal Boards/Light Plants	Diesel	CO	0.000428	0.000404	0.000324	0.000266
2270002030	Construction and Mining Equipment	Trenchers	Diesel	CO	0.002013	0.001885	0.001586	0.000842
2270002033	Construction and Mining Equipment	Bore/Drill Rigs	Diesel	CO	0.001209	0.001159	0.001012	0.000619
2270002036	Construction and Mining Equipment	Excavators	Diesel	CO	0.009301	0.007882	0.007138	0.002214
2270002039	Construction and Mining Equipment	Concrete/Industrial Saws	Diesel	CO	0.000156	0.000144	0.000120	0.000064
2270002042	Construction and Mining Equipment	Cement & Mortar Mixers	Diesel	CO	0.000053	0.000053	0.000052	0.000042
2270002045	Construction and Mining Equipment	Cranes	Diesel	CO	0.001698	0.001560	0.001279	0.000618
2270002048	Construction and Mining Equipment	Graders	Diesel	CO	0.002191	0.001795	0.001587	0.000555
2270002051	Construction and Mining Equipment	Off-highway Trucks	Diesel	CO	0.009504	0.007961	0.005875	0.001242
2270002054	Construction and Mining Equipment	Crushing/Proc. Equipment	Diesel	CO	0.000398	0.000366	0.000308	0.000164
2270002057	Construction and Mining Equipment	Rough Terrain Forklifts	Diesel	CO	0.005007	0.004705	0.004092	0.002217
2270002060	Construction and Mining Equipment	Rubber Tire Loaders	Diesel	CO	0.012878	0.011805	0.009696	0.004550
2270002066	Construction and Mining Equipment	Tractors/Loaders/Backhoes	Diesel	CO	0.015731	0.015572	0.014939	0.009697
2270002069	Construction and Mining Equipment	Crawler Tractor/Dozers	Diesel	CO	0.011021	0.009786	0.008277	0.003430
2270002072	Construction and Mining Equipment	Skid Steer Loaders	Diesel	CO	0.013757	0.013672	0.012848	0.003779
2270002075	Construction and Mining Equipment	Off-Highway Tractors	Diesel	CO	0.001670	0.001497	0.001148	0.000510
2270002078	Construction and Mining Equipment	Dumpers/Tenders	Diesel	CO	0.000039	0.000040	0.000039	0.000028
2270002081	Construction and Mining Equipment	Other Construction Equipment	Diesel	CO	0.001600	0.001477	0.001195	0.000632
2270003010	Industrial Equipment	Aerial Lifts	Diesel	CO	0.000444	0.000454	0.000457	0.000346
2270003020	Industrial Equipment	Forklifts	Diesel	CO	0.002696	0.002687	0.002866	0.000497
2270003030	Industrial Equipment	Sweepers/Scrubbers	Diesel	CO	0.000830	0.000735	0.000680	0.000292
2270003040	Industrial Equipment	Other General Industrial Eqp	Diesel	CO	0.000900	0.000846	0.000719	0.000405
2270003050	Industrial Equipment	Other Material Handling Eqp	Diesel	CO	0.000082	0.000082	0.000079	0.000054
2270003060	Industrial Equipment	AC\Refrigeration	Diesel	CO	0.008324	0.007732	0.007688	0.003988
2270003070	Industrial Equipment	Terminal Tractors	Diesel	CO	0.001140	0.001037	0.001076	0.000241
2270004031	Lawn and Garden Equipment (Com)	Leafblowers/Vacuums	Diesel	CO	0.000000	0.000000	0.000000	0.000000
2270004036	Lawn and Garden Equipment (Com)	Snowblowers	Diesel	CO	0.000000	0.000000	0.000000	0.000000
2270004046	Lawn and Garden Equipment (Com)	Front Mowers	Diesel	CO	0.002467	0.002447	0.002243	0.001816
2270004056	Lawn and Garden Equipment (Com)	Lawn & Garden Tractors	Diesel	CO	0.000539	0.000529	0.000468	0.000479
2270004066	Lawn and Garden Equipment (Com)	Chippers/Stump Grinders	Diesel	CO	0.002630	0.002650	0.002625	0.001892
2270004071	Lawn and Garden Equipment (Com)	Commercial Turf Equipment	Diesel	CO	0.000277	0.000248	0.000230	0.000127
2270004076	Lawn and Garden Equipment (Com)	Other Lawn & Garden Eqp.	Diesel	CO	0.000009	0.000009	0.000009	0.000008
2270005010	Agricultural Equipment	2-Wheel Tractors	Diesel	CO	0.000012	0.000012	0.000011	0.000009
2270005015	Agricultural Equipment	Agricultural Tractors	Diesel	CO	0.309012	0.285322	0.234323	0.127734
2270005020	Agricultural Equipment	Combines	Diesel	CO	0.019247	0.018956	0.018032	0.011824
2270005025	Agricultural Equipment	Balers	Diesel	CO	0.000161	0.000160	0.000156	0.000114
2270005030	Agricultural Equipment	Agricultural Mowers	Diesel	CO	0.000037	0.000037	0.000036	0.000026
2270005035	Agricultural Equipment	Sprayers	Diesel	CO	0.002168	0.002088	0.001864	0.001167
2270005040	Agricultural Equipment	Tillers > 6 HP	Diesel	CO	0.000004	0.000004	0.000003	0.000002
2270005045	Agricultural Equipment	Swathers	Diesel	CO	0.001852	0.001916	0.002060	0.001650
2270005055	Agricultural Equipment	Other Agricultural Equipment	Diesel	CO	0.006138	0.005783	0.004845	0.002737
2270005060	Agricultural Equipment	Irrigation Sets	Diesel	CO	0.002750	0.002623	0.002315	0.001353
2270006005	Commercial Equipment	Generator Sets	Diesel	CO	0.004733	0.004703	0.004497	0.003296
2270006010	Commercial Equipment	Pumps	Diesel	CO	0.001101	0.001098	0.001066	0.000816
2270006015	Commercial Equipment	Air Compressors	Diesel	CO	0.002511	0.002450	0.002319	0.001442
2270006020	Commercial Equipment	Gas Compressors	Diesel	CO	0.000000	0.000000	0.000000	0.000000
2270006025	Commercial Equipment	Welders	Diesel	CO	0.003726	0.003728	0.003492	0.002247
2270006030	Commercial Equipment	Pressure Washers	Diesel	CO	0.000143	0.000141	0.000134	0.000102
2270006035	Commercial Equipment	Hydro Power Units	Diesel	CO	0.000113	0.000109	0.000102	0.000066
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	0.006801	0.005556	0.004572	0.000872
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	0.000000	0.000000	0.000000	0.000000
2270010010	Industrial Equipment	Other Oil Field Equipment	Diesel	CO	0.000987	0.000841	0.000580	0.000218
2275000000	Aircraft	All Aircraft Types and Operations	Other	CO	0.000000	0.000000	0.000000	0.000000
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	1.468375	1.410326	1.241915	1.076671
2282005015	Pleasure Craft	Personal Water Craft	2 Stroke	CO	0.531381	0.516488	0.484352	0.480764
2282010005	Pleasure Craft	Inboard/Sterndrive	4 Stroke	CO	0.751711	0.734515	0.677250	0.574960
2282020005	Pleasure Craft	Inboard/Sterndrive	Diesel	CO	0.005556	0.005862	0.006623	0.007980
2282020010	Pleasure Craft	Outboards	Diesel	CO	0.000095	0.000093	0.000084	0.000063
2285002005	Railroad Equipment	Line Haul Locomotives	Diesel	CO	0.036256	0.037425	0.040516	0.046739
2285002010	Railroad Equipment	Yard Locomotive	Diesel	CO	0.000000	0.000000	0.000000	0.000000
2285002015	Railroad Equipment	Railway Maintenance	Diesel	CO	0.000754	0.000735	0.000669	0.000422
2285004015	Railroad Equipment	Railway Maintenance	4 Stroke	CO	0.002166	0.002269	0.002457	0.002676
2285006015	Railroad Equipment	Railway Maintenance	LPG	CO	0.000009	0.000009	0.000008	0.000003
Susquehanna County Total Summer Day CO Emissions					12.633038	13.155542	14.102918	15.219997

**Appendix D2: Susquehanna County Annual Nonroad Emissions by Category
Tons per Year**

Equipment Type	Fuel	Pollutant	Tons/Year			
			2002	2004	2009	2018
Recreational	Diesel	VOC	0.246972	0.239834	0.210692	0.136972
Recreational	Gasoline	VOC	322.982662	374.810230	415.202569	284.439329
Recreational	CNG	VOC	0.246972	0.239834	0.210692	0.136972
Recreational	LPG	VOC	0.020238	0.019936	0.017088	0.011153
Construction	Diesel	VOC	5.421684	5.034216	4.054261	2.540885
Construction	Gasoline	VOC	3.265677	2.849493	1.610571	1.529825
Construction	CNG	VOC	0.000008	0.000008	0.000006	0.000003
Construction	LPG	VOC	0.051154	0.049107	0.030134	0.008662
Industrial	Diesel	VOC	1.313251	1.156542	0.871063	0.484851
Industrial	Gasoline	VOC	1.119345	0.939260	0.476441	0.235736
Industrial	CNG	VOC	0.020393	0.018394	0.008682	0.001444
Industrial	LPG	VOC	3.540058	3.439294	1.986946	0.292591
Lawn and Garden	Diesel	VOC	0.358723	0.345555	0.290458	0.210888
Lawn and Garden	Gasoline	VOC	93.401728	85.588089	63.116853	64.403565
Lawn and Garden	CNG	VOC	0.000000	0.000000	0.000000	0.000000
Lawn and Garden	LPG	VOC	0.049022	0.046396	0.023553	0.003242
Farm	Diesel	VOC	14.242419	12.900427	9.975796	5.979739
Farm	Gasoline	VOC	2.590675	2.466487	2.018208	1.637034
Farm	CNG	VOC	0.004180	0.002460	0.000301	0.000007
Farm	LPG	VOC	0.001305	0.001234	0.000821	0.000395
Light Commercial	Diesel	VOC	1.079568	1.048358	0.901893	0.563844
Light Commercial	Gasoline	VOC	15.300967	14.176364	10.754539	12.073601
Light Commercial	CNG	VOC	0.012647	0.006692	0.003171	0.002497
Light Commercial	LPG	VOC	0.262448	0.272990	0.227152	0.121733
Logging	Diesel	VOC	0.458327	0.398939	0.283951	0.136134
Logging	Gasoline	VOC	3.271068	3.101218	1.830258	2.222464
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	0.052306	0.051451	0.046275	0.030140
Railway Maintenance	Gasoline	VOC	0.017541	0.015913	0.011868	0.012311
Railway Maintenance	CNG	VOC	0.000000	0.000000	0.000000	0.000000
Railway Maintenance	LPG	VOC	0.000180	0.000178	0.000133	0.000037
Recreational Marine Vessels	Diesel	VOC	0.522843	0.548865	0.567106	0.556822
Recreational Marine Vessels	Gasoline	VOC	413.601369	382.192546	294.815176	209.795265
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
Susquehanna County VOC Totals			883.455732	891.960310	809.546655	587.568143

**Appendix D2: Susquehanna County Annual Nonroad Emissions by Category
Tons per Year**

Equipment Type	Fuel	Pollutant	Tons/Year			
			2002	2004	2009	2018
Recreational	Diesel	NOx	0.772453	0.782130	0.774660	0.632448
Recreational	Gasoline	NOx	5.221265	5.787587	7.663786	12.001556
Recreational	CNG	NOx	0.772453	0.782130	0.774660	0.632448
Recreational	LPG	NOx	0.074699	0.073426	0.062189	0.040378
Construction	Diesel	NOx	46.917897	45.382830	39.404963	20.471734
Construction	Gasoline	NOx	0.410128	0.377401	0.274903	0.218386
Construction	CNG	NOx	0.000490	0.000485	0.000387	0.000180
Construction	LPG	NOx	0.187600	0.178738	0.108006	0.037526
Industrial	Diesel	NOx	11.192514	10.965179	9.878926	6.404134
Industrial	Gasoline	NOx	0.776267	0.652092	0.320698	0.101091
Industrial	CNG	NOx	1.254829	1.120189	0.529134	0.142468
Industrial	LPG	NOx	12.983356	12.500022	7.037223	1.675717
Lawn and Garden	Diesel	NOx	2.416357	2.508607	2.590165	2.277104
Lawn and Garden	Gasoline	NOx	9.507240	9.201087	7.847663	8.138546
Lawn and Garden	CNG	NOx	0.000000	0.000000	0.000000	0.000000
Lawn and Garden	LPG	NOx	0.179233	0.168048	0.083379	0.019686
Farm	Diesel	NOx	117.053989	113.691026	102.267747	65.492583
Farm	Gasoline	NOx	1.133923	1.115321	0.878530	0.647816
Farm	CNG	NOx	0.248103	0.143667	0.017306	0.000402
Farm	LPG	NOx	0.004778	0.004493	0.002949	0.001497
Light Commercial	Diesel	NOx	6.168291	6.318084	6.321010	4.993703
Light Commercial	Gasoline	NOx	3.068346	3.036830	2.670351	2.903810
Light Commercial	CNG	NOx	0.799759	0.438855	0.269276	0.216660
Light Commercial	LPG	NOx	1.211802	1.256959	1.041258	0.600984
Logging	Diesel	NOx	6.302895	5.572072	3.729864	0.781241
Logging	Gasoline	NOx	0.140383	0.149588	0.147030	0.168066
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	0.269644	0.270917	0.259847	0.186786
Railway Maintenance	Gasoline	NOx	0.005102	0.004615	0.003781	0.003778
Railway Maintenance	CNG	NOx	0.000000	0.000000	0.000000	0.000000
Railway Maintenance	LPG	NOx	0.000666	0.000653	0.000477	0.000150
Recreational Marine Vessels	Diesel	NOx	13.684002	14.451921	15.412517	16.261811
Recreational Marine Vessels	Gasoline	NOx	18.335309	20.377582	25.818188	33.316667
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
Susquehanna County NOx Totals			261.093776	257.312531	236.190872	178.369358

**Appendix D2: Susquehanna County Annual Nonroad Emissions by Category
Tons per Year**

Equipment Type	Fuel	Pollutant	Tons/Year			
			2002	2004	2009	2018
Recreational	Diesel	CO	0.919056	0.895929	0.804411	0.531734
Recreational	Gasoline	CO	1022.524777	1150.211474	1349.840475	1361.761233
Recreational	CNG	CO	0.919056	0.895929	0.804411	0.531734
Recreational	LPG	CO	0.298857	0.301828	0.277881	0.197508
Construction	Diesel	CO	26.253570	24.174760	21.077943	10.696852
Construction	Gasoline	CO	44.517870	44.951969	44.369601	44.481830
Construction	CNG	CO	0.001954	0.002020	0.001841	0.001028
Construction	LPG	CO	0.756990	0.777894	0.598043	0.213398
Industrial	Diesel	CO	5.333961	4.989742	4.907408	2.133515
Industrial	Gasoline	CO	36.007595	33.678500	25.773325	17.204948
Industrial	CNG	CO	5.139018	5.196683	3.219660	0.783957
Industrial	LPG	CO	52.386401	54.753220	42.297985	9.730685
Lawn and Garden	Diesel	CO	1.260120	1.251364	1.185350	0.915345
Lawn and Garden	Gasoline	CO	1303.838102	1360.274589	1492.415139	1733.831895
Lawn and Garden	CNG	CO	0.000000	0.000000	0.000000	0.000000
Lawn and Garden	LPG	CO	0.726183	0.745078	0.527654	0.112744
Farm	Diesel	CO	68.134546	63.248546	52.619882	29.262587
Farm	Gasoline	CO	60.439285	61.445404	61.166257	63.032548
Farm	CNG	CO	1.065497	0.630302	0.077812	0.001800
Farm	LPG	CO	0.019319	0.019138	0.014970	0.007357
Light Commercial	Diesel	CO	3.930718	3.899580	3.702101	2.540988
Light Commercial	Gasoline	CO	382.628564	410.826952	480.813942	595.398079
Light Commercial	CNG	CO	3.157329	3.049612	0.983655	0.906606
Light Commercial	LPG	CO	3.549373	3.935994	3.934599	2.494728
Logging	Diesel	CO	2.168428	1.771578	1.457940	0.278193
Logging	Gasoline	CO	23.983427	25.302635	28.483434	36.842411
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	0.222677	0.217142	0.197392	0.124472
Railway Maintenance	Gasoline	CO	0.618675	0.648105	0.701871	0.764347
Railway Maintenance	CNG	CO	0.000000	0.000000	0.000000	0.000000
Railway Maintenance	LPG	CO	0.002664	0.002755	0.002401	0.000956
Recreational Marine Vessels	Diesel	CO	2.193350	2.311009	2.602966	3.121499
Recreational Marine Vessels	Gasoline	CO	1058.286145	1023.522388	924.194655	820.270980
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
Susquehanna County CO Totals			4111.283509	4283.932119	4549.055005	4738.175958

Appendix D2: Susquehanna County Annual Nonroad Emissions by SCC
Tons per Year

SCC	Classification	Equipment Type	Engine Type	Pollutant Code	2002 Emissions	2004 Emissions	2009 Emissions	2018 Emissions
2260001010	Recreational Equipment	Motorcycles: Off-Road	2 Stroke	NOx	0.143686	0.167168	0.273473	0.442908
2260001020	Recreational Equipment	Snowmobiles	2 Stroke	NOx	1.120444	1.223316	2.213697	6.142718
2260001030	Recreational Equipment	ATVs	2 Stroke	NOx	0.145284	0.199923	0.379508	0.642982
2260001060	Recreational Equipment	Specialty Vehicles/Carts	2 Stroke	NOx	0.214936	0.201407	0.164115	0.169113
2260002006	Construction and Mining Equipment	Tampers/Rammers	2 Stroke	NOx	0.006584	0.006332	0.003434	0.003445
2260002009	Construction and Mining Equipment	Plate Compactors	2 Stroke	NOx	0.000096	0.000163	0.000225	0.000230
2260002021	Construction and Mining Equipment	Paving Equipment	2 Stroke	NOx	0.000117	0.000199	0.000269	0.000276
2260002027	Construction and Mining Equipment	Signal Boards/Light Plants	2 Stroke	NOx	0.000001	0.000002	0.000002	0.000002
2260002039	Construction and Mining Equipment	Concrete/Industrial Saws	2 Stroke	NOx	0.015774	0.014284	0.008837	0.009054
2260002054	Construction and Mining Equipment	Crushing/Proc. Equipment	2 Stroke	NOx	0.000026	0.000043	0.000053	0.000054
2260003030	Industrial Equipment	Sweepers/Scrubbers	2 Stroke	NOx	0.000055	0.000079	0.000067	0.000024
2260003040	Industrial Equipment	Other General Industrial Eqp	2 Stroke	NOx	0.000004	0.000006	0.000005	0.000002
2260004015	Lawn and Garden Equipment (Res)	Rotary Tillers < 6 HP	2 Stroke	NOx	0.000833	0.001091	0.002071	0.002613
2260004016	Lawn and Garden Equipment (Com)	Rotary Tillers < 6 HP	2 Stroke	NOx	0.001920	0.002719	0.005170	0.006193
2260004020	Lawn and Garden Equipment (Res)	Chain Saws < 6 HP	2 Stroke	NOx	0.010867	0.015605	0.029943	0.035801
2260004021	Lawn and Garden Equipment (Com)	Chain Saws < 6 HP	2 Stroke	NOx	0.087516	0.085956	0.058831	0.068545
2260004025	Lawn and Garden Equipment (Res)	Trimmers/Edgers/Brush Cutter	2 Stroke	NOx	0.016676	0.022930	0.042035	0.050191
2260004026	Lawn and Garden Equipment (Com)	Trimmers/Edgers/Brush Cutter	2 Stroke	NOx	0.026157	0.037285	0.051755	0.060172
2260004030	Lawn and Garden Equipment (Res)	Leafblowers/Vacuums	2 Stroke	NOx	0.009924	0.014136	0.026859	0.032084
2260004031	Lawn and Garden Equipment (Com)	Leafblowers/Vacuums	2 Stroke	NOx	0.041649	0.049027	0.048264	0.055784
2260004035	Lawn and Garden Equipment (Res)	Snowblowers	2 Stroke	NOx	0.003176	0.003310	0.003643	0.004244
2260004036	Lawn and Garden Equipment (Com)	Snowblowers	2 Stroke	NOx	0.006165	0.006425	0.007070	0.008238
2260004071	Lawn and Garden Equipment (Com)	Commercial Turf Equipment	2 Stroke	NOx	0.000008	0.000014	0.000022	0.000206
2260005035	Agricultural Equipment	Sprayers	2 Stroke	NOx	0.000664	0.001010	0.001632	0.001852
2260006005	Commercial Equipment	Generator Sets	2 Stroke	NOx	0.000852	0.001500	0.002406	0.002984
2260006010	Commercial Equipment	Pumps	2 Stroke	NOx	0.006769	0.011473	0.016380	0.020277
2260006015	Commercial Equipment	Air Compressors	2 Stroke	NOx	0.000003	0.000005	0.000006	0.000008
2260006035	Commercial Equipment	Hydro Power Units	2 Stroke	NOx	0.000041	0.000071	0.000099	0.000123
2260007005	Logging Equipment	Chain Saws > 6 HP	2 Stroke	NOx	0.031736	0.030717	0.020059	0.025404
2265001010	Recreational Equipment	Motorcycles: Off-Road	4 Stroke	NOx	0.239619	0.278779	0.354529	0.392118
2265001030	Recreational Equipment	ATVs	4 Stroke	NOx	2.163208	2.623465	3.224912	3.112705
2265001050	Recreational Equipment	Golf Carts	4 Stroke	NOx	0.971604	0.864626	0.823740	0.878214
2265001060	Recreational Equipment	Specialty Vehicles/Carts	4 Stroke	NOx	0.222483	0.228902	0.229813	0.220799
2265002003	Construction and Mining Equipment	Pavers	4 Stroke	NOx	0.014217	0.012688	0.009181	0.006981
2265002006	Construction and Mining Equipment	Tampers/Rammers	4 Stroke	NOx	0.000079	0.000071	0.000057	0.000057
2265002009	Construction and Mining Equipment	Plate Compactors	4 Stroke	NOx	0.016888	0.016158	0.011325	0.010533
2265002015	Construction and Mining Equipment	Rollers	4 Stroke	NOx	0.024359	0.021418	0.014734	0.012207
2265002021	Construction and Mining Equipment	Paving Equipment	4 Stroke	NOx	0.035465	0.033112	0.025532	0.024290
2265002024	Construction and Mining Equipment	Surfacing Equipment	4 Stroke	NOx	0.014739	0.013131	0.010461	0.010335
2265002027	Construction and Mining Equipment	Signal Boards/Light Plants	4 Stroke	NOx	0.000692	0.000633	0.000474	0.000485
2265002030	Construction and Mining Equipment	Trenchers	4 Stroke	NOx	0.042911	0.038943	0.027373	0.020218
2265002033	Construction and Mining Equipment	Bore/Drill Rigs	4 Stroke	NOx	0.013483	0.013281	0.009923	0.007384
2265002039	Construction and Mining Equipment	Concrete/Industrial Saws	4 Stroke	NOx	0.072981	0.063742	0.049161	0.047438
2265002042	Construction and Mining Equipment	Cement & Mortar Mixers	4 Stroke	NOx	0.027550	0.028366	0.023956	0.020909
2265002045	Construction and Mining Equipment	Cranes	4 Stroke	NOx	0.007064	0.006726	0.004997	0.002068
2265002054	Construction and Mining Equipment	Crushing/Proc. Equipment	4 Stroke	NOx	0.004770	0.004283	0.003437	0.002995
2265002057	Construction and Mining Equipment	Rough Terrain Forklifts	4 Stroke	NOx	0.012175	0.011436	0.007289	0.001918
2265002060	Construction and Mining Equipment	Rubber Tire Loaders	4 Stroke	NOx	0.030125	0.027717	0.014455	0.003092
2265002066	Construction and Mining Equipment	Tractors/Loaders/Backhoes	4 Stroke	NOx	0.022886	0.019910	0.016519	0.015929
2265002072	Construction and Mining Equipment	Skid Steer Loaders	4 Stroke	NOx	0.032121	0.030057	0.021514	0.011523
2265002078	Construction and Mining Equipment	Dumpers/Tenders	4 Stroke	NOx	0.004512	0.004604	0.004022	0.003599
2265002081	Construction and Mining Equipment	Other Construction Equipment	4 Stroke	NOx	0.010512	0.010102	0.007674	0.003365
2265003010	Industrial Equipment	Aerial Lifts	4 Stroke	NOx	0.097714	0.084647	0.051775	0.015591
2265003020	Industrial Equipment	Forklifts	4 Stroke	NOx	0.412509	0.347241	0.151212	0.011425
2265003030	Industrial Equipment	Sweepers/Scrubbers	4 Stroke	NOx	0.073457	0.058927	0.020692	0.003488
2265003040	Industrial Equipment	Other General Industrial Eqp	4 Stroke	NOx	0.064880	0.054006	0.024763	0.007159
2265003050	Industrial Equipment	Other Material Handling Eqp	4 Stroke	NOx	0.006478	0.005545	0.003343	0.000798
2265003060	Industrial Equipment	AC/Refrigeration	4 Stroke	NOx	0.003552	0.002686	0.001604	0.000568
2265003070	Industrial Equipment	Terminal Tractors	4 Stroke	NOx	0.042603	0.033461	0.006761	0.000851
2265004010	Lawn and Garden Equipment (Res)	Lawn mowers	4 Stroke	NOx	0.872230	0.938206	0.848334	0.630169
2265004011	Lawn and Garden Equipment (Com)	Lawn mowers	4 Stroke	NOx	0.351607	0.366406	0.239455	0.242806
2265004015	Lawn and Garden Equipment (Res)	Rotary Tillers < 6 HP	4 Stroke	NOx	0.074019	0.079495	0.071537	0.052806
2265004016	Lawn and Garden Equipment (Com)	Rotary Tillers < 6 HP	4 Stroke	NOx	0.177235	0.187896	0.158625	0.124991
2265004025	Lawn and Garden Equipment (Res)	Trimmers/Edgers/Brush Cutter	4 Stroke	NOx	0.005012	0.005292	0.004430	0.003485
2265004026	Lawn and Garden Equipment (Com)	Trimmers/Edgers/Brush Cutter	4 Stroke	NOx	0.009116	0.008766	0.006997	0.007484
2265004030	Lawn and Garden Equipment (Res)	Leafblowers/Vacuums	4 Stroke	NOx	0.009618	0.010154	0.008473	0.006649
2265004031	Lawn and Garden Equipment (Com)	Leafblowers/Vacuums	4 Stroke	NOx	0.601742	0.552856	0.450991	0.375525
2265004035	Lawn and Garden Equipment (Res)	Snowblowers	4 Stroke	NOx	0.103551	0.107918	0.118765	0.138374
2265004036	Lawn and Garden Equipment (Com)	Snowblowers	4 Stroke	NOx	0.200983	0.209460	0.230512	0.268571
2265004040	Lawn and Garden Equipment (Res)	Rear Engine Riding Mowers	4 Stroke	NOx	0.227517	0.221453	0.196447	0.219843
2265004041	Lawn and Garden Equipment (Com)	Rear Engine Riding Mowers	4 Stroke	NOx	0.048772	0.043469	0.040770	0.047449
2265004046	Lawn and Garden Equipment (Com)	Front Mowers	4 Stroke	NOx	0.051459	0.053840	0.051664	0.054325
2265004051	Lawn and Garden Equipment (Com)	Shredders < 6 HP	4 Stroke	NOx	0.020159	0.021539	0.018799	0.014401
2265004055	Lawn and Garden Equipment (Res)	Lawn & Garden Tractors	4 Stroke	NOx	3.125876	3.034996	2.644832	2.948689
2265004056	Lawn and Garden Equipment (Com)	Lawn & Garden Tractors	4 Stroke	NOx	0.681244	0.599747	0.554534	0.645315
2265004066	Lawn and Garden Equipment (Com)	Chippers/Stump Grinders	4 Stroke	NOx	0.217710	0.201301	0.126442	0.082187
2265004071	Lawn and Garden Equipment (Com)	Commercial Turf Equipment	4 Stroke	NOx	2.385842	2.170782	1.654260	1.821524
2265004075	Lawn and Garden Equipment (Res)	Other Lawn & Garden Eqp.	4 Stroke	NOx	0.085715	0.092152	0.090425	0.080571
2265004076	Lawn and Garden Equipment (Com)	Other Lawn & Garden Eqp.	4 Stroke	NOx	0.052945	0.056861	0.055710	0.049492
2265005010	Agricultural Equipment	2-Wheel Tractors	4 Stroke	NOx	0.011867	0.010318	0.009597	0.010867
2265005015	Agricultural Equipment	Agricultural Tractors	4 Stroke	NOx	0.132125	0.123923	0.072159	0.024573
2265005020	Agricultural Equipment	Combines	4 Stroke	NOx	0.000994	0.000990	0.000862	0.000587

Appendix D2: Susquehanna 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
2265005025	Agricultural Equipment	Balers	4 Stroke	NOx	0.093919	0.093614	0.081524	0.055500
2265005030	Agricultural Equipment	Agricultural Mowers	4 Stroke	NOx	0.009698	0.009462	0.008351	0.008951
2265005035	Agricultural Equipment	Sprayers	4 Stroke	NOx	0.152791	0.155619	0.138991	0.112159
2265005040	Agricultural Equipment	Tillers > 6 HP	4 Stroke	NOx	0.146463	0.155193	0.172708	0.203136
2265005045	Agricultural Equipment	Swathers	4 Stroke	NOx	0.148759	0.148277	0.129128	0.087906
2265005055	Agricultural Equipment	Other Agricultural Equipment	4 Stroke	NOx	0.177834	0.172286	0.155039	0.111218
2265005060	Agricultural Equipment	Irrigation Sets	4 Stroke	NOx	0.258810	0.239629	0.108539	0.031068
2265006005	Commercial Equipment	Generator Sets	4 Stroke	NOx	1.301934	1.320838	1.234153	1.427864
2265006010	Commercial Equipment	Pumps	4 Stroke	NOx	0.394014	0.385490	0.307396	0.310536
2265006015	Commercial Equipment	Air Compressors	4 Stroke	NOx	0.271516	0.262750	0.198916	0.155887
2265006025	Commercial Equipment	Welders	4 Stroke	NOx	0.490246	0.462271	0.410166	0.398647
2265006030	Commercial Equipment	Pressure Washers	4 Stroke	NOx	0.574344	0.565703	0.476447	0.558264
2265006035	Commercial Equipment	Hydro Power Units	4 Stroke	NOx	0.028627	0.026729	0.024382	0.029220
2265007010	Logging Equipment	Shredders > 6 HP	4 Stroke	NOx	0.107440	0.117646	0.126025	0.141464
2265007015	Logging Equipment	Forest Eq - Feller/Bunch/Skidder	4 Stroke	NOx	0.001208	0.001226	0.000946	0.001198
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	0.075016	0.065494	0.060476	0.061185
2267001060	Recreational Equipment	Specialty Vehicle Carts	LPG	NOx	0.074699	0.073426	0.062189	0.040378
2267002003	Construction and Mining Equipment	Pavers	LPG	NOx	0.007728	0.007367	0.004291	0.001187
2267002015	Construction and Mining Equipment	Rollers	LPG	NOx	0.013019	0.011942	0.005101	0.001390
2267002021	Construction and Mining Equipment	Paving Equipment	LPG	NOx	0.002038	0.002009	0.001556	0.000640
2267002024	Construction and Mining Equipment	Surfacing Equipment	LPG	NOx	0.001330	0.001259	0.000682	0.000195
2267002030	Construction and Mining Equipment	Trenchers	LPG	NOx	0.023654	0.022643	0.013710	0.003688
2267002033	Construction and Mining Equipment	Bore/Drill Rigs	LPG	NOx	0.007785	0.007801	0.006783	0.004502
2267002039	Construction and Mining Equipment	Concrete/Industrial Saws	LPG	NOx	0.022547	0.019879	0.006034	0.002305
2267002045	Construction and Mining Equipment	Cranes	LPG	NOx	0.008328	0.008210	0.006339	0.002543
2267002054	Construction and Mining Equipment	Crushing/Proc. Equipment	LPG	NOx	0.001386	0.001363	0.001034	0.000375
2267002057	Construction and Mining Equipment	Rough Terrain Forklifts	LPG	NOx	0.015039	0.014559	0.009703	0.002603
2267002060	Construction and Mining Equipment	Rubber Tire Loaders	LPG	NOx	0.037420	0.035476	0.019374	0.004279
2267002066	Construction and Mining Equipment	Tractors/Loaders/Backhoes	LPG	NOx	0.003975	0.003698	0.001702	0.000416
2267002072	Construction and Mining Equipment	Skid Steer Loaders	LPG	NOx	0.030918	0.030226	0.021909	0.008880
2267002081	Construction and Mining Equipment	Other Construction Equipment	LPG	NOx	0.012432	0.012304	0.009789	0.004524
2267003010	Industrial Equipment	Aerial Lifts	LPG	NOx	0.134283	0.134291	0.106114	0.051631
2267003020	Industrial Equipment	Forklifts	LPG	NOx	12.656723	12.188385	6.861320	1.600437
2267003030	Industrial Equipment	Sweepers/Scrubbers	LPG	NOx	0.096581	0.089146	0.035815	0.011413
2267003040	Industrial Equipment	Other General Industrial Equipm	LPG	NOx	0.029537	0.027883	0.013473	0.003511
2267003050	Industrial Equipment	Other Material Handling Equipment	LPG	NOx	0.007253	0.007239	0.005622	0.002104
2267003070	Industrial Equipment	Terminal Tractors	LPG	NOx	0.058980	0.053077	0.014880	0.006621
2267004066	Lawn and Garden Equipment (Com)	Chippers/Stump Grinders	LPG	NOx	0.179233	0.168048	0.083379	0.019686
2267005055	Agricultural Equipment	Other Agricultural Equipment	LPG	NOx	0.002594	0.002521	0.002104	0.001326
2267005060	Agricultural Equipment	Irrigation Sets	LPG	NOx	0.002184	0.001972	0.000845	0.000171
2267006005	Commercial Equipment	Generator Sets	LPG	NOx	0.647113	0.680566	0.624343	0.450512
2267006010	Commercial Equipment	Pumps	LPG	NOx	0.150699	0.154805	0.120414	0.060302
2267006015	Commercial Equipment	Air Compressors	LPG	NOx	0.181680	0.183664	0.125638	0.038601
2267006025	Commercial Equipment	Welders	LPG	NOx	0.226512	0.232016	0.166628	0.049682
2267006030	Commercial Equipment	Pressure Washers	LPG	NOx	0.002976	0.003114	0.002656	0.001327
2267006035	Commercial Equipment	Hydro Power Units	LPG	NOx	0.002821	0.002793	0.001578	0.000560
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	0.000490	0.000485	0.000387	0.000180
2268003020	Industrial Equipment	Forklifts	CNG	NOx	0.921509	0.879337	0.491533	0.114795
2268003030	Industrial Equipment	Sweepers/Scrubbers	CNG	NOx	0.001101	0.001050	0.000580	0.000135
2268003040	Industrial Equipment	Other General Industrial Equipment	CNG	NOx	0.000720	0.000682	0.000354	0.000085
2268003060	Industrial Equipment	AC\Refrigeration	CNG	NOx	0.005310	0.004957	0.002222	0.000697
2268003070	Industrial Equipment	Terminal Tractors	CNG	NOx	0.004152	0.003707	0.001033	0.000460
2268005055	Agricultural Equipment	Other Agricultural Equipment	CNG	NOx	0.003138	0.002564	0.001434	0.000402
2268005060	Agricultural Equipment	Irrigation Sets	CNG	NOx	0.244965	0.141103	0.015872	0.000000
2268006005	Commercial Equipment	Generator Sets	CNG	NOx	0.212102	0.216109	0.192913	0.137025
2268006010	Commercial Equipment	Pumps	CNG	NOx	0.010635	0.010661	0.008544	0.004612
2268006015	Commercial Equipment	Air Compressors	CNG	NOx	0.015213	0.014906	0.010023	0.002797
2268006020	Commercial Equipment	Gas Compressors	CNG	NOx	0.561808	0.197179	0.057797	0.072225
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	0.322037	0.230457	0.033412	0.026295
2270001060	Recreational Equipment	Specialty Vehicle Carts	Diesel	NOx	0.772453	0.782130	0.774660	0.632448
2270002003	Construction and Mining Equipment	Pavers	Diesel	NOx	0.623718	0.595161	0.508041	0.232655
2270002006	Construction and Mining Equipment	Tampers/Rammers	Diesel	NOx	0.001371	0.001337	0.001150	0.000983
2270002009	Construction and Mining Equipment	Plate Compactors	Diesel	NOx	0.021383	0.020790	0.018005	0.016114
2270002015	Construction and Mining Equipment	Rollers	Diesel	NOx	1.547550	1.494345	1.312046	0.662060
2270002018	Construction and Mining Equipment	Scrapers	Diesel	NOx	1.791710	1.721931	1.432202	0.627257
2270002021	Construction and Mining Equipment	Paving Equipment	Diesel	NOx	0.098633	0.095338	0.082659	0.046971
2270002024	Construction and Mining Equipment	Surfacing Equipment	Diesel	NOx	0.066460	0.065312	0.059768	0.040809
2270002027	Construction and Mining Equipment	Signal Boards/Light Plants	Diesel	NOx	0.186885	0.182478	0.165923	0.155420
2270002030	Construction and Mining Equipment	Trenchers	Diesel	NOx	0.719899	0.711638	0.662059	0.461798
2270002033	Construction and Mining Equipment	Bore/Drill Rigs	Diesel	NOx	0.854682	0.847123	0.782565	0.550429
2270002036	Construction and Mining Equipment	Excavators	Diesel	NOx	6.185770	5.826930	4.782729	1.639529
2270002039	Construction and Mining Equipment	Concrete/Industrial Saws	Diesel	NOx	0.048404	0.047757	0.045459	0.033287
2270002042	Construction and Mining Equipment	Cement & Mortar Mixers	Diesel	NOx	0.032111	0.032022	0.030253	0.023268
2270002045	Construction and Mining Equipment	Cranes	Diesel	NOx	1.684570	1.617980	1.356989	0.629088
2270002048	Construction and Mining Equipment	Graders	Diesel	NOx	1.571721	1.470455	1.203921	0.408471
2270002051	Construction and Mining Equipment	Off-highway Trucks	Diesel	NOx	5.834341	5.645315	4.724402	2.336464
2270002054	Construction and Mining Equipment	Crushing/Proc. Equipment	Diesel	NOx	0.295764	0.287034	0.248692	0.138776
2270002057	Construction and Mining Equipment	Rough Terrain Forklifts	Diesel	NOx	1.977244	1.952282	1.764903	0.917331
2270002060	Construction and Mining Equipment	Rubber Tire Loaders	Diesel	NOx	7.574572	7.315206	6.308800	3.187577

Appendix D2: Susquehanna 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
2270002066	Construction and Mining Equipment	Tractors/Loaders/Backhoes	Diesel	NOx	4.601899	4.553993	4.263774	2.821251
2270002069	Construction and Mining Equipment	Crawler Tractor/Dozers	Diesel	NOx	6.655676	6.366738	5.369519	2.358684
2270002072	Construction and Mining Equipment	Skid Steer Loaders	Diesel	NOx	2.950601	2.976569	2.912937	2.378045
2270002075	Construction and Mining Equipment	Off-Highway Tractors	Diesel	NOx	0.803334	0.786123	0.691862	0.407260
2270002078	Construction and Mining Equipment	Dumpers/Tenders	Diesel	NOx	0.009497	0.009571	0.009406	0.007751
2270002081	Construction and Mining Equipment	Other Construction Equipment	Diesel	NOx	0.780102	0.759401	0.666898	0.390456
2270003010	Industrial Equipment	Aerial Lifts	Diesel	NOx	0.139620	0.139998	0.135112	0.113301
2270003020	Industrial Equipment	Forklifts	Diesel	NOx	1.473424	1.460002	1.250385	0.467522
2270003030	Industrial Equipment	Sweepers/Scrubbers	Diesel	NOx	0.781154	0.747263	0.648848	0.272306
2270003040	Industrial Equipment	Other General Industrial Eqp	Diesel	NOx	0.889665	0.861170	0.736728	0.366152
2270003050	Industrial Equipment	Other Material Handling Eqp	Diesel	NOx	0.041149	0.040594	0.037312	0.026329
2270003060	Industrial Equipment	AC/Refrigeration	Diesel	NOx	5.988058	5.937715	5.658924	4.654614
2270003070	Industrial Equipment	Terminal Tractors	Diesel	NOx	1.008069	0.967549	0.782339	0.217223
2270004031	Lawn and Garden Equipment (Com)	Leafblowers/Vacuums	Diesel	NOx	0.000133	0.000140	0.000152	0.000160
2270004036	Lawn and Garden Equipment (Com)	Snowblowers	Diesel	NOx	0.073511	0.076696	0.078142	0.059638
2270004046	Lawn and Garden Equipment (Com)	Front Mowers	Diesel	NOx	0.816419	0.844117	0.876649	0.892163
2270004056	Lawn and Garden Equipment (Com)	Lawn & Garden Tractors	Diesel	NOx	0.180172	0.181087	0.175357	0.192985
2270004066	Lawn and Garden Equipment (Com)	Chippers/Stump Grinders	Diesel	NOx	1.219894	1.279757	1.332350	1.044596
2270004071	Lawn and Garden Equipment (Com)	Commercial Turf Equipment	Diesel	NOx	0.123027	0.123452	0.123960	0.084107
2270004076	Lawn and Garden Equipment (Com)	Other Lawn & Garden Eqp.	Diesel	NOx	0.003202	0.003357	0.003556	0.003456
2270005010	Agricultural Equipment	2-Wheel Tractors	Diesel	NOx	0.002352	0.002186	0.001697	0.001730
2270005015	Agricultural Equipment	Agricultural Tractors	Diesel	NOx	101.765873	98.649193	88.522584	56.265289
2270005020	Agricultural Equipment	Combines	Diesel	NOx	10.318047	10.136511	9.250251	6.294485
2270005025	Agricultural Equipment	Balers	Diesel	NOx	0.044227	0.044795	0.044324	0.036344
2270005030	Agricultural Equipment	Agricultural Mowers	Diesel	NOx	0.009430	0.009323	0.008685	0.006049
2270005035	Agricultural Equipment	Sprayers	Diesel	NOx	0.731246	0.734604	0.707684	0.512138
2270005040	Agricultural Equipment	Tillers > 6 HP	Diesel	NOx	0.001203	0.001207	0.001149	0.000823
2270005045	Agricultural Equipment	Swathers	Diesel	NOx	0.722464	0.716156	0.673081	0.491934
2270005055	Agricultural Equipment	Other Agricultural Equipment	Diesel	NOx	2.125832	2.078007	1.866635	1.218772
2270005060	Agricultural Equipment	Irrigation Sets	Diesel	NOx	1.333316	1.319042	1.191657	0.665020
2270006005	Commercial Equipment	Generator Sets	Diesel	NOx	2.817442	2.893081	2.933901	2.456955
2270006010	Commercial Equipment	Pumps	Diesel	NOx	0.670738	0.688666	0.695120	0.572626
2270006015	Commercial Equipment	Air Compressors	Diesel	NOx	1.693020	1.719652	1.647960	1.047258
2270006020	Commercial Equipment	Gas Compressors	Diesel	NOx	0.000000	0.000000	0.000000	0.000000
2270006025	Commercial Equipment	Welders	Diesel	NOx	0.819742	0.846138	0.875257	0.786036
2270006030	Commercial Equipment	Pressure Washers	Diesel	NOx	0.094119	0.096489	0.097519	0.082236
2270006035	Commercial Equipment	Hydro Power Units	Diesel	NOx	0.073231	0.074058	0.071252	0.048592
2270007010	Logging Equipment	Shredders > 6 HP	Diesel	NOx	0.000000	0.000000	0.000000	0.000000
2270007015	Logging Equipment	Forest Eqp - Feller/Bunch/Skidder	Diesel	NOx	6.302895	5.572072	3.729864	0.781241
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	0.000000	0.000000	0.000000	0.000000
2270010010	Industrial Equipment	Other Oil Field Equipment	Diesel	NOx	0.871376	0.810888	0.629278	0.286687
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	4.632567	5.589227	8.200464	11.686093
2282005015	Pleasure Craft	Personal Water Craft	2 Stroke	NOx	1.296946	1.713985	2.678174	3.458318
2282010005	Pleasure Craft	Inboard/Stern Drive	4 Stroke	NOx	12.405796	13.074370	14.939550	18.172255
2282020005	Pleasure Craft	Inboard/Stern Drive	Diesel	NOx	13.632668	14.399439	15.357857	16.203924
2282020010	Pleasure Craft	Outboards	Diesel	NOx	0.051333	0.052481	0.054660	0.057888
2285002005	Railroad Equipment	Line Haul Locomotives	Diesel	NOx				
2285002010	Railroad Equipment	Yard Locomotive	Diesel	NOx				
2285002015	Railroad Equipment	Railway Maintenance	Diesel	NOx	0.269644	0.270917	0.259847	0.186786
2285004015	Railroad Equipment	Railway Maintenance	4 Stroke	NOx	0.005102	0.004615	0.003781	0.003778
2285006015	Railroad Equipment	Railway Maintenance	LPG	NOx	0.000666	0.000653	0.000477	0.000150
Susquehanna County Total Annual NOx Emissions					260.321322	256.530401	235.416213	177.736910

Appendix D2: Susquehanna 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	60.056310	69.736725	79.907416	64.815962
2260001020	Recreational Equipment	Snowmobiles	2 Stroke	VOC	171.453794	186.951941	194.096067	137.698263
2260001030	Recreational Equipment	ATVs	2 Stroke	VOC	59.960610	82.790813	99.290668	40.012356
2260001060	Recreational Equipment	Specialty Vehicles/Carts	2 Stroke	VOC	1.208839	1.126232	0.960304	0.982085
2260002006	Construction and Mining Equipment	Tampers/Rammers	2 Stroke	VOC	0.550549	0.527086	0.237401	0.235515
2260002009	Construction and Mining Equipment	Plate Compactors	2 Stroke	VOC	0.033346	0.020183	0.008336	0.008541
2260002021	Construction and Mining Equipment	Paving Equipment	2 Stroke	VOC	0.039736	0.023381	0.009924	0.010168
2260002027	Construction and Mining Equipment	Signal Boards/Light Plants	2 Stroke	VOC	0.000285	0.000156	0.000085	0.000088
2260002039	Construction and Mining Equipment	Concrete/Industrial Saws	2 Stroke	VOC	1.470391	1.210073	0.586683	0.601118
2260002054	Construction and Mining Equipment	Crushing/Proc. Equipment	2 Stroke	VOC	0.007377	0.003939	0.002007	0.002056
2260003030	Industrial Equipment	Sweepers/Scrubbers	2 Stroke	VOC	0.014555	0.006767	0.002573	0.000912
2260003040	Industrial Equipment	Other General Industrial Eqp	2 Stroke	VOC	0.001155	0.000535	0.000202	0.000072
2260004015	Lawn and Garden Equipment (Res)	Rotary Tillers < 6 HP	2 Stroke	VOC	0.325621	0.282465	0.126540	0.104759
2260004016	Lawn and Garden Equipment (Com)	Rotary Tillers < 6 HP	2 Stroke	VOC	0.712824	0.587646	0.198042	0.194555
2260004020	Lawn and Garden Equipment (Res)	Chain Saws < 6 HP	2 Stroke	VOC	4.204368	3.485440	1.264812	1.283130
2260004021	Lawn and Garden Equipment (Com)	Chain Saws < 6 HP	2 Stroke	VOC	8.584625	7.371660	3.709188	4.321608
2260004025	Lawn and Garden Equipment (Res)	Trimmers/Edgers/Brush Cutter	2 Stroke	VOC	6.197096	5.186643	2.007064	2.062655
2260004026	Lawn and Garden Equipment (Com)	Trimmers/Edgers/Brush Cutter	2 Stroke	VOC	6.762508	4.928030	1.887682	2.186492
2260004030	Lawn and Garden Equipment (Res)	Leafblowers/Vacuums	2 Stroke	VOC	4.081882	3.443773	1.461301	1.534018
2260004031	Lawn and Garden Equipment (Com)	Leafblowers/Vacuums	2 Stroke	VOC	6.487054	5.240194	2.203443	2.520963
2260004035	Lawn and Garden Equipment (Res)	Snowblowers	2 Stroke	VOC	3.049541	3.178477	3.498473	4.076876
2260004036	Lawn and Garden Equipment (Com)	Snowblowers	2 Stroke	VOC	5.232495	5.453794	6.002985	6.995637
2260004071	Lawn and Garden Equipment (Com)	Commercial Turf Equipment	2 Stroke	VOC	0.002916	0.002036	0.000732	0.000854
2260005035	Agricultural Equipment	Sprayers	2 Stroke	VOC	0.232678	0.169075	0.058447	0.065265
2260006005	Commercial Equipment	Generator Sets	2 Stroke	VOC	0.294524	0.194124	0.084744	0.105114
2260006010	Commercial Equipment	Pumps	2 Stroke	VOC	2.019022	1.169222	0.616486	0.743522
2260006015	Commercial Equipment	Air Compressors	2 Stroke	VOC	0.000716	0.000394	0.000235	0.000292
2260006035	Commercial Equipment	Hydro Power Units	2 Stroke	VOC	0.011164	0.006185	0.003649	0.004524
2260007005	Logging Equipment	Chain Saws > 6 HP	2 Stroke	VOC	2.749859	2.602695	1.390586	1.761127
2265001010	Recreational Equipment	Motorcycles: Off-Road	4 Stroke	VOC	2.239945	2.515445	3.032630	3.090626
2265001030	Recreational Equipment	ATVs	4 Stroke	VOC	23.396317	27.437289	33.939833	33.884790
2265001050	Recreational Equipment	Golf Carts	4 Stroke	VOC	3.344225	2.977194	2.837221	3.024846
2265001060	Recreational Equipment	Specialty Vehicles/Carts	4 Stroke	VOC	1.322623	1.274591	1.138431	0.930400
2265002003	Construction and Mining Equipment	Pavers	4 Stroke	VOC	0.030422	0.026746	0.002067	0.018622
2265002006	Construction and Mining Equipment	Tampers/Rammers	4 Stroke	VOC	0.000257	0.000224	0.000177	0.000178
2265002009	Construction and Mining Equipment	Plate Compactors	4 Stroke	VOC	0.119361	0.116658	0.071465	0.059168
2265002015	Construction and Mining Equipment	Rollers	4 Stroke	VOC	0.049251	0.042516	0.034335	0.032912
2265002021	Construction and Mining Equipment	Paving Equipment	4 Stroke	VOC	0.166267	0.153365	0.102611	0.096006
2265002024	Construction and Mining Equipment	Surfacing Equipment	4 Stroke	VOC	0.061471	0.056688	0.037298	0.037898
2265002027	Construction and Mining Equipment	Signal Boards/Light Plants	4 Stroke	VOC	0.004301	0.004125	0.002358	0.002416
2265002030	Construction and Mining Equipment	Trenchers	4 Stroke	VOC	0.121630	0.112568	0.070223	0.065718
2265002033	Construction and Mining Equipment	Bore/Drill Rigs	4 Stroke	VOC	0.071168	0.070682	0.044857	0.034591
2265002039	Construction and Mining Equipment	Concrete/Industrial Saws	4 Stroke	VOC	0.177626	0.153133	0.132061	0.133081
2265002042	Construction and Mining Equipment	Cement & Mortar Mixers	4 Stroke	VOC	0.177868	0.162908	0.127920	0.098703
2265002045	Construction and Mining Equipment	Cranes	4 Stroke	VOC	0.006147	0.005770	0.004394	0.002086
2265002054	Construction and Mining Equipment	Crushing/Proc. Equipment	4 Stroke	VOC	0.016071	0.014672	0.009882	0.009710
2265002057	Construction and Mining Equipment	Rough Terrain Forklifts	4 Stroke	VOC	0.009151	0.008594	0.005491	0.001222
2265002060	Construction and Mining Equipment	Rubber Tire Loaders	4 Stroke	VOC	0.022105	0.020360	0.010407	0.001412
2265002066	Construction and Mining Equipment	Tractors/Loaders/Backhoes	4 Stroke	VOC	0.059650	0.050945	0.043870	0.044172
2265002072	Construction and Mining Equipment	Skid Steer Loaders	4 Stroke	VOC	0.041364	0.037368	0.027825	0.019938
2265002078	Construction and Mining Equipment	Dumpers/Tenders	4 Stroke	VOC	0.024867	0.022657	0.018027	0.015094
2265002081	Construction and Mining Equipment	Other Construction Equipment	4 Stroke	VOC	0.007922	0.007619	0.005831	0.002451
2265003010	Industrial Equipment	Aerial Lifts	4 Stroke	VOC	0.107118	0.089648	0.053618	0.016860
2265003020	Industrial Equipment	Forklifts	4 Stroke	VOC	0.302942	0.255550	0.110446	0.005938
2265003030	Industrial Equipment	Sweepers/Scrubbers	4 Stroke	VOC	0.093964	0.075557	0.029780	0.007534
2265003040	Industrial Equipment	Other General Industrial Eqp	4 Stroke	VOC	0.335337	0.290286	0.120446	0.035039
2265003050	Industrial Equipment	Other Material Handling Eqp	4 Stroke	VOC	0.007630	0.006278	0.003724	0.001014
2265003060	Industrial Equipment	AC/Refrigeration	4 Stroke	VOC	0.011484	0.008740	0.005241	0.001867
2265003070	Industrial Equipment	Terminal Tractors	4 Stroke	VOC	0.031218	0.024523	0.004198	0.000361
2265004010	Lawn and Garden Equipment (Res)	Lawn mowers	4 Stroke	VOC	12.034264	11.942964	11.136268	8.268660
2265004011	Lawn and Garden Equipment (Com)	Lawn mowers	4 Stroke	VOC	3.659850	3.814294	2.179660	2.035189
2265004015	Lawn and Garden Equipment (Res)	Rotary Tillers < 6 HP	4 Stroke	VOC	1.003575	1.003639	0.926680	0.655686
2265004016	Lawn and Garden Equipment (Com)	Rotary Tillers < 6 HP	4 Stroke	VOC	1.752928	1.737617	1.471494	0.924292
2265004025	Lawn and Garden Equipment (Res)	Trimmers/Edgers/Brush Cutter	4 Stroke	VOC	0.062863	0.064345	0.057060	0.043027
2265004026	Lawn and Garden Equipment (Com)	Trimmers/Edgers/Brush Cutter	4 Stroke	VOC	0.060462	0.060697	0.039287	0.036298
2265004030	Lawn and Garden Equipment (Res)	Leafblowers/Vacuums	4 Stroke	VOC	0.127907	0.131005	0.116417	0.089181
2265004031	Lawn and Garden Equipment (Com)	Leafblowers/Vacuums	4 Stroke	VOC	1.217226	1.080915	0.902139	0.916415
2265004035	Lawn and Garden Equipment (Res)	Snowblowers	4 Stroke	VOC	1.105735	1.152458	1.268421	1.478045
2265004036	Lawn and Garden Equipment (Com)	Snowblowers	4 Stroke	VOC	0.790066	0.823552	0.906587	1.056654
2265004040	Lawn and Garden Equipment (Res)	Rear Engine Riding Mowers	4 Stroke	VOC	1.147497	1.121004	1.069429	1.213751
2265004041	Lawn and Garden Equipment (Com)	Rear Engine Riding Mowers	4 Stroke	VOC	0.140592	0.124276	0.114193	0.132900
2265004046	Lawn and Garden Equipment (Com)	Front Mowers	4 Stroke	VOC	0.223856	0.212432	0.186950	0.190574
2265004051	Lawn and Garden Equipment (Com)	Shredders < 6 HP	4 Stroke	VOC	0.212746	0.206849	0.180538	0.112964
2265004055	Lawn and Garden Equipment (Res)	Lawn & Garden Tractors	4 Stroke	VOC	13.738462	13.185600	12.034463	13.561406
2265004056	Lawn and Garden Equipment (Com)	Lawn & Garden Tractors	4 Stroke	VOC	1.904062	1.644473	1.471723	1.712429
2265004066	Lawn and Garden Equipment (Com)	Chippers/Stump Grinders	4 Stroke	VOC	0.288706	0.259868	0.196313	0.177603
2265004071	Lawn and Garden Equipment (Com)	Commercial Turf Equipment	4 Stroke	VOC	7.052178	6.668296	5.423338	5.691107
2265004075	Lawn and Garden Equipment (Res)	Other Lawn & Garden Eqp.	4 Stroke	VOC	0.769490	0.742018	0.668679	0.513462
2265004076	Lawn and Garden Equipment (Com)	Other Lawn & Garden Eqp.	4 Stroke	VOC	0.468331	0.451627	0.406951	0.312376
2265005010	Agricultural Equipment	2-Wheel Tractors	4 Stroke	VOC	0.035259	0.030289	0.027733	0.031405
2265005015	Agricultural Equipment	Agricultural Tractors	4 Stroke	VOC	0.115420	0.106395	0.066238	0.030871
2265005020	Agricultural Equipment	Combines	4 Stroke	VOC	0.000835	0.000837	0.000741	0.000503

Appendix D2: Susquehanna 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
2265005025	Agricultural Equipment	Balers	4 Stroke	VOC	0.086574	0.087027	0.077451	0.052721
2265005030	Agricultural Equipment	Agricultural Mowers	4 Stroke	VOC	0.036227	0.032524	0.026695	0.027948
2265005035	Agricultural Equipment	Sprayers	4 Stroke	VOC	0.526705	0.511132	0.427626	0.339646
2265005040	Agricultural Equipment	Tillers > 6 HP	4 Stroke	VOC	1.019876	1.010868	0.967976	0.853861
2265005045	Agricultural Equipment	Swathers	4 Stroke	VOC	0.126132	0.126496	0.112024	0.076102
2265005055	Agricultural Equipment	Other Agricultural Equipment	4 Stroke	VOC	0.200025	0.194352	0.166555	0.131887
2265005060	Agricultural Equipment	Irrigation Sets	4 Stroke	VOC	0.210944	0.197491	0.086721	0.026826
2265006005	Commercial Equipment	Generator Sets	4 Stroke	VOC	6.004054	5.856531	5.031073	5.585012
2265006010	Commercial Equipment	Pumps	4 Stroke	VOC	1.813506	1.849092	1.116638	1.309065
2265006015	Commercial Equipment	Air Compressors	4 Stroke	VOC	0.733162	0.733816	0.496793	0.560244
2265006025	Commercial Equipment	Welders	4 Stroke	VOC	1.139451	1.058527	0.992217	1.142463
2265006030	Commercial Equipment	Pressure Washers	4 Stroke	VOC	3.173377	3.200315	2.326458	2.517086
2265006035	Commercial Equipment	Hydro Power Units	4 Stroke	VOC	0.111990	0.108157	0.086246	0.106280
2265007010	Logging Equipment	Shredders > 6 HP	4 Stroke	VOC	0.511988	0.488843	0.434513	0.454803
2265007015	Logging Equipment	Forest Eq - Feller/Bunch/Skidder	4 Stroke	VOC	0.009221	0.009681	0.005159	0.006534
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	0.213941	0.181377	0.164213	0.166138
2267001060	Recreational Equipment	Specialty Vehicle Carts	LPG	VOC	0.020238	0.019936	0.017088	0.011153
2267002003	Construction and Mining Equipment	Pavers	LPG	VOC	0.002107	0.002024	0.001203	0.000247
2267002015	Construction and Mining Equipment	Rollers	LPG	VOC	0.003574	0.003315	0.001431	0.000223
2267002021	Construction and Mining Equipment	Paving Equipment	LPG	VOC	0.000551	0.000546	0.000431	0.000167
2267002024	Construction and Mining Equipment	Surfacing Equipment	LPG	VOC	0.000363	0.000347	0.000192	0.000040
2267002030	Construction and Mining Equipment	Trenchers	LPG	VOC	0.006447	0.006217	0.003845	0.000774
2267002033	Construction and Mining Equipment	Bore/Drill Rigs	LPG	VOC	0.002092	0.002103	0.001855	0.001234
2267002039	Construction and Mining Equipment	Concrete/Industrial Saws	LPG	VOC	0.006248	0.005590	0.001653	0.000352
2267002045	Construction and Mining Equipment	Cranes	LPG	VOC	0.002253	0.002232	0.001758	0.000667
2267002054	Construction and Mining Equipment	Crushing/Proc. Equipment	LPG	VOC	0.000375	0.000371	0.000287	0.000096
2267002057	Construction and Mining Equipment	Rough Terrain Forklifts	LPG	VOC	0.004088	0.003983	0.002717	0.000575
2267002060	Construction and Mining Equipment	Rubber Tire Loaders	LPG	VOC	0.010227	0.009779	0.005484	0.000735
2267002066	Construction and Mining Equipment	Tractors/Loaders/Backhoes	LPG	VOC	0.001090	0.001025	0.000482	0.000065
2267002072	Construction and Mining Equipment	Skid Steer Loaders	LPG	VOC	0.008380	0.008238	0.006089	0.002276
2267002081	Construction and Mining Equipment	Other Construction Equipment	LPG	VOC	0.003358	0.003339	0.002706	0.001211
2267003010	Industrial Equipment	Aerial Lifts	LPG	VOC	0.036171	0.036384	0.029319	0.013613
2267003020	Industrial Equipment	Forklifts	LPG	VOC	3.451004	3.353546	1.938146	0.275040
2267003030	Industrial Equipment	Sweepers/Scrubbers	LPG	VOC	0.026580	0.024838	0.010018	0.001834
2267003040	Industrial Equipment	Other General Industrial Equipm	LPG	VOC	0.008076	0.007704	0.003793	0.000568
2267003050	Industrial Equipment	Other Material Handling Equipment	LPG	VOC	0.001956	0.001964	0.001558	0.000537
2267003070	Industrial Equipment	Terminal Tractors	LPG	VOC	0.016271	0.014858	0.004111	0.000998
2267004066	Lawn and Garden Equipment (Com)	Chippers/Stump Grinders	LPG	VOC	0.049022	0.046396	0.023553	0.003242
2267005055	Agricultural Equipment	Other Agricultural Equipment	LPG	VOC	0.000705	0.000687	0.000580	0.000369
2267005060	Agricultural Equipment	Irrigation Sets	LPG	VOC	0.000600	0.000547	0.000241	0.000027
2267006005	Commercial Equipment	Generator Sets	LPG	VOC	0.131404	0.138475	0.128457	0.092772
2267006010	Commercial Equipment	Pumps	LPG	VOC	0.030990	0.031911	0.024982	0.011769
2267006015	Commercial Equipment	Air Compressors	LPG	VOC	0.037680	0.038202	0.026211	0.006549
2267006025	Commercial Equipment	Welders	LPG	VOC	0.060994	0.062984	0.046451	0.010206
2267006030	Commercial Equipment	Pressure Washers	LPG	VOC	0.000793	0.000835	0.000728	0.000344
2267006035	Commercial Equipment	Hydro Power Units	LPG	VOC	0.000587	0.000583	0.000323	0.000093
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	0.000008	0.000008	0.000006	0.000003
2268003020	Industrial Equipment	Forklifts	CNG	VOC	0.014827	0.014272	0.008197	0.001181
2268003030	Industrial Equipment	Sweepers/Scrubbers	CNG	VOC	0.000018	0.000017	0.000010	0.000001
2268003040	Industrial Equipment	Other General Industrial Equipment	CNG	VOC	0.000012	0.000011	0.000006	0.000001
2268003060	Industrial Equipment	AC\Refrigeration	CNG	VOC	0.000086	0.000081	0.000037	0.000007
2268003070	Industrial Equipment	Terminal Tractors	CNG	VOC	0.000068	0.000061	0.000017	0.000004
2268005055	Agricultural Equipment	Other Agricultural Equipment	CNG	VOC	0.000054	0.000044	0.000025	0.000007
2268005060	Agricultural Equipment	Irrigation Sets	CNG	VOC	0.004126	0.002416	0.000276	0.000000
2268006005	Commercial Equipment	Generator Sets	CNG	VOC	0.002563	0.002616	0.002360	0.001686
2268006010	Commercial Equipment	Pumps	CNG	VOC	0.000130	0.000130	0.000105	0.000055
2268006015	Commercial Equipment	Air Compressors	CNG	VOC	0.000187	0.000184	0.000124	0.000029
2268006020	Commercial Equipment	Gas Compressors	CNG	VOC	0.009767	0.003762	0.000582	0.000727
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	0.005383	0.003952	0.000416	0.000249
2270001060	Recreational Equipment	Specialty Vehicle Carts	Diesel	VOC	0.246972	0.239834	0.210692	0.136972
2270002003	Construction and Mining Equipment	Pavers	Diesel	VOC	0.060150	0.054168	0.041994	0.024277
2270002006	Construction and Mining Equipment	Tampers/Rammers	Diesel	VOC	0.000223	0.000217	0.000178	0.000137
2270002009	Construction and Mining Equipment	Plate Compactors	Diesel	VOC	0.003737	0.003557	0.002793	0.002089
2270002015	Construction and Mining Equipment	Rollers	Diesel	VOC	0.170504	0.151947	0.113783	0.065504
2270002018	Construction and Mining Equipment	Scrapers	Diesel	VOC	0.125107	0.111631	0.082922	0.063373
2270002021	Construction and Mining Equipment	Paving Equipment	Diesel	VOC	0.010992	0.010109	0.007619	0.004681
2270002024	Construction and Mining Equipment	Surfacing Equipment	Diesel	VOC	0.007584	0.006885	0.005175	0.003288
2270002027	Construction and Mining Equipment	Signal Boards/Light Plants	Diesel	VOC	0.036863	0.033247	0.022383	0.015125
2270002030	Construction and Mining Equipment	Trenchers	Diesel	VOC	0.101521	0.091344	0.066083	0.036141
2270002033	Construction and Mining Equipment	Bore/Drill Rigs	Diesel	VOC	0.079601	0.076604	0.065926	0.045130
2270002036	Construction and Mining Equipment	Excavators	Diesel	VOC	0.493653	0.443479	0.361120	0.225786
2270002039	Construction and Mining Equipment	Concrete/Industrial Saws	Diesel	VOC	0.008178	0.007152	0.004861	0.002659
2270002042	Construction and Mining Equipment	Cement & Mortar Mixers	Diesel	VOC	0.003828	0.003763	0.003415	0.002517
2270002045	Construction and Mining Equipment	Cranes	Diesel	VOC	0.128598	0.118158	0.092594	0.060171
2270002048	Construction and Mining Equipment	Graders	Diesel	VOC	0.122914	0.110361	0.090878	0.057326
2270002051	Construction and Mining Equipment	Off-highway Trucks	Diesel	VOC	0.425451	0.367552	0.263131	0.230434
2270002054	Construction and Mining Equipment	Crushing/Proc. Equipment	Diesel	VOC	0.026216	0.023987	0.018308	0.011114
2270002057	Construction and Mining Equipment	Rough Terrain Forklifts	Diesel	VOC	0.245171	0.226616	0.170686	0.092526
2270002060	Construction and Mining Equipment	Rubber Tire Loaders	Diesel	VOC	0.613624	0.571015	0.451001	0.295340

Appendix D2: Susquehanna 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
2270002066	Construction and Mining Equipment	Tractors/Loaders/Backhoes	Diesel	VOC	1.059296	1.031556	0.902113	0.515300
2270002069	Construction and Mining Equipment	Crawler Tractor/Dozers	Diesel	VOC	0.533189	0.478750	0.367974	0.247082
2270002072	Construction and Mining Equipment	Skid Steer Loaders	Diesel	VOC	1.022723	0.982885	0.822220	0.476161
2270002075	Construction and Mining Equipment	Off-Highway Tractors	Diesel	VOC	0.072138	0.064085	0.045556	0.031710
2270002078	Construction and Mining Equipment	Dumpers/Tenders	Diesel	VOC	0.003108	0.003054	0.002725	0.001693
2270002081	Construction and Mining Equipment	Other Construction Equipment	Diesel	VOC	0.067314	0.062095	0.048823	0.031324
2270003010	Industrial Equipment	Aerial Lifts	Diesel	VOC	0.041171	0.040722	0.037060	0.024630
2270003020	Industrial Equipment	Forklifts	Diesel	VOC	0.145330	0.138263	0.105866	0.056299
2270003030	Industrial Equipment	Sweepers/Scrubbers	Diesel	VOC	0.075166	0.066767	0.052468	0.030061
2270003040	Industrial Equipment	Other General Industrial Eqp	Diesel	VOC	0.081366	0.076636	0.060183	0.036743
2270003050	Industrial Equipment	Other Material Handling Eqp	Diesel	VOC	0.007658	0.007521	0.006769	0.004470
2270003060	Industrial Equipment	AC/Refrigeration	Diesel	VOC	0.811503	0.689699	0.504903	0.271424
2270003070	Industrial Equipment	Terminal Tractors	Diesel	VOC	0.079622	0.075891	0.063962	0.038300
2270004031	Lawn and Garden Equipment (Com)	Leafblowers/Vacuums	Diesel	VOC	0.000027	0.000027	0.000026	0.000022
2270004036	Lawn and Garden Equipment (Com)	Snowblowers	Diesel	VOC	0.007059	0.006968	0.006390	0.004851
2270004046	Lawn and Garden Equipment (Com)	Front Mowers	Diesel	VOC	0.160917	0.152896	0.119351	0.081140
2270004056	Lawn and Garden Equipment (Com)	Lawn & Garden Tractors	Diesel	VOC	0.035637	0.033299	0.024715	0.020514
2270004066	Lawn and Garden Equipment (Com)	Chippers/Stump Grinders	Diesel	VOC	0.137939	0.138022	0.129104	0.096955
2270004071	Lawn and Garden Equipment (Com)	Commercial Turf Equipment	Diesel	VOC	0.016632	0.013831	0.010398	0.007043
2270004076	Lawn and Garden Equipment (Com)	Other Lawn & Garden Eqp.	Diesel	VOC	0.000512	0.000512	0.000472	0.000362
2270005010	Agricultural Equipment	2-Wheel Tractors	Diesel	VOC	0.000422	0.000390	0.000275	0.000237
2270005015	Agricultural Equipment	Agricultural Tractors	Diesel	VOC	12.638331	11.366725	8.673744	5.105198
2270005020	Agricultural Equipment	Combines	Diesel	VOC	0.920425	0.899502	0.804938	0.573548
2270005025	Agricultural Equipment	Balers	Diesel	VOC	0.009317	0.008809	0.007199	0.004449
2270005030	Agricultural Equipment	Agricultural Mowers	Diesel	VOC	0.001500	0.001434	0.001201	0.000747
2270005035	Agricultural Equipment	Sprayers	Diesel	VOC	0.134264	0.124904	0.097604	0.057538
2270005040	Agricultural Equipment	Tillers > 6 HP	Diesel	VOC	0.000139	0.000131	0.000108	0.000071
2270005045	Agricultural Equipment	Swathers	Diesel	VOC	0.082867	0.082353	0.076774	0.055494
2270005055	Agricultural Equipment	Other Agricultural Equipment	Diesel	VOC	0.281737	0.258706	0.196467	0.117913
2270005060	Agricultural Equipment	Irrigation Sets	Diesel	VOC	0.173418	0.157471	0.117486	0.064545
2270006005	Commercial Equipment	Generator Sets	Diesel	VOC	0.427603	0.418055	0.369458	0.249989
2270006010	Commercial Equipment	Pumps	Diesel	VOC	0.094028	0.092503	0.082850	0.058990
2270006015	Commercial Equipment	Air Compressors	Diesel	VOC	0.211954	0.200747	0.159525	0.091412
2270006020	Commercial Equipment	Gas Compressors	Diesel	VOC	0.000000	0.000000	0.000000	0.000000
2270006025	Commercial Equipment	Welders	Diesel	VOC	0.322668	0.314635	0.270898	0.150195
2270006030	Commercial Equipment	Pressure Washers	Diesel	VOC	0.013441	0.013242	0.012090	0.009048
2270006035	Commercial Equipment	Hydro Power Units	Diesel	VOC	0.009873	0.009177	0.007072	0.004210
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	0.458327	0.398939	0.283951	0.136134
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	0.000000	0.000000	0.000000	0.000000
2270010010	Industrial Equipment	Other Oil Field Equipment	Diesel	VOC	0.071434	0.061042	0.039852	0.022926
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	291.995127	271.678053	215.444296	150.460369
2282005015	Pleasure Craft	Personal Water Craft	2 Stroke	VOC	102.089355	91.071635	60.300506	40.883252
2282010005	Pleasure Craft	Inboard/Stern Drive	4 Stroke	VOC	19.516887	19.442857	19.070374	18.451644
2282020005	Pleasure Craft	Inboard/Stern Drive	Diesel	VOC	0.510029	0.536657	0.556942	0.550807
2282020010	Pleasure Craft	Outboards	Diesel	VOC	0.012814	0.012208	0.010164	0.006014
2285002005	Railroad Equipment	Line Haul Locomotives	Diesel	VOC				
2285002010	Railroad Equipment	Yard Locomotive	Diesel	VOC				
2285002015	Railroad Equipment	Railway Maintenance	Diesel	VOC	0.052306	0.051451	0.046275	0.030140
2285004015	Railroad Equipment	Railway Maintenance	4 Stroke	VOC	0.017541	0.015913	0.011868	0.012311
2285006015	Railroad Equipment	Railway Maintenance	LPG	VOC	0.000180	0.000178	0.000133	0.000037
Susquehanna County Total Annual VOC Emissions					883.211667	891.723400	809.338928	587.434208

Appendix D2: Susquehanna County Annual Nonroad Emissions by SCC
Tons per Year

SCC	Classification	Equipment Type	Engine Type	Pollutant Code	2002	2004	2009	2018
					Emissions	Emissions	Emissions	Emissions
2260001010	Recreational Equipment	Motorcycles: Off-Road	2 Stroke	CO	56.832001	65.990707	83.272522	88.828613
2260001020	Recreational Equipment	Snowmobiles	2 Stroke	CO	426.391214	464.917604	492.620178	405.165617
2260001030	Recreational Equipment	ATVs	2 Stroke	CO	56.034321	77.377007	117.947330	135.284360
2260001060	Recreational Equipment	Specialty Vehicles/Carts	2 Stroke	CO	36.178029	37.169032	40.368883	43.293708
2260002006	Construction and Mining Equipment	Tampers/Rammers	2 Stroke	CO	1.496935	1.481544	1.238911	1.262574
2260002009	Construction and Mining Equipment	Plate Compactors	2 Stroke	CO	0.072156	0.058300	0.046205	0.047342
2260002021	Construction and Mining Equipment	Paving Equipment	2 Stroke	CO	0.086598	0.069421	0.055736	0.057108
2260002027	Construction and Mining Equipment	Signal Boards/Light Plants	2 Stroke	CO	0.000633	0.000498	0.000428	0.000439
2260002039	Construction and Mining Equipment	Concrete/Industrial Saws	2 Stroke	CO	3.955666	3.728595	3.209449	3.288417
2260002054	Construction and Mining Equipment	Crushing/Proc. Equipment	2 Stroke	CO	0.016881	0.013292	0.011373	0.011653
2260003030	Industrial Equipment	Sweepers/Scrubbers	2 Stroke	CO	0.033697	0.023551	0.014338	0.005083
2260003040	Industrial Equipment	Other General Industrial Eqp	2 Stroke	CO	0.002685	0.001876	0.001142	0.000405
2260004015	Lawn and Garden Equipment (Res)	Rotary Tillers < 6 HP	2 Stroke	CO	0.685489	0.624040	0.466326	0.496360
2260004016	Lawn and Garden Equipment (Com)	Rotary Tillers < 6 HP	2 Stroke	CO	1.557315	1.416598	1.054919	1.189309
2260004020	Lawn and Garden Equipment (Res)	Chain Saws < 6 HP	2 Stroke	CO	8.941543	8.174956	6.224443	7.052154
2260004021	Lawn and Garden Equipment (Com)	Chain Saws < 6 HP	2 Stroke	CO	22.906892	22.362593	20.646115	24.054967
2260004025	Lawn and Garden Equipment (Res)	Trimmers/Edgers/Brush Cutter	2 Stroke	CO	12.899249	11.573349	8.049429	9.041648
2260004026	Lawn and Garden Equipment (Com)	Trimmers/Edgers/Brush Cutter	2 Stroke	CO	15.478339	13.640414	11.292591	13.147032
2260004030	Lawn and Garden Equipment (Res)	Leafblowers/Vacuums	2 Stroke	CO	8.050195	7.329686	5.456169	6.172307
2260004031	Lawn and Garden Equipment (Com)	Leafblowers/Vacuums	2 Stroke	CO	15.609125	14.654717	12.608004	14.650212
2260004035	Lawn and Garden Equipment (Res)	Snowblowers	2 Stroke	CO	6.012859	6.267168	6.898262	8.038960
2260004036	Lawn and Garden Equipment (Com)	Snowblowers	2 Stroke	CO	11.669835	12.163396	13.388243	15.602129
2260004071	Lawn and Garden Equipment (Com)	Commercial Turf Equipment	2 Stroke	CO	0.006368	0.005555	0.004505	0.005250
2260005035	Agricultural Equipment	Sprayers	2 Stroke	CO	0.490815	0.414576	0.287482	0.324365
2260006005	Commercial Equipment	Generator Sets	2 Stroke	CO	0.640832	0.552564	0.487106	0.604107
2260006010	Commercial Equipment	Pumps	2 Stroke	CO	4.512490	3.581741	3.200810	3.916490
2260006015	Commercial Equipment	Air Compressors	2 Stroke	CO	0.001670	0.001389	0.001371	0.001700
2260006035	Commercial Equipment	Hydro Power Units	2 Stroke	CO	0.025956	0.021611	0.021249	0.026347
2260007005	Logging Equipment	Chain Saws > 6 HP	2 Stroke	CO	7.546708	7.799483	7.690033	9.739152
2265001010	Recreational Equipment	Motorcycles: Off-Road	4 Stroke	CO	24.479712	28.460068	34.114094	32.258335
2265001030	Recreational Equipment	ATVs	4 Stroke	CO	220.674350	267.012820	362.251070	423.424160
2265001050	Recreational Equipment	Golf Carts	4 Stroke	CO	171.089750	178.309520	187.753490	200.169650
2265001060	Recreational Equipment	Specialty Vehicles/Carts	4 Stroke	CO	30.845400	30.974716	31.512907	33.336791
2265002003	Construction and Mining Equipment	Pavers	4 Stroke	CO	1.297479	1.332429	1.374706	1.324481
2265002006	Construction and Mining Equipment	Tampers/Rammers	4 Stroke	CO	0.010261	0.010519	0.011159	0.011468
2265002009	Construction and Mining Equipment	Plate Compactors	4 Stroke	CO	2.396051	2.430520	2.482317	2.536599
2265002015	Construction and Mining Equipment	Rollers	4 Stroke	CO	2.431755	2.492793	2.479684	2.482792
2265002021	Construction and Mining Equipment	Paving Equipment	4 Stroke	CO	4.691325	4.778159	4.959363	5.090124
2265002024	Construction and Mining Equipment	Surfacing Equipment	4 Stroke	CO	2.126433	2.188360	2.240615	2.288559
2265002027	Construction and Mining Equipment	Signal Boards/Light Plants	4 Stroke	CO	0.108207	0.110833	0.112782	0.115561
2265002030	Construction and Mining Equipment	Trenchers	4 Stroke	CO	3.976757	4.067543	4.051068	4.003180
2265002033	Construction and Mining Equipment	Bore/Drill Rigs	4 Stroke	CO	1.171628	1.176560	1.166453	1.157235
2265002039	Construction and Mining Equipment	Concrete/Industrial Saws	4 Stroke	CO	9.820630	10.089274	10.188434	10.377058
2265002042	Construction and Mining Equipment	Cement & Mortar Mixers	4 Stroke	CO	4.107621	4.091174	4.193229	4.375708
2265002045	Construction and Mining Equipment	Cranes	4 Stroke	CO	0.164386	0.162691	0.139675	0.089356
2265002054	Construction and Mining Equipment	Crushing/Proc. Equipment	4 Stroke	CO	0.576677	0.593863	0.605979	0.611549
2265002057	Construction and Mining Equipment	Rough Terrain Forklifts	4 Stroke	CO	0.214579	0.205376	0.141706	0.041886
2265002060	Construction and Mining Equipment	Rubber Tire Loaders	4 Stroke	CO	0.514477	0.482513	0.270578	0.048840
2265002066	Construction and Mining Equipment	Tractors/Loaders/Backhoes	4 Stroke	CO	3.092612	3.194975	3.279639	3.340390
2265002072	Construction and Mining Equipment	Skid Steer Loaders	4 Stroke	CO	1.368149	1.379770	1.325667	1.172650
2265002078	Construction and Mining Equipment	Dumpers/Tenders	4 Stroke	CO	0.639591	0.636937	0.656272	0.682042
2265002081	Construction and Mining Equipment	Other Construction Equipment	4 Stroke	CO	0.180382	0.175212	0.139373	0.064820
2265003010	Industrial Equipment	Aerial Lifts	4 Stroke	CO	3.157113	2.839209	1.978653	0.665713
2265003020	Industrial Equipment	Forklifts	4 Stroke	CO	7.136760	6.103858	2.835596	0.195542
2265003030	Industrial Equipment	Sweepers/Scrubbers	4 Stroke	CO	3.067878	2.723050	1.614140	0.496187
2265003040	Industrial Equipment	Other General Industrial Eqp	4 Stroke	CO	7.826542	7.092820	4.925876	1.715435
2265003050	Industrial Equipment	Other Material Handling Eqp	4 Stroke	CO	0.241363	0.218986	0.153126	0.048220
2265003060	Industrial Equipment	AC/Refrigeration	4 Stroke	CO	0.491881	0.456720	0.334433	0.119662
2265003070	Industrial Equipment	Terminal Tractors	4 Stroke	CO	0.741124	0.599227	0.131922	0.012996
2265004010	Lawn and Garden Equipment (Res)	Lawn mowers	4 Stroke	CO	130.570836	135.279392	147.275814	168.354381
2265004011	Lawn and Garden Equipment (Com)	Lawn mowers	4 Stroke	CO	53.620229	55.884514	60.080362	69.655726
2265004015	Lawn and Garden Equipment (Res)	Rotary Tillers < 6 HP	4 Stroke	CO	10.998437	11.381749	12.370571	14.115391
2265004016	Lawn and Garden Equipment (Com)	Rotary Tillers < 6 HP	4 Stroke	CO	26.122757	27.189758	29.622578	33.974403
2265004025	Lawn and Garden Equipment (Res)	Trimmers/Edgers/Brush Cutter	4 Stroke	CO	0.733275	0.761978	0.828626	0.949105
2265004026	Lawn and Garden Equipment (Com)	Trimmers/Edgers/Brush Cutter	4 Stroke	CO	1.331606	1.411533	1.555209	1.805618
2265004030	Lawn and Garden Equipment (Res)	Leafblowers/Vacuums	4 Stroke	CO	1.401631	1.456519	1.582592	1.811205
2265004031	Lawn and Garden Equipment (Com)	Leafblowers/Vacuums	4 Stroke	CO	53.294827	57.064766	62.605616	70.172654
2265004035	Lawn and Garden Equipment (Res)	Snowblowers	4 Stroke	CO	17.664450	18.413749	20.271287	23.628209
2265004036	Lawn and Garden Equipment (Com)	Snowblowers	4 Stroke	CO	34.281550	35.735711	39.340716	45.855569
2265004040	Lawn and Garden Equipment (Res)	Rear Engine Riding Mowers	4 Stroke	CO	30.707138	32.248571	36.842318	43.263938
2265004041	Lawn and Garden Equipment (Com)	Rear Engine Riding Mowers	4 Stroke	CO	6.900417	7.402869	8.360197	9.745139
2265004046	Lawn and Garden Equipment (Com)	Front Mowers	4 Stroke	CO	7.451833	7.707080	8.669718	10.303252
2265004051	Lawn and Garden Equipment (Com)	Shredders < 6 HP	4 Stroke	CO	2.993375	3.113402	3.395368	3.889615
2265004055	Lawn and Garden Equipment (Res)	Lawn & Garden Tractors	4 Stroke	CO	408.284829	429.140873	493.736888	580.644884
2265004056	Lawn and Garden Equipment (Com)	Lawn & Garden Tractors	4 Stroke	CO	92.811475	100.138056	113.656981	132.489792
2265004066	Lawn and Garden Equipment (Com)	Chippers/Stump Grinders	4 Stroke	CO	12.325797	12.919920	13.552722	13.889987
2265004071	Lawn and Garden Equipment (Com)	Commercial Turf Equipment	4 Stroke	CO	287.083010	302.622412	328.810730	381.356741
2265004075	Lawn and Garden Equipment (Res)	Other Lawn & Garden Eqp.	4 Stroke	CO	13.327045	13.790784	15.101035	17.703444
2265004076	Lawn and Garden Equipment (Com)	Other Lawn & Garden Eqp.	4 Stroke	CO	8.116378	8.398486	9.193806	10.772418
2265005010	Agricultural Equipment	2-Wheel Tractors	4 Stroke	CO	1.700707	1.819595	2.017232	2.284446
2265005015	Agricultural Equipment	Agricultural Tractors	4 Stroke	CO	3.439982	3.455810	3.809422	2.075793
2265005020	Agricultural Equipment	Combines	4 Stroke	CO	0.016543	0.016626	0.014945	0.010538

Appendix D2: Susquehanna 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
2265005025	Agricultural Equipment	Balers	4 Stroke	CO	1.563670	1.571553	1.413009	0.997167
2265005030	Agricultural Equipment	Agricultural Mowers	4 Stroke	CO	1.322605	1.375342	1.540445	1.763809
2265005035	Agricultural Equipment	Sprayers	4 Stroke	CO	11.320195	11.586561	12.292531	13.482491
2265005040	Agricultural Equipment	Tillers > 6 HP	4 Stroke	CO	28.149089	28.870171	30.781545	34.546400
2265005045	Agricultural Equipment	Swathers	4 Stroke	CO	2.476718	2.489203	2.238083	1.579426
2265005055	Agricultural Equipment	Other Agricultural Equipment	4 Stroke	CO	5.138623	5.235507	5.244207	4.958598
2265005060	Agricultural Equipment	Irrigation Sets	4 Stroke	CO	4.820337	4.610460	2.527356	1.009517
2265006005	Commercial Equipment	Generator Sets	4 Stroke	CO	180.220787	192.946639	229.274013	287.467410
2265006010	Commercial Equipment	Pumps	4 Stroke	CO	41.644333	45.017872	51.590219	63.176628
2265006015	Commercial Equipment	Air Compressors	4 Stroke	CO	20.686913	22.326141	25.172815	30.082554
2265006025	Commercial Equipment	Welders	4 Stroke	CO	51.971145	56.673150	65.455785	79.121644
2265006030	Commercial Equipment	Pressure Washers	4 Stroke	CO	78.930266	85.340016	100.496367	124.670087
2265006035	Commercial Equipment	Hydro Power Units	4 Stroke	CO	3.994173	4.365830	5.114207	6.331113
2265007010	Logging Equipment	Shredders > 6 HP	4 Stroke	CO	16.243040	17.292656	20.548365	26.792896
2265007015	Logging Equipment	Forest Eq - Feller/Bunch/Skidder	4 Stroke	CO	0.193679	0.210496	0.245036	0.310363
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	13.308552	13.619202	13.784099	13.945704
2267001060	Recreational Equipment	Specialty Vehicle Carts	LPG	CO	0.298857	0.301828	0.277881	0.197508
2267002003	Construction and Mining Equipment	Pavers	LPG	CO	0.031170	0.032034	0.024625	0.006869
2267002015	Construction and Mining Equipment	Rollers	LPG	CO	0.053003	0.054166	0.034359	0.007756
2267002021	Construction and Mining Equipment	Paving Equipment	LPG	CO	0.008132	0.008401	0.007539	0.003821
2267002024	Construction and Mining Equipment	Surfacing Equipment	LPG	CO	0.005381	0.005525	0.004098	0.001134
2267002030	Construction and Mining Equipment	Trenchers	LPG	CO	0.095382	0.098091	0.076989	0.021452
2267002033	Construction and Mining Equipment	Bore/Drill Rigs	LPG	CO	0.030803	0.031903	0.030548	0.022361
2267002039	Construction and Mining Equipment	Concrete/Industrial Saws	LPG	CO	0.092944	0.094441	0.047541	0.012071
2267002045	Construction and Mining Equipment	Cranes	LPG	CO	0.033257	0.034354	0.030798	0.015482
2267002054	Construction and Mining Equipment	Crushing/Proc. Equipment	LPG	CO	0.005540	0.005720	0.005078	0.002376
2267002057	Construction and Mining Equipment	Rough Terrain Forklifts	LPG	CO	0.060436	0.062256	0.051538	0.015386
2267002060	Construction and Mining Equipment	Rubber Tire Loaders	LPG	CO	0.151462	0.155548	0.116644	0.024927
2267002066	Construction and Mining Equipment	Tractors/Loaders/Backhoes	LPG	CO	0.016169	0.016558	0.011275	0.002285
2267002072	Construction and Mining Equipment	Skid Steer Loaders	LPG	CO	0.123772	0.127690	0.110350	0.051431
2267002081	Construction and Mining Equipment	Other Construction Equipment	LPG	CO	0.049539	0.051205	0.046660	0.026048
2267003010	Industrial Equipment	Aerial Lifts	LPG	CO	0.533101	0.560669	0.516396	0.286810
2267003020	Industrial Equipment	Forklifts	LPG	CO	51.068599	53.378027	41.277096	9.313605
2267003030	Industrial Equipment	Sweepers/Scrubbers	LPG	CO	0.394538	0.409600	0.255437	0.062809
2267003040	Industrial Equipment	Other General Industrial Equipm	LPG	CO	0.119628	0.124634	0.087488	0.019822
2267003050	Industrial Equipment	Other Material Handling Equipment	LPG	CO	0.028833	0.030312	0.027698	0.013339
2267003070	Industrial Equipment	Terminal Tractors	LPG	CO	0.241702	0.249978	0.133869	0.034299
2267004066	Lawn and Garden Equipment (Com)	Chippers/Stump Grinders	LPG	CO	0.726183	0.745078	0.527654	0.112744
2267005055	Agricultural Equipment	Other Agricultural Equipment	LPG	CO	0.010418	0.010373	0.009336	0.006417
2267005060	Agricultural Equipment	Irrigation Sets	LPG	CO	0.008900	0.008765	0.005634	0.000939
2267006005	Commercial Equipment	Generator Sets	LPG	CO	1.724551	1.917447	2.046449	1.723495
2267006010	Commercial Equipment	Pumps	LPG	CO	0.408473	0.452583	0.444767	0.265448
2267006015	Commercial Equipment	Air Compressors	LPG	CO	0.498089	0.550586	0.510606	0.201631
2267006025	Commercial Equipment	Welders	LPG	CO	0.898835	0.993877	0.912490	0.293378
2267006030	Commercial Equipment	Pressure Washers	LPG	CO	0.011652	0.012932	0.013014	0.007880
2267006035	Commercial Equipment	Hydro Power Units	LPG	CO	0.007774	0.008570	0.007274	0.002896
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	0.001954	0.002020	0.001841	0.001028
2268003020	Industrial Equipment	Forklifts	CNG	CO	3.724271	3.849502	2.937991	0.643893
2268003030	Industrial Equipment	Sweepers/Scrubbers	CNG	CO	0.004454	0.004603	0.003492	0.000753
2268003040	Industrial Equipment	Other General Industrial Equipment	CNG	CO	0.002911	0.003006	0.002214	0.000468
2268003060	Industrial Equipment	AC\Refrigeration	CNG	CO	0.021565	0.022218	0.015077	0.003707
2268003070	Industrial Equipment	Terminal Tractors	CNG	CO	0.017022	0.017428	0.009191	0.002278
2268005055	Agricultural Equipment	Other Agricultural Equipment	CNG	CO	0.013720	0.011274	0.006376	0.001800
2268005060	Agricultural Equipment	Irrigation Sets	CNG	CO	1.051777	0.619028	0.711435	0.000000
2268006005	Commercial Equipment	Generator Sets	CNG	CO	0.572650	0.608871	0.614163	0.497312
2268006010	Commercial Equipment	Pumps	CNG	CO	0.029011	0.030764	0.029355	0.018937
2268006015	Commercial Equipment	Air Compressors	CNG	CO	0.042004	0.044396	0.039087	0.014151
2268006020	Commercial Equipment	Gas Compressors	CNG	CO	2.513664	2.365582	0.301051	0.376206
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	1.368795	1.299927	0.251694	0.132858
2270001060	Recreational Equipment	Specialty Vehicle Carts	Diesel	CO	0.919056	0.895929	0.804411	0.531734
2270002003	Construction and Mining Equipment	Pavers	Diesel	CO	0.316574	0.277951	0.234181	0.101469
2270002006	Construction and Mining Equipment	Tampers/Rammers	Diesel	CO	0.000798	0.000818	0.000853	0.000962
2270002009	Construction and Mining Equipment	Plate Compactors	Diesel	CO	0.012783	0.012811	0.012563	0.013434
2270002015	Construction and Mining Equipment	Rollers	Diesel	CO	0.910929	0.823339	0.693602	0.335380
2270002018	Construction and Mining Equipment	Scrapers	Diesel	CO	0.823125	0.750598	0.629905	0.293557
2270002021	Construction and Mining Equipment	Paving Equipment	Diesel	CO	0.059098	0.054223	0.043354	0.024080
2270002024	Construction and Mining Equipment	Surfacing Equipment	Diesel	CO	0.044588	0.041652	0.034417	0.019454
2270002027	Construction and Mining Equipment	Signal Boards/Light Plants	Diesel	CO	0.116376	0.109644	0.087988	0.072327
2270002030	Construction and Mining Equipment	Trenchers	Diesel	CO	0.546877	0.512048	0.430754	0.228810
2270002033	Construction and Mining Equipment	Bore/Drill Rigs	Diesel	CO	0.328512	0.314828	0.274854	0.168246
2270002036	Construction and Mining Equipment	Excavators	Diesel	CO	2.527015	2.141311	1.939212	0.601508
2270002039	Construction and Mining Equipment	Concrete/Industrial Saws	Diesel	CO	0.042290	0.039210	0.032538	0.017390
2270002042	Construction and Mining Equipment	Cement & Mortar Mixers	Diesel	CO	0.014508	0.014419	0.014000	0.011344
2270002045	Construction and Mining Equipment	Cranes	Diesel	CO	0.461342	0.423872	0.347518	0.167998
2270002048	Construction and Mining Equipment	Graders	Diesel	CO	0.595260	0.487651	0.431220	0.150890
2270002051	Construction and Mining Equipment	Off-highway Trucks	Diesel	CO	2.582080	2.162940	1.596094	0.337377
2270002054	Construction and Mining Equipment	Crushing/Proc. Equipment	Diesel	CO	0.108046	0.099463	0.083757	0.044626
2270002057	Construction and Mining Equipment	Rough Terrain Forklifts	Diesel	CO	1.360174	1.278132	1.111824	0.602344
2270002060	Construction and Mining Equipment	Rubber Tire Loaders	Diesel	CO	3.498777	3.207223	2.634199	1.236202

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SCC	Classification	Equipment Type	Engine Type	Pollutant Code	2002 Emissions	2004 Emissions	2009 Emissions	2018 Emissions
2270002066	Construction and Mining Equipment	Tractors/Loaders/Backhoes	Diesel	CO	4.273795	4.230644	4.058570	2.634545
2270002069	Construction and Mining Equipment	Crawler Tractor/Dozers	Diesel	CO	2.994143	2.658742	2.248617	0.931930
2270002072	Construction and Mining Equipment	Skid Steer Loaders	Diesel	CO	3.737479	3.714296	3.490624	2.384999
2270002075	Construction and Mining Equipment	Off-Highway Tractors	Diesel	CO	0.453664	0.406803	0.311925	0.138539
2270002078	Construction and Mining Equipment	Dumpers/Tenders	Diesel	CO	0.010685	0.010817	0.010639	0.007640
2270002081	Construction and Mining Equipment	Other Construction Equipment	Diesel	CO	0.434653	0.401326	0.324736	0.171800
2270003010	Industrial Equipment	Aerial Lifts	Diesel	CO	0.141561	0.144744	0.145827	0.110310
2270003020	Industrial Equipment	Forklifts	Diesel	CO	0.859708	0.856791	0.913993	0.158495
2270003030	Industrial Equipment	Sweepers/Scrubbers	Diesel	CO	0.264539	0.234210	0.216756	0.092968
2270003040	Industrial Equipment	Other General Industrial Eqp	Diesel	CO	0.286921	0.269731	0.229364	0.129169
2270003050	Industrial Equipment	Other Material Handling Eqp	Diesel	CO	0.026291	0.026132	0.025108	0.017299
2270003060	Industrial Equipment	AC/Refrigeration	Diesel	CO	3.096427	2.876269	2.859904	1.483549
2270003070	Industrial Equipment	Terminal Tractors	Diesel	CO	0.363567	0.330647	0.343126	0.076711
2270004031	Lawn and Garden Equipment (Com)	Leafblowers/Vacuums	Diesel	CO	0.000081	0.000085	0.000093	0.000095
2270004036	Lawn and Garden Equipment (Com)	Snowblowers	Diesel	CO	0.028674	0.028230	0.026112	0.016635
2270004046	Lawn and Garden Equipment (Com)	Front Mowers	Diesel	CO	0.512971	0.508737	0.466266	0.377472
2270004056	Lawn and Garden Equipment (Com)	Lawn & Garden Tractors	Diesel	CO	0.112092	0.109965	0.097266	0.099673
2270004066	Lawn and Garden Equipment (Com)	Chippers/Stump Grinders	Diesel	CO	0.546798	0.550999	0.545799	0.393291
2270004071	Lawn and Garden Equipment (Com)	Commercial Turf Equipment	Diesel	CO	0.057674	0.051467	0.047868	0.026470
2270004076	Lawn and Garden Equipment (Com)	Other Lawn & Garden Eqp.	Diesel	CO	0.001830	0.001880	0.001946	0.001709
2270005010	Agricultural Equipment	2-Wheel Tractors	Diesel	CO	0.002301	0.002304	0.002132	0.001825
2270005015	Agricultural Equipment	Agricultural Tractors	Diesel	CO	61.674325	56.946105	46.767533	25.493861
2270005020	Agricultural Equipment	Combines	Diesel	CO	3.841445	3.783367	3.598917	2.359946
2270005025	Agricultural Equipment	Balers	Diesel	CO	0.032061	0.031973	0.031131	0.022806
2270005030	Agricultural Equipment	Agricultural Mowers	Diesel	CO	0.007366	0.007340	0.007217	0.005187
2270005035	Agricultural Equipment	Sprayers	Diesel	CO	0.432630	0.416696	0.372004	0.233007
2270005040	Agricultural Equipment	Tillers > 6 HP	Diesel	CO	0.000834	0.000794	0.000679	0.000411
2270005045	Agricultural Equipment	Swathers	Diesel	CO	0.369561	0.382346	0.411242	0.329230
2270005055	Agricultural Equipment	Other Agricultural Equipment	Diesel	CO	1.225112	1.154165	0.967022	0.546202
2270005060	Agricultural Equipment	Irrigation Sets	Diesel	CO	0.548911	0.523456	0.462004	0.270113
2270006005	Commercial Equipment	Generator Sets	Diesel	CO	1.509274	1.499552	1.434044	1.050960
2270006010	Commercial Equipment	Pumps	Diesel	CO	0.350984	0.350137	0.340006	0.260307
2270006015	Commercial Equipment	Air Compressors	Diesel	CO	0.800680	0.781160	0.739497	0.459832
2270006020	Commercial Equipment	Gas Compressors	Diesel	CO	0.000000	0.000000	0.000000	0.000000
2270006025	Commercial Equipment	Welders	Diesel	CO	1.188156	1.188840	1.113420	0.716506
2270006030	Commercial Equipment	Pressure Washers	Diesel	CO	0.045447	0.044977	0.042758	0.032451
2270006035	Commercial Equipment	Hydro Power Units	Diesel	CO	0.036177	0.034914	0.032376	0.020932
2270007010	Logging Equipment	Shredders > 6 HP	Diesel	CO	0.000000	0.000000	0.000000	0.000000
2270007015	Logging Equipment	Forest Eqp - Feller/Bunch/Skidder	Diesel	CO	2.168428	1.771578	1.457940	0.278193
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	0.000000	0.000000	0.000000	0.000000
2270010010	Industrial Equipment	Other Oil Field Equipment	Diesel	CO	0.294946	0.251219	0.173329	0.065016
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	569.851058	547.323157	481.965778	417.837636
2282005015	Pleasure Craft	Personal Water Craft	2 Stroke	CO	206.220040	200.440169	187.968720	186.576218
2282010005	Pleasure Craft	Inboard/Stern Drive	4 Stroke	CO	282.215048	275.759062	254.260157	215.857127
2282020005	Pleasure Craft	Inboard/Stern Drive	Diesel	CO	2.156338	2.274840	2.570270	3.096872
2282020010	Pleasure Craft	Outboards	Diesel	CO	0.037012	0.036168	0.032695	0.024627
2285002005	Railroad Equipment	Line Haul Locomotives	Diesel	CO				
2285002010	Railroad Equipment	Yard Locomotive	Diesel	CO				
2285002015	Railroad Equipment	Railway Maintenance	Diesel	CO	0.222677	0.217142	0.197392	0.124472
2285004015	Railroad Equipment	Railway Maintenance	4 Stroke	CO	0.618675	0.648105	0.701871	0.764347
2285006015	Railroad Equipment	Railway Maintenance	LPG	CO	0.002664	0.002755	0.002401	0.000956

**Susquehanna
County Total
Annual CO
Emissions**

4110.364454 4283.036190 4548.250594 4737.644224

**Appendix D2: Susquehanna County Daily Nonroad Emissions by Category
Tons per Day**

Tons/Summer Day

Equipment Type	Fuel	Pollutant	2002	2004	2009	2018
Recreational	Diesel	VOC	0.000850	0.000825	0.000725	0.000471
Recreational	Gasoline	VOC	0.569933	0.701376	0.824123	0.553611
Recreational	CNG	VOC	0.000850	0.000825	0.000725	0.000471
Recreational	LPG	VOC	0.000070	0.000069	0.000059	0.000038
Construction	Diesel	VOC	0.019956	0.018530	0.014923	0.009353
Construction	Gasoline	VOC	0.012125	0.010611	0.006101	0.005816
Construction	CNG	VOC	0.000000	0.000000	0.000000	0.000000
Construction	LPG	VOC	0.000188	0.000181	0.000111	0.000032
Industrial	Diesel	VOC	0.003770	0.003331	0.002514	0.001404
Industrial	Gasoline	VOC	0.003514	0.002957	0.001534	0.000772
Industrial	CNG	VOC	0.000065	0.000058	0.000027	0.000005
Industrial	LPG	VOC	0.011102	0.010786	0.006231	0.000918
Lawn and Garden	Diesel	VOC	0.001691	0.001629	0.001366	0.000991
Lawn and Garden	Gasoline	VOC	0.346007	0.315907	0.231617	0.237419
Lawn and Garden	CNG	VOC	0.000000	0.000000	0.000000	0.000000
Lawn and Garden	LPG	VOC	0.000236	0.000223	0.000113	0.000016
Farm	Diesel	VOC	0.071360	0.064636	0.049983	0.029961
Farm	Gasoline	VOC	0.013122	0.012528	0.010359	0.008509
Farm	CNG	VOC	0.000021	0.000012	0.000002	0.000000
Farm	LPG	VOC	0.000007	0.000006	0.000004	0.000002
Light Commercial	Diesel	VOC	0.003386	0.003288	0.002829	0.001768
Light Commercial	Gasoline	VOC	0.050765	0.047553	0.037979	0.043257
Light Commercial	CNG	VOC	0.000040	0.000021	0.000010	0.000008
Light Commercial	LPG	VOC	0.000823	0.000856	0.000712	0.000382
Logging	Diesel	VOC	0.001437	0.001251	0.000891	0.000427
Logging	Gasoline	VOC	0.010458	0.009946	0.006015	0.007332
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	0.000177	0.000174	0.000157	0.000102
Railway Maintenance	Gasoline	VOC	0.000061	0.000056	0.000044	0.000045
Railway Maintenance	CNG	VOC	0.000000	0.000000	0.000000	0.000000
Railway Maintenance	LPG	VOC	0.000001	0.000001	0.000000	0.000000
Recreational Marine Vessels	Diesel	VOC	0.001347	0.001414	0.001461	0.001435
Recreational Marine Vessels	Gasoline	VOC	1.219016	1.140521	0.921367	0.713221
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	0.014229	0.014689	0.013969	0.014058
Susquehanna County VOC Totals			2.356607	2.364260	2.135951	1.631823

**Appendix D2: Susquehanna County Daily Nonroad Emissions by Category
Tons per Day**

Tons/Summer Day

Equipment Type	Fuel	Pollutant	2002	2004	2009	2018
Recreational	Diesel	NOx	0.002658	0.002691	0.002665	0.002176
Recreational	Gasoline	NOx	0.011996	0.013356	0.016029	0.017453
Recreational	CNG	NOx	0.002658	0.002691	0.002665	0.002176
Recreational	LPG	NOx	0.000257	0.000253	0.000214	0.000139
Construction	Diesel	NOx	0.172696	0.167046	0.145042	0.075353
Construction	Gasoline	NOx	0.001266	0.001165	0.000847	0.000675
Construction	CNG	NOx	0.000002	0.000002	0.000001	0.000001
Construction	LPG	NOx	0.000691	0.000658	0.000398	0.000138
Industrial	Diesel	NOx	0.032602	0.031899	0.028579	0.018059
Industrial	Gasoline	NOx	0.002030	0.001706	0.000844	0.000273
Industrial	CNG	NOx	0.004001	0.003559	0.001665	0.000452
Industrial	LPG	NOx	0.040718	0.039203	0.022070	0.005255
Lawn and Garden	Diesel	NOx	0.011269	0.011697	0.012083	0.010666
Lawn and Garden	Gasoline	NOx	0.031237	0.029987	0.025080	0.025893
Lawn and Garden	CNG	NOx	0.000000	0.000000	0.000000	0.000000
Lawn and Garden	LPG	NOx	0.000862	0.000808	0.000401	0.000095
Farm	Diesel	NOx	0.586486	0.569636	0.512401	0.328143
Farm	Gasoline	NOx	0.004711	0.004634	0.003651	0.002693
Farm	CNG	NOx	0.001243	0.000720	0.000087	0.000002
Farm	LPG	NOx	0.000024	0.000023	0.000015	0.000008
Light Commercial	Diesel	NOx	0.019345	0.019815	0.019824	0.015661
Light Commercial	Gasoline	NOx	0.007983	0.007904	0.006954	0.007564
Light Commercial	CNG	NOx	0.002508	0.001376	0.000845	0.000679
Light Commercial	LPG	NOx	0.003800	0.003942	0.003266	0.001885
Logging	Diesel	NOx	0.019767	0.017475	0.011698	0.002450
Logging	Gasoline	NOx	0.000382	0.000405	0.000393	0.000451
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	0.000913	0.000918	0.000880	0.000633
Railway Maintenance	Gasoline	NOx	0.000014	0.000013	0.000011	0.000011
Railway Maintenance	CNG	NOx	0.000000	0.000000	0.000000	0.000000
Railway Maintenance	LPG	NOx	0.000002	0.000002	0.000002	0.000001
Recreational Marine Vessels	Diesel	NOx	0.035261	0.037239	0.039715	0.041903
Recreational Marine Vessels	Gasoline	NOx	0.041785	0.046753	0.059952	0.077851
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	0.329212	0.297904	0.248884	0.215732
Susquehanna County NOx Totals			1.368380	1.315481	1.167160	0.854468

**Appendix D2: Susquehanna County Daily Nonroad Emissions by Category
Tons per Day**

Equipment Type	Fuel	Pollutant	Tons/Summer Day			
			2002	2004	2009	2018
Recreational	Diesel	CO	0.003162	0.003083	0.002768	0.001830
Recreational	Gasoline	CO	2.102970	2.416433	3.020840	3.371292
Recreational	CNG	CO	0.003162	0.003083	0.002768	0.001830
Recreational	LPG	CO	0.001028	0.001039	0.000956	0.000680
Construction	Diesel	CO	0.096634	0.088983	0.077584	0.039373
Construction	Gasoline	CO	0.168686	0.170372	0.168254	0.168668
Construction	CNG	CO	0.000007	0.000007	0.000007	0.000004
Construction	LPG	CO	0.002786	0.002863	0.002201	0.000785
Industrial	Diesel	CO	0.015403	0.014413	0.014146	0.006040
Industrial	Gasoline	CO	0.119388	0.111922	0.086387	0.058745
Industrial	CNG	CO	0.016395	0.016561	0.010144	0.002485
Industrial	LPG	CO	0.164294	0.171717	0.132655	0.030517
Lawn and Garden	Diesel	CO	0.005923	0.005883	0.005576	0.004323
Lawn and Garden	Gasoline	CO	5.119790	5.350319	5.862639	6.803709
Lawn and Garden	CNG	CO	0.000000	0.000000	0.000000	0.000000
Lawn and Garden	LPG	CO	0.003493	0.003584	0.002538	0.000542
Farm	Diesel	CO	0.341380	0.316900	0.263646	0.146617
Farm	Gasoline	CO	0.312947	0.318171	0.316747	0.326406
Farm	CNG	CO	0.005339	0.003158	0.000390	0.000009
Farm	LPG	CO	0.000097	0.000096	0.000075	0.000037
Light Commercial	Diesel	CO	0.012328	0.012230	0.011611	0.007969
Light Commercial	Gasoline	CO	1.239894	1.331419	1.558357	1.929738
Light Commercial	CNG	CO	0.009902	0.009564	0.003085	0.002843
Light Commercial	LPG	CO	0.011132	0.012344	0.012340	0.007824
Logging	Diesel	CO	0.006801	0.005556	0.004572	0.000872
Logging	Gasoline	CO	0.076954	0.081204	0.091528	0.118410
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	0.000754	0.000735	0.000669	0.000422
Railway Maintenance	Gasoline	CO	0.002166	0.002269	0.002457	0.002676
Railway Maintenance	CNG	CO	0.000000	0.000000	0.000000	0.000000
Railway Maintenance	LPG	CO	0.000009	0.000009	0.000008	0.000003
Recreational Marine Vessels	Diesel	CO	0.005652	0.005955	0.006707	0.008043
Recreational Marine Vessels	Gasoline	CO	2.751468	2.661329	2.403517	2.132395
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	0.036256	0.037425	0.037425	0.037425
Susquehanna County CO Totals			12.636200	13.158625	14.102595	15.212513