

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

Equipment Type	Fuel	Pollutant	Tons/Year			
			2002	2004	2009	2018
Recreational	Diesel	VOC	0.061743	0.059959	0.052673	0.034243
Recreational	Gasoline	VOC	39.240934	48.163307	56.401064	37.874662
Recreational	CNG	VOC	0.061743	0.059959	0.052673	0.034243
Recreational	LPG	VOC	0.005060	0.004984	0.004272	0.002788
Construction	Diesel	VOC	1.638437	1.521344	1.225201	0.767857
Construction	Gasoline	VOC	0.986138	0.860363	0.485975	0.461609
Construction	CNG	VOC	0.000002	0.000002	0.000002	0.000001
Construction	LPG	VOC	0.015459	0.014840	0.009107	0.002618
Industrial	Diesel	VOC	1.571413	1.431169	1.109848	0.634688
Industrial	Gasoline	VOC	2.446532	2.052787	0.976420	0.410519
Industrial	CNG	VOC	0.043546	0.040059	0.020177	0.003197
Industrial	LPG	VOC	8.402664	8.163491	4.716206	0.694492
Lawn and Garden	Diesel	VOC	0.355505	0.342379	0.287544	0.208676
Lawn and Garden	Gasoline	VOC	68.025666	61.439633	42.952427	43.991866
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	9.326664	8.447859	6.532662	3.915839
Farm	Gasoline	VOC	1.690908	1.609398	1.315948	1.067118
Farm	CNG	VOC	0.002737	0.001611	0.000197	0.000005
Farm	LPG	VOC	0.000854	0.000808	0.000538	0.000259
Light Commercial	Diesel	VOC	0.479808	0.465937	0.400841	0.250597
Light Commercial	Gasoline	VOC	6.787701	6.287045	4.764300	5.347240
Light Commercial	CNG	VOC	0.005621	0.002974	0.001409	0.001110
Light Commercial	LPG	VOC	0.116644	0.121329	0.100956	0.054103
Logging	Diesel	VOC	0.650690	0.566376	0.403127	0.193271
Logging	Gasoline	VOC	4.642698	4.401468	2.596844	3.153239
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	0.382484	0.376234	0.338382	0.220398
Railway Maintenance	Gasoline	VOC	0.127901	0.115990	0.086394	0.089611
Railway Maintenance	CNG	VOC	0.000000	0.000000	0.000000	0.000000
Railway Maintenance	LPG	VOC	0.001318	0.001300	0.000973	0.000270
Recreational Marine Vessels	Diesel	VOC	0.108926	0.114347	0.118147	0.116005
Recreational Marine Vessels	Gasoline	VOC	86.042020	79.496568	61.288178	43.566991
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
<b>Juniata County VOC Totals</b>			<b>233.270838</b>	<b>226.209915</b>	<b>186.266038</b>	<b>143.100757</b>

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

Equipment Type	Fuel	Pollutant	Tons/Year			
			2002	2004	2009	2018
Recreational	Diesel	NOx	0.193113	0.195533	0.193665	0.158112
Recreational	Gasoline	NOx	1.430040	1.501328	1.705747	1.830632
Recreational	CNG	NOx	0.193113	0.195533	0.193665	0.158112
Recreational	LPG	NOx	0.018675	0.018356	0.015547	0.010095
Construction	Diesel	NOx	14.178623	13.714724	11.908209	6.186573
Construction	Gasoline	NOx	0.123941	0.114051	0.083076	0.065996
Construction	CNG	NOx	0.000148	0.000147	0.000117	0.000054
Construction	LPG	NOx	0.056693	0.054015	0.032640	0.011340
Industrial	Diesel	NOx	14.859982	14.465243	12.555159	6.442426
Industrial	Gasoline	NOx	1.770518	1.485677	0.705444	0.185460
Industrial	CNG	NOx	2.687420	2.448490	1.222700	0.313916
Industrial	LPG	NOx	30.817235	29.669992	16.703520	3.977474
Lawn and Garden	Diesel	NOx	2.382845	2.473642	2.554542	2.249916
Lawn and Garden	Gasoline	NOx	7.293063	6.981785	5.830864	6.047645
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	76.652938	74.450697	66.970151	42.887893
Farm	Gasoline	NOx	0.742551	0.730369	0.575307	0.424223
Farm	CNG	NOx	0.162471	0.094080	0.011333	0.000264
Farm	LPG	NOx	0.003129	0.002942	0.001931	0.000980
Light Commercial	Diesel	NOx	2.741463	2.808037	2.809338	2.219423
Light Commercial	Gasoline	NOx	1.363709	1.349702	1.186823	1.290582
Light Commercial	CNG	NOx	0.355449	0.195047	0.119678	0.096293
Light Commercial	LPG	NOx	0.538579	0.558648	0.462781	0.267104
Logging	Diesel	NOx	8.948253	7.910700	5.295308	1.109131
Logging	Gasoline	NOx	0.199302	0.212372	0.208739	0.238604
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	1.971745	1.981051	1.900107	1.365854
Railway Maintenance	Gasoline	NOx	0.037309	0.033745	0.027648	0.027628
Railway Maintenance	CNG	NOx	0.000000	0.000000	0.000000	0.000000
Railway Maintenance	LPG	NOx	0.004870	0.004775	0.003490	0.001099
Recreational Marine Vessels	Diesel	NOx	2.850834	3.010817	3.210941	3.387878
Recreational Marine Vessels	Gasoline	NOx	3.819856	4.245330	5.378789	6.940972
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
<b>Juniata County NOx Totals</b>			<b>176.577100</b>	<b>171.074877</b>	<b>141.950638</b>	<b>87.915367</b>

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

Equipment Type	Fuel	Pollutant	Tons/Year			
			2002	2004	2009	2018
Recreational	Diesel	CO	0.229764	0.223982	0.201103	0.132933
Recreational	Gasoline	CO	220.320782	245.619097	292.535692	322.552923
Recreational	CNG	CO	0.229764	0.223982	0.201103	0.132933
Recreational	LPG	CO	0.074714	0.075457	0.069470	0.049377
Construction	Diesel	CO	7.933848	7.305630	6.369770	3.232596
Construction	Gasoline	CO	13.453333	13.584518	13.408526	13.442441
Construction	CNG	CO	0.000591	0.000610	0.000556	0.000311
Construction	LPG	CO	0.228763	0.235080	0.180729	0.064489
Industrial	Diesel	CO	6.743188	6.366770	6.269296	2.295596
Industrial	Gasoline	CO	72.942088	67.206644	48.522427	28.435960
Industrial	CNG	CO	10.962759	11.158602	7.394731	1.737957
Industrial	LPG	CO	124.344123	129.961990	100.398300	23.096710
Lawn and Garden	Diesel	CO	1.247048	1.238494	1.173446	0.907762
Lawn and Garden	Gasoline	CO	978.974824	1022.290623	1115.494439	1293.972908
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	44.617985	41.418383	34.458189	19.162639
Farm	Gasoline	CO	39.578735	40.237593	40.054794	41.276936
Farm	CNG	CO	0.697742	0.412754	0.050955	0.001179
Farm	LPG	CO	0.012651	0.012532	0.009803	0.004818
Light Commercial	Diesel	CO	1.746986	1.733147	1.645378	1.129328
Light Commercial	Gasoline	CO	170.057147	182.589767	213.695088	264.621386
Light Commercial	CNG	CO	1.403257	1.355383	0.437180	0.402936
Light Commercial	LPG	CO	1.577499	1.749331	1.748711	1.108768
Logging	Diesel	CO	3.078529	2.515119	2.069845	0.394951
Logging	Gasoline	CO	34.049399	35.922288	40.438085	52.305367
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	1.628307	1.587828	1.443413	0.910191
Railway Maintenance	Gasoline	CO	4.524002	4.739206	5.132363	5.589213
Railway Maintenance	CNG	CO	0.000000	0.000000	0.000000	0.000000
Railway Maintenance	LPG	CO	0.019481	0.020147	0.017558	0.006991
Recreational Marine Vessels	Diesel	CO	0.456948	0.481460	0.542285	0.650312
Recreational Marine Vessels	Gasoline	CO	220.476279	213.233829	192.540551	170.889789
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
<b>Juniata County CO Totals</b>			<b>1962.336719</b>	<b>2034.245325</b>	<b>2127.031438</b>	<b>2248.622443</b>

Appendix D-2: Juniata 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	0.035922	0.041792	0.068368	0.110727
2260001020	Recreational Equipment	Snowmobiles	2 Stroke	NOx	0.000000	0.000000	0.000000	0.000000
2260001030	Recreational Equipment	ATVs	2 Stroke	NOx	0.036321	0.049981	0.094877	0.160745
2260001060	Recreational Equipment	Specialty Vehicles/Carts	2 Stroke	NOx	0.053734	0.050352	0.041029	0.042278
2260002006	Construction and Mining Equipment	Tampers/Rammers	2 Stroke	NOx	0.001990	0.001913	0.001038	0.001041
2260002009	Construction and Mining Equipment	Plate Compactors	2 Stroke	NOx	0.000029	0.000049	0.000068	0.000070
2260002021	Construction and Mining Equipment	Paving Equipment	2 Stroke	NOx	0.000035	0.000060	0.000081	0.000083
2260002027	Construction and Mining Equipment	Signal Boards/Light Plants	2 Stroke	NOx	0.000000	0.000000	0.000001	0.000001
2260002039	Construction and Mining Equipment	Concrete/Industrial Saws	2 Stroke	NOx	0.004767	0.004317	0.002670	0.002736
2260002054	Construction and Mining Equipment	Crushing/Proc. Equipment	2 Stroke	NOx	0.000008	0.000013	0.000016	0.000016
2260003030	Industrial Equipment	Sweepers/Scrubbers	2 Stroke	NOx	0.000130	0.000188	0.000158	0.000056
2260003040	Industrial Equipment	Other General Industrial Eqp	2 Stroke	NOx	0.000010	0.000015	0.000013	0.000004
2260004015	Lawn and Garden Equipment (Res)	Rotary Tillers < 6 HP	2 Stroke	NOx	0.000446	0.000584	0.001109	0.001399
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	0.005818	0.008355	0.016031	0.019167
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	0.008928	0.012276	0.022505	0.026871
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	0.005313	0.007568	0.014380	0.017177
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	0.001461	0.001523	0.001676	0.001953
2260004036	Lawn and Garden Equipment (Com)	Snowblowers	2 Stroke	NOx	0.003354	0.003496	0.003847	0.004482
2260004071	Lawn and Garden Equipment (Com)	Commercial Turf Equipment	2 Stroke	NOx	0.000008	0.000014	0.000022	0.000026
2260005035	Agricultural Equipment	Sprayers	2 Stroke	NOx	0.000435	0.000661	0.001069	0.001213
2260006005	Commercial Equipment	Generator Sets	2 Stroke	NOx	0.000379	0.000667	0.001069	0.001326
2260006010	Commercial Equipment	Pumps	2 Stroke	NOx	0.003009	0.005099	0.007280	0.009012
2260006015	Commercial Equipment	Air Compressors	2 Stroke	NOx	0.000001	0.000002	0.000003	0.000004
2260006035	Commercial Equipment	Hydro Power Units	2 Stroke	NOx	0.000018	0.000032	0.000044	0.000054
2260007005	Logging Equipment	Chain Saws > 6 HP	2 Stroke	NOx	0.045055	0.043609	0.028478	0.036066
2265001010	Recreational Equipment	Motorcycles: Off-Road	4 Stroke	NOx	0.059905	0.069695	0.088632	0.098029
2265001030	Recreational Equipment	ATVs	4 Stroke	NOx	0.540802	0.655866	0.806228	0.778176
2265001050	Recreational Equipment	Golf Carts	4 Stroke	NOx	0.647736	0.576417	0.549160	0.585476
2265001060	Recreational Equipment	Specialty Vehicles/Carts	4 Stroke	NOx	0.055621	0.057226	0.057453	0.055200
2265002003	Construction and Mining Equipment	Pavers	4 Stroke	NOx	0.004296	0.003834	0.002775	0.002110
2265002006	Construction and Mining Equipment	Tampers/Rammers	4 Stroke	NOx	0.000024	0.000022	0.000017	0.000017
2265002009	Construction and Mining Equipment	Plate Compactors	4 Stroke	NOx	0.005103	0.004883	0.003422	0.003183
2265002015	Construction and Mining Equipment	Rollers	4 Stroke	NOx	0.007361	0.006472	0.004453	0.003689
2265002021	Construction and Mining Equipment	Paving Equipment	4 Stroke	NOx	0.010718	0.010006	0.007716	0.007341
2265002024	Construction and Mining Equipment	Surfacing Equipment	4 Stroke	NOx	0.004454	0.003968	0.003161	0.003123
2265002027	Construction and Mining Equipment	Signal Boards/Light Plants	4 Stroke	NOx	0.000209	0.000191	0.000143	0.000147
2265002030	Construction and Mining Equipment	Trenchers	4 Stroke	NOx	0.012968	0.011769	0.008272	0.006110
2265002033	Construction and Mining Equipment	Bore/Drill Rigs	4 Stroke	NOx	0.004075	0.004014	0.002999	0.002232
2265002039	Construction and Mining Equipment	Concrete/Industrial Saws	4 Stroke	NOx	0.022055	0.019263	0.014857	0.014336
2265002042	Construction and Mining Equipment	Cement & Mortar Mixers	4 Stroke	NOx	0.008326	0.008572	0.007239	0.006319
2265002045	Construction and Mining Equipment	Cranes	4 Stroke	NOx	0.002135	0.002033	0.001510	0.000625
2265002054	Construction and Mining Equipment	Crushing/Proc. Equipment	4 Stroke	NOx	0.001442	0.001294	0.001039	0.000905
2265002057	Construction and Mining Equipment	Rough Terrain Forklifts	4 Stroke	NOx	0.003679	0.003456	0.002203	0.000579
2265002060	Construction and Mining Equipment	Rubber Tire Loaders	4 Stroke	NOx	0.009104	0.008376	0.004368	0.000934
2265002066	Construction and Mining Equipment	Tractors/Loaders/Backhoes	4 Stroke	NOx	0.006916	0.006017	0.004992	0.004814
2265002072	Construction and Mining Equipment	Skid Steer Loaders	4 Stroke	NOx	0.009707	0.009083	0.006502	0.003482
2265002078	Construction and Mining Equipment	Dumpers/Tenders	4 Stroke	NOx	0.001364	0.001391	0.001215	0.001088
2265002081	Construction and Mining Equipment	Other Construction Equipment	4 Stroke	NOx	0.003177	0.003053	0.002319	0.001017
2265003010	Industrial Equipment	Aerial Lifts	4 Stroke	NOx	0.231934	0.200917	0.122893	0.037007
2265003020	Industrial Equipment	Forklifts	4 Stroke	NOx	0.979129	0.824210	0.358917	0.027118
2265003030	Industrial Equipment	Sweepers/Scrubbers	4 Stroke	NOx	0.174356	0.139869	0.049115	0.008279
2265003040	Industrial Equipment	Other General Industrial Eqp	4 Stroke	NOx	0.153998	0.128188	0.058777	0.016993
2265003050	Industrial Equipment	Other Material Handling Eqp	4 Stroke	NOx	0.015376	0.013161	0.007934	0.001894
2265003060	Industrial Equipment	AC/Refrigeration	4 Stroke	NOx	0.001939	0.001466	0.000876	0.000310
2265003070	Industrial Equipment	Terminal Tractors	4 Stroke	NOx	0.101121	0.079422	0.016048	0.002021
2265004010	Lawn and Garden Equipment (Res)	Lawn mowers	4 Stroke	NOx	0.466974	0.502297	0.454181	0.337380
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	0.039628	0.042560	0.038299	0.028271
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	0.002683	0.002833	0.002372	0.001866
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	0.005149	0.005436	0.004536	0.003560
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	0.047641	0.049650	0.054640	0.063662
2265004036	Lawn and Garden Equipment (Com)	Snowblowers	4 Stroke	NOx	0.109358	0.113971	0.125426	0.146134
2265004040	Lawn and Garden Equipment (Res)	Rear Engine Riding Mowers	4 Stroke	NOx	0.121808	0.118562	0.105174	0.117700
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	1.673531	1.624876	1.415990	1.578669
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	0.045890	0.049336	0.048412	0.043136
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	0.007771	0.006756	0.006285	0.007116
2265005015	Agricultural Equipment	Agricultural Tractors	4 Stroke	NOx	0.086522	0.081151	0.047253	0.016091
2265005020	Agricultural Equipment	Combines	4 Stroke	NOx	0.000651	0.000649	0.000565	0.000384

Appendix D-2: Juniata 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	0.061503	0.061304	0.053386	0.036344
2265005030	Agricultural Equipment	Agricultural Mowers	4 Stroke	NOx	0.006351	0.006196	0.005468	0.005861
2265005035	Agricultural Equipment	Sprayers	4 Stroke	NOx	0.100055	0.101907	0.091018	0.073448
2265005040	Agricultural Equipment	Tillers > 6 HP	4 Stroke	NOx	0.095911	0.101628	0.113098	0.133024
2265005045	Agricultural Equipment	Swathers	4 Stroke	NOx	0.097415	0.097099	0.084559	0.057566
2265005055	Agricultural Equipment	Other Agricultural Equipment	4 Stroke	NOx	0.116455	0.116096	0.101527	0.072831
2265005060	Agricultural Equipment	Irrigation Sets	4 Stroke	NOx	0.169482	0.156921	0.071077	0.020345
2265006005	Commercial Equipment	Generator Sets	4 Stroke	NOx	0.578637	0.587039	0.548512	0.634606
2265006010	Commercial Equipment	Pumps	4 Stroke	NOx	0.175117	0.171329	0.136620	0.138016
2265006015	Commercial Equipment	Air Compressors	4 Stroke	NOx	0.120674	0.116778	0.088407	0.069283
2265006025	Commercial Equipment	Welders	4 Stroke	NOx	0.217887	0.205454	0.182296	0.177177
2265006030	Commercial Equipment	Pressure Washers	4 Stroke	NOx	0.255264	0.251424	0.211754	0.248117
2265006035	Commercial Equipment	Hydro Power Units	4 Stroke	NOx	0.012723	0.011879	0.010836	0.012987
2265007010	Logging Equipment	Shredders > 6 HP	4 Stroke	NOx	0.152532	0.167022	0.178919	0.200837
2265007015	Logging Equipment	Forest Eq - Feller/Bunch/Skidder	4 Stroke	NOx	0.001715	0.001740	0.001343	0.001701
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	0.112524	0.098240	0.090713	0.091777
2267001060	Recreational Equipment	Specialty Vehicle Carts	LPG	NOx	0.018675	0.018356	0.015547	0.010095
2267002003	Construction and Mining Equipment	Pavers	LPG	NOx	0.002335	0.002226	0.001297	0.000359
2267002015	Construction and Mining Equipment	Rollers	LPG	NOx	0.003934	0.003609	0.001541	0.000420
2267002021	Construction and Mining Equipment	Paving Equipment	LPG	NOx	0.000616	0.000607	0.000470	0.000193
2267002024	Construction and Mining Equipment	Surfacing Equipment	LPG	NOx	0.000402	0.000380	0.000206	0.000059
2267002030	Construction and Mining Equipment	Trenchers	LPG	NOx	0.007148	0.006843	0.004143	0.001115
2267002033	Construction and Mining Equipment	Bore/Drill Rigs	LPG	NOx	0.002353	0.002357	0.002050	0.001361
2267002039	Construction and Mining Equipment	Concrete/Industrial Saws	LPG	NOx	0.006814	0.006007	0.001823	0.000697
2267002045	Construction and Mining Equipment	Cranes	LPG	NOx	0.002517	0.002481	0.001916	0.000768
2267002054	Construction and Mining Equipment	Crushing/Proc. Equipment	LPG	NOx	0.000419	0.000412	0.000313	0.000113
2267002057	Construction and Mining Equipment	Rough Terrain Forklifts	LPG	NOx	0.004545	0.004400	0.002932	0.000787
2267002060	Construction and Mining Equipment	Rubber Tire Loaders	LPG	NOx	0.011308	0.010721	0.005855	0.001293
2267002066	Construction and Mining Equipment	Tractors/Loaders/Backhoes	LPG	NOx	0.001201	0.001118	0.000514	0.000126
2267002072	Construction and Mining Equipment	Skid Steer Loaders	LPG	NOx	0.009344	0.009134	0.006621	0.002683
2267002081	Construction and Mining Equipment	Other Construction Equipment	LPG	NOx	0.003757	0.003718	0.002958	0.001367
2267003010	Industrial Equipment	Aerial Lifts	LPG	NOx	0.318732	0.318752	0.251871	0.122550
2267003020	Industrial Equipment	Forklifts	LPG	NOx	30.041939	28.930294	16.285998	3.798789
2267003030	Industrial Equipment	Sweepers/Scrubbers	LPG	NOx	0.229245	0.211597	0.085009	0.027091
2267003040	Industrial Equipment	Other General Industrial Equipm	LPG	NOx	0.070110	0.066184	0.031979	0.008334
2267003050	Industrial Equipment	Other Material Handling Equipment	LPG	NOx	0.017215	0.017182	0.013343	0.004994
2267003070	Industrial Equipment	Terminal Tractors	LPG	NOx	0.139993	0.125983	0.035319	0.015716
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	0.001699	0.001651	0.001378	0.000868
2267005060	Agricultural Equipment	Irrigation Sets	LPG	NOx	0.001430	0.001291	0.000553	0.000112
2267006005	Commercial Equipment	Generator Sets	LPG	NOx	0.287606	0.302474	0.277486	0.200227
2267006010	Commercial Equipment	Pumps	LPG	NOx	0.066977	0.068802	0.053517	0.026801
2267006015	Commercial Equipment	Air Compressors	LPG	NOx	0.080747	0.081629	0.055839	0.017156
2267006025	Commercial Equipment	Welders	LPG	NOx	0.100672	0.103118	0.074057	0.022081
2267006030	Commercial Equipment	Pressure Washers	LPG	NOx	0.001323	0.001384	0.001180	0.000590
2267006035	Commercial Equipment	Hydro Power Units	LPG	NOx	0.001254	0.001242	0.000701	0.000249
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	0.000148	0.000147	0.000117	0.000054
2268003020	Industrial Equipment	Forklifts	CNG	NOx	2.187289	2.087189	1.166701	0.272477
2268003030	Industrial Equipment	Sweepers/Scrubbers	CNG	NOx	0.002614	0.002491	0.001376	0.000320
2268003040	Industrial Equipment	Other General Industrial Equipment	CNG	NOx	0.001709	0.001620	0.000841	0.000202
2268003060	Industrial Equipment	AC\Refrigeration	CNG	NOx	0.002898	0.002705	0.001213	0.000381
2268003070	Industrial Equipment	Terminal Tractors	CNG	NOx	0.009855	0.008800	0.002452	0.001093
2268005055	Agricultural Equipment	Other Agricultural Equipment	CNG	NOx	0.002055	0.001679	0.000939	0.000264
2268005060	Agricultural Equipment	Irrigation Sets	CNG	NOx	0.160416	0.092401	0.010394	0.000000
2268006005	Commercial Equipment	Generator Sets	CNG	NOx	0.094268	0.096048	0.085739	0.060900
2268006010	Commercial Equipment	Pumps	CNG	NOx	0.004727	0.004738	0.003797	0.002050
2268006015	Commercial Equipment	Air Compressors	CNG	NOx	0.006761	0.006625	0.004454	0.001243
2268006020	Commercial Equipment	Gas Compressors	CNG	NOx	0.249693	0.087635	0.025687	0.032100
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	0.483056	0.345685	0.050118	0.039443
2270001060	Recreational Equipment	Specialty Vehicle Carts	Diesel	NOx	0.193113	0.195533	0.193665	0.158112
2270002003	Construction and Mining Equipment	Pavers	Diesel	NOx	0.188488	0.179858	0.153530	0.070309
2270002006	Construction and Mining Equipment	Tampers/Rammers	Diesel	NOx	0.000414	0.000404	0.000347	0.000297
2270002009	Construction and Mining Equipment	Plate Compactors	Diesel	NOx	0.006462	0.006283	0.005441	0.004870
2270002015	Construction and Mining Equipment	Rollers	Diesel	NOx	0.467671	0.451592	0.396501	0.200075
2270002018	Construction and Mining Equipment	Scrapers	Diesel	NOx	0.541456	0.520369	0.432813	0.189558
2270002021	Construction and Mining Equipment	Paving Equipment	Diesel	NOx	0.029807	0.028811	0.024980	0.014195
2270002024	Construction and Mining Equipment	Surfacing Equipment	Diesel	NOx	0.020084	0.019737	0.018062	0.012332
2270002027	Construction and Mining Equipment	Signal Boards/Light Plants	Diesel	NOx	0.056477	0.055145	0.050142	0.046968
2270002030	Construction and Mining Equipment	Trenchers	Diesel	NOx	0.217554	0.215058	0.200075	0.139556
2270002033	Construction and Mining Equipment	Bore/Drill Rigs	Diesel	NOx	0.258285	0.256001	0.236492	0.166340
2270002036	Construction and Mining Equipment	Excavators	Diesel	NOx	1.869344	1.760903	1.445344	0.495467
2270002039	Construction and Mining Equipment	Concrete/Industrial Saws	Diesel	NOx	0.014628	0.014432	0.013738	0.010059
2270002042	Construction and Mining Equipment	Cement & Mortar Mixers	Diesel	NOx	0.009704	0.009677	0.009143	0.007032
2270002045	Construction and Mining Equipment	Cranes	Diesel	NOx	0.509078	0.488955	0.410083	0.190111
2270002048	Construction and Mining Equipment	Graders	Diesel	NOx	0.474975	0.444373	0.363826	0.123440
2270002051	Construction and Mining Equipment	Off-highway Trucks	Diesel	NOx	1.763142	1.706018	1.427718	0.706081
2270002054	Construction and Mining Equipment	Crushing/Proc. Equipment	Diesel	NOx	0.089380	0.086742	0.075155	0.041938
2270002057	Construction and Mining Equipment	Rough Terrain Forklifts	Diesel	NOx	0.597525	0.589981	0.533355	0.277218
2270002060	Construction and Mining Equipment	Rubber Tire Loaders	Diesel	NOx	2.289041	2.210660	1.906524	0.963288

Appendix D-2: Juniata 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	1.390697	1.376220	1.288515	0.852584
2270002069	Construction and Mining Equipment	Crawler Tractor/Dozers	Diesel	NOx	2.011350	1.924033	1.622673	0.712796
2270002072	Construction and Mining Equipment	Skid Steer Loaders	Diesel	NOx	0.891674	0.899521	0.880292	0.718647
2270002075	Construction and Mining Equipment	Off-Highway Tractors	Diesel	NOx	0.242768	0.237567	0.209081	0.123074
2270002078	Construction and Mining Equipment	Dumpers/Tenders	Diesel	NOx	0.002870	0.002892	0.002842	0.002342
2270002081	Construction and Mining Equipment	Other Construction Equipment	Diesel	NOx	0.235747	0.229492	0.201537	0.117996
2270003010	Industrial Equipment	Aerial Lifts	Diesel	NOx	0.331402	0.332298	0.320701	0.268930
2270003020	Industrial Equipment	Forklifts	Diesel	NOx	3.497311	3.465455	2.967909	1.109708
2270003030	Industrial Equipment	Sweepers/Scrubbers	Diesel	NOx	1.854144	1.773699	1.540102	0.646345
2270003040	Industrial Equipment	Other General Industrial Eqp	Diesel	NOx	2.111704	2.044070	1.748693	0.869098
2270003050	Industrial Equipment	Other Material Handling Eqp	Diesel	NOx	0.097671	0.096354	0.088564	0.062495
2270003060	Industrial Equipment	AC\Refrigeration	Diesel	NOx	3.267938	3.240464	3.088316	2.540221
2270003070	Industrial Equipment	Terminal Tractors	Diesel	NOx	2.392749	2.296571	1.856956	0.515599
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	0.039999	0.041732	0.042518	0.032450
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	0.001540	0.001431	0.001111	0.001133
2270005015	Agricultural Equipment	Agricultural Tractors	Diesel	NOx	66.641497	64.600536	57.969115	36.845388
2270005020	Agricultural Equipment	Combines	Diesel	NOx	6.756785	6.637906	6.057537	4.121951
2270005025	Agricultural Equipment	Balers	Diesel	NOx	0.028962	0.029334	0.029026	0.023800
2270005030	Agricultural Equipment	Agricultural Mowers	Diesel	NOx	0.006175	0.006105	0.005687	0.003961
2270005035	Agricultural Equipment	Sprayers	Diesel	NOx	0.478858	0.481056	0.463427	0.335374
2270005040	Agricultural Equipment	Tillers > 6 HP	Diesel	NOx	0.000788	0.000790	0.000753	0.000539
2270005045	Agricultural Equipment	Swathers	Diesel	NOx	0.473107	0.468976	0.440768	0.322144
2270005055	Agricultural Equipment	Other Agricultural Equipment	Diesel	NOx	1.392104	1.360785	1.222368	0.798114
2270005060	Agricultural Equipment	Irrigation Sets	Diesel	NOx	0.873123	0.863776	0.780358	0.435489
2270006005	Commercial Equipment	Generator Sets	Diesel	NOx	1.252196	1.285814	1.303956	1.091980
2270006010	Commercial Equipment	Pumps	Diesel	NOx	0.298106	0.306074	0.308942	0.254500
2270006015	Commercial Equipment	Air Compressors	Diesel	NOx	0.752453	0.764290	0.732427	0.465448
2270006020	Commercial Equipment	Gas Compressors	Diesel	NOx	0.000000	0.000000	0.000000	0.000000
2270006025	Commercial Equipment	Welders	Diesel	NOx	0.364330	0.376061	0.389003	0.349349
2270006030	Commercial Equipment	Pressure Washers	Diesel	NOx	0.041830	0.042884	0.043342	0.036549
2270006035	Commercial Equipment	Hydro Power Units	Diesel	NOx	0.032547	0.032915	0.031668	0.021596
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	8.948253	7.910700	5.295308	1.109131
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	1.307063	1.216332	0.943917	0.430030
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	0.965118	1.164422	1.708430	2.434603
2282005015	Pleasure Craft	Personal Water Craft	2 Stroke	NOx	0.270197	0.357080	0.557953	0.720483
2282010005	Pleasure Craft	Inboard/Stern Drive	4 Stroke	NOx	2.584541	2.723827	3.112406	3.785887
2282020005	Pleasure Craft	Inboard/Stern Drive	Diesel	NOx	2.840139	2.999883	3.199554	3.375818
2282020010	Pleasure Craft	Outboards	Diesel	NOx	0.010694	0.010934	0.011387	0.012060
2285002005	Railroad Equipment	Line Haul Locomotives	Diesel	NOx				
2285002010	Railroad Equipment	Yard Locomotive	Diesel	NOx				
2285002015	Railroad Equipment	Railway Maintenance	Diesel	NOx	1.971745	1.981051	1.900107	1.365854
2285004015	Railroad Equipment	Railway Maintenance	4 Stroke	NOx	0.037309	0.033745	0.027648	0.027628
2285006015	Railroad Equipment	Railway Maintenance	LPG	NOx	0.004870	0.004775	0.003490	0.001099
<b>Juniata County Total Annual NOx Emissions</b>					<b>176.383986</b>	<b>170.879344</b>	<b>141.756974</b>	<b>87.757255</b>

Appendix D-2: Juniata 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	15.010593	17.430126	19.971402	16.197280
2260001020	Recreational Equipment	Snowmobiles	2 Stroke	VOC	0.000000	0.000000	0.000000	0.000000
2260001030	Recreational Equipment	ATVs	2 Stroke	VOC	14.985477	20.691269	24.812547	9.990205
2260001060	Recreational Equipment	Specialty Vehicles/Carts	2 Stroke	VOC	0.300385	0.279705	0.238153	0.243472
2260002006	Construction and Mining Equipment	Tampers/Rammers	2 Stroke	VOC	0.166343	0.159252	0.071708	0.071137
2260002009	Construction and Mining Equipment	Plate Compactors	2 Stroke	VOC	0.010074	0.006096	0.002516	0.002578
2260002021	Construction and Mining Equipment	Paving Equipment	2 Stroke	VOC	0.012005	0.007062	0.002996	0.003069
2260002027	Construction and Mining Equipment	Signal Boards/Light Plants	2 Stroke	VOC	0.000086	0.000047	0.000026	0.000026
2260002039	Construction and Mining Equipment	Concrete/Industrial Saws	2 Stroke	VOC	0.444320	0.365651	0.177262	0.181623
2260002054	Construction and Mining Equipment	Crushing/Proc. Equipment	2 Stroke	VOC	0.002229	0.001190	0.000606	0.000621
2260003030	Industrial Equipment	Sweepers/Scrubbers	2 Stroke	VOC	0.034546	0.016060	0.006105	0.002164
2260003040	Industrial Equipment	Other General Industrial Eqp	2 Stroke	VOC	0.002742	0.001270	0.000480	0.000170
2260004015	Lawn and Garden Equipment (Res)	Rotary Tillers < 6 HP	2 Stroke	VOC	0.174172	0.151061	0.067565	0.055874
2260004016	Lawn and Garden Equipment (Com)	Rotary Tillers < 6 HP	2 Stroke	VOC	0.712799	0.587619	0.198013	0.194521
2260004020	Lawn and Garden Equipment (Res)	Chain Saws < 6 HP	2 Stroke	VOC	2.250430	1.865509	0.676577	0.686289
2260004021	Lawn and Garden Equipment (Com)	Chain Saws < 6 HP	2 Stroke	VOC	8.584513	7.371543	3.709060	4.321458
2260004025	Lawn and Garden Equipment (Res)	Trimmers/Edgers/Brush Cutter	2 Stroke	VOC	3.314648	2.773539	1.070926	1.100091
2260004026	Lawn and Garden Equipment (Com)	Trimmers/Edgers/Brush Cutter	2 Stroke	VOC	6.762110	4.927615	1.887225	2.185959
2260004030	Lawn and Garden Equipment (Res)	Leafblowers/Vacuums	2 Stroke	VOC	2.179759	1.837893	0.775930	0.813801
2260004031	Lawn and Garden Equipment (Com)	Leafblowers/Vacuums	2 Stroke	VOC	6.486511	5.239629	2.202820	2.520238
2260004035	Lawn and Garden Equipment (Res)	Snowblowers	2 Stroke	VOC	1.401470	1.460725	1.607785	1.873601
2260004036	Lawn and Garden Equipment (Com)	Snowblowers	2 Stroke	VOC	2.846886	2.967290	3.266092	3.806173
2260004071	Lawn and Garden Equipment (Com)	Commercial Turf Equipment	2 Stroke	VOC	0.002916	0.002036	0.000732	0.000853
2260005035	Agricultural Equipment	Sprayers	2 Stroke	VOC	0.152241	0.110586	0.038131	0.042576
2260006005	Commercial Equipment	Generator Sets	2 Stroke	VOC	0.130856	0.086231	0.037610	0.046651
2260006010	Commercial Equipment	Pumps	2 Stroke	VOC	0.897192	0.519494	0.273809	0.330226
2260006015	Commercial Equipment	Air Compressors	2 Stroke	VOC	0.000318	0.000175	0.000105	0.000130
2260006035	Commercial Equipment	Hydro Power Units	2 Stroke	VOC	0.004962	0.002749	0.001621	0.002011
2260007005	Logging Equipment	Chain Saws > 6 HP	2 Stroke	VOC	3.903937	3.695003	1.974155	2.500197
2265001010	Recreational Equipment	Motorcycles: Off-Road	4 Stroke	VOC	0.558270	0.626864	0.755472	0.769352
2265001030	Recreational Equipment	ATVs	4 Stroke	VOC	5.828519	6.834387	8.449977	8.427920
2265001050	Recreational Equipment	Golf Carts	4 Stroke	VOC	2.227744	1.983030	1.889648	2.014610
2265001060	Recreational Equipment	Specialty Vehicles/Carts	4 Stroke	VOC	0.329946	0.317927	0.283865	0.231824
2265002003	Construction and Mining Equipment	Pavers	4 Stroke	VOC	0.009183	0.008072	0.006055	0.005620
2265002006	Construction and Mining Equipment	Tampers/Rammers	4 Stroke	VOC	0.000078	0.000068	0.000053	0.000054
2265002009	Construction and Mining Equipment	Plate Compactors	4 Stroke	VOC	0.036049	0.035232	0.021574	0.017858
2265002015	Construction and Mining Equipment	Rollers	4 Stroke	VOC	0.014865	0.012830	0.010359	0.009931
2265002021	Construction and Mining Equipment	Paving Equipment	4 Stroke	VOC	0.050138	0.046239	0.030900	0.028902
2265002024	Construction and Mining Equipment	Surfacing Equipment	4 Stroke	VOC	0.018556	0.017111	0.011251	0.011432
2265002027	Construction and Mining Equipment	Signal Boards/Light Plants	4 Stroke	VOC	0.001299	0.001246	0.000712	0.000729
2265002030	Construction and Mining Equipment	Trenchers	4 Stroke	VOC	0.036715	0.033976	0.021182	0.019827
2265002033	Construction and Mining Equipment	Bore/Drill Rigs	4 Stroke	VOC	0.021461	0.021314	0.013511	0.010411
2265002039	Construction and Mining Equipment	Concrete/Industrial Saws	4 Stroke	VOC	0.053626	0.046224	0.039858	0.040168
2265002042	Construction and Mining Equipment	Cement & Mortar Mixers	4 Stroke	VOC	0.053528	0.049006	0.038429	0.029594
2265002045	Construction and Mining Equipment	Cranes	4 Stroke	VOC	0.001851	0.001737	0.001323	0.000628
2265002054	Construction and Mining Equipment	Crushing/Proc. Equipment	4 Stroke	VOC	0.004849	0.004426	0.002979	0.002927
2265002057	Construction and Mining Equipment	Rough Terrain Forklifts	4 Stroke	VOC	0.002758	0.002589	0.001654	0.000368
2265002060	Construction and Mining Equipment	Rubber Tire Loaders	4 Stroke	VOC	0.006667	0.006139	0.003136	0.000425
2265002066	Construction and Mining Equipment	Tractors/Loaders/Backhoes	4 Stroke	VOC	0.018007	0.015376	0.013239	0.013330
2265002072	Construction and Mining Equipment	Skid Steer Loaders	4 Stroke	VOC	0.012463	0.011256	0.008376	0.006003
2265002078	Construction and Mining Equipment	Dumpers/Tenders	4 Stroke	VOC	0.007483	0.006815	0.005415	0.004529
2265002081	Construction and Mining Equipment	Other Construction Equipment	4 Stroke	VOC	0.002384	0.002293	0.001754	0.000737
2265003010	Industrial Equipment	Aerial Lifts	4 Stroke	VOC	0.253389	0.212014	0.126748	0.039850
2265003020	Industrial Equipment	Forklifts	4 Stroke	VOC	0.718536	0.606101	0.261892	0.014076
2265003030	Industrial Equipment	Sweepers/Scrubbers	4 Stroke	VOC	0.222714	0.179055	0.070535	0.017853
2265003040	Industrial Equipment	Other General Industrial Eqp	4 Stroke	VOC	0.795520	0.688633	0.242902	0.083084
2265003050	Industrial Equipment	Other Material Handling Eqp	4 Stroke	VOC	0.018053	0.014849	0.008803	0.002397
2265003060	Industrial Equipment	AC/Refrigeration	4 Stroke	VOC	0.006259	0.004762	0.002855	0.001017
2265003070	Industrial Equipment	Terminal Tractors	4 Stroke	VOC	0.074015	0.058131	0.009935	0.000856
2265004010	Lawn and Garden Equipment (Res)	Lawn mowers	4 Stroke	VOC	6.427927	6.378415	5.944958	4.406862
2265004011	Lawn and Garden Equipment (Com)	Lawn mowers	4 Stroke	VOC	3.659185	3.813601	2.178898	2.034301
2265004015	Lawn and Garden Equipment (Res)	Rotary Tillers < 6 HP	4 Stroke	VOC	0.536307	0.536300	0.494994	0.349722
2265004016	Lawn and Garden Equipment (Com)	Rotary Tillers < 6 HP	4 Stroke	VOC	1.752771	1.737453	1.471314	0.924082
2265004025	Lawn and Garden Equipment (Res)	Trimmers/Edgers/Brush Cutter	4 Stroke	VOC	0.033604	0.034396	0.030490	0.022967
2265004026	Lawn and Garden Equipment (Com)	Trimmers/Edgers/Brush Cutter	4 Stroke	VOC	0.060451	0.060686	0.039274	0.036284
2265004030	Lawn and Garden Equipment (Res)	Leafblowers/Vacuums	4 Stroke	VOC	0.068188	0.069834	0.061993	0.047357
2265004031	Lawn and Garden Equipment (Com)	Leafblowers/Vacuums	4 Stroke	VOC	1.216960	1.080638	0.901837	0.916069
2265004035	Lawn and Garden Equipment (Res)	Snowblowers	4 Stroke	VOC	0.504893	0.526227	0.579178	0.674896
2265004036	Lawn and Garden Equipment (Com)	Snowblowers	4 Stroke	VOC	0.429373	0.447571	0.492698	0.574254
2265004040	Lawn and Garden Equipment (Res)	Rear Engine Riding Mowers	4 Stroke	VOC	0.609472	0.595082	0.566959	0.643304
2265004041	Lawn and Garden Equipment (Com)	Rear Engine Riding Mowers	4 Stroke	VOC	0.140468	0.124146	0.114050	0.132734
2265004046	Lawn and Garden Equipment (Com)	Front Mowers	4 Stroke	VOC	0.223432	0.211991	0.186464	0.190010
2265004051	Lawn and Garden Equipment (Com)	Shredders < 6 HP	4 Stroke	VOC	0.212647	0.206746	0.180425	0.112832
2265004055	Lawn and Garden Equipment (Res)	Lawn & Garden Tractors	4 Stroke	VOC	7.319992	7.022510	6.402517	7.213326
2265004056	Lawn and Garden Equipment (Com)	Lawn & Garden Tractors	4 Stroke	VOC	1.903161	1.643535	1.470690	1.711225
2265004066	Lawn and Garden Equipment (Com)	Chippers/Stamp Grinders	4 Stroke	VOC	0.288294	0.259438	0.195935	0.177324
2265004071	Lawn and Garden Equipment (Com)	Commercial Turf Equipment	4 Stroke	VOC	7.046755	6.662645	5.417503	5.684506
2265004075	Lawn and Garden Equipment (Res)	Other Lawn & Garden Eqp.	4 Stroke	VOC	0.409757	0.394956	0.355459	0.271940
2265004076	Lawn and Garden Equipment (Com)	Other Lawn & Garden Eqp.	4 Stroke	VOC	0.465814	0.449004	0.404065	0.309015
2265005010	Agricultural Equipment	2-Wheel Tractors	4 Stroke	VOC	0.023062	0.019806	0.018130	0.020531
2265005015	Agricultural Equipment	Agricultural Tractors	4 Stroke	VOC	0.075493	0.069580	0.043300	0.020179
2265005020	Agricultural Equipment	Combines	4 Stroke	VOC	0.000540	0.000541	0.000478	0.000325

Appendix D-2: Juniata 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	0.055699	0.055963	0.049753	0.033854
2265005030	Agricultural Equipment	Agricultural Mowers	4 Stroke	VOC	0.023681	0.021255	0.017435	0.018249
2265005035	Agricultural Equipment	Sprayers	4 Stroke	VOC	0.343353	0.333103	0.278377	0.220801
2265005040	Agricultural Equipment	Tillers > 6 HP	4 Stroke	VOC	0.667054	0.661129	0.632974	0.558125
2265005045	Agricultural Equipment	Swathers	4 Stroke	VOC	0.081523	0.081726	0.072315	0.049111
2265005055	Agricultural Equipment	Other Agricultural Equipment	4 Stroke	VOC	0.130340	0.126603	0.108414	0.085824
2265005060	Agricultural Equipment	Irrigation Sets	4 Stroke	VOC	0.137924	0.129106	0.056642	0.017545
2265006005	Commercial Equipment	Generator Sets	4 Stroke	VOC	2.659805	2.593672	2.225378	2.469017
2265006010	Commercial Equipment	Pumps	4 Stroke	VOC	0.805100	0.820857	0.495225	0.580627
2265006015	Commercial Equipment	Air Compressors	4 Stroke	VOC	0.325548	0.325818	0.220465	0.248686
2265006025	Commercial Equipment	Welders	4 Stroke	VOC	0.505958	0.469961	0.440478	0.507300
2265006030	Commercial Equipment	Pressure Washers	4 Stroke	VOC	1.408237	1.420069	1.031335	1.115428
2265006035	Commercial Equipment	Hydro Power Units	4 Stroke	VOC	0.049725	0.048018	0.038273	0.047165
2265007010	Logging Equipment	Shredders > 6 HP	4 Stroke	VOC	0.725672	0.692723	0.615367	0.643768
2265007015	Logging Equipment	Forest Eq - Feller/Bunch/Skidder	4 Stroke	VOC	0.013089	0.013742	0.007322	0.009274
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	0.320757	0.271911	0.246166	0.249052
2267001060	Recreational Equipment	Specialty Vehicle Carts	LPG	VOC	0.005060	0.004984	0.004272	0.002788
2267002003	Construction and Mining Equipment	Pavers	LPG	VOC	0.000637	0.000612	0.000363	0.000075
2267002015	Construction and Mining Equipment	Rollers	LPG	VOC	0.001080	0.001002	0.000432	0.000067
2267002021	Construction and Mining Equipment	Paving Equipment	LPG	VOC	0.000167	0.000165	0.000130	0.000051
2267002024	Construction and Mining Equipment	Surfacing Equipment	LPG	VOC	0.000110	0.000105	0.000058	0.000012
2267002030	Construction and Mining Equipment	Trenchers	LPG	VOC	0.001948	0.001879	0.001162	0.000234
2267002033	Construction and Mining Equipment	Bore/Drill Rigs	LPG	VOC	0.000632	0.000636	0.000561	0.000373
2267002039	Construction and Mining Equipment	Concrete/Industrial Saws	LPG	VOC	0.001888	0.001689	0.000500	0.000106
2267002045	Construction and Mining Equipment	Cranes	LPG	VOC	0.000681	0.000675	0.000531	0.000201
2267002054	Construction and Mining Equipment	Crushing/Proc. Equipment	LPG	VOC	0.000113	0.000112	0.000087	0.000029
2267002057	Construction and Mining Equipment	Rough Terrain Forklifts	LPG	VOC	0.001235	0.001204	0.000821	0.000174
2267002060	Construction and Mining Equipment	Rubber Tire Loaders	LPG	VOC	0.003091	0.002955	0.001657	0.000222
2267002066	Construction and Mining Equipment	Tractors/Loaders/Backhoes	LPG	VOC	0.000330	0.000310	0.000146	0.000020
2267002072	Construction and Mining Equipment	Skid Steer Loaders	LPG	VOC	0.002533	0.002490	0.001840	0.000688
2267002081	Construction and Mining Equipment	Other Construction Equipment	LPG	VOC	0.001015	0.001009	0.000818	0.000366
2267003010	Industrial Equipment	Aerial Lifts	LPG	VOC	0.085856	0.086362	0.069592	0.032312
2267003020	Industrial Equipment	Forklifts	LPG	VOC	8.191287	7.959961	4.600375	6.652833
2267003030	Industrial Equipment	Sweepers/Scrubbers	LPG	VOC	0.063090	0.058955	0.023779	0.004354
2267003040	Industrial Equipment	Other General Industrial Equipm	LPG	VOC	0.019170	0.018286	0.009003	0.001349
2267003050	Industrial Equipment	Other Material Handling Equipment	LPG	VOC	0.004642	0.004661	0.003699	0.001275
2267003070	Industrial Equipment	Terminal Tractors	LPG	VOC	0.038620	0.035266	0.009757	0.002370
2267004066	Lawn and Garden Equipment (Com)	Chippers/Stub Grinders	LPG	VOC	0.049022	0.046396	0.023553	0.003242
2267005055	Agricultural Equipment	Other Agricultural Equipment	LPG	VOC	0.000462	0.000450	0.000380	0.000241
2267005060	Agricultural Equipment	Irrigation Sets	LPG	VOC	0.000393	0.000358	0.000158	0.000018
2267006005	Commercial Equipment	Generator Sets	LPG	VOC	0.058402	0.061544	0.057092	0.041232
2267006010	Commercial Equipment	Pumps	LPG	VOC	0.013773	0.014183	0.011103	0.005231
2267006015	Commercial Equipment	Air Compressors	LPG	VOC	0.016747	0.016978	0.011649	0.002911
2267006025	Commercial Equipment	Welders	LPG	VOC	0.027108	0.027993	0.020645	0.004536
2267006030	Commercial Equipment	Pressure Washers	LPG	VOC	0.000353	0.000371	0.000324	0.000153
2267006035	Commercial Equipment	Hydro Power Units	LPG	VOC	0.000261	0.000259	0.000143	0.000041
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	0.000002	0.000002	0.000002	0.000001
2268003020	Industrial Equipment	Forklifts	CNG	VOC	0.035194	0.033875	0.019456	0.002804
2268003030	Industrial Equipment	Sweepers/Scrubbers	CNG	VOC	0.000042	0.000040	0.000023	0.000003
2268003040	Industrial Equipment	Other General Industrial Equipment	CNG	VOC	0.000028	0.000026	0.000014	0.000002
2268003060	Industrial Equipment	AC\Refrigeration	CNG	VOC	0.000047	0.000044	0.000020	0.000004
2268003070	Industrial Equipment	Terminal Tractors	CNG	VOC	0.000160	0.000145	0.000040	0.000010
2268005055	Agricultural Equipment	Other Agricultural Equipment	CNG	VOC	0.000035	0.000029	0.000016	0.000005
2268005060	Agricultural Equipment	Irrigation Sets	CNG	VOC	0.002702	0.001582	0.000181	0.000000
2268006005	Commercial Equipment	Generator Sets	CNG	VOC	0.001139	0.001163	0.001049	0.000749
2268006010	Commercial Equipment	Pumps	CNG	VOC	0.000058	0.000058	0.000047	0.000025
2268006015	Commercial Equipment	Air Compressors	CNG	VOC	0.000083	0.000082	0.000055	0.000013
2268006020	Commercial Equipment	Gas Compressors	CNG	VOC	0.004341	0.001672	0.000258	0.000323
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	0.008075	0.005928	0.000625	0.000374
2270001060	Recreational Equipment	Specialty Vehicle Carts	Diesel	VOC	0.061743	0.059959	0.052673	0.034243
2270002003	Construction and Mining Equipment	Pavers	Diesel	VOC	0.018177	0.016369	0.012691	0.007336
2270002006	Construction and Mining Equipment	Tampers/Rammers	Diesel	VOC	0.000067	0.000065	0.000054	0.000042
2270002009	Construction and Mining Equipment	Plate Compactors	Diesel	VOC	0.001129	0.001075	0.000844	0.000631
2270002015	Construction and Mining Equipment	Rollers	Diesel	VOC	0.051527	0.049918	0.034385	0.019795
2270002018	Construction and Mining Equipment	Scrapers	Diesel	VOC	0.037808	0.033735	0.025059	0.019151
2270002021	Construction and Mining Equipment	Paving Equipment	Diesel	VOC	0.003322	0.003055	0.002302	0.001415
2270002024	Construction and Mining Equipment	Surfacing Equipment	Diesel	VOC	0.002292	0.002081	0.001564	0.000994
2270002027	Construction and Mining Equipment	Signal Boards/Light Plants	Diesel	VOC	0.011140	0.010047	0.006764	0.004571
2270002030	Construction and Mining Equipment	Trenchers	Diesel	VOC	0.030680	0.027604	0.019970	0.010922
2270002033	Construction and Mining Equipment	Bore/Drill Rigs	Diesel	VOC	0.024056	0.023150	0.019923	0.013638
2270002036	Construction and Mining Equipment	Excavators	Diesel	VOC	0.149182	0.134020	0.109131	0.068233
2270002039	Construction and Mining Equipment	Concrete/Industrial Saws	Diesel	VOC	0.002472	0.002161	0.001469	0.000804
2270002042	Construction and Mining Equipment	Cement & Mortar Mixers	Diesel	VOC	0.001157	0.001137	0.001032	0.000761
2270002045	Construction and Mining Equipment	Cranes	Diesel	VOC	0.038862	0.035707	0.027982	0.018184
2270002048	Construction and Mining Equipment	Graders	Diesel	VOC	0.037145	0.033351	0.027464	0.017324
2270002051	Construction and Mining Equipment	Off-highway Trucks	Diesel	VOC	0.128571	0.111074	0.079518	0.069637
2270002054	Construction and Mining Equipment	Crushing/Proc. Equipment	Diesel	VOC	0.007922	0.007249	0.005533	0.003359
2270002057	Construction and Mining Equipment	Rough Terrain Forklifts	Diesel	VOC	0.074091	0.068484	0.051582	0.027961
2270002060	Construction and Mining Equipment	Rubber Tire Loaders	Diesel	VOC	0.185438	0.172561	0.136293	0.089252



Appendix D-2: Juniata 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	0.320120	0.311737	0.272619	0.155724
2270002069	Construction and Mining Equipment	Crawler Tractor/Dozers	Diesel	VOC	0.161130	0.144679	0.111202	0.074668
2270002072	Construction and Mining Equipment	Skid Steer Loaders	Diesel	VOC	0.309068	0.297029	0.248475	0.143896
2270002075	Construction and Mining Equipment	Off-Highway Tractors	Diesel	VOC	0.021800	0.019367	0.013767	0.009583
2270002078	Construction and Mining Equipment	Dumpers/Tenders	Diesel	VOC	0.000939	0.000923	0.000824	0.000512
2270002081	Construction and Mining Equipment	Other Construction Equipment	Diesel	VOC	0.020342	0.018765	0.014754	0.009466
2270003010	Industrial Equipment	Aerial Lifts	Diesel	VOC	0.097724	0.096658	0.087966	0.058461
2270003020	Industrial Equipment	Forklifts	Diesel	VOC	0.344954	0.328181	0.251282	0.133630
2270003030	Industrial Equipment	Sweepers/Scrubbers	Diesel	VOC	0.178413	0.158478	0.124538	0.071352
2270003040	Industrial Equipment	Other General Industrial Eqp	Diesel	VOC	0.193130	0.181902	0.142849	0.087212
2270003050	Industrial Equipment	Other Material Handling Eqp	Diesel	VOC	0.018178	0.017853	0.016067	0.010609
2270003060	Industrial Equipment	AC\Refrigeration	Diesel	VOC	0.442872	0.376398	0.275547	0.148128
2270003070	Industrial Equipment	Terminal Tractors	Diesel	VOC	0.188991	0.180134	0.151820	0.090908
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	0.003841	0.003791	0.003477	0.002640
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	0.000276	0.000256	0.000180	0.000155
2270005015	Agricultural Equipment	Agricultural Tractors	Diesel	VOC	8.276225	7.443513	5.680012	3.343145
2270005020	Agricultural Equipment	Combines	Diesel	VOC	0.602741	0.589040	0.527114	0.375588
2270005025	Agricultural Equipment	Balers	Diesel	VOC	0.006101	0.005769	0.004714	0.002913
2270005030	Agricultural Equipment	Agricultural Mowers	Diesel	VOC	0.000982	0.000939	0.000786	0.000489
2270005035	Agricultural Equipment	Sprayers	Diesel	VOC	0.087923	0.081794	0.063916	0.037679
2270005040	Agricultural Equipment	Tillers > 6 HP	Diesel	VOC	0.000091	0.000086	0.000071	0.000047
2270005045	Agricultural Equipment	Swathers	Diesel	VOC	0.054266	0.053929	0.050276	0.036340
2270005055	Agricultural Equipment	Other Agricultural Equipment	Diesel	VOC	0.184496	0.169414	0.128657	0.077216
2270005060	Agricultural Equipment	Irrigation Sets	Diesel	VOC	0.113563	0.103120	0.076936	0.042267
2270006005	Commercial Equipment	Generator Sets	Diesel	VOC	0.190046	0.185802	0.164203	0.111106
2270006010	Commercial Equipment	Pumps	Diesel	VOC	0.041790	0.041112	0.036822	0.026218
2270006015	Commercial Equipment	Air Compressors	Diesel	VOC	0.094202	0.089221	0.070900	0.040627
2270006020	Commercial Equipment	Gas Compressors	Diesel	VOC	0.000000	0.000000	0.000000	0.000000
2270006025	Commercial Equipment	Welders	Diesel	VOC	0.143408	0.139838	0.120399	0.066754
2270006030	Commercial Equipment	Pressure Washers	Diesel	VOC	0.005974	0.005885	0.005373	0.004021
2270006035	Commercial Equipment	Hydro Power Units	Diesel	VOC	0.004388	0.004079	0.003143	0.001871
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	0.650690	0.566376	0.403127	0.193271
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	0.107151	0.091564	0.059778	0.034389
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	60.741151	56.507006	44.788157	31.243486
2282005015	Pleasure Craft	Personal Water Craft	2 Stroke	VOC	21.266551	18.971161	12.560432	8.515027
2282010005	Pleasure Craft	Inboard/Stern Drive	4 Stroke	VOC	4.034318	4.018401	3.939589	3.808478
2282020005	Pleasure Craft	Inboard/Stern Drive	Diesel	VOC	0.106256	0.111804	0.116030	0.114752
2282020010	Pleasure Craft	Outboards	Diesel	VOC	0.002669	0.002543	0.002118	0.001253
2285002005	Railroad Equipment	Line Haul Locomotives	Diesel	VOC				
2285002010	Railroad Equipment	Yard Locomotive	Diesel	VOC				
2285002015	Railroad Equipment	Railway Maintenance	Diesel	VOC	0.382484	0.376234	0.338382	0.220398
2285004015	Railroad Equipment	Railway Maintenance	4 Stroke	VOC	0.127901	0.115990	0.086394	0.089611
2285006015	Railroad Equipment	Railway Maintenance	LPG	VOC	0.001318	0.001300	0.000973	0.000270
<b>Juniata County Total Annual VOC Emissions</b>					<b>233.209974</b>	<b>226.150840</b>	<b>186.214261</b>	<b>143.067431</b>

Appendix D-2: Juniata 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	14.208000	16.497677	20.818130	22.207153
2260001020	Recreational Equipment	Snowmobiles	2 Stroke	CO	0.000000	0.000000	0.000000	0.000000
2260001030	Recreational Equipment	ATVs	2 Stroke	CO	14.008580	19.344252	29.486834	33.821091
2260001060	Recreational Equipment	Specialty Vehicles/Carts	2 Stroke	CO	9.044507	9.292258	10.092221	10.823427
2260002006	Construction and Mining Equipment	Tampers/Rammers	2 Stroke	CO	0.452375	0.447724	0.374400	0.381551
2260002009	Construction and Mining Equipment	Plate Compactors	2 Stroke	CO	0.021805	0.017618	0.013963	0.014307
2260002021	Construction and Mining Equipment	Paving Equipment	2 Stroke	CO	0.026170	0.020979	0.016844	0.017258
2260002027	Construction and Mining Equipment	Signal Boards/Light Plants	2 Stroke	CO	0.000191	0.000151	0.000129	0.000133
2260002039	Construction and Mining Equipment	Concrete/Industrial Saws	2 Stroke	CO	1.195405	1.126784	0.969898	0.993762
2260002054	Construction and Mining Equipment	Crushing/Proc. Equipment	2 Stroke	CO	0.005102	0.004017	0.003437	0.003521
2260003030	Industrial Equipment	Sweepers/Scrubbers	2 Stroke	CO	0.079983	0.055900	0.034032	0.012064
2260003040	Industrial Equipment	Other General Industrial Eqp	2 Stroke	CO	0.006372	0.004454	0.002711	0.000961
2260004015	Lawn and Garden Equipment (Res)	Rotary Tillers < 6 HP	2 Stroke	CO	0.366997	0.334098	0.249661	0.265741
2260004016	Lawn and Garden Equipment (Com)	Rotary Tillers < 6 HP	2 Stroke	CO	1.557315	1.416598	1.054919	1.189409
2260004020	Lawn and Garden Equipment (Res)	Chain Saws < 6 HP	2 Stroke	CO	4.787122	4.376707	3.332442	3.775582
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	6.905998	6.196139	4.309503	4.840717
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	4.309913	3.924167	2.921123	3.304529
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	2.766339	2.883339	3.173687	3.688489
2260004036	Lawn and Garden Equipment (Com)	Snowblowers	2 Stroke	CO	6.349763	6.618318	7.284779	8.489393
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	0.321411	0.271486	0.188258	0.212411
2260006005	Commercial Equipment	Generator Sets	2 Stroke	CO	0.284814	0.245584	0.216491	0.268492
2260006010	Commercial Equipment	Pumps	2 Stroke	CO	2.005551	1.591885	1.422583	1.740662
2260006015	Commercial Equipment	Air Compressors	2 Stroke	CO	0.000742	0.000617	0.000609	0.000756
2260006035	Commercial Equipment	Hydro Power Units	2 Stroke	CO	0.011536	0.009605	0.009444	0.011710
2260007005	Logging Equipment	Chain Saws > 6 HP	2 Stroke	CO	10.714103	11.072968	10.917582	13.826727
2265001010	Recreational Equipment	Motorcycles: Off-Road	4 Stroke	CO	6.119928	7.115017	8.528523	8.064584
2265001030	Recreational Equipment	ATVs	4 Stroke	CO	55.168587	66.753204	90.562767	105.856040
2265001050	Recreational Equipment	Golf Carts	4 Stroke	CO	114.059830	118.873010	125.168990	133.446430
2265001060	Recreational Equipment	Specialty Vehicles/Carts	4 Stroke	CO	7.711350	7.743679	7.878227	8.334198
2265002003	Construction and Mining Equipment	Pavers	4 Stroke	CO	0.392099	0.402909	0.404165	0.400259
2265002006	Construction and Mining Equipment	Tampers/Rammers	4 Stroke	CO	0.003101	0.003179	0.003372	0.003466
2265002009	Construction and Mining Equipment	Plate Compactors	4 Stroke	CO	0.724088	0.734505	0.750158	0.766562
2265002015	Construction and Mining Equipment	Rollers	4 Stroke	CO	0.734878	0.753324	0.749362	0.750301
2265002021	Construction and Mining Equipment	Paving Equipment	4 Stroke	CO	1.417722	1.443963	1.498723	1.538239
2265002024	Construction and Mining Equipment	Surfacing Equipment	4 Stroke	CO	0.642610	0.661324	0.677116	0.691604
2265002027	Construction and Mining Equipment	Signal Boards/Light Plants	4 Stroke	CO	0.032700	0.033494	0.034083	0.034923
2265002030	Construction and Mining Equipment	Trenchers	4 Stroke	CO	1.201779	1.229215	1.224236	1.209764
2265002033	Construction and Mining Equipment	Bore/Drill Rigs	4 Stroke	CO	0.354067	0.355557	0.352503	0.349717
2265002039	Construction and Mining Equipment	Concrete/Industrial Saws	4 Stroke	CO	2.967801	3.048986	3.078952	3.135954
2265002042	Construction and Mining Equipment	Cement & Mortar Mixers	4 Stroke	CO	1.241326	1.236356	1.275084	1.322342
2265002045	Construction and Mining Equipment	Cranes	4 Stroke	CO	0.049678	0.049165	0.042210	0.027004
2265002054	Construction and Mining Equipment	Crushing/Proc. Equipment	4 Stroke	CO	0.174272	0.179466	0.183127	0.184811
2265002057	Construction and Mining Equipment	Rough Terrain Forklifts	4 Stroke	CO	0.064846	0.062065	0.042824	0.012658
2265002060	Construction and Mining Equipment	Rubber Tire Loaders	4 Stroke	CO	0.155475	0.145816	0.081769	0.014760
2265002066	Construction and Mining Equipment	Tractors/Loaders/Backhoes	4 Stroke	CO	0.934590	0.965524	0.991109	1.009468
2265002072	Construction and Mining Equipment	Skid Steer Loaders	4 Stroke	CO	0.413456	0.416967	0.400617	0.354376
2265002078	Construction and Mining Equipment	Dumpers/Tenders	4 Stroke	CO	0.193285	0.192483	0.198326	0.206114
2265002081	Construction and Mining Equipment	Other Construction Equipment	4 Stroke	CO	0.054511	0.052949	0.042119	0.019589
2265003010	Industrial Equipment	Aerial Lifts	4 Stroke	CO	7.493709	6.739134	4.696521	1.580134
2265003020	Industrial Equipment	Forklifts	4 Stroke	CO	16.939781	14.488088	6.730558	0.464138
2265003030	Industrial Equipment	Sweepers/Scrubbers	4 Stroke	CO	7.281900	6.463419	3.831315	1.177746
2265003040	Industrial Equipment	Other General Industrial Eqp	4 Stroke	CO	18.577044	16.835485	11.692037	4.071749
2265003050	Industrial Equipment	Other Material Handling Eqp	4 Stroke	CO	0.572899	0.519785	0.363459	0.114456
2265003060	Industrial Equipment	AC/Refrigeration	4 Stroke	CO	0.268440	0.249252	0.182514	0.065305
2265003070	Industrial Equipment	Terminal Tractors	4 Stroke	CO	1.759129	1.422323	0.313130	0.030848
2265004010	Lawn and Garden Equipment (Res)	Lawn mowers	4 Stroke	CO	69.905006	72.425873	78.848517	90.133552
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	5.888342	6.093560	6.622955	7.557097
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	0.392581	0.407947	0.443630	0.508132
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	0.750405	0.777971	0.847288	0.969683
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	8.126893	8.471623	9.326222	10.870642
2265004036	Lawn and Garden Equipment (Com)	Snowblowers	4 Stroke	CO	18.653196	19.444430	21.405977	24.950824
2265004040	Lawn and Garden Equipment (Res)	Rear Engine Riding Mowers	4 Stroke	CO	16.439984	17.265236	19.724638	23.162642
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	218.587510	229.753416	264.336806	310.865605
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	13.025722	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	7.135032	7.383309	8.084791	9.478068
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	1.113710	1.191564	1.320987	1.495972
2265005015	Agricultural Equipment	Agricultural Tractors	4 Stroke	CO	2.252676	2.263041	1.839753	1.359335
2265005020	Agricultural Equipment	Combines	4 Stroke	CO	0.010834	0.010888	0.009787	0.006901

Appendix D-2: Juniata 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	1.023971	1.029133	0.925310	0.652996
2265005030	Agricultural Equipment	Agricultural Mowers	4 Stroke	CO	0.866109	0.900644	1.008762	1.155032
2265005035	Agricultural Equipment	Sprayers	4 Stroke	CO	7.413043	7.587473	8.049778	8.829025
2265005040	Agricultural Equipment	Tillers > 6 HP	4 Stroke	CO	18.433463	18.905664	20.157330	22.622750
2265005045	Agricultural Equipment	Swathers	4 Stroke	CO	1.621882	1.630058	1.465611	1.034289
2265005055	Agricultural Equipment	Other Agricultural Equipment	4 Stroke	CO	3.365033	3.428478	3.434175	3.247144
2265005060	Agricultural Equipment	Irrigation Sets	4 Stroke	CO	3.156603	3.019165	1.655042	0.661083
2265006005	Commercial Equipment	Generator Sets	4 Stroke	CO	80.098132	85.754068	101.899559	127.763305
2265006010	Commercial Equipment	Pumps	4 Stroke	CO	18.508593	20.007944	22.928988	28.078502
2265006015	Commercial Equipment	Air Compressors	4 Stroke	CO	9.194184	9.922730	11.187918	13.370024
2265006025	Commercial Equipment	Welders	4 Stroke	CO	23.098286	25.188067	29.091460	35.165177
2265006030	Commercial Equipment	Pressure Washers	4 Stroke	CO	35.080120	37.928899	44.665054	55.408930
2265006035	Commercial Equipment	Hydro Power Units	4 Stroke	CO	1.775188	1.940369	2.272981	2.813828
2265007010	Logging Equipment	Shredders > 6 HP	4 Stroke	CO	23.060329	24.550477	29.172624	38.038015
2265007015	Logging Equipment	Forest Eq - Feller/Bunch/Skidder	4 Stroke	CO	0.274967	0.298843	0.347879	0.440624
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	19.962830	20.428805	20.676150	20.918558
2267001060	Recreational Equipment	Specialty Vehicle Carts	LPG	CO	0.074714	0.075457	0.069470	0.049377
2267002003	Construction and Mining Equipment	Pavers	LPG	CO	0.009420	0.009681	0.007442	0.002076
2267002015	Construction and Mining Equipment	Rollers	LPG	CO	0.016018	0.016369	0.010383	0.002344
2267002021	Construction and Mining Equipment	Paving Equipment	LPG	CO	0.002458	0.002539	0.002278	0.001155
2267002024	Construction and Mining Equipment	Surfacing Equipment	LPG	CO	0.001626	0.001670	0.001238	0.000343
2267002030	Construction and Mining Equipment	Trenchers	LPG	CO	0.028824	0.029643	0.023266	0.006483
2267002033	Construction and Mining Equipment	Bore/Drill Rigs	LPG	CO	0.009309	0.009641	0.009232	0.006758
2267002039	Construction and Mining Equipment	Concrete/Industrial Saws	LPG	CO	0.028088	0.028540	0.014367	0.003648
2267002045	Construction and Mining Equipment	Cranes	LPG	CO	0.010050	0.010382	0.009307	0.004679
2267002054	Construction and Mining Equipment	Crushing/Proc. Equipment	LPG	CO	0.001674	0.001729	0.001535	0.000718
2267002057	Construction and Mining Equipment	Rough Terrain Forklifts	LPG	CO	0.018264	0.018814	0.015575	0.004650
2267002060	Construction and Mining Equipment	Rubber Tire Loaders	LPG	CO	0.045772	0.047007	0.035250	0.007533
2267002066	Construction and Mining Equipment	Tractors/Loaders/Backhoes	LPG	CO	0.004886	0.005004	0.003407	0.000691
2267002072	Construction and Mining Equipment	Skid Steer Loaders	LPG	CO	0.037404	0.038588	0.033348	0.015542
2267002081	Construction and Mining Equipment	Other Construction Equipment	LPG	CO	0.014971	0.015474	0.014101	0.007872
2267003010	Industrial Equipment	Aerial Lifts	LPG	CO	1.265367	1.330802	1.225715	0.680772
2267003020	Industrial Equipment	Forklifts	LPG	CO	121.216194	126.697838	97.975123	22.106731
2267003030	Industrial Equipment	Sweepers/Scrubbers	LPG	CO	0.936474	0.972224	0.606304	0.149084
2267003040	Industrial Equipment	Other General Industrial Equipm	LPG	CO	0.283950	0.295831	0.207661	0.047050
2267003050	Industrial Equipment	Other Material Handling Equipment	LPG	CO	0.068438	0.071950	0.065744	0.031661
2267003070	Industrial Equipment	Terminal Tractors	LPG	CO	0.573702	0.593345	0.317751	0.081412
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	0.006823	0.006793	0.006114	0.004202
2267005060	Agricultural Equipment	Irrigation Sets	LPG	CO	0.005828	0.005740	0.003689	0.000615
2267006005	Commercial Equipment	Generator Sets	LPG	CO	0.766467	0.852199	0.909533	0.765998
2267006010	Commercial Equipment	Pumps	LPG	CO	0.181543	0.201148	0.197674	0.117977
2267006015	Commercial Equipment	Air Compressors	LPG	CO	0.221373	0.244705	0.226936	0.089614
2267006025	Commercial Equipment	Welders	LPG	CO	0.399482	0.441723	0.405551	0.130390
2267006030	Commercial Equipment	Pressure Washers	LPG	CO	0.005179	0.005747	0.005784	0.003502
2267006035	Commercial Equipment	Hydro Power Units	LPG	CO	0.003455	0.003809	0.003233	0.001287
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	0.000591	0.000610	0.000556	0.000311
2268003020	Industrial Equipment	Forklifts	CNG	CO	8.839912	9.137159	6.973601	1.528341
2268003030	Industrial Equipment	Sweepers/Scrubbers	CNG	CO	0.010572	0.010925	0.008288	0.001787
2268003040	Industrial Equipment	Other General Industrial Equipment	CNG	CO	0.006910	0.007135	0.005256	0.001111
2268003060	Industrial Equipment	AC\Refrigeration	CNG	CO	0.011769	0.012125	0.008228	0.002023
2268003070	Industrial Equipment	Terminal Tractors	CNG	CO	0.040403	0.041366	0.021816	0.005408
2268005055	Agricultural Equipment	Other Agricultural Equipment	CNG	CO	0.008985	0.007383	0.004176	0.001179
2268005060	Agricultural Equipment	Irrigation Sets	CNG	CO	0.688757	0.405371	0.046779	0.000000
2268006005	Commercial Equipment	Generator Sets	CNG	CO	0.254511	0.270609	0.272961	0.221027
2268006010	Commercial Equipment	Pumps	CNG	CO	0.012894	0.013673	0.013047	0.008417
2268006015	Commercial Equipment	Air Compressors	CNG	CO	0.018669	0.019732	0.017372	0.006289
2268006020	Commercial Equipment	Gas Compressors	CNG	CO	1.117184	1.051370	0.133800	0.167203
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	2.053193	1.949891	0.377542	0.199287
2270001060	Recreational Equipment	Specialty Vehicle Carts	Diesel	CO	0.229764	0.223982	0.201103	0.132933
2270002003	Construction and Mining Equipment	Pavers	Diesel	CO	0.095669	0.083997	0.070770	0.030664
2270002006	Construction and Mining Equipment	Tampers/Rammers	Diesel	CO	0.000241	0.000247	0.000258	0.000291
2270002009	Construction and Mining Equipment	Plate Compactors	Diesel	CO	0.003863	0.003872	0.003797	0.004060
2270002015	Construction and Mining Equipment	Rollers	Diesel	CO	0.275284	0.248813	0.209607	0.101352
2270002018	Construction and Mining Equipment	Scrapers	Diesel	CO	0.248749	0.226831	0.190358	0.088713
2270002021	Construction and Mining Equipment	Paving Equipment	Diesel	CO	0.017859	0.016386	0.013101	0.007277
2270002024	Construction and Mining Equipment	Surfacing Equipment	Diesel	CO	0.013474	0.012587	0.010401	0.005879
2270002027	Construction and Mining Equipment	Signal Boards/Light Plants	Diesel	CO	0.035169	0.033135	0.026590	0.021857
2270002030	Construction and Mining Equipment	Trenchers	Diesel	CO	0.165267	0.154741	0.130174	0.069147
2270002033	Construction and Mining Equipment	Bore/Drill Rigs	Diesel	CO	0.099276	0.095141	0.083061	0.050844
2270002036	Construction and Mining Equipment	Excavators	Diesel	CO	0.763666	0.647106	0.586031	0.181776
2270002039	Construction and Mining Equipment	Concrete/Industrial Saws	Diesel	CO	0.012780	0.011849	0.009833	0.005255
2270002042	Construction and Mining Equipment	Cement & Mortar Mixers	Diesel	CO	0.004384	0.004357	0.004231	0.003428
2270002045	Construction and Mining Equipment	Cranes	Diesel	CO	0.139418	0.128094	0.105020	0.050769
2270002048	Construction and Mining Equipment	Graders	Diesel	CO	0.179888	0.147368	0.130315	0.045599
2270002051	Construction and Mining Equipment	Off-highway Trucks	Diesel	CO	0.780306	0.653642	0.482341	0.101956
2270002054	Construction and Mining Equipment	Crushing/Proc. Equipment	Diesel	CO	0.032652	0.030058	0.025311	0.013486
2270002057	Construction and Mining Equipment	Rough Terrain Forklifts	Diesel	CO	0.411046	0.386252	0.335994	0.182029
2270002060	Construction and Mining Equipment	Rubber Tire Loaders	Diesel	CO	1.057333	0.969225	0.796057	0.373581

Appendix D-2: Juniata 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	CO	1.291544	1.278504	1.226503	0.796161
2270002069	Construction and Mining Equipment	Crawler Tractor/Dozers	Diesel	CO	0.904832	0.803474	0.679534	0.281630
2270002072	Construction and Mining Equipment	Skid Steer Loaders	Diesel	CO	1.129469	1.122463	1.054869	0.720748
2270002075	Construction and Mining Equipment	Off-Highway Tractors	Diesel	CO	0.137098	0.122936	0.094264	0.041867
2270002078	Construction and Mining Equipment	Dumpers/Tenders	Diesel	CO	0.003229	0.003269	0.003215	0.002309
2270002081	Construction and Mining Equipment	Other Construction Equipment	Diesel	CO	0.131352	0.121281	0.098136	0.051918
2270003010	Industrial Equipment	Aerial Lifts	Diesel	CO	0.336009	0.343563	0.346134	0.261831
2270003020	Industrial Equipment	Forklifts	Diesel	CO	2.040598	2.033675	2.169450	0.376202
2270003030	Industrial Equipment	Sweepers/Scrubbers	Diesel	CO	0.627909	0.555921	0.514491	0.220669
2270003040	Industrial Equipment	Other General Industrial Eqp	Diesel	CO	0.681035	0.640233	0.544418	0.306594
2270003050	Industrial Equipment	Other Material Handling Eqp	Diesel	CO	0.062404	0.062026	0.059597	0.041060
2270003060	Industrial Equipment	AC\Refrigeration	Diesel	CO	1.689852	1.569702	1.560772	0.809636
2270003070	Industrial Equipment	Terminal Tractors	Diesel	CO	0.862962	0.784822	0.814441	0.182081
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	0.015602	0.015360	0.014208	0.009052
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	0.001507	0.001509	0.001396	0.001195
2270005015	Agricultural Equipment	Agricultural Tractors	Diesel	CO	40.387501	37.291223	30.625772	16.694684
2270005020	Agricultural Equipment	Combines	Diesel	CO	2.515575	2.477542	2.356755	1.545413
2270005025	Agricultural Equipment	Balers	Diesel	CO	0.020995	0.020937	0.020386	0.014935
2270005030	Agricultural Equipment	Agricultural Mowers	Diesel	CO	0.004824	0.004807	0.004726	0.003396
2270005035	Agricultural Equipment	Sprayers	Diesel	CO	0.283308	0.272874	0.243607	0.152585
2270005040	Agricultural Equipment	Tillers > 6 HP	Diesel	CO	0.000546	0.000520	0.000445	0.000269
2270005045	Agricultural Equipment	Swathers	Diesel	CO	0.242008	0.250380	0.269302	0.215597
2270005055	Agricultural Equipment	Other Agricultural Equipment	Diesel	CO	0.802266	0.755807	0.633255	0.357681
2270005060	Agricultural Equipment	Irrigation Sets	Diesel	CO	0.359455	0.342786	0.302544	0.176884
2270006005	Commercial Equipment	Generator Sets	Diesel	CO	0.670788	0.666467	0.637353	0.467093
2270006010	Commercial Equipment	Pumps	Diesel	CO	0.155993	0.155616	0.151114	0.115692
2270006015	Commercial Equipment	Air Compressors	Diesel	CO	0.355858	0.347182	0.328665	0.204370
2270006020	Commercial Equipment	Gas Compressors	Diesel	CO	0.000000	0.000000	0.000000	0.000000
2270006025	Commercial Equipment	Welders	Diesel	CO	0.528070	0.528373	0.494854	0.318447
2270006030	Commercial Equipment	Pressure Washers	Diesel	CO	0.020199	0.019990	0.019004	0.014423
2270006035	Commercial Equipment	Hydro Power Units	Diesel	CO	0.016079	0.015517	0.014389	0.009303
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	3.078529	2.515119	2.069845	0.394951
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	0.442419	0.376828	0.259994	0.097524
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	118.718968	114.025660	100.409536	87.049508
2282005015	Pleasure Craft	Personal Water Craft	2 Stroke	CO	42.962506	41.758364	39.160145	38.870043
2282010005	Pleasure Craft	Inboard/Stern Drive	4 Stroke	CO	58.794805	57.449805	52.970869	44.970239
2282020005	Pleasure Craft	Inboard/Stern Drive	Diesel	CO	0.449237	0.473925	0.535473	0.645182
2282020010	Pleasure Craft	Outboards	Diesel	CO	0.007711	0.007535	0.006812	0.005131
2285002005	Railroad Equipment	Line Haul Locomotives	Diesel	CO				
2285002010	Railroad Equipment	Yard Locomotive	Diesel	CO				
2285002015	Railroad Equipment	Railway Maintenance	Diesel	CO	1.628307	1.587828	1.443413	0.910191
2285004015	Railroad Equipment	Railway Maintenance	4 Stroke	CO	4.524002	4.739206	5.132363	5.589213
2285006015	Railroad Equipment	Railway Maintenance	LPG	CO	0.019481	0.020147	0.017558	0.006991

**Juniata  
County Total  
Annual CO  
Emissions**

**1962.106955 2034.021343 2126.830336 2248.489509**

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

Tons/Summer Day

Equipment Type	Fuel	Pollutant	2002	2004	2009	2018
Recreational	Diesel	VOC	0.000212	0.000206	0.000181	0.000118
Recreational	Gasoline	VOC	0.138653	0.170176	0.199678	0.134724
Recreational	CNG	VOC	0.000000	0.000000	0.000000	0.000000
Recreational	LPG	VOC	0.000017	0.000017	0.000015	0.000010
Construction	Diesel	VOC	0.006031	0.005600	0.004510	0.002826
Construction	Gasoline	VOC	0.003657	0.003199	0.001836	0.001749
Construction	CNG	VOC	0.000000	0.000000	0.000000	0.000000
Construction	LPG	VOC	0.000057	0.000055	0.000034	0.000010
Industrial	Diesel	VOC	0.004752	0.004339	0.003370	0.001931
Industrial	Gasoline	VOC	0.007659	0.006440	0.003130	0.001340
Industrial	CNG	VOC	0.000138	0.000127	0.000063	0.000010
Industrial	LPG	VOC	0.026352	0.025602	0.014791	0.002178
Lawn and Garden	Diesel	VOC	0.001691	0.001629	0.001366	0.000991
Lawn and Garden	Gasoline	VOC	0.263229	0.236637	0.163854	0.168154
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	0.046730	0.042327	0.032731	0.019620
Farm	Gasoline	VOC	0.008534	0.008142	0.006718	0.005506
Farm	CNG	VOC	0.000014	0.000008	0.000001	0.000000
Farm	LPG	VOC	0.000004	0.000004	0.000003	0.000001
Light Commercial	Diesel	VOC	0.001505	0.001461	0.001257	0.000786
Light Commercial	Gasoline	VOC	0.022412	0.020971	0.016678	0.018975
Light Commercial	CNG	VOC	0.000018	0.000009	0.000004	0.000003
Light Commercial	LPG	VOC	0.000366	0.000381	0.000317	0.000170
Logging	Diesel	VOC	0.002041	0.001776	0.001264	0.000606
Logging	Gasoline	VOC	0.014819	0.014090	0.008503	0.010362
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	0.001296	0.001274	0.001146	0.000747
Railway Maintenance	Gasoline	VOC	0.000447	0.000409	0.000315	0.000328
Railway Maintenance	CNG	VOC	0.000000	0.000000	0.000000	0.000000
Railway Maintenance	LPG	VOC	0.000004	0.000004	0.000003	0.000001
Recreational Marine Vessels	Diesel	VOC	0.000281	0.000295	0.000304	0.000299
Recreational Marine Vessels	Gasoline	VOC	0.251582	0.235191	0.189442	0.145910
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	0.000117	0.000117	0.000117	0.000117
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	0.094018	0.097055	0.092298	0.092890
<b>Juniata County VOC Totals</b>			<b>0.896871</b>	<b>0.877766</b>	<b>0.744043</b>	<b>0.610377</b>

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

Tons/Summer Day

Equipment Type	Fuel	Pollutant	2002	2004	2009	2018
Recreational	Diesel	NOx	0.000664	0.000673	0.000666	0.000544
Recreational	Gasoline	NOx	0.004187	0.004402	0.005025	0.005446
Recreational	CNG	NOx	0.000000	0.000000	0.000000	0.000000
Recreational	LPG	NOx	0.000064	0.000063	0.000053	0.000035
Construction	Diesel	NOx	0.052189	0.050481	0.043832	0.022772
Construction	Gasoline	NOx	0.000386	0.000355	0.000258	0.000206
Construction	CNG	NOx	0.000001	0.000001	0.000000	0.000000
Construction	LPG	NOx	0.000209	0.000199	0.000120	0.000042
Industrial	Diesel	NOx	0.045414	0.044169	0.038190	0.019157
Industrial	Gasoline	NOx	0.004665	0.003915	0.001867	0.000503
Industrial	CNG	NOx	0.008528	0.007750	0.003845	0.000993
Industrial	LPG	NOx	0.096649	0.093051	0.052386	0.012474
Lawn and Garden	Diesel	NOx	0.011269	0.011697	0.012083	0.010666
Lawn and Garden	Gasoline	NOx	0.025745	0.024485	0.020139	0.020829
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	0.384061	0.373027	0.335546	0.214885
Farm	Gasoline	NOx	0.003113	0.003062	0.002412	0.001779
Farm	CNG	NOx	0.000814	0.000471	0.000057	0.000001
Farm	LPG	NOx	0.000016	0.000015	0.000010	0.000005
Light Commercial	Diesel	NOx	0.008598	0.008807	0.008811	0.006961
Light Commercial	Gasoline	NOx	0.003580	0.003544	0.003118	0.003392
Light Commercial	CNG	NOx	0.001115	0.000612	0.000375	0.000302
Light Commercial	LPG	NOx	0.001689	0.001752	0.001451	0.000838
Logging	Diesel	NOx	0.028064	0.024810	0.016607	0.003478
Logging	Gasoline	NOx	0.000546	0.000580	0.000562	0.000645
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	0.006678	0.006710	0.006436	0.004626
Railway Maintenance	Gasoline	NOx	0.000106	0.000096	0.000078	0.000078
Railway Maintenance	CNG	NOx	0.000000	0.000000	0.000000	0.000000
Railway Maintenance	LPG	NOx	0.000016	0.000016	0.000012	0.000004
Recreational Marine Vessels	Diesel	NOx	0.007346	0.007758	0.008274	0.008730
Recreational Marine Vessels	Gasoline	NOx	0.008755	0.009792	0.012550	0.016291
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	0.000062	0.000062	0.000062	0.000062
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	2.175264	1.968396	1.644499	1.425450
<b>Juniata County NOx Totals</b>			<b>2.880653</b>	<b>2.651558</b>	<b>2.219725</b>	<b>1.781286</b>

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

Equipment Type	Fuel	Pollutant	Tons/Summer Day			
			2002	2004	2009	2018
Recreational	Diesel	CO	0.000791	0.000771	0.000692	0.000457
Recreational	Gasoline	CO	0.778262	0.867229	1.032149	1.138030
Recreational	CNG	CO	0.000000	0.000000	0.000000	0.000000
Recreational	LPG	CO	0.000257	0.000260	0.000239	0.000170
Construction	Diesel	CO	0.029203	0.026891	0.023446	0.011899
Construction	Gasoline	CO	0.050907	0.051415	0.050774	0.050899
Construction	CNG	CO	0.000002	0.000002	0.000002	0.000001
Construction	LPG	CO	0.000842	0.000865	0.000665	0.000237
Industrial	Diesel	CO	0.020484	0.019343	0.019017	0.006857
Industrial	Gasoline	CO	0.240287	0.221835	0.161446	0.096539
Industrial	CNG	CO	0.034807	0.035399	0.023267	0.005491
Industrial	LPG	CO	0.389968	0.407587	0.314869	0.072436
Lawn and Garden	Diesel	CO	0.005923	0.005883	0.005576	0.004323
Lawn and Garden	Gasoline	CO	4.115288	4.304524	4.692443	5.437813
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	0.223553	0.207522	0.172649	0.096012
Farm	Gasoline	CO	0.204613	0.208028	0.207096	0.213412
Farm	CNG	CO	0.003496	0.002068	0.000255	0.000006
Farm	LPG	CO	0.000063	0.000063	0.000049	0.000024
Light Commercial	Diesel	CO	0.005479	0.005435	0.005160	0.003542
Light Commercial	Gasoline	CO	0.550207	0.590818	0.691519	0.856319
Light Commercial	CNG	CO	0.004401	0.004251	0.001371	0.001264
Light Commercial	LPG	CO	0.004947	0.005486	0.005484	0.003477
Logging	Diesel	CO	0.009655	0.007888	0.006491	0.001239
Logging	Gasoline	CO	0.109133	0.115159	0.129791	0.167910
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	0.005515	0.005378	0.004889	0.003083
Railway Maintenance	Gasoline	CO	0.015815	0.016567	0.017941	0.019538
Railway Maintenance	CNG	CO	0.000000	0.000000	0.000000	0.000000
Railway Maintenance	LPG	CO	0.000066	0.000068	0.000059	0.000024
Recreational Marine Vessels	Diesel	CO	0.001177	0.001241	0.001397	0.001676
Recreational Marine Vessels	Gasoline	CO	0.572975	0.554202	0.500510	0.444060
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	0.005496	0.005496	0.005496	0.005496
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	0.239559	0.247286	0.267712	0.308824
<b>Juniata County CO Totals</b>			<b>7.626664</b>	<b>7.922544</b>	<b>8.344995</b>	<b>8.951601</b>

Appendix D-2: Juniata 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	0.000124	0.000144	0.000235	0.000381
2260001020	Recreational Equipment	Snowmobiles	2 Stroke	NOx	0.000000	0.000000	0.000000	0.000000
2260001030	Recreational Equipment	ATVs	2 Stroke	NOx	0.000125	0.000172	0.000326	0.000553
2260001060	Recreational Equipment	Specialty Vehicles/Carts	2 Stroke	NOx	0.000185	0.000173	0.000141	0.000145
2260002006	Construction and Mining Equipment	Tampers/Rammers	2 Stroke	NOx	0.000007	0.000007	0.000004	0.000004
2260002009	Construction and Mining Equipment	Plate Compactors	2 Stroke	NOx	0.000000	0.000000	0.000000	0.000000
2260002021	Construction and Mining Equipment	Paving Equipment	2 Stroke	NOx	0.000000	0.000000	0.000000	0.000000
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	0.000018	0.000016	0.000010	0.000010
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	0.000001	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	0.000001	0.000002	0.000004	0.000005
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	0.000012	0.000017	0.000034	0.000040
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	0.000030	0.000041	0.000075	0.000090
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	0.000018	0.000025	0.000048	0.000057
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	0.000002	0.000003	0.000005	0.000006
2260006005	Commercial Equipment	Generator Sets	2 Stroke	NOx	0.000001	0.000002	0.000003	0.000004
2260006010	Commercial Equipment	Pumps	2 Stroke	NOx	0.000009	0.000016	0.000023	0.000028
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	0.000141	0.000137	0.000089	0.000113
2265001010	Recreational Equipment	Motorcycles: Off-Road	4 Stroke	NOx	0.000172	0.000201	0.000255	0.000282
2265001030	Recreational Equipment	ATVs	4 Stroke	NOx	0.001557	0.001888	0.002321	0.002240
2265001050	Recreational Equipment	Golf Carts	4 Stroke	NOx	0.001865	0.001659	0.001581	0.001685
2265001060	Recreational Equipment	Specialty Vehicles/Carts	4 Stroke	NOx	0.000160	0.000165	0.000165	0.000159
2265002003	Construction and Mining Equipment	Pavers	4 Stroke	NOx	0.000013	0.000012	0.000009	0.000006
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	0.000016	0.000015	0.000011	0.000010
2265002015	Construction and Mining Equipment	Rollers	4 Stroke	NOx	0.000023	0.000020	0.000014	0.000011
2265002021	Construction and Mining Equipment	Paving Equipment	4 Stroke	NOx	0.000033	0.000031	0.000024	0.000023
2265002024	Construction and Mining Equipment	Surfacing Equipment	4 Stroke	NOx	0.000014	0.000012	0.000010	0.000010
2265002027	Construction and Mining Equipment	Signal Boards/Light Plants	4 Stroke	NOx	0.000001	0.000001	0.000000	0.000000
2265002030	Construction and Mining Equipment	Trenchers	4 Stroke	NOx	0.000040	0.000036	0.000025	0.000019
2265002033	Construction and Mining Equipment	Bore/Drill Rigs	4 Stroke	NOx	0.000013	0.000012	0.000009	0.000007
2265002039	Construction and Mining Equipment	Concrete/Industrial Saws	4 Stroke	NOx	0.000068	0.000059	0.000046	0.000044
2265002042	Construction and Mining Equipment	Cement & Mortar Mixers	4 Stroke	NOx	0.000026	0.000026	0.000022	0.000019
2265002045	Construction and Mining Equipment	Cranes	4 Stroke	NOx	0.000007	0.000006	0.000005	0.000002
2265002054	Construction and Mining Equipment	Crushing/Proc. Equipment	4 Stroke	NOx	0.000004	0.000004	0.000003	0.000003
2265002057	Construction and Mining Equipment	Rough Terrain Forklifts	4 Stroke	NOx	0.000011	0.000011	0.000007	0.000002
2265002060	Construction and Mining Equipment	Rubber Tire Loaders	4 Stroke	NOx	0.000028	0.000026	0.000013	0.000003
2265002066	Construction and Mining Equipment	Tractors/Loaders/Backhoes	4 Stroke	NOx	0.000021	0.000019	0.000015	0.000015
2265002072	Construction and Mining Equipment	Skid Steer Loaders	4 Stroke	NOx	0.000030	0.000028	0.000020	0.000011
2265002078	Construction and Mining Equipment	Dumpers/Tenders	4 Stroke	NOx	0.000004	0.000004	0.000004	0.000003
2265002081	Construction and Mining Equipment	Other Construction Equipment	4 Stroke	NOx	0.000010	0.000009	0.000007	0.000003
2265003010	Industrial Equipment	Aerial Lifts	4 Stroke	NOx	0.000609	0.000527	0.000322	0.000097
2265003020	Industrial Equipment	Forklifts	4 Stroke	NOx	0.002569	0.002163	0.000942	0.000071
2265003030	Industrial Equipment	Sweepers/Scrubbers	4 Stroke	NOx	0.000457	0.000367	0.000129	0.000022
2265003040	Industrial Equipment	Other General Industrial Eqp	4 Stroke	NOx	0.000404	0.000336	0.000154	0.000045
2265003050	Industrial Equipment	Other Material Handling Eqp	4 Stroke	NOx	0.000040	0.000035	0.000021	0.000005
2265003060	Industrial Equipment	AC/Refrigeration	4 Stroke	NOx	0.000004	0.000003	0.000002	0.000001
2265003070	Industrial Equipment	Terminal Tractors	4 Stroke	NOx	0.000265	0.000208	0.000042	0.000005
2265004010	Lawn and Garden Equipment (Res)	Lawn mowers	4 Stroke	NOx	0.001305	0.001404	0.001269	0.000943
2265004011	Lawn and Garden Equipment (Com)	Lawn mowers	4 Stroke	NOx	0.001415	0.001474	0.000964	0.000977
2265004015	Lawn and Garden Equipment (Res)	Rotary Tillers < 6 HP	4 Stroke	NOx	0.000111	0.000119	0.000107	0.000079
2265004016	Lawn and Garden Equipment (Com)	Rotary Tillers < 6 HP	4 Stroke	NOx	0.000713	0.000756	0.000638	0.000503
2265004025	Lawn and Garden Equipment (Res)	Trimmers/Edgers/Brush Cutter	4 Stroke	NOx	0.000007	0.000008	0.000007	0.000005
2265004026	Lawn and Garden Equipment (Com)	Trimmers/Edgers/Brush Cutter	4 Stroke	NOx	0.000037	0.000035	0.000028	0.000030
2265004030	Lawn and Garden Equipment (Res)	Leafblowers/Vacuums	4 Stroke	NOx	0.000014	0.000015	0.000013	0.000010
2265004031	Lawn and Garden Equipment (Com)	Leafblowers/Vacuums	4 Stroke	NOx	0.002421	0.002225	0.001815	0.001511
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	0.000340	0.000331	0.000294	0.000329
2265004041	Lawn and Garden Equipment (Com)	Rear Engine Riding Mowers	4 Stroke	NOx	0.000196	0.000175	0.000164	0.000191
2265004046	Lawn and Garden Equipment (Com)	Front Mowers	4 Stroke	NOx	0.000207	0.000217	0.000208	0.000219
2265004051	Lawn and Garden Equipment (Com)	Shredders < 6 HP	4 Stroke	NOx	0.000081	0.000087	0.000076	0.000058
2265004055	Lawn and Garden Equipment (Res)	Lawn & Garden Tractors	4 Stroke	NOx	0.004677	0.004541	0.003957	0.004412
2265004056	Lawn and Garden Equipment (Com)	Lawn & Garden Tractors	4 Stroke	NOx	0.002741	0.002413	0.002231	0.002597
2265004066	Lawn and Garden Equipment (Com)	Chippers/Stump Grinders	4 Stroke	NOx	0.000876	0.000810	0.000509	0.000331



Appendix D-2: Juniata 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	NOx	0.009601	0.008735	0.006657	0.007330
2265004075	Lawn and Garden Equipment (Res)	Other Lawn & Garden Eqp.	4 Stroke	NOx	0.000128	0.000138	0.000135	0.000121
2265004076	Lawn and Garden Equipment (Com)	Other Lawn & Garden Eqp.	4 Stroke	NOx	0.000213	0.000229	0.000224	0.000199
2265005010	Agricultural Equipment	2-Wheel Tractors	4 Stroke	NOx	0.000033	0.000028	0.000026	0.000030
2265005015	Agricultural Equipment	Agricultural Tractors	4 Stroke	NOx	0.000363	0.000340	0.000198	0.000067
2265005020	Agricultural Equipment	Combines	4 Stroke	NOx	0.000003	0.000003	0.000002	0.000002
2265005025	Agricultural Equipment	Balers	4 Stroke	NOx	0.000258	0.000257	0.000224	0.000152
2265005030	Agricultural Equipment	Agricultural Mowers	4 Stroke	NOx	0.000027	0.000026	0.000023	0.000025
2265005035	Agricultural Equipment	Sprayers	4 Stroke	NOx	0.000419	0.000427	0.000382	0.000308
2265005040	Agricultural Equipment	Tillers > 6 HP	4 Stroke	NOx	0.000402	0.000426	0.000474	0.000558
2265005045	Agricultural Equipment	Swathers	4 Stroke	NOx	0.000408	0.000407	0.000354	0.000241
2265005055	Agricultural Equipment	Other Agricultural Equipment	4 Stroke	NOx	0.000488	0.000487	0.000426	0.000305
2265005060	Agricultural Equipment	Irrigation Sets	4 Stroke	NOx	0.000710	0.000658	0.000298	0.000085
2265006005	Commercial Equipment	Generator Sets	4 Stroke	NOx	0.001518	0.001540	0.001439	0.001665
2265006010	Commercial Equipment	Pumps	4 Stroke	NOx	0.000459	0.000450	0.000358	0.000362
2265006015	Commercial Equipment	Air Compressors	4 Stroke	NOx	0.000317	0.000306	0.000232	0.000182
2265006025	Commercial Equipment	Welders	4 Stroke	NOx	0.000572	0.000539	0.000478	0.000465
2265006030	Commercial Equipment	Pressure Washers	4 Stroke	NOx	0.000670	0.000660	0.000556	0.000651
2265006035	Commercial Equipment	Hydro Power Units	4 Stroke	NOx	0.000033	0.000031	0.000028	0.000034
2265007010	Logging Equipment	Shredders > 6 HP	4 Stroke	NOx	0.000400	0.000438	0.000469	0.000527
2265007015	Logging Equipment	Forest Eq - Feller/Bunch/Skidder	4 Stroke	NOx	0.000004	0.000005	0.000004	0.000004
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	0.000315	0.000275	0.000254	0.000257
2267001060	Recreational Equipment	Specialty Vehicle Carts	LPG	NOx	0.000064	0.000063	0.000053	0.000035
2267002003	Construction and Mining Equipment	Pavers	LPG	NOx	0.000009	0.000008	0.000005	0.000001
2267002015	Construction and Mining Equipment	Rollers	LPG	NOx	0.000014	0.000013	0.000006	0.000002
2267002021	Construction and Mining Equipment	Paving Equipment	LPG	NOx	0.000002	0.000002	0.000002	0.000001
2267002024	Construction and Mining Equipment	Surfacing Equipment	LPG	NOx	0.000001	0.000001	0.000001	0.000000
2267002030	Construction and Mining Equipment	Trenchers	LPG	NOx	0.000026	0.000025	0.000015	0.000004
2267002033	Construction and Mining Equipment	Bore/Drill Rigs	LPG	NOx	0.000009	0.000009	0.000008	0.000005
2267002039	Construction and Mining Equipment	Concrete/Industrial Saws	LPG	NOx	0.000025	0.000022	0.000007	0.000003
2267002045	Construction and Mining Equipment	Cranes	LPG	NOx	0.000009	0.000009	0.000007	0.000003
2267002054	Construction and Mining Equipment	Crushing/Proc. Equipment	LPG	NOx	0.000002	0.000002	0.000001	0.000000
2267002057	Construction and Mining Equipment	Rough Terrain Forklifts	LPG	NOx	0.000017	0.000016	0.000011	0.000003
2267002060	Construction and Mining Equipment	Rubber Tire Loaders	LPG	NOx	0.000042	0.000039	0.000022	0.000005
2267002066	Construction and Mining Equipment	Tractors/Loaders/Backhoes	LPG	NOx	0.000004	0.000004	0.000002	0.000000
2267002072	Construction and Mining Equipment	Skid Steer Loaders	LPG	NOx	0.000034	0.000034	0.000024	0.000010
2267002081	Construction and Mining Equipment	Other Construction Equipment	LPG	NOx	0.000014	0.000014	0.000011	0.000005
2267003010	Industrial Equipment	Aerial Lifts	LPG	NOx	0.001000	0.001000	0.000790	0.000384
2267003020	Industrial Equipment	Forklifts	LPG	NOx	0.094218	0.090731	0.051076	0.011914
2267003030	Industrial Equipment	Sweepers/Scrubbers	LPG	NOx	0.000719	0.000664	0.000267	0.000085
2267003040	Industrial Equipment	Other General Industrial Equipm	LPG	NOx	0.000220	0.000208	0.000100	0.000026
2267003050	Industrial Equipment	Other Material Handling Equipment	LPG	NOx	0.000054	0.000054	0.000042	0.000016
2267003070	Industrial Equipment	Terminal Tractors	LPG	NOx	0.000439	0.000395	0.000111	0.000049
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	0.000009	0.000008	0.000007	0.000004
2267005060	Agricultural Equipment	Irrigation Sets	LPG	NOx	0.000007	0.000006	0.000003	0.000001
2267006005	Commercial Equipment	Generator Sets	LPG	NOx	0.000902	0.000949	0.000870	0.000628
2267006010	Commercial Equipment	Pumps	LPG	NOx	0.000210	0.000216	0.000168	0.000084
2267006015	Commercial Equipment	Air Compressors	LPG	NOx	0.000253	0.000256	0.000175	0.000054
2267006025	Commercial Equipment	Welders	LPG	NOx	0.000316	0.000323	0.000232	0.000069
2267006030	Commercial Equipment	Pressure Washers	LPG	NOx	0.000004	0.000004	0.000004	0.000002
2267006035	Commercial Equipment	Hydro Power Units	LPG	NOx	0.000004	0.000004	0.000002	0.000001
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	0.000001	0.000001	0.000000	0.000000
2268003020	Industrial Equipment	Forklifts	CNG	NOx	0.006860	0.006546	0.003659	0.000855
2268003030	Industrial Equipment	Sweepers/Scrubbers	CNG	NOx	0.000008	0.000008	0.000004	0.000001
2268003040	Industrial Equipment	Other General Industrial Equipment	CNG	NOx	0.000005	0.000005	0.000003	0.000001
2268003060	Industrial Equipment	AC/Refrigeration	CNG	NOx	0.000008	0.000007	0.000003	0.000001
2268003070	Industrial Equipment	Terminal Tractors	CNG	NOx	0.000031	0.000028	0.000008	0.000003
2268005055	Agricultural Equipment	Other Agricultural Equipment	CNG	NOx	0.000010	0.000008	0.000005	0.000001
2268005060	Agricultural Equipment	Irrigation Sets	CNG	NOx	0.000804	0.000463	0.000052	0.000000
2268006005	Commercial Equipment	Generator Sets	CNG	NOx	0.000296	0.000301	0.000269	0.000191
2268006010	Commercial Equipment	Pumps	CNG	NOx	0.000015	0.000015	0.000012	0.000006
2268006015	Commercial Equipment	Air Compressors	CNG	NOx	0.000021	0.000021	0.000014	0.000004
2268006020	Commercial Equipment	Gas Compressors	CNG	NOx	0.000783	0.000275	0.000081	0.000101
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	0.001616	0.001157	0.000168	0.000132
2270001060	Recreational Equipment	Specialty Vehicle Carts	Diesel	NOx	0.000664	0.000673	0.000666	0.000544
2270002003	Construction and Mining Equipment	Pavers	Diesel	NOx	0.000694	0.000662	0.000565	0.000259
2270002006	Construction and Mining Equipment	Tampers/Rammers	Diesel	NOx	0.000002	0.000001	0.000001	0.000001
2270002009	Construction and Mining Equipment	Plate Compactors	Diesel	NOx	0.000024	0.000023	0.000020	0.000018
2270002015	Construction and Mining Equipment	Rollers	Diesel	NOx	0.001721	0.001662	0.001459	0.000736
2270002018	Construction and Mining Equipment	Scrapers	Diesel	NOx	0.001993	0.001915	0.001593	0.000698
2270002021	Construction and Mining Equipment	Paving Equipment	Diesel	NOx	0.000110	0.000106	0.000092	0.000052
2270002024	Construction and Mining Equipment	Surfacing Equipment	Diesel	NOx	0.000074	0.000073	0.000066	0.000045

Appendix D-2: Juniata 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	NOx	0.000208	0.000203	0.000185	0.000173
2270002030	Construction and Mining Equipment	Trenchers	Diesel	NOx	0.000801	0.000792	0.000736	0.000514
2270002033	Construction and Mining Equipment	Bore/Drill Rigs	Diesel	NOx	0.000951	0.000942	0.000870	0.000612
2270002036	Construction and Mining Equipment	Excavators	Diesel	NOx	0.006881	0.006482	0.005320	0.001824
2270002039	Construction and Mining Equipment	Concrete/Industrial Saws	Diesel	NOx	0.000054	0.000053	0.000051	0.000037
2270002042	Construction and Mining Equipment	Cement & Mortar Mixers	Diesel	NOx	0.000036	0.000036	0.000034	0.000026
2270002045	Construction and Mining Equipment	Cranes	Diesel	NOx	0.001874	0.001800	0.001509	0.000700
2270002048	Construction and Mining Equipment	Graders	Diesel	NOx	0.001748	0.001636	0.001339	0.000454
2270002051	Construction and Mining Equipment	Off-highway Trucks	Diesel	NOx	0.006490	0.006280	0.005255	0.002599
2270002054	Construction and Mining Equipment	Crushing/Proc. Equipment	Diesel	NOx	0.000329	0.000319	0.000277	0.000154
2270002057	Construction and Mining Equipment	Rough Terrain Forklifts	Diesel	NOx	0.002199	0.002172	0.001963	0.001020
2270002060	Construction and Mining Equipment	Rubber Tire Loaders	Diesel	NOx	0.008426	0.008137	0.007018	0.003546
2270002066	Construction and Mining Equipment	Tractors/Loaders/Backhoes	Diesel	NOx	0.005119	0.005066	0.004743	0.003138
2270002069	Construction and Mining Equipment	Crawler Tractor/Dozers	Diesel	NOx	0.007403	0.007082	0.005973	0.002624
2270002072	Construction and Mining Equipment	Skid Steer Loaders	Diesel	NOx	0.003282	0.003311	0.003240	0.002645
2270002075	Construction and Mining Equipment	Off-Highway Tractors	Diesel	NOx	0.000894	0.000874	0.000770	0.000453
2270002078	Construction and Mining Equipment	Dumpers/Tenders	Diesel	NOx	0.000011	0.000011	0.000010	0.000009
2270002081	Construction and Mining Equipment	Other Construction Equipment	Diesel	NOx	0.000868	0.000845	0.000742	0.000434
2270003010	Industrial Equipment	Aerial Lifts	Diesel	NOx	0.001039	0.001042	0.001006	0.000843
2270003020	Industrial Equipment	Forklifts	Diesel	NOx	0.010968	0.010868	0.009308	0.003480
2270003030	Industrial Equipment	Sweepers/Scrubbers	Diesel	NOx	0.005815	0.005563	0.004830	0.002027
2270003040	Industrial Equipment	Other General Industrial Eqp	Diesel	NOx	0.006623	0.006411	0.005484	0.002726
2270003050	Industrial Equipment	Other Material Handling Eqp	Diesel	NOx	0.000306	0.000302	0.000278	0.000196
2270003060	Industrial Equipment	AC\Refrigeration	Diesel	NOx	0.008785	0.008711	0.008302	0.006829
2270003070	Industrial Equipment	Terminal Tractors	Diesel	NOx	0.007504	0.007203	0.005824	0.001617
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	0.000008	0.000007	0.000006	0.000006
2270005015	Agricultural Equipment	Agricultural Tractors	Diesel	NOx	0.333900	0.323674	0.290448	0.184610
2270005020	Agricultural Equipment	Combines	Diesel	NOx	0.033854	0.033258	0.030351	0.020653
2270005025	Agricultural Equipment	Balers	Diesel	NOx	0.000145	0.000147	0.000145	0.000119
2270005030	Agricultural Equipment	Agricultural Mowers	Diesel	NOx	0.000031	0.000031	0.000028	0.000020
2270005035	Agricultural Equipment	Sprayers	Diesel	NOx	0.002399	0.002410	0.002322	0.001680
2270005040	Agricultural Equipment	Tillers > 6 HP	Diesel	NOx	0.000004	0.000004	0.000004	0.000003
2270005045	Agricultural Equipment	Swathers	Diesel	NOx	0.002370	0.002350	0.002208	0.001614
2270005055	Agricultural Equipment	Other Agricultural Equipment	Diesel	NOx	0.006975	0.006818	0.006125	0.003999
2270005060	Agricultural Equipment	Irrigation Sets	Diesel	NOx	0.004375	0.004328	0.003910	0.002182
2270006005	Commercial Equipment	Generator Sets	Diesel	NOx	0.003927	0.004033	0.004089	0.003425
2270006010	Commercial Equipment	Pumps	Diesel	NOx	0.000935	0.000960	0.000969	0.000798
2270006015	Commercial Equipment	Air Compressors	Diesel	NOx	0.002360	0.002397	0.002297	0.001460
2270006020	Commercial Equipment	Gas Compressors	Diesel	NOx	0.000000	0.000000	0.000000	0.000000
2270006025	Commercial Equipment	Welders	Diesel	NOx	0.001143	0.001179	0.001220	0.001096
2270006030	Commercial Equipment	Pressure Washers	Diesel	NOx	0.000131	0.000134	0.000136	0.000115
2270006035	Commercial Equipment	Hydro Power Units	Diesel	NOx	0.000102	0.000103	0.000099	0.000068
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	0.028064	0.024810	0.016607	0.003478
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	0.004373	0.004070	0.003158	0.001439
2275000000	Aircraft	All Aircraft Types and Operations	Other	NOx	0.000062	0.000062	0.000062	0.000062
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	0.002487	0.003000	0.004402	0.006273
2282005015	Pleasure Craft	Personal Water Craft	2 Stroke	NOx	0.000696	0.000920	0.001438	0.001857
2282010005	Pleasure Craft	Inboard/Sterndrive	4 Stroke	NOx	0.005572	0.005872	0.006710	0.008161
2282020005	Pleasure Craft	Inboard/Sterndrive	Diesel	NOx	0.007318	0.007730	0.008245	0.008699
2282020010	Pleasure Craft	Outboards	Diesel	NOx	0.000028	0.000028	0.000029	0.000031
2285002005	Railroad Equipment	Line Haul Locomotives	Diesel	NOx	2.175264	1.968396	1.644499	1.425450
2285002010	Railroad Equipment	Yard Locomotive	Diesel	NOx	0.000000	0.000000	0.000000	0.000000
2285002015	Railroad Equipment	Railway Maintenance	Diesel	NOx	0.006678	0.006710	0.006436	0.004626
2285004015	Railroad Equipment	Railway Maintenance	4 Stroke	NOx	0.000106	0.000096	0.000078	0.000078
2285006015	Railroad Equipment	Railway Maintenance	LPG	NOx	0.000016	0.000016	0.000012	0.000004
<b>Juniata County Total Summer Day NOx Emissions</b>					<b>2.880653</b>	<b>2.651558</b>	<b>2.219725</b>	<b>1.781287</b>

Appendix D-2: Juniata 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	0.052196	0.060611	0.069467	0.056243
2260001020	Recreational Equipment	Snowmobiles	2 Stroke	VOC	0.000000	0.000000	0.000000	0.000000
2260001030	Recreational Equipment	ATVs	2 Stroke	VOC	0.052125	0.071970	0.086472	0.035297
2260001060	Recreational Equipment	Specialty Vehicles/Carts	2 Stroke	VOC	0.001232	0.001164	0.001028	0.001061
2260002006	Construction and Mining Equipment	Tampers/Rammers	2 Stroke	VOC	0.000615	0.000589	0.000267	0.000265
2260002009	Construction and Mining Equipment	Plate Compactors	2 Stroke	VOC	0.000037	0.000023	0.000010	0.000010
2260002021	Construction and Mining Equipment	Paving Equipment	2 Stroke	VOC	0.000045	0.000026	0.000011	0.000012
2260002027	Construction and Mining Equipment	Signal Boards/Light Plants	2 Stroke	VOC	0.000000	0.000000	0.000000	0.000000
2260002039	Construction and Mining Equipment	Concrete/Industrial Saws	2 Stroke	VOC	0.001638	0.001348	0.000655	0.000671
2260002054	Construction and Mining Equipment	Crushing/Proc. Equipment	2 Stroke	VOC	0.000008	0.000004	0.000002	0.000002
2260003030	Industrial Equipment	Sweepers/Scrubbers	2 Stroke	VOC	0.000109	0.000051	0.000019	0.000007
2260003040	Industrial Equipment	Other General Industrial Eqp	2 Stroke	VOC	0.000009	0.000004	0.000002	0.000001
2260004015	Lawn and Garden Equipment (Res)	Rotary Tillers < 6 HP	2 Stroke	VOC	0.000609	0.000533	0.000257	0.000223
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	0.004961	0.004167	0.001708	0.001777
2260004021	Lawn and Garden Equipment (Com)	Chain Saws < 6 HP	2 Stroke	VOC	0.025872	0.022221	0.011197	0.013046
2260004025	Lawn and Garden Equipment (Res)	Trimmers/Edgers/Brush Cutter	2 Stroke	VOC	0.011663	0.009880	0.004255	0.004464
2260004026	Lawn and Garden Equipment (Com)	Trimmers/Edgers/Brush Cutter	2 Stroke	VOC	0.032562	0.023740	0.009119	0.010563
2260004030	Lawn and Garden Equipment (Res)	Leafblowers/Vacuums	2 Stroke	VOC	0.007952	0.006839	0.003362	0.003615
2260004031	Lawn and Garden Equipment (Com)	Leafblowers/Vacuums	2 Stroke	VOC	0.031234	0.025238	0.010635	0.012168
2260004035	Lawn and Garden Equipment (Res)	Snowblowers	2 Stroke	VOC	0.001028	0.001071	0.001179	0.001374
2260004036	Lawn and Garden Equipment (Com)	Snowblowers	2 Stroke	VOC	0.000154	0.000161	0.000177	0.000206
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	0.000769	0.000561	0.000198	0.000221
2260006005	Commercial Equipment	Generator Sets	2 Stroke	VOC	0.000416	0.000276	0.000124	0.000154
2260006010	Commercial Equipment	Pumps	2 Stroke	VOC	0.002832	0.001648	0.000881	0.001063
2260006015	Commercial Equipment	Air Compressors	2 Stroke	VOC	0.000001	0.000001	0.000000	0.000000
2260006035	Commercial Equipment	Hydro Power Units	2 Stroke	VOC	0.000016	0.000009	0.000005	0.000006
2260007005	Logging Equipment	Chain Saws > 6 HP	2 Stroke	VOC	0.012254	0.011600	0.006205	0.007858
2265001010	Recreational Equipment	Motorcycles: Off-Road	4 Stroke	VOC	0.002142	0.002414	0.002895	0.002814
2265001030	Recreational Equipment	ATVs	4 Stroke	VOC	0.022090	0.025986	0.032186	0.031411
2265001050	Recreational Equipment	Golf Carts	4 Stroke	VOC	0.007558	0.006760	0.006463	0.006891
2265001060	Recreational Equipment	Specialty Vehicles/Carts	4 Stroke	VOC	0.001309	0.001272	0.001167	0.001007
2265002003	Construction and Mining Equipment	Pavers	4 Stroke	VOC	0.000034	0.000030	0.000023	0.000021
2265002006	Construction and Mining Equipment	Tampers/Rammers	4 Stroke	VOC	0.000000	0.000000	0.000000	0.000000
2265002009	Construction and Mining Equipment	Plate Compactors	4 Stroke	VOC	0.000131	0.000128	0.000080	0.000067
2265002015	Construction and Mining Equipment	Rollers	4 Stroke	VOC	0.000054	0.000047	0.000039	0.000037
2265002021	Construction and Mining Equipment	Paving Equipment	4 Stroke	VOC	0.000191	0.000177	0.000123	0.000117
2265002024	Construction and Mining Equipment	Surfacing Equipment	4 Stroke	VOC	0.000068	0.000063	0.000042	0.000043
2265002027	Construction and Mining Equipment	Signal Boards/Light Plants	4 Stroke	VOC	0.000005	0.000004	0.000003	0.000003
2265002030	Construction and Mining Equipment	Trenchers	4 Stroke	VOC	0.000134	0.000124	0.000079	0.000074
2265002033	Construction and Mining Equipment	Bore/Drill Rigs	4 Stroke	VOC	0.000081	0.000080	0.000053	0.000042
2265002039	Construction and Mining Equipment	Concrete/Industrial Saws	4 Stroke	VOC	0.000195	0.000169	0.000146	0.000147
2265002042	Construction and Mining Equipment	Cement & Mortar Mixers	4 Stroke	VOC	0.000212	0.000196	0.000159	0.000129
2265002045	Construction and Mining Equipment	Cranes	4 Stroke	VOC	0.000007	0.000007	0.000005	0.000002
2265002054	Construction and Mining Equipment	Crushing/Proc. Equipment	4 Stroke	VOC	0.000018	0.000016	0.000011	0.000011
2265002057	Construction and Mining Equipment	Rough Terrain Forklifts	4 Stroke	VOC	0.000010	0.000010	0.000006	0.000001
2265002060	Construction and Mining Equipment	Rubber Tire Loaders	4 Stroke	VOC	0.000024	0.000023	0.000012	0.000002
2265002066	Construction and Mining Equipment	Tractors/Loaders/Backhoes	4 Stroke	VOC	0.000066	0.000057	0.000050	0.000050
2265002072	Construction and Mining Equipment	Skid Steer Loaders	4 Stroke	VOC	0.000047	0.000043	0.000033	0.000024
2265002078	Construction and Mining Equipment	Dumpers/Tenders	4 Stroke	VOC	0.000030	0.000028	0.000023	0.000020
2265002081	Construction and Mining Equipment	Other Construction Equipment	4 Stroke	VOC	0.000009	0.000009	0.000007	0.000003
2265003010	Industrial Equipment	Aerial Lifts	4 Stroke	VOC	0.000839	0.000707	0.000428	0.000136
2265003020	Industrial Equipment	Forklifts	4 Stroke	VOC	0.002206	0.001862	0.000807	0.000043
2265003030	Industrial Equipment	Sweepers/Scrubbers	4 Stroke	VOC	0.000699	0.000565	0.000227	0.000057
2265003040	Industrial Equipment	Other General Industrial Eqp	4 Stroke	VOC	0.002441	0.002115	0.000765	0.000262
2265003050	Industrial Equipment	Other Material Handling Eqp	4 Stroke	VOC	0.000060	0.000050	0.000030	0.000008
2265003060	Industrial Equipment	AC/Refrigeration	4 Stroke	VOC	0.000018	0.000014	0.000009	0.000003
2265003070	Industrial Equipment	Terminal Tractors	4 Stroke	VOC	0.000229	0.000180	0.000032	0.000003
2265004010	Lawn and Garden Equipment (Res)	Lawn mowers	4 Stroke	VOC	0.024473	0.024479	0.023515	0.019375
2265004011	Lawn and Garden Equipment (Com)	Lawn mowers	4 Stroke	VOC	0.016928	0.017642	0.010164	0.009530
2265004015	Lawn and Garden Equipment (Res)	Rotary Tillers < 6 HP	4 Stroke	VOC	0.002030	0.002043	0.001945	0.001543
2265004016	Lawn and Garden Equipment (Com)	Rotary Tillers < 6 HP	4 Stroke	VOC	0.008084	0.008015	0.006799	0.004299
2265004025	Lawn and Garden Equipment (Res)	Trimmers/Edgers/Brush Cutter	4 Stroke	VOC	0.000129	0.000132	0.000122	0.000102
2265004026	Lawn and Garden Equipment (Com)	Trimmers/Edgers/Brush Cutter	4 Stroke	VOC	0.000280	0.000282	0.000184	0.000171
2265004030	Lawn and Garden Equipment (Res)	Leafblowers/Vacuums	4 Stroke	VOC	0.000271	0.000278	0.000259	0.000223
2265004031	Lawn and Garden Equipment (Com)	Leafblowers/Vacuums	4 Stroke	VOC	0.005644	0.005021	0.004204	0.004274
2265004035	Lawn and Garden Equipment (Res)	Snowblowers	4 Stroke	VOC	0.002087	0.002176	0.002394	0.002789
2265004036	Lawn and Garden Equipment (Com)	Snowblowers	4 Stroke	VOC	0.000346	0.000361	0.000397	0.000462
2265004040	Lawn and Garden Equipment (Res)	Rear Engine Riding Mowers	4 Stroke	VOC	0.002747	0.002735	0.002729	0.003125
2265004041	Lawn and Garden Equipment (Com)	Rear Engine Riding Mowers	4 Stroke	VOC	0.000661	0.000587	0.000543	0.000632
2265004046	Lawn and Garden Equipment (Com)	Front Mowers	4 Stroke	VOC	0.001102	0.001053	0.000943	0.000974
2265004051	Lawn and Garden Equipment (Com)	Shredders < 6 HP	4 Stroke	VOC	0.000994	0.000968	0.000849	0.000543
2265004055	Lawn and Garden Equipment (Res)	Lawn & Garden Tractors	4 Stroke	VOC	0.030997	0.030369	0.029198	0.033234
2265004056	Lawn and Garden Equipment (Com)	Lawn & Garden Tractors	4 Stroke	VOC	0.008903	0.007720	0.006946	0.008083
2265004066	Lawn and Garden Equipment (Com)	Chippers/Stump Grinders	4 Stroke	VOC	0.001356	0.001224	0.000929	0.000839

Appendix D-2: Juniata 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	0.032876	0.031134	0.025447	0.026763
2265004075	Lawn and Garden Equipment (Res)	Other Lawn & Garden Eqp.	4 Stroke	VOC	0.001536	0.001498	0.001396	0.001174
2265004076	Lawn and Garden Equipment (Com)	Other Lawn & Garden Eqp.	4 Stroke	VOC	0.002304	0.002233	0.002044	0.001639
2265005010	Agricultural Equipment	2-Wheel Tractors	4 Stroke	VOC	0.000113	0.000098	0.000090	0.000102
2265005015	Agricultural Equipment	Agricultural Tractors	4 Stroke	VOC	0.000368	0.000340	0.000212	0.000099
2265005020	Agricultural Equipment	Combines	4 Stroke	VOC	0.000003	0.000003	0.000003	0.000002
2265005025	Agricultural Equipment	Balers	4 Stroke	VOC	0.000306	0.000309	0.000276	0.000188
2265005030	Agricultural Equipment	Agricultural Mowers	4 Stroke	VOC	0.000118	0.000106	0.000088	0.000093
2265005035	Agricultural Equipment	Sprayers	4 Stroke	VOC	0.001743	0.001696	0.001437	0.001165
2265005040	Agricultural Equipment	Tillers > 6 HP	4 Stroke	VOC	0.003345	0.003320	0.003191	0.002843
2265005045	Agricultural Equipment	Swathers	4 Stroke	VOC	0.000434	0.000436	0.000388	0.000264
2265005055	Agricultural Equipment	Other Agricultural Equipment	4 Stroke	VOC	0.000660	0.000643	0.000555	0.000443
2265005060	Agricultural Equipment	Irrigation Sets	4 Stroke	VOC	0.000674	0.000632	0.000279	0.000085
2265006005	Commercial Equipment	Generator Sets	4 Stroke	VOC	0.009284	0.009165	0.008274	0.009390
2265006010	Commercial Equipment	Pumps	4 Stroke	VOC	0.002530	0.002585	0.001628	0.001910
2265006015	Commercial Equipment	Air Compressors	4 Stroke	VOC	0.001012	0.001015	0.000704	0.000792
2265006025	Commercial Equipment	Welders	4 Stroke	VOC	0.001610	0.001509	0.001432	0.001648
2265006030	Commercial Equipment	Pressure Washers	4 Stroke	VOC	0.004553	0.004610	0.003504	0.003856
2265006035	Commercial Equipment	Hydro Power Units	4 Stroke	VOC	0.000158	0.000153	0.000126	0.000155
2265007010	Logging Equipment	Shredders > 6 HP	4 Stroke	VOC	0.002525	0.002448	0.002276	0.002475
2265007015	Logging Equipment	Forest Eqp - Feller/Bunch/Skidder	4 Stroke	VOC	0.000040	0.000042	0.000023	0.000029
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	0.001049	0.000894	0.000811	0.000821
2267001060	Recreational Equipment	Specialty Vehicle Carts	LPG	VOC	0.000017	0.000017	0.000015	0.000010
2267002003	Construction and Mining Equipment	Pavers	LPG	VOC	0.000002	0.000002	0.000001	0.000000
2267002015	Construction and Mining Equipment	Rollers	LPG	VOC	0.000004	0.000004	0.000002	0.000000
2267002021	Construction and Mining Equipment	Paving Equipment	LPG	VOC	0.000001	0.000001	0.000000	0.000000
2267002024	Construction and Mining Equipment	Surfacing Equipment	LPG	VOC	0.000000	0.000000	0.000000	0.000000
2267002030	Construction and Mining Equipment	Trenchers	LPG	VOC	0.000007	0.000007	0.000004	0.000001
2267002033	Construction and Mining Equipment	Bore/Drill Rigs	LPG	VOC	0.000002	0.000002	0.000002	0.000001
2267002039	Construction and Mining Equipment	Concrete/Industrial Saws	LPG	VOC	0.000007	0.000006	0.000002	0.000000
2267002045	Construction and Mining Equipment	Cranes	LPG	VOC	0.000003	0.000002	0.000002	0.000001
2267002054	Construction and Mining Equipment	Crushing/Proc. Equipment	LPG	VOC	0.000000	0.000000	0.000000	0.000000
2267002057	Construction and Mining Equipment	Rough Terrain Forklifts	LPG	VOC	0.000005	0.000004	0.000003	0.000001
2267002060	Construction and Mining Equipment	Rubber Tire Loaders	LPG	VOC	0.000011	0.000011	0.000006	0.000001
2267002066	Construction and Mining Equipment	Tractors/Loaders/Backhoes	LPG	VOC	0.000001	0.000001	0.000001	0.000000
2267002072	Construction and Mining Equipment	Skid Steer Loaders	LPG	VOC	0.000009	0.000009	0.000007	0.000003
2267002081	Construction and Mining Equipment	Other Construction Equipment	LPG	VOC	0.000004	0.000004	0.000003	0.000001
2267003010	Industrial Equipment	Aerial Lifts	LPG	VOC	0.000269	0.000271	0.000218	0.000101
2267003020	Industrial Equipment	Forklifts	LPG	VOC	0.025690	0.024964	0.014428	0.002047
2267003030	Industrial Equipment	Sweepers/Scrubbers	LPG	VOC	0.000198	0.000185	0.000075	0.000014
2267003040	Industrial Equipment	Other General Industrial Equipm	LPG	VOC	0.000060	0.000057	0.000028	0.000004
2267003050	Industrial Equipment	Other Material Handling Equipment	LPG	VOC	0.000015	0.000015	0.000012	0.000004
2267003070	Industrial Equipment	Terminal Tractors	LPG	VOC	0.000121	0.000111	0.000031	0.000007
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	0.000002	0.000002	0.000002	0.000001
2267005060	Agricultural Equipment	Irrigation Sets	LPG	VOC	0.000002	0.000002	0.000001	0.000000
2267006005	Commercial Equipment	Generator Sets	LPG	VOC	0.000183	0.000193	0.000179	0.000129
2267006010	Commercial Equipment	Pumps	LPG	VOC	0.000043	0.000044	0.000035	0.000016
2267006015	Commercial Equipment	Air Compressors	LPG	VOC	0.000053	0.000053	0.000037	0.000009
2267006025	Commercial Equipment	Welders	LPG	VOC	0.000085	0.000088	0.000065	0.000014
2267006030	Commercial Equipment	Pressure Washers	LPG	VOC	0.000001	0.000001	0.000001	0.000000
2267006035	Commercial Equipment	Hydro Power Units	LPG	VOC	0.000001	0.000001	0.000000	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	0.000110	0.000106	0.000061	0.000009
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	0.000001	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	0.000014	0.000008	0.000001	0.000000
2268006005	Commercial Equipment	Generator Sets	CNG	VOC	0.000004	0.000004	0.000003	0.000002
2268006010	Commercial Equipment	Pumps	CNG	VOC	0.000000	0.000000	0.000000	0.000000
2268006015	Commercial Equipment	Air Compressors	CNG	VOC	0.000000	0.000000	0.000000	0.000000
2268006020	Commercial Equipment	Gas Compressors	CNG	VOC	0.000014	0.000005	0.000001	0.000001
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	0.000027	0.000020	0.000002	0.000001
2270001060	Recreational Equipment	Specialty Vehicle Carts	Diesel	VOC	0.000212	0.000206	0.000181	0.000118
2270002003	Construction and Mining Equipment	Pavers	Diesel	VOC	0.000067	0.000060	0.000047	0.000027
2270002006	Construction and Mining Equipment	Tampers/Rammers	Diesel	VOC	0.000000	0.000000	0.000000	0.000000
2270002009	Construction and Mining Equipment	Plate Compactors	Diesel	VOC	0.000004	0.000004	0.000003	0.000002
2270002015	Construction and Mining Equipment	Rollers	Diesel	VOC	0.000190	0.000169	0.000127	0.000073
2270002018	Construction and Mining Equipment	Scrapers	Diesel	VOC	0.000139	0.000124	0.000092	0.000070
2270002021	Construction and Mining Equipment	Paving Equipment	Diesel	VOC	0.000012	0.000011	0.000008	0.000005
2270002024	Construction and Mining Equipment	Surfacing Equipment	Diesel	VOC	0.000008	0.000008	0.000006	0.000004

Appendix D-2: Juniata 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	0.000041	0.000037	0.000025	0.000017
2270002030	Construction and Mining Equipment	Trenchers	Diesel	VOC	0.000113	0.000102	0.000074	0.000040
2270002033	Construction and Mining Equipment	Bore/Drill Rigs	Diesel	VOC	0.000089	0.000085	0.000073	0.000050
2270002036	Construction and Mining Equipment	Excavators	Diesel	VOC	0.000549	0.000493	0.000402	0.000251
2270002039	Construction and Mining Equipment	Concrete/Industrial Saws	Diesel	VOC	0.000009	0.000008	0.000005	0.000003
2270002042	Construction and Mining Equipment	Cement & Mortar Mixers	Diesel	VOC	0.000004	0.000004	0.000004	0.000003
2270002045	Construction and Mining Equipment	Cranes	Diesel	VOC	0.000143	0.000131	0.000103	0.000067
2270002048	Construction and Mining Equipment	Graders	Diesel	VOC	0.000137	0.000123	0.000101	0.000064
2270002051	Construction and Mining Equipment	Off-highway Trucks	Diesel	VOC	0.000473	0.000409	0.000293	0.000256
2270002054	Construction and Mining Equipment	Crushing/Proc. Equipment	Diesel	VOC	0.000029	0.000027	0.000020	0.000012
2270002057	Construction and Mining Equipment	Rough Terrain Forklifts	Diesel	VOC	0.000273	0.000252	0.000190	0.000103
2270002060	Construction and Mining Equipment	Rubber Tire Loaders	Diesel	VOC	0.000683	0.000635	0.000502	0.000329
2270002066	Construction and Mining Equipment	Tractors/Loaders/Backhoes	Diesel	VOC	0.001178	0.001147	0.001003	0.000573
2270002069	Construction and Mining Equipment	Crawler Tractor/Dozers	Diesel	VOC	0.000593	0.000533	0.000409	0.000275
2270002072	Construction and Mining Equipment	Skid Steer Loaders	Diesel	VOC	0.001138	0.001093	0.000915	0.000530
2270002075	Construction and Mining Equipment	Off-Highway Tractors	Diesel	VOC	0.000080	0.000071	0.000051	0.000035
2270002078	Construction and Mining Equipment	Dumpers/Tenders	Diesel	VOC	0.000003	0.000003	0.000003	0.000002
2270002081	Construction and Mining Equipment	Other Construction Equipment	Diesel	VOC	0.000075	0.000069	0.000054	0.000035
2270003010	Industrial Equipment	Aerial Lifts	Diesel	VOC	0.000306	0.000303	0.000276	0.000183
2270003020	Industrial Equipment	Forklifts	Diesel	VOC	0.001082	0.001029	0.000788	0.000419
2270003030	Industrial Equipment	Sweepers/Scrubbers	Diesel	VOC	0.000560	0.000497	0.000391	0.000224
2270003040	Industrial Equipment	Other General Industrial Eqp	Diesel	VOC	0.000606	0.000570	0.000448	0.000274
2270003050	Industrial Equipment	Other Material Handling Eqp	Diesel	VOC	0.000057	0.000056	0.000050	0.000033
2270003060	Industrial Equipment	AC\Refrigeration	Diesel	VOC	0.001191	0.001012	0.000741	0.000398
2270003070	Industrial Equipment	Terminal Tractors	Diesel	VOC	0.000593	0.000565	0.000476	0.000285
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	0.000001	0.000001	0.000001	0.000001
2270005015	Agricultural Equipment	Agricultural Tractors	Diesel	VOC	0.041467	0.037295	0.028459	0.016750
2270005020	Agricultural Equipment	Combines	Diesel	VOC	0.003020	0.002951	0.002641	0.001882
2270005025	Agricultural Equipment	Balers	Diesel	VOC	0.000031	0.000029	0.000024	0.000015
2270005030	Agricultural Equipment	Agricultural Mowers	Diesel	VOC	0.000005	0.000005	0.000004	0.000002
2270005035	Agricultural Equipment	Sprayers	Diesel	VOC	0.000441	0.000410	0.000320	0.000189
2270005040	Agricultural Equipment	Tillers > 6 HP	Diesel	VOC	0.000000	0.000000	0.000000	0.000000
2270005045	Agricultural Equipment	Swathers	Diesel	VOC	0.000272	0.000270	0.000252	0.000182
2270005055	Agricultural Equipment	Other Agricultural Equipment	Diesel	VOC	0.000924	0.000849	0.000645	0.000387
2270005060	Agricultural Equipment	Irrigation Sets	Diesel	VOC	0.000569	0.000517	0.000385	0.000212
2270006005	Commercial Equipment	Generator Sets	Diesel	VOC	0.000596	0.000583	0.000515	0.000348
2270006010	Commercial Equipment	Pumps	Diesel	VOC	0.000131	0.000129	0.000115	0.000082
2270006015	Commercial Equipment	Air Compressors	Diesel	VOC	0.000295	0.000280	0.000222	0.000127
2270006020	Commercial Equipment	Gas Compressors	Diesel	VOC	0.000000	0.000000	0.000000	0.000000
2270006025	Commercial Equipment	Welders	Diesel	VOC	0.000450	0.000439	0.000378	0.000209
2270006030	Commercial Equipment	Pressure Washers	Diesel	VOC	0.000019	0.000018	0.000017	0.000013
2270006035	Commercial Equipment	Hydro Power Units	Diesel	VOC	0.000014	0.000013	0.000010	0.000006
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	0.002041	0.001776	0.001264	0.000606
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	0.000359	0.000306	0.000200	0.000115
2275000000	Aircraft	All Aircraft Types and Operations	Other	VOC	0.000117	0.000117	0.000117	0.000117
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	0.178242	0.167670	0.138303	0.104916
2282005015	Pleasure Craft	Personal Water Craft	2 Stroke	VOC	0.056539	0.050652	0.034199	0.023897
2282010005	Pleasure Craft	Inboard/Sterndrive	4 Stroke	VOC	0.016801	0.016869	0.016939	0.017097
2282020005	Pleasure Craft	Inboard/Sterndrive	Diesel	VOC	0.000274	0.000288	0.000299	0.000296
2282020010	Pleasure Craft	Outboards	Diesel	VOC	0.000007	0.000007	0.000005	0.000003
2285002005	Railroad Equipment	Line Haul Locomotives	Diesel	VOC	0.094018	0.097055	0.092298	0.092890
2285002010	Railroad Equipment	Yard Locomotive	Diesel	VOC	0.000000	0.000000	0.000000	0.000000
2285002015	Railroad Equipment	Railway Maintenance	Diesel	VOC	0.001296	0.001274	0.001146	0.000747
2285004015	Railroad Equipment	Railway Maintenance	4 Stroke	VOC	0.000447	0.000409	0.000315	0.000328
2285006015	Railroad Equipment	Railway Maintenance	LPG	VOC	0.000004	0.000004	0.000003	0.000001
<b>Juniata County Total Summer Day VOC Emissions</b>					<b>0.896874</b>	<b>0.877769</b>	<b>0.744046</b>	<b>0.610380</b>

Appendix D-2: Juniata 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	0.048886	0.056764	0.071629	0.076409
2260001020	Recreational Equipment	Snowmobiles	2 Stroke	CO	0.000000	0.000000	0.000000	0.000000
2260001030	Recreational Equipment	ATVs	2 Stroke	CO	0.048200	0.066558	0.101456	0.116369
2260001060	Recreational Equipment	Specialty Vehicles/Carts	2 Stroke	CO	0.031120	0.031972	0.034724	0.037240
2260002006	Construction and Mining Equipment	Tampers/Rammers	2 Stroke	CO	0.001665	0.001648	0.001378	0.001404
2260002009	Construction and Mining Equipment	Plate Compactors	2 Stroke	CO	0.000080	0.000065	0.000051	0.000053
2260002021	Construction and Mining Equipment	Paving Equipment	2 Stroke	CO	0.000096	0.000077	0.000062	0.000064
2260002027	Construction and Mining Equipment	Signal Boards/Light Plants	2 Stroke	CO	0.000001	0.000001	0.000000	0.000000
2260002039	Construction and Mining Equipment	Concrete/Industrial Saws	2 Stroke	CO	0.004400	0.004147	0.003570	0.003658
2260002054	Construction and Mining Equipment	Crushing/Proc. Equipment	2 Stroke	CO	0.000019	0.000015	0.000013	0.000013
2260003030	Industrial Equipment	Sweepers/Scrubbers	2 Stroke	CO	0.000251	0.000175	0.000107	0.000038
2260003040	Industrial Equipment	Other General Industrial Eqp	2 Stroke	CO	0.000020	0.000014	0.000009	0.000003
2260004015	Lawn and Garden Equipment (Res)	Rotary Tillers < 6 HP	2 Stroke	CO	0.001226	0.001116	0.000834	0.000888
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	0.010009	0.009151	0.006967	0.007894
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	0.023068	0.020697	0.014395	0.016169
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	0.014396	0.013108	0.009757	0.011038
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	0.001610	0.001360	0.000943	0.001064
2260006005	Commercial Equipment	Generator Sets	2 Stroke	CO	0.000893	0.000770	0.000679	0.000842
2260006010	Commercial Equipment	Pumps	2 Stroke	CO	0.006290	0.004992	0.004462	0.005459
2260006015	Commercial Equipment	Air Compressors	2 Stroke	CO	0.000002	0.000002	0.000002	0.000002
2260006035	Commercial Equipment	Hydro Power Units	2 Stroke	CO	0.000036	0.000030	0.000030	0.000037
2260007005	Logging Equipment	Chain Saws > 6 HP	2 Stroke	CO	0.033602	0.034727	0.034240	0.043363
2265001010	Recreational Equipment	Motorcycles: Off-Road	4 Stroke	CO	0.021732	0.025266	0.030285	0.028638
2265001030	Recreational Equipment	ATVs	4 Stroke	CO	0.195907	0.237045	0.321594	0.375902
2265001050	Recreational Equipment	Golf Carts	4 Stroke	CO	0.405034	0.422126	0.444483	0.473877
2265001060	Recreational Equipment	Specialty Vehicles/Carts	4 Stroke	CO	0.027384	0.027498	0.027976	0.029595
2265002003	Construction and Mining Equipment	Pavers	4 Stroke	CO	0.001490	0.001531	0.001535	0.001521
2265002006	Construction and Mining Equipment	Tampers/Rammers	4 Stroke	CO	0.000012	0.000012	0.000013	0.000013
2265002009	Construction and Mining Equipment	Plate Compactors	4 Stroke	CO	0.002751	0.002790	0.002850	0.002912
2265002015	Construction and Mining Equipment	Rollers	4 Stroke	CO	0.002792	0.002862	0.002847	0.002850
2265002021	Construction and Mining Equipment	Paving Equipment	4 Stroke	CO	0.005386	0.005485	0.005693	0.005844
2265002024	Construction and Mining Equipment	Surfacing Equipment	4 Stroke	CO	0.002441	0.002512	0.002572	0.002627
2265002027	Construction and Mining Equipment	Signal Boards/Light Plants	4 Stroke	CO	0.000124	0.000127	0.000129	0.000133
2265002030	Construction and Mining Equipment	Trenchers	4 Stroke	CO	0.004565	0.004670	0.004651	0.004596
2265002033	Construction and Mining Equipment	Bore/Drill Rigs	4 Stroke	CO	0.001345	0.001351	0.001339	0.001329
2265002039	Construction and Mining Equipment	Concrete/Industrial Saws	4 Stroke	CO	0.011274	0.011583	0.011697	0.011913
2265002042	Construction and Mining Equipment	Cement & Mortar Mixers	4 Stroke	CO	0.004716	0.004697	0.004844	0.005023
2265002045	Construction and Mining Equipment	Cranes	4 Stroke	CO	0.000189	0.000187	0.000160	0.000103
2265002054	Construction and Mining Equipment	Crushing/Proc. Equipment	4 Stroke	CO	0.000662	0.000682	0.000696	0.000702
2265002057	Construction and Mining Equipment	Rough Terrain Forklifts	4 Stroke	CO	0.000246	0.000236	0.000163	0.000048
2265002060	Construction and Mining Equipment	Rubber Tire Loaders	4 Stroke	CO	0.000591	0.000554	0.000311	0.000056
2265002066	Construction and Mining Equipment	Tractors/Loaders/Backhoes	4 Stroke	CO	0.003550	0.003668	0.003765	0.003835
2265002072	Construction and Mining Equipment	Skid Steer Loaders	4 Stroke	CO	0.001571	0.001584	0.001522	0.001346
2265002078	Construction and Mining Equipment	Dumpers/Tenders	4 Stroke	CO	0.000734	0.000731	0.000753	0.000783
2265002081	Construction and Mining Equipment	Other Construction Equipment	4 Stroke	CO	0.000207	0.000201	0.000160	0.000074
2265003010	Industrial Equipment	Aerial Lifts	4 Stroke	CO	0.024256	0.021813	0.015202	0.005115
2265003020	Industrial Equipment	Forklifts	4 Stroke	CO	0.054830	0.046895	0.021785	0.001502
2265003030	Industrial Equipment	Sweepers/Scrubbers	4 Stroke	CO	0.023570	0.020921	0.012401	0.003812
2265003040	Industrial Equipment	Other General Industrial Eqp	4 Stroke	CO	0.060130	0.054493	0.037845	0.013179
2265003050	Industrial Equipment	Other Material Handling Eqp	4 Stroke	CO	0.001854	0.001682	0.001176	0.000370
2265003060	Industrial Equipment	AC/Refrigeration	4 Stroke	CO	0.000745	0.000692	0.000506	0.000181
2265003070	Industrial Equipment	Terminal Tractors	4 Stroke	CO	0.005694	0.004604	0.001014	0.000100
2265004010	Lawn and Garden Equipment (Res)	Lawn mowers	4 Stroke	CO	0.240990	0.249680	0.271821	0.310725
2265004011	Lawn and Garden Equipment (Com)	Lawn mowers	4 Stroke	CO	0.266183	0.277424	0.298253	0.345787
2265004015	Lawn and Garden Equipment (Res)	Rotary Tillers < 6 HP	4 Stroke	CO	0.020299	0.021007	0.022832	0.026052
2265004016	Lawn and Garden Equipment (Com)	Rotary Tillers < 6 HP	4 Stroke	CO	0.129680	0.134976	0.147053	0.168657
2265004025	Lawn and Garden Equipment (Res)	Trimmers/Edgers/Brush Cutter	4 Stroke	CO	0.001353	0.001406	0.001529	0.001752
2265004026	Lawn and Garden Equipment (Com)	Trimmers/Edgers/Brush Cutter	4 Stroke	CO	0.006610	0.007007	0.007720	0.008964
2265004030	Lawn and Garden Equipment (Res)	Leafblowers/Vacuums	4 Stroke	CO	0.002587	0.002688	0.002921	0.003343
2265004031	Lawn and Garden Equipment (Com)	Leafblowers/Vacuums	4 Stroke	CO	0.264568	0.283283	0.310789	0.348354
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	0.056675	0.059520	0.067998	0.079851
2265004041	Lawn and Garden Equipment (Com)	Rear Engine Riding Mowers	4 Stroke	CO	0.034255	0.036750	0.041502	0.048377
2265004046	Lawn and Garden Equipment (Com)	Front Mowers	4 Stroke	CO	0.036993	0.038260	0.043039	0.051148
2265004051	Lawn and Garden Equipment (Com)	Shredders < 6 HP	4 Stroke	CO	0.014860	0.015456	0.016855	0.019309
2265004055	Lawn and Garden Equipment (Res)	Lawn & Garden Tractors	4 Stroke	CO	0.753555	0.792049	0.911271	1.071674
2265004056	Lawn and Garden Equipment (Com)	Lawn & Garden Tractors	4 Stroke	CO	0.460738	0.497109	0.564220	0.657710
2265004066	Lawn and Garden Equipment (Com)	Chippers/Stump Grinders	4 Stroke	CO	0.061188	0.064138	0.064663	0.068953

Appendix D-2: Juniata 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	1.425147	1.502289	1.632294	1.893144
2265004075	Lawn and Garden Equipment (Res)	Other Lawn & Garden Eqp.	4 Stroke	CO	0.024597	0.025453	0.027871	0.032675
2265004076	Lawn and Garden Equipment (Com)	Other Lawn & Garden Eqp.	4 Stroke	CO	0.040292	0.041692	0.045640	0.053477
2265005010	Agricultural Equipment	2-Wheel Tractors	4 Stroke	CO	0.005759	0.006162	0.006831	0.007736
2265005015	Agricultural Equipment	Agricultural Tractors	4 Stroke	CO	0.011649	0.011702	0.009514	0.007029
2265005020	Agricultural Equipment	Combines	4 Stroke	CO	0.000056	0.000056	0.000051	0.000036
2265005025	Agricultural Equipment	Balers	4 Stroke	CO	0.005295	0.005322	0.004785	0.003377
2265005030	Agricultural Equipment	Agricultural Mowers	4 Stroke	CO	0.004479	0.004657	0.005216	0.005973
2265005035	Agricultural Equipment	Sprayers	4 Stroke	CO	0.038333	0.039235	0.041626	0.045656
2265005040	Agricultural Equipment	Tillers > 6 HP	4 Stroke	CO	0.095321	0.097763	0.104235	0.116984
2265005045	Agricultural Equipment	Swathers	4 Stroke	CO	0.008387	0.008429	0.007579	0.005348
2265005055	Agricultural Equipment	Other Agricultural Equipment	4 Stroke	CO	0.017401	0.017729	0.017758	0.016791
2265005060	Agricultural Equipment	Irrigation Sets	4 Stroke	CO	0.016323	0.015612	0.008558	0.003419
2265006005	Commercial Equipment	Generator Sets	4 Stroke	CO	0.259260	0.277567	0.329827	0.413542
2265006010	Commercial Equipment	Pumps	4 Stroke	CO	0.059908	0.064761	0.074216	0.090884
2265006015	Commercial Equipment	Air Compressors	4 Stroke	CO	0.029760	0.032118	0.036213	0.043276
2265006025	Commercial Equipment	Welders	4 Stroke	CO	0.074764	0.081528	0.094163	0.113822
2265006030	Commercial Equipment	Pressure Washers	4 Stroke	CO	0.113547	0.122768	0.144571	0.179347
2265006035	Commercial Equipment	Hydro Power Units	4 Stroke	CO	0.005746	0.006281	0.007357	0.009108
2265007010	Logging Equipment	Shredders > 6 HP	4 Stroke	CO	0.074641	0.079465	0.094425	0.123121
2265007015	Logging Equipment	Forest Eq - Feller/Bunch/Skidder	4 Stroke	CO	0.000890	0.000967	0.001126	0.001426
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	0.068938	0.070547	0.071401	0.072238
2267001060	Recreational Equipment	Specialty Vehicle Carts	LPG	CO	0.000257	0.000260	0.000239	0.000170
2267002003	Construction and Mining Equipment	Pavers	LPG	CO	0.000035	0.000036	0.000027	0.000008
2267002015	Construction and Mining Equipment	Rollers	LPG	CO	0.000059	0.000060	0.000038	0.000009
2267002021	Construction and Mining Equipment	Paving Equipment	LPG	CO	0.000009	0.000009	0.000008	0.000004
2267002024	Construction and Mining Equipment	Surfacing Equipment	LPG	CO	0.000006	0.000006	0.000005	0.000001
2267002030	Construction and Mining Equipment	Trenchers	LPG	CO	0.000106	0.000109	0.000086	0.000024
2267002033	Construction and Mining Equipment	Bore/Drill Rigs	LPG	CO	0.000034	0.000035	0.000034	0.000025
2267002039	Construction and Mining Equipment	Concrete/Industrial Saws	LPG	CO	0.000103	0.000105	0.000053	0.000013
2267002045	Construction and Mining Equipment	Cranes	LPG	CO	0.000037	0.000038	0.000034	0.000017
2267002054	Construction and Mining Equipment	Crushing/Proc. Equipment	LPG	CO	0.000006	0.000006	0.000006	0.000003
2267002057	Construction and Mining Equipment	Rough Terrain Forklifts	LPG	CO	0.000067	0.000069	0.000057	0.000017
2267002060	Construction and Mining Equipment	Rubber Tire Loaders	LPG	CO	0.000168	0.000173	0.000130	0.000028
2267002066	Construction and Mining Equipment	Tractors/Loaders/Backhoes	LPG	CO	0.000018	0.000018	0.000013	0.000003
2267002072	Construction and Mining Equipment	Skid Steer Loaders	LPG	CO	0.000138	0.000142	0.000123	0.000057
2267002081	Construction and Mining Equipment	Other Construction Equipment	LPG	CO	0.000055	0.000057	0.000052	0.000029
2267003010	Industrial Equipment	Aerial Lifts	LPG	CO	0.003968	0.004174	0.003844	0.002135
2267003020	Industrial Equipment	Forklifts	LPG	CO	0.380158	0.397350	0.307270	0.069331
2267003030	Industrial Equipment	Sweepers/Scrubbers	LPG	CO	0.002937	0.003049	0.001901	0.000468
2267003040	Industrial Equipment	Other General Industrial Equipm	LPG	CO	0.000891	0.000928	0.000651	0.000148
2267003050	Industrial Equipment	Other Material Handling Equipment	LPG	CO	0.000215	0.000226	0.000206	0.000099
2267003070	Industrial Equipment	Terminal Tractors	LPG	CO	0.001799	0.001861	0.000997	0.000255
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	0.000034	0.000034	0.000031	0.000021
2267005060	Agricultural Equipment	Irrigation Sets	LPG	CO	0.000029	0.000029	0.000018	0.000003
2267006005	Commercial Equipment	Generator Sets	LPG	CO	0.002404	0.002673	0.002852	0.002402
2267006010	Commercial Equipment	Pumps	LPG	CO	0.000569	0.000631	0.000620	0.000370
2267006015	Commercial Equipment	Air Compressors	LPG	CO	0.000694	0.000767	0.000712	0.000281
2267006025	Commercial Equipment	Welders	LPG	CO	0.001253	0.001385	0.001272	0.000409
2267006030	Commercial Equipment	Pressure Washers	LPG	CO	0.000016	0.000018	0.000018	0.000011
2267006035	Commercial Equipment	Hydro Power Units	LPG	CO	0.000011	0.000012	0.000010	0.000004
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	0.000002	0.000002	0.000002	0.000001
2268003020	Industrial Equipment	Forklifts	CNG	CO	0.027724	0.028656	0.021871	0.004793
2268003030	Industrial Equipment	Sweepers/Scrubbers	CNG	CO	0.000033	0.000034	0.000026	0.000006
2268003040	Industrial Equipment	Other General Industrial Equipment	CNG	CO	0.000022	0.000022	0.000016	0.000003
2268003060	Industrial Equipment	AC\Refrigeration	CNG	CO	0.000032	0.000033	0.000022	0.000005
2268003070	Industrial Equipment	Terminal Tractors	CNG	CO	0.000127	0.000130	0.000068	0.000017
2268005055	Agricultural Equipment	Other Agricultural Equipment	CNG	CO	0.000045	0.000037	0.000021	0.000006
2268005060	Agricultural Equipment	Irrigation Sets	CNG	CO	0.003451	0.002031	0.000234	0.000000
2268006005	Commercial Equipment	Generator Sets	CNG	CO	0.000798	0.000849	0.000856	0.000693
2268006010	Commercial Equipment	Pumps	CNG	CO	0.000040	0.000043	0.000041	0.000026
2268006015	Commercial Equipment	Air Compressors	CNG	CO	0.000059	0.000062	0.000054	0.000020
2268006020	Commercial Equipment	Gas Compressors	CNG	CO	0.003504	0.003297	0.000420	0.000524
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	0.006870	0.006524	0.001263	0.000667
2270001060	Recreational Equipment	Specialty Vehicle Carts	Diesel	CO	0.000791	0.000771	0.000692	0.000457
2270002003	Construction and Mining Equipment	Pavers	Diesel	CO	0.000352	0.000309	0.000260	0.000113
2270002006	Construction and Mining Equipment	Tampers/Rammers	Diesel	CO	0.000001	0.000001	0.000001	0.000001
2270002009	Construction and Mining Equipment	Plate Compactors	Diesel	CO	0.000014	0.000014	0.000014	0.000015
2270002015	Construction and Mining Equipment	Rollers	Diesel	CO	0.001013	0.000916	0.000772	0.000373
2270002018	Construction and Mining Equipment	Scrapers	Diesel	CO	0.000916	0.000835	0.000701	0.000327
2270002021	Construction and Mining Equipment	Paving Equipment	Diesel	CO	0.000066	0.000060	0.000048	0.000027
2270002024	Construction and Mining Equipment	Surfacing Equipment	Diesel	CO	0.000050	0.000046	0.000038	0.000022

Appendix D-2: Juniata 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	0.000129	0.000122	0.000098	0.000080
2270002030	Construction and Mining Equipment	Trenchers	Diesel	CO	0.000608	0.000570	0.000479	0.000255
2270002033	Construction and Mining Equipment	Bore/Drill Rigs	Diesel	CO	0.000365	0.000350	0.000306	0.000187
2270002036	Construction and Mining Equipment	Excavators	Diesel	CO	0.002811	0.002382	0.002157	0.000669
2270002039	Construction and Mining Equipment	Concrete/Industrial Saws	Diesel	CO	0.000047	0.000044	0.000036	0.000019
2270002042	Construction and Mining Equipment	Cement & Mortar Mixers	Diesel	CO	0.000016	0.000016	0.000016	0.000013
2270002045	Construction and Mining Equipment	Cranes	Diesel	CO	0.000513	0.000471	0.000387	0.000187
2270002048	Construction and Mining Equipment	Graders	Diesel	CO	0.000662	0.000542	0.000480	0.000168
2270002051	Construction and Mining Equipment	Off-highway Trucks	Diesel	CO	0.002872	0.002406	0.001775	0.000375
2270002054	Construction and Mining Equipment	Crushing/Proc. Equipment	Diesel	CO	0.000120	0.000111	0.000093	0.000050
2270002057	Construction and Mining Equipment	Rough Terrain Forklifts	Diesel	CO	0.001513	0.001422	0.001237	0.000670
2270002060	Construction and Mining Equipment	Rubber Tire Loaders	Diesel	CO	0.003892	0.003568	0.002930	0.001375
2270002066	Construction and Mining Equipment	Tractors/Loaders/Backhoes	Diesel	CO	0.004754	0.004706	0.004515	0.002931
2270002069	Construction and Mining Equipment	Crawler Tractor/Dozers	Diesel	CO	0.003331	0.002957	0.002501	0.001037
2270002072	Construction and Mining Equipment	Skid Steer Loaders	Diesel	CO	0.004157	0.004132	0.003883	0.002653
2270002075	Construction and Mining Equipment	Off-Highway Tractors	Diesel	CO	0.000505	0.000453	0.000347	0.000154
2270002078	Construction and Mining Equipment	Dumpers/Tenders	Diesel	CO	0.000012	0.000012	0.000012	0.000008
2270002081	Construction and Mining Equipment	Other Construction Equipment	Diesel	CO	0.000483	0.000446	0.000361	0.000191
2270003010	Industrial Equipment	Aerial Lifts	Diesel	CO	0.001054	0.001077	0.001086	0.000821
2270003020	Industrial Equipment	Forklifts	Diesel	CO	0.006400	0.006378	0.006804	0.001180
2270003030	Industrial Equipment	Sweepers/Scrubbers	Diesel	CO	0.001969	0.001743	0.001614	0.000692
2270003040	Industrial Equipment	Other General Industrial Eqp	Diesel	CO	0.002136	0.002008	0.001707	0.000962
2270003050	Industrial Equipment	Other Material Handling Eqp	Diesel	CO	0.000196	0.000195	0.000187	0.000129
2270003060	Industrial Equipment	AC\Refrigeration	Diesel	CO	0.004543	0.004220	0.004196	0.002176
2270003070	Industrial Equipment	Terminal Tractors	Diesel	CO	0.002706	0.002461	0.002554	0.000571
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	0.000008	0.000008	0.000007	0.000006
2270005015	Agricultural Equipment	Agricultural Tractors	Diesel	CO	0.202357	0.186843	0.153447	0.083647
2270005020	Agricultural Equipment	Combines	Diesel	CO	0.012604	0.012413	0.011808	0.007743
2270005025	Agricultural Equipment	Balers	Diesel	CO	0.000105	0.000105	0.000102	0.000075
2270005030	Agricultural Equipment	Agricultural Mowers	Diesel	CO	0.000024	0.000024	0.000024	0.000017
2270005035	Agricultural Equipment	Sprayers	Diesel	CO	0.001419	0.001367	0.001221	0.000765
2270005040	Agricultural Equipment	Tillers > 6 HP	Diesel	CO	0.000003	0.000003	0.000002	0.000001
2270005045	Agricultural Equipment	Swathers	Diesel	CO	0.001213	0.001254	0.001349	0.001080
2270005055	Agricultural Equipment	Other Agricultural Equipment	Diesel	CO	0.004020	0.003787	0.003173	0.001792
2270005060	Agricultural Equipment	Irrigation Sets	Diesel	CO	0.001801	0.001717	0.001516	0.000886
2270006005	Commercial Equipment	Generator Sets	Diesel	CO	0.002104	0.002090	0.001999	0.001465
2270006010	Commercial Equipment	Pumps	Diesel	CO	0.000489	0.000488	0.000474	0.000363
2270006015	Commercial Equipment	Air Compressors	Diesel	CO	0.001116	0.001089	0.001031	0.000641
2270006020	Commercial Equipment	Gas Compressors	Diesel	CO	0.000000	0.000000	0.000000	0.000000
2270006025	Commercial Equipment	Welders	Diesel	CO	0.001656	0.001657	0.001552	0.000999
2270006030	Commercial Equipment	Pressure Washers	Diesel	CO	0.000063	0.000063	0.000060	0.000045
2270006035	Commercial Equipment	Hydro Power Units	Diesel	CO	0.000050	0.000049	0.000045	0.000029
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	0.009655	0.007888	0.006491	0.001239
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	0.001480	0.001261	0.000870	0.000326
2275000000	Aircraft	All Aircraft Types and Operations	Other	CO	0.005496	0.005496	0.005496	0.005496
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	0.305911	0.293818	0.258732	0.224307
2282005015	Pleasure Craft	Personal Water Craft	2 Stroke	CO	0.110704	0.107602	0.100907	0.100159
2282010005	Pleasure Craft	Inboard/Sterndrive	4 Stroke	CO	0.156360	0.152783	0.140871	0.119594
2282020005	Pleasure Craft	Inboard/Sterndrive	Diesel	CO	0.001158	0.001221	0.001380	0.001662
2282020010	Pleasure Craft	Outboards	Diesel	CO	0.000020	0.000019	0.000018	0.000013
2285002005	Railroad Equipment	Line Haul Locomotives	Diesel	CO	0.239559	0.247286	0.267712	0.308824
2285002010	Railroad Equipment	Yard Locomotive	Diesel	CO	0.000000	0.000000	0.000000	0.000000
2285002015	Railroad Equipment	Railway Maintenance	Diesel	CO	0.005515	0.005378	0.004889	0.003083
2285004015	Railroad Equipment	Railway Maintenance	4 Stroke	CO	0.015815	0.016567	0.017941	0.019538
2285006015	Railroad Equipment	Railway Maintenance	LPG	CO	0.000066	0.000068	0.000059	0.000024
<b>Juniata County Total Summer Day CO Emissions</b>					<b>7.626664</b>	<b>7.922544</b>	<b>8.344995</b>	<b>8.951601</b>