

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

Equipment Type	Fuel	Pollutant	Tons/Year			
			2002	2004	2009	2018
Recreational	Diesel	VOC	0.246972	0.239834	0.210692	0.136972
Recreational	Gasoline	VOC	233.265661	276.298298	312.603963	212.504816
Recreational	CNG	VOC	0.246972	0.239834	0.210692	0.136972
Recreational	LPG	VOC	0.020238	0.019936	0.017088	0.011153
Construction	Diesel	VOC	11.604207	10.774897	8.677468	5.438340
Construction	Gasoline	VOC	6.984310	6.093508	3.441915	3.269341
Construction	CNG	VOC	0.000017	0.000017	0.000013	0.000006
Construction	LPG	VOC	0.109486	0.105106	0.064497	0.018540
Industrial	Diesel	VOC	4.756733	4.316820	3.360118	1.909480
Industrial	Gasoline	VOC	6.132102	5.136607	2.107378	0.466432
Industrial	CNG	VOC	0.102251	0.098388	0.056357	0.008139
Industrial	LPG	VOC	24.208624	23.519550	13.587697	2.000877
Lawn and Garden	Diesel	VOC	0.269008	0.259067	0.217552	0.157872
Lawn and Garden	Gasoline	VOC	141.998282	131.212232	98.902637	97.754469
Lawn and Garden	CNG	VOC	0.000000	0.000000	0.000000	0.000000
Lawn and Garden	LPG	VOC	0.037138	0.035149	0.017844	0.002456
Farm	Diesel	VOC	9.837777	8.910813	6.890660	4.130432
Farm	Gasoline	VOC	1.783572	1.697595	1.388063	1.125597
Farm	CNG	VOC	0.002887	0.001699	0.000208	0.000005
Farm	LPG	VOC	0.000901	0.000852	0.000567	0.000273
Light Commercial	Diesel	VOC	2.818872	2.737380	2.354942	1.472259
Light Commercial	Gasoline	VOC	39.877745	36.936387	27.990260	31.415032
Light Commercial	CNG	VOC	0.033023	0.017473	0.008280	0.006520
Light Commercial	LPG	VOC	0.685282	0.712808	0.593118	0.317857
Logging	Diesel	VOC	0.199918	0.174013	0.123857	0.059380
Logging	Gasoline	VOC	1.426423	1.352307	0.797854	0.968801
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	0.259446	0.255206	0.229531	0.149500
Railway Maintenance	Gasoline	VOC	0.086758	0.078678	0.058602	0.060785
Railway Maintenance	CNG	VOC	0.000000	0.000000	0.000000	0.000000
Railway Maintenance	LPG	VOC	0.000894	0.000882	0.000660	0.000183
Recreational Marine Vessels	Diesel	VOC	0.130711	0.137216	0.141776	0.139205
Recreational Marine Vessels	Gasoline	VOC	103.250427	95.395884	73.545814	52.280389
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
Lawrence County VOC Totals			590.376637	606.758436	557.600101	415.942086

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Equipment Type	Fuel	Pollutant	Tons/Year			
			2002	2004	2009	2018
Recreational	Diesel	NOx	0.772453	0.782130	0.774660	0.632448
Recreational	Gasoline	NOx	5.585962	5.989583	7.288440	9.552465
Recreational	CNG	NOx	0.772453	0.782130	0.774660	0.632448
Recreational	LPG	NOx	0.074699	0.073426	0.062189	0.040378
Construction	Diesel	NOx	100.419907	97.134353	84.339730	43.816322
Construction	Gasoline	NOx	0.877811	0.807764	0.588385	0.467418
Construction	CNG	NOx	0.001050	0.001039	0.000827	0.000385
Construction	LPG	NOx	0.401526	0.382558	0.231170	0.080319
Industrial	Diesel	NOx	43.017450	42.108199	37.205107	20.408520
Industrial	Gasoline	NOx	4.779143	3.999076	1.772143	0.270285
Industrial	CNG	NOx	6.354438	6.061606	3.379759	0.791237
Industrial	LPG	NOx	88.786465	85.481185	48.123929	11.459363
Lawn and Garden	Diesel	NOx	1.801909	1.870554	1.931777	1.701824
Lawn and Garden	Gasoline	NOx	14.296577	14.061582	12.291578	12.673187
Lawn and Garden	CNG	NOx	0.000000	0.000000	0.000000	0.000000
Lawn and Garden	LPG	NOx	0.135782	0.127309	0.063166	0.014914
Farm	Diesel	NOx	80.853619	78.530693	70.640203	45.238204
Farm	Gasoline	NOx	0.783244	0.770394	0.606834	0.447471
Farm	CNG	NOx	0.171374	0.099236	0.011954	0.000278
Farm	LPG	NOx	0.003300	0.003103	0.002037	0.001034
Light Commercial	Diesel	NOx	16.106094	16.497219	16.504859	13.039113
Light Commercial	Gasoline	NOx	8.011792	7.929501	6.972584	7.582172
Light Commercial	CNG	NOx	2.088260	1.145899	0.703109	0.565723
Light Commercial	LPG	NOx	3.164150	3.282060	2.718841	1.569235
Logging	Diesel	NOx	2.749261	2.430483	1.626930	0.340770
Logging	Gasoline	NOx	0.061234	0.065249	0.064133	0.073309
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	1.337471	1.343784	1.288878	0.926484
Railway Maintenance	Gasoline	NOx	0.025308	0.022890	0.018754	0.018741
Railway Maintenance	CNG	NOx	0.000000	0.000000	0.000000	0.000000
Railway Maintenance	LPG	NOx	0.003304	0.003239	0.002368	0.000745
Recreational Marine Vessels	Diesel	NOx	3.421000	3.612980	3.853129	4.065453
Recreational Marine Vessels	Gasoline	NOx	4.583827	5.094395	6.454547	8.329167
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
Lawrence County NOx Totals			391.440864	380.493621	310.296679	184.739409

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Equipment Type	Fuel	Pollutant	Tons/Year			
			2002	2004	2009	2018
Recreational	Diesel	CO	0.919056	0.895929	0.804411	0.531734
Recreational	Gasoline	CO	962.652619	1076.690639	1270.758057	1342.466165
Recreational	CNG	CO	0.919056	0.895929	0.804411	0.531734
Recreational	LPG	CO	0.298857	0.301828	0.277881	0.197508
Construction	Diesel	CO	56.191374	51.742029	45.113810	22.894821
Construction	Gasoline	CO	95.283054	96.212170	94.965708	95.205912
Construction	CNG	CO	0.004183	0.004323	0.003940	0.002199
Construction	LPG	CO	1.620211	1.664952	1.280012	0.456743
Industrial	Diesel	CO	20.206127	19.164631	19.209558	7.316512
Industrial	Gasoline	CO	152.962849	135.072843	80.448696	21.737470
Industrial	CNG	CO	25.683338	26.545630	20.226978	4.435466
Industrial	LPG	CO	358.243513	374.428963	289.254061	66.543128
Lawn and Garden	Diesel	CO	0.943455	0.936995	0.887810	0.686957
Lawn and Garden	Gasoline	CO	1991.899883	2074.993852	2297.051312	2674.893271
Lawn and Garden	CNG	CO	0.000000	0.000000	0.000000	0.000000
Lawn and Garden	LPG	CO	0.550139	0.564453	0.399738	0.085412
Farm	Diesel	CO	47.063108	43.688164	36.346542	20.212776
Farm	Gasoline	CO	41.747701	42.442663	42.249847	43.538966
Farm	CNG	CO	0.735979	0.435374	0.053747	0.001244
Farm	LPG	CO	0.013344	0.013219	0.010340	0.005082
Light Commercial	Diesel	CO	10.263543	10.182236	9.666598	6.634803
Light Commercial	Gasoline	CO	999.085744	1072.714851	1255.458645	1554.650611
Light Commercial	CNG	CO	8.244138	7.962876	2.568433	2.367248
Light Commercial	LPG	CO	9.267808	10.277317	10.273674	6.514011
Logging	Diesel	CO	0.945847	0.772745	0.635939	0.121345
Logging	Gasoline	CO	10.461335	11.036762	12.424195	16.070298
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	1.104511	1.077054	0.979094	0.617400
Railway Maintenance	Gasoline	CO	3.068715	3.214692	3.481378	3.791267
Railway Maintenance	CNG	CO	0.000000	0.000000	0.000000	0.000000
Railway Maintenance	LPG	CO	0.013214	0.013666	0.011910	0.004742
Recreational Marine Vessels	Diesel	CO	0.548337	0.577752	0.650741	0.780375
Recreational Marine Vessels	Gasoline	CO	264.571532	255.880595	231.048664	205.067747
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
Lawrence County CO Totals			5065.512573	5320.405130	5727.346130	6098.362946

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

SCC	Classification	Equipment Type	Engine Type	Pollutant Code	2002 Emissions	2004 Emissions	2009 Emissions	2018 Emissions
2260001010	Recreational Equipment	Motorcycles: Off-Road	2 Stroke	NOx	0.143686	0.167168	0.273473	0.442908
2260001020	Recreational Equipment	Snowmobiles	2 Stroke	NOx	0.513537	0.560687	1.014611	2.815412
2260001030	Recreational Equipment	ATVs	2 Stroke	NOx	0.145284	0.199923	0.379508	0.642982
2260001060	Recreational Equipment	Specialty Vehicles/Carts	2 Stroke	NOx	0.214936	0.201407	0.164115	0.169113
2260002006	Construction and Mining Equipment	Tampers/Rammers	2 Stroke	NOx	0.014092	0.013552	0.007351	0.007373
2260002009	Construction and Mining Equipment	Plate Compactors	2 Stroke	NOx	0.000206	0.000349	0.000481	0.000493
2260002021	Construction and Mining Equipment	Paving Equipment	2 Stroke	NOx	0.000250	0.000426	0.000576	0.000590
2260002027	Construction and Mining Equipment	Signal Boards/Light Plants	2 Stroke	NOx	0.000002	0.000003	0.000004	0.000004
2260002039	Construction and Mining Equipment	Concrete/Industrial Saws	2 Stroke	NOx	0.033762	0.030572	0.018913	0.019379
2260002054	Construction and Mining Equipment	Crushing/Proc. Equipment	2 Stroke	NOx	0.000056	0.000092	0.000113	0.000116
2260003030	Industrial Equipment	Sweepers/Scrubbers	2 Stroke	NOx	0.000374	0.000541	0.000456	0.000162
2260003040	Industrial Equipment	Other General Industrial Eqp	2 Stroke	NOx	0.000030	0.000043	0.000036	0.000013
2260004015	Lawn and Garden Equipment (Res)	Rotary Tillers < 6 HP	2 Stroke	NOx	0.001957	0.002561	0.004864	0.006136
2260004016	Lawn and Garden Equipment (Com)	Rotary Tillers < 6 HP	2 Stroke	NOx	0.001454	0.002060	0.003917	0.004692
2260004020	Lawn and Garden Equipment (Res)	Chain Saws < 6 HP	2 Stroke	NOx	0.025523	0.036652	0.070328	0.084087
2260004021	Lawn and Garden Equipment (Com)	Chain Saws < 6 HP	2 Stroke	NOx	0.066300	0.065118	0.044569	0.051928
2260004025	Lawn and Garden Equipment (Res)	Trimmers/Edgers/Brush Cutter	2 Stroke	NOx	0.039167	0.053856	0.098730	0.117885
2260004026	Lawn and Garden Equipment (Com)	Trimmers/Edgers/Brush Cutter	2 Stroke	NOx	0.019816	0.028246	0.039208	0.045585
2260004030	Lawn and Garden Equipment (Res)	Leafblowers/Vacuums	2 Stroke	NOx	0.023309	0.033203	0.063084	0.075357
2260004031	Lawn and Garden Equipment (Com)	Leafblowers/Vacuums	2 Stroke	NOx	0.031552	0.037141	0.036564	0.042260
2260004035	Lawn and Garden Equipment (Res)	Snowblowers	2 Stroke	NOx	0.005765	0.006009	0.006612	0.007704
2260004036	Lawn and Garden Equipment (Com)	Snowblowers	2 Stroke	NOx	0.002266	0.002362	0.002599	0.003029
2260004071	Lawn and Garden Equipment (Com)	Commercial Turf Equipment	2 Stroke	NOx	0.000006	0.000010	0.000017	0.000020
2260005035	Agricultural Equipment	Sprayers	2 Stroke	NOx	0.000459	0.000698	0.001127	0.001279
2260006005	Commercial Equipment	Generator Sets	2 Stroke	NOx	0.002224	0.003916	0.006283	0.007791
2260006010	Commercial Equipment	Pumps	2 Stroke	NOx	0.017676	0.029957	0.042770	0.052946
2260006015	Commercial Equipment	Air Compressors	2 Stroke	NOx	0.000007	0.000012	0.000017	0.000021
2260006035	Commercial Equipment	Hydro Power Units	2 Stroke	NOx	0.000107	0.000186	0.000258	0.000320
2260007005	Logging Equipment	Chain Saws > 6 HP	2 Stroke	NOx	0.013843	0.013399	0.008750	0.011081
2265001010	Recreational Equipment	Motorcycles: Off-Road	4 Stroke	NOx	0.239619	0.278779	0.354529	0.392118
2265001030	Recreational Equipment	ATVs	4 Stroke	NOx	2.163208	2.623465	3.224912	3.112705
2265001050	Recreational Equipment	Golf Carts	4 Stroke	NOx	1.943208	1.729252	1.647480	1.756428
2265001060	Recreational Equipment	Specialty Vehicles/Carts	4 Stroke	NOx	0.222483	0.228902	0.229813	0.220799
2265002003	Construction and Mining Equipment	Pavers	4 Stroke	NOx	0.030429	0.027157	0.019651	0.014941
2265002006	Construction and Mining Equipment	Tampers/Rammers	4 Stroke	NOx	0.000169	0.000153	0.000122	0.000123
2265002009	Construction and Mining Equipment	Plate Compactors	4 Stroke	NOx	0.036145	0.034583	0.024239	0.022543
2265002015	Construction and Mining Equipment	Rollers	4 Stroke	NOx	0.052135	0.045841	0.031535	0.026127
2265002021	Construction and Mining Equipment	Paving Equipment	4 Stroke	NOx	0.075908	0.070870	0.054648	0.051989
2265002024	Construction and Mining Equipment	Surfacing Equipment	4 Stroke	NOx	0.031546	0.028105	0.022390	0.022121
2265002027	Construction and Mining Equipment	Signal Boards/Light Plants	4 Stroke	NOx	0.001481	0.001354	0.001014	0.001039
2265002030	Construction and Mining Equipment	Trenchers	4 Stroke	NOx	0.091844	0.083352	0.058588	0.043274
2265002033	Construction and Mining Equipment	Bore/Drill Rigs	4 Stroke	NOx	0.028859	0.028426	0.021238	0.015805
2265002039	Construction and Mining Equipment	Concrete/Industrial Saws	4 Stroke	NOx	0.156203	0.136429	0.105221	0.101532
2265002042	Construction and Mining Equipment	Cement & Mortar Mixers	4 Stroke	NOx	0.058967	0.060714	0.051273	0.044752
2265002045	Construction and Mining Equipment	Cranes	4 Stroke	NOx	0.015120	0.014396	0.010694	0.004425
2265002054	Construction and Mining Equipment	Crushing/Proc. Equipment	4 Stroke	NOx	0.010210	0.009167	0.007356	0.006411
2265002057	Construction and Mining Equipment	Rough Terrain Forklifts	4 Stroke	NOx	0.026058	0.024477	0.015602	0.004104
2265002060	Construction and Mining Equipment	Rubber Tire Loaders	4 Stroke	NOx	0.064477	0.059324	0.030938	0.006618
2265002066	Construction and Mining Equipment	Tractors/Loaders/Backhoes	4 Stroke	NOx	0.048985	0.042613	0.035356	0.034093
2265002072	Construction and Mining Equipment	Skid Steer Loaders	4 Stroke	NOx	0.068750	0.064331	0.046048	0.024662
2265002078	Construction and Mining Equipment	Dumpers/Tenders	4 Stroke	NOx	0.009658	0.009855	0.008609	0.007703
2265002081	Construction and Mining Equipment	Other Construction Equipment	4 Stroke	NOx	0.022500	0.021622	0.016425	0.007203
2265003010	Industrial Equipment	Aerial Lifts	4 Stroke	NOx	0.668218	0.578856	0.354063	0.106619
2265003020	Industrial Equipment	Forklifts	4 Stroke	NOx	2.820934	2.374602	1.034063	0.078129
2265003030	Industrial Equipment	Sweepers/Scrubbers	4 Stroke	NOx	0.502331	0.402972	0.141503	0.023853
2265003040	Industrial Equipment	Other General Industrial Eqp	4 Stroke	NOx	0.443678	0.369319	0.169342	0.048959
2265003050	Industrial Equipment	Other Material Handling Eqp	4 Stroke	NOx	0.044299	0.037918	0.022859	0.005458
2265003060	Industrial Equipment	AC Refrigeration	4 Stroke	NOx	0.007941	0.006005	0.003586	0.001270
2265003070	Industrial Equipment	Terminal Tractors	4 Stroke	NOx	0.291337	0.228820	0.046234	0.005822
2265004010	Lawn and Garden Equipment (Res)	Lawn mowers	4 Stroke	NOx	2.048635	2.203597	1.992510	1.480098
2265004011	Lawn and Garden Equipment (Com)	Lawn mowers	4 Stroke	NOx	0.266369	0.277580	0.181405	0.183944
2265004015	Lawn and Garden Equipment (Res)	Rotary Tillers < 6 HP	4 Stroke	NOx	0.173852	0.186713	0.168021	0.124028
2265004016	Lawn and Garden Equipment (Com)	Rotary Tillers < 6 HP	4 Stroke	NOx	0.134269	0.142345	0.120170	0.094690
2265004025	Lawn and Garden Equipment (Res)	Trimmers/Edgers/Brush Cutter	4 Stroke	NOx	0.011772	0.012431	0.010404	0.008186
2265004026	Lawn and Garden Equipment (Com)	Trimmers/Edgers/Brush Cutter	4 Stroke	NOx	0.006906	0.006641	0.005301	0.005670
2265004030	Lawn and Garden Equipment (Res)	Leafblowers/Vacuums	4 Stroke	NOx	0.022590	0.023849	0.019900	0.015616
2265004031	Lawn and Garden Equipment (Com)	Leafblowers/Vacuums	4 Stroke	NOx	0.455865	0.418831	0.341660	0.284488
2265004035	Lawn and Garden Equipment (Res)	Snowblowers	4 Stroke	NOx	0.187968	0.195897	0.215586	0.251181
2265004036	Lawn and Garden Equipment (Com)	Snowblowers	4 Stroke	NOx	0.073891	0.077007	0.084747	0.098739
2265004040	Lawn and Garden Equipment (Res)	Rear Engine Riding Mowers	4 Stroke	NOx	0.534376	0.520135	0.461401	0.516354
2265004041	Lawn and Garden Equipment (Com)	Rear Engine Riding Mowers	4 Stroke	NOx	0.036948	0.032931	0.030886	0.035946
2265004046	Lawn and Garden Equipment (Com)	Front Mowers	4 Stroke	NOx	0.038984	0.040788	0.039139	0.041155
2265004051	Lawn and Garden Equipment (Com)	Shredders < 6 HP	4 Stroke	NOx	0.015272	0.016317	0.014241	0.010910
2265004055	Lawn and Garden Equipment (Res)	Lawn & Garden Tractors	4 Stroke	NOx	7.341850	7.128399	6.212006	6.925685
2265004056	Lawn and Garden Equipment (Com)	Lawn & Garden Tractors	4 Stroke	NOx	0.516094	0.454354	0.420101	0.488875
2265004066	Lawn and Garden Equipment (Com)	Chippers/Stump Grinders	4 Stroke	NOx	0.164932	0.152501	0.095789	0.062263
2265004071	Lawn and Garden Equipment (Com)	Commercial Turf Equipment	4 Stroke	NOx	1.807456	1.644532	1.253227	1.379942
2265004075	Lawn and Garden Equipment (Res)	Other Lawn & Garden Eqp.	4 Stroke	NOx	0.201321	0.216441	0.212385	0.189240
2265004076	Lawn and Garden Equipment (Com)	Other Lawn & Garden Eqp.	4 Stroke	NOx	0.040110	0.043077	0.042205	0.037494
2265005010	Agricultural Equipment	2-Wheel Tractors	4 Stroke	NOx	0.008197	0.007127	0.006629	0.007506
2265005015	Agricultural Equipment	Agricultural Tractors	4 Stroke	NOx	0.091264	0.085598	0.049843	0.016973
2265005020	Agricultural Equipment	Combines	4 Stroke	NOx	0.000686	0.000684	0.000596	0.000405

Appendix D-2: Lawrence 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	0.064873	0.064663	0.056312	0.038336
2265005030	Agricultural Equipment	Agricultural Mowers	4 Stroke	NOx	0.006699	0.006536	0.005768	0.006182
2265005035	Agricultural Equipment	Sprayers	4 Stroke	NOx	0.105538	0.107492	0.096006	0.077473
2265005040	Agricultural Equipment	Tillers > 6 HP	4 Stroke	NOx	0.101167	0.107198	0.119296	0.140314
2265005045	Agricultural Equipment	Swathers	4 Stroke	NOx	0.102754	0.102421	0.089193	0.060720
2265005055	Agricultural Equipment	Other Agricultural Equipment	4 Stroke	NOx	0.122836	0.122458	0.107091	0.076822
2265005060	Agricultural Equipment	Irrigation Sets	4 Stroke	NOx	0.178770	0.165521	0.074972	0.021460
2265006005	Commercial Equipment	Generator Sets	4 Stroke	NOx	3.399494	3.448854	3.222511	3.728310
2265006010	Commercial Equipment	Pumps	4 Stroke	NOx	1.028814	1.006557	0.802644	0.810844
2265006015	Commercial Equipment	Air Compressors	4 Stroke	NOx	0.708959	0.686070	0.519393	0.407039
2265006025	Commercial Equipment	Welders	4 Stroke	NOx	1.280086	1.207042	1.070989	1.040912
2265006030	Commercial Equipment	Pressure Washers	4 Stroke	NOx	1.499675	1.477114	1.244056	1.457690
2265006035	Commercial Equipment	Hydro Power Units	4 Stroke	NOx	0.074749	0.069792	0.063664	0.076298
2265007010	Logging Equipment	Shredders > 6 HP	4 Stroke	NOx	0.046864	0.051316	0.054971	0.061705
2265007015	Logging Equipment	Forest Eq - Feller/Bunch/Skidder	4 Stroke	NOx	0.000527	0.000535	0.000413	0.000522
2265008005	Airport Equipment	Airport Ground Support Equipment	4 Stroke	NOx	0.000000	0.000000	0.000000	0.000000
2265010010	Industrial Equipment	Other Oil Field Equipment	4 Stroke	NOx	0.000000	0.000000	0.000000	0.000000
2267001060	Recreational Equipment	Specialty Vehicle Carts	LPG	NOx	0.074699	0.073426	0.062189	0.040378
2267002003	Construction and Mining Equipment	Pavers	LPG	NOx	0.016540	0.015767	0.009184	0.002541
2267002015	Construction and Mining Equipment	Rollers	LPG	NOx	0.027865	0.025559	0.010917	0.002975
2267002021	Construction and Mining Equipment	Paving Equipment	LPG	NOx	0.004361	0.004301	0.003330	0.001370
2267002024	Construction and Mining Equipment	Surfacing Equipment	LPG	NOx	0.002847	0.002694	0.001459	0.000417
2267002030	Construction and Mining Equipment	Trenchers	LPG	NOx	0.050628	0.048464	0.029344	0.007894
2267002033	Construction and Mining Equipment	Bore/Drill Rigs	LPG	NOx	0.016662	0.016697	0.014518	0.009636
2267002039	Construction and Mining Equipment	Concrete/Industrial Saws	LPG	NOx	0.048259	0.042548	0.012914	0.004934
2267002045	Construction and Mining Equipment	Cranes	LPG	NOx	0.017824	0.017572	0.013568	0.005443
2267002054	Construction and Mining Equipment	Crushing/Proc. Equipment	LPG	NOx	0.002967	0.002918	0.002214	0.000802
2267002057	Construction and Mining Equipment	Rough Terrain Forklifts	LPG	NOx	0.032189	0.031161	0.020768	0.005571
2267002060	Construction and Mining Equipment	Rubber Tire Loaders	LPG	NOx	0.080090	0.075931	0.041467	0.009158
2267002066	Construction and Mining Equipment	Tractors/Loaders/Backhoes	LPG	NOx	0.008509	0.007916	0.003643	0.000890
2267002072	Construction and Mining Equipment	Skid Steer Loaders	LPG	NOx	0.066176	0.064694	0.046892	0.019006
2267002081	Construction and Mining Equipment	Other Construction Equipment	LPG	NOx	0.026609	0.026335	0.020952	0.009682
2267003010	Industrial Equipment	Aerial Lifts	LPG	NOx	0.918289	0.918345	0.725656	0.353076
2267003020	Industrial Equipment	Forklifts	LPG	NOx	86.552786	83.350067	46.921023	10.944558
2267003030	Industrial Equipment	Sweepers/Scrubbers	LPG	NOx	0.660470	0.609626	0.244917	0.078050
2267003040	Industrial Equipment	Other General Industrial Equipm	LPG	NOx	0.201992	0.190681	0.092133	0.024012
2267003050	Industrial Equipment	Other Material Handling Equipment	LPG	NOx	0.049598	0.049501	0.038443	0.014389
2267003070	Industrial Equipment	Terminal Tractors	LPG	NOx	0.403330	0.362966	0.101758	0.045277
2267004066	Lawn and Garden Equipment (Com)	Chippers/Stump Grinders	LPG	NOx	0.135782	0.127309	0.063166	0.014914
2267005055	Agricultural Equipment	Other Agricultural Equipment	LPG	NOx	0.001792	0.001741	0.001453	0.000916
2267005060	Agricultural Equipment	Irrigation Sets	LPG	NOx	0.001508	0.001362	0.000584	0.000118
2267006005	Commercial Equipment	Generator Sets	LPG	NOx	1.689685	1.777034	1.630230	1.176336
2267006010	Commercial Equipment	Pumps	LPG	NOx	0.393492	0.404214	0.314415	0.157456
2267006015	Commercial Equipment	Air Compressors	LPG	NOx	0.474387	0.479568	0.328056	0.100790
2267006025	Commercial Equipment	Welders	LPG	NOx	0.591448	0.605819	0.435085	0.297226
2267006030	Commercial Equipment	Pressure Washers	LPG	NOx	0.007772	0.008131	0.006935	0.003466
2267006035	Commercial Equipment	Hydro Power Units	LPG	NOx	0.007366	0.007294	0.004121	0.001461
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	0.001050	0.001039	0.000827	0.000385
2268003020	Industrial Equipment	Forklifts	CNG	NOx	6.301723	6.013328	3.361341	0.785025
2268003030	Industrial Equipment	Sweepers/Scrubbers	CNG	NOx	0.007531	0.007177	0.003965	0.000922
2268003040	Industrial Equipment	Other General Industrial Equipment	CNG	NOx	0.004923	0.004666	0.002422	0.000582
2268003060	Industrial Equipment	AC\Refrigeration	CNG	NOx	0.011869	0.011080	0.004967	0.001559
2268003070	Industrial Equipment	Terminal Tractors	CNG	NOx	0.028392	0.025353	0.007064	0.003149
2268005055	Agricultural Equipment	Other Agricultural Equipment	CNG	NOx	0.002168	0.001771	0.000990	0.000278
2268005060	Agricultural Equipment	Irrigation Sets	CNG	NOx	0.169207	0.097465	0.010964	0.000000
2268006005	Commercial Equipment	Generator Sets	CNG	NOx	0.553823	0.564283	0.503717	0.357789
2268006010	Commercial Equipment	Pumps	CNG	NOx	0.027770	0.027838	0.022309	0.012041
2268006015	Commercial Equipment	Air Compressors	CNG	NOx	0.039723	0.038921	0.026170	0.007305
2268006020	Commercial Equipment	Gas Compressors	CNG	NOx	1.466944	0.514856	0.150913	0.188588
2268006035	Commercial Equipment	Hydro Power Units	CNG	NOx	0.000000	0.000000	0.000000	0.000000
2268010010	Industrial Equipment	Other Oil Field Equipment	CNG	NOx	0.000000	0.000000	0.000000	0.000000
2270001060	Recreational Equipment	Specialty Vehicle Carts	Diesel	NOx	0.772453	0.782130	0.774660	0.632448
2270002003	Construction and Mining Equipment	Pavers	Diesel	NOx	1.334964	1.273843	1.087377	0.497959
2270002006	Construction and Mining Equipment	Tampers/Rammers	Diesel	NOx	0.002934	0.002861	0.002461	0.002105
2270002009	Construction and Mining Equipment	Plate Compactors	Diesel	NOx	0.045766	0.044498	0.038536	0.034489
2270002015	Construction and Mining Equipment	Rollers	Diesel	NOx	3.312271	3.198395	2.808215	1.417029
2270002018	Construction and Mining Equipment	Scrapers	Diesel	NOx	3.834857	3.685506	3.065389	1.342539
2270002021	Construction and Mining Equipment	Paving Equipment	Diesel	NOx	0.211107	0.204056	0.176918	0.100534
2270002024	Construction and Mining Equipment	Surfacing Equipment	Diesel	NOx	0.142247	0.139790	0.127924	0.087344
2270002027	Construction and Mining Equipment	Signal Boards/Light Plants	Diesel	NOx	0.399995	0.390563	0.355131	0.332650
2270002030	Construction and Mining Equipment	Trenchers	Diesel	NOx	1.540823	1.523142	1.417026	0.988401
2270002033	Construction and Mining Equipment	Bore/Drill Rigs	Diesel	NOx	1.829303	1.813124	1.674950	1.178101
2270002036	Construction and Mining Equipment	Excavators	Diesel	NOx	13.239605	12.471569	10.236630	3.509138
2270002039	Construction and Mining Equipment	Concrete/Industrial Saws	Diesel	NOx	0.103601	0.102215	0.097298	0.071245
2270002042	Construction and Mining Equipment	Cement & Mortar Mixers	Diesel	NOx	0.068729	0.068537	0.064752	0.049802
2270002045	Construction and Mining Equipment	Cranes	Diesel	NOx	3.605540	3.463015	2.904408	1.346457
2270002048	Construction and Mining Equipment	Graders	Diesel	NOx	3.364006	3.147263	2.576792	0.874264
2270002051	Construction and Mining Equipment	Off-highway Trucks	Diesel	NOx	12.487431	12.082854	10.111792	5.000810
2270002054	Construction and Mining Equipment	Crushing/Proc. Equipment	Diesel	NOx	0.633034	0.614348	0.532285	0.297026
2270002057	Construction and Mining Equipment	Rough Terrain Forklifts	Diesel	NOx	4.231960	4.178533	3.777480	1.963394
2270002060	Construction and Mining Equipment	Rubber Tire Loaders	Diesel	NOx	16.212104	15.656974	13.502932	6.822476

Appendix D-2: Lawrence 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	9.849595	9.747061	9.125894	6.038416
2270002069	Construction and Mining Equipment	Crawler Tractor/Dozers	Diesel	NOx	14.245360	13.626936	11.492558	5.048369
2270002072	Construction and Mining Equipment	Skid Steer Loaders	Diesel	NOx	6.315267	6.370847	6.234654	5.089808
2270002075	Construction and Mining Equipment	Off-Highway Tractors	Diesel	NOx	1.719403	1.682566	1.480815	0.871671
2270002078	Construction and Mining Equipment	Dumpers/Tenders	Diesel	NOx	0.020326	0.020485	0.020132	0.016590
2270002081	Construction and Mining Equipment	Other Construction Equipment	Diesel	NOx	1.669678	1.625372	1.427383	0.835705
2270003010	Industrial Equipment	Aerial Lifts	Diesel	NOx	0.954791	0.957372	0.923961	0.774804
2270003020	Industrial Equipment	Forklifts	Diesel	NOx	10.075982	9.984201	8.550739	3.197142
2270003030	Industrial Equipment	Sweepers/Scrubbers	Diesel	NOx	5.341910	5.110142	4.437133	1.862161
2270003040	Industrial Equipment	Other General Industrial Eqp	Diesel	NOx	6.083956	5.889098	5.038100	2.503928
2270003050	Industrial Equipment	Other Material Handling Eqp	Diesel	NOx	0.281396	0.277603	0.255159	0.180053
2270003060	Industrial Equipment	AC\Refrigeration	Diesel	NOx	13.385750	13.273212	12.650002	10.404960
2270003070	Industrial Equipment	Terminal Tractors	Diesel	NOx	6.893666	6.616570	5.350012	1.485473
2270004031	Lawn and Garden Equipment (Com)	Leafblowers/Vacuums	Diesel	NOx	0.000101	0.000106	0.000115	0.000121
2270004036	Lawn and Garden Equipment (Com)	Snowblowers	Diesel	NOx	0.027026	0.028197	0.008729	0.021926
2270004046	Lawn and Garden Equipment (Com)	Front Mowers	Diesel	NOx	0.618499	0.639482	0.664128	0.675881
2270004056	Lawn and Garden Equipment (Com)	Lawn & Garden Tractors	Diesel	NOx	0.136494	0.137187	0.132846	0.146201
2270004066	Lawn and Garden Equipment (Com)	Chippers/Stump Grinders	Diesel	NOx	0.924162	0.969513	1.009356	0.791360
2270004071	Lawn and Garden Equipment (Com)	Commercial Turf Equipment	Diesel	NOx	0.093202	0.093524	0.093909	0.063717
2270004076	Lawn and Garden Equipment (Com)	Other Lawn & Garden Eqp.	Diesel	NOx	0.002426	0.002544	0.003694	0.002618
2270005010	Agricultural Equipment	2-Wheel Tractors	Diesel	NOx	0.001624	0.001510	0.001172	0.001195
2270005015	Agricultural Equipment	Agricultural Tractors	Diesel	NOx	70.293538	68.140730	61.145899	38.864563
2270005020	Agricultural Equipment	Combines	Diesel	NOx	7.127066	7.001672	6.389498	4.347839
2270005025	Agricultural Equipment	Balers	Diesel	NOx	0.030549	0.030942	0.030616	0.025104
2270005030	Agricultural Equipment	Agricultural Mowers	Diesel	NOx	0.006513	0.006440	0.005999	0.004178
2270005035	Agricultural Equipment	Sprayers	Diesel	NOx	0.505100	0.507419	0.488824	0.353753
2270005040	Agricultural Equipment	Tillers > 6 HP	Diesel	NOx	0.000831	0.000834	0.000794	0.000568
2270005045	Agricultural Equipment	Swathers	Diesel	NOx	0.499033	0.494676	0.464923	0.339797
2270005055	Agricultural Equipment	Other Agricultural Equipment	Diesel	NOx	1.468393	1.435358	1.289356	0.841852
2270005060	Agricultural Equipment	Irrigation Sets	Diesel	NOx	0.920972	0.911112	0.823122	0.459355
2270006005	Commercial Equipment	Generator Sets	Diesel	NOx	7.356653	7.554156	7.660742	6.415383
2270006010	Commercial Equipment	Pumps	Diesel	NOx	1.751371	1.798184	1.815036	1.495189
2270006015	Commercial Equipment	Air Compressors	Diesel	NOx	4.420663	4.490203	4.303007	2.734506
2270006020	Commercial Equipment	Gas Compressors	Diesel	NOx	0.000000	0.000000	0.000000	0.000000
2270006025	Commercial Equipment	Welders	Diesel	NOx	2.140437	2.209360	2.285395	2.052426
2270006030	Commercial Equipment	Pressure Washers	Diesel	NOx	0.245754	0.251943	0.254632	0.214728
2270006035	Commercial Equipment	Hydro Power Units	Diesel	NOx	0.191215	0.193374	0.186047	0.126879
2270007010	Logging Equipment	Shredders > 6 HP	Diesel	NOx	0.000000	0.000000	0.000000	0.000000
2270007015	Logging Equipment	Forest Eqp - Feller/Bunch/Skidder	Diesel	NOx	2.749261	2.430483	1.626930	0.340770
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	0.000000	0.000000	0.000000	0.000000
2275000000	Aircraft	All Aircraft Types and Operations	Other	NOx				
2275070000	Aircraft	Auxiliary Power Units	Other	NOx				
2280000000	Marine Vessels	Commercial	All Fuels	NOx				
2280001000	Marine Vessels	Commercial	Coal	NOx				
2280002000	Marine Vessels	Commercial	Diesel	NOx				
2280003000	Marine Vessels	Commercial	Residual Fuel	NOx				
2280004000	Marine Vessels	Commercial	Gasoline	NOx				
2282005010	Pleasure Craft	Outboard	2 Stroke	NOx	1.158142	1.397307	2.050116	2.921523
2282005015	Pleasure Craft	Personal Water Craft	2 Stroke	NOx	0.324236	0.428496	0.669544	0.864580
2282010005	Pleasure Craft	Inboard/Stern Drive	4 Stroke	NOx	3.101449	3.268592	3.734887	4.543064
2282020005	Pleasure Craft	Inboard/Stern Drive	Diesel	NOx	3.408167	3.599860	3.839464	4.050981
2282020010	Pleasure Craft	Outboards	Diesel	NOx	0.012833	0.013120	0.013665	0.014472
2285002005	Railroad Equipment	Line Haul Locomotives	Diesel	NOx				
2285002010	Railroad Equipment	Yard Locomotive	Diesel	NOx				
2285002015	Railroad Equipment	Railway Maintenance	Diesel	NOx	1.337471	1.343784	1.288878	0.926484
2285004015	Railroad Equipment	Railway Maintenance	4 Stroke	NOx	0.025308	0.022890	0.018754	0.018741
2285006015	Railroad Equipment	Railway Maintenance	LPG	NOx	0.003304	0.003239	0.002368	0.000745
Lawrence County Total Annual NOx Emissions					390.668411	379.711491	309.522020	184.106961

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

SCC	Classification	Equipment Type	Engine Type	Pollutant Code	2002 Emissions	2004 Emissions	2009 Emissions	2018 Emissions
2260001010	Recreational Equipment	Motorcycles: Off-Road	2 Stroke	VOC	60.042368	69.720505	79.885609	64.789120
2260001020	Recreational Equipment	Snowmobiles	2 Stroke	VOC	78.529674	85.628094	88.889353	63.020778
2260001030	Recreational Equipment	ATVs	2 Stroke	VOC	59.941908	82.765078	99.250187	39.960818
2260001060	Recreational Equipment	Specialty Vehicles/Carts	2 Stroke	VOC	1.201540	1.118819	0.952613	0.973887
2260002006	Construction and Mining Equipment	Tampers/Rammers	2 Stroke	VOC	1.178119	1.127898	0.507873	0.503829
2260002009	Construction and Mining Equipment	Plate Compactors	2 Stroke	VOC	0.071350	0.043176	0.017818	0.018256
2260002021	Construction and Mining Equipment	Paving Equipment	2 Stroke	VOC	0.085024	0.050019	0.021216	0.021738
2260002027	Construction and Mining Equipment	Signal Boards/Light Plants	2 Stroke	VOC	0.000610	0.000333	0.000183	0.000187
2260002039	Construction and Mining Equipment	Concrete/Industrial Saws	2 Stroke	VOC	3.146890	2.589721	1.255455	1.286345
2260002054	Construction and Mining Equipment	Crushing/Proc. Equipment	2 Stroke	VOC	0.015788	0.008428	0.004293	0.004399
2260003030	Industrial Equipment	Sweepers/Scrubbers	2 Stroke	VOC	0.099529	0.046271	0.017589	0.006235
2260003040	Industrial Equipment	Other General Industrial Eqp	2 Stroke	VOC	0.007899	0.003659	0.001382	0.000490
2260004015	Lawn and Garden Equipment (Res)	Rotary Tillers < 6 HP	2 Stroke	VOC	0.764102	0.662710	0.296410	0.245120
2260004016	Lawn and Garden Equipment (Com)	Rotary Tillers < 6 HP	2 Stroke	VOC	0.539999	0.445166	0.150010	0.147364
2260004020	Lawn and Garden Equipment (Res)	Chain Saws < 6 HP	2 Stroke	VOC	9.872729	8.184067	2.968171	3.010777
2260004021	Lawn and Garden Equipment (Com)	Chain Saws < 6 HP	2 Stroke	VOC	6.503419	5.584502	2.809894	3.273832
2260004025	Lawn and Garden Equipment (Res)	Trimmers/Edgers/Brush Cutter	2 Stroke	VOC	14.541497	12.167629	4.698196	4.826144
2260004026	Lawn and Garden Equipment (Com)	Trimmers/Edgers/Brush Cutter	2 Stroke	VOC	5.122810	3.733042	1.429716	1.656030
2260004030	Lawn and Garden Equipment (Res)	Leafblowers/Vacuums	2 Stroke	VOC	9.562692	8.062910	3.404038	3.570179
2260004031	Lawn and Garden Equipment (Com)	Leafblowers/Vacuums	2 Stroke	VOC	4.914023	3.969416	1.668803	1.909271
2260004035	Lawn and Garden Equipment (Res)	Snowblowers	2 Stroke	VOC	5.529567	5.763361	6.343592	7.392382
2260004036	Lawn and Garden Equipment (Com)	Snowblowers	2 Stroke	VOC	1.923571	2.004925	2.206819	2.571738
2260004071	Lawn and Garden Equipment (Com)	Commercial Turf Equipment	2 Stroke	VOC	0.002209	0.001542	0.000555	0.000646
2260005035	Agricultural Equipment	Sprayers	2 Stroke	VOC	0.160584	0.116646	0.040220	0.044909
2260006005	Commercial Equipment	Generator Sets	2 Stroke	VOC	0.768778	0.506607	0.220961	0.274073
2260006010	Commercial Equipment	Pumps	2 Stroke	VOC	5.271004	3.052025	1.608628	1.940080
2260006015	Commercial Equipment	Air Compressors	2 Stroke	VOC	0.001869	0.001029	0.000614	0.000762
2260006035	Commercial Equipment	Hydro Power Units	2 Stroke	VOC	0.029150	0.016150	0.009526	0.011812
2260007005	Logging Equipment	Chain Saws > 6 HP	2 Stroke	VOC	1.199446	1.135252	0.606539	0.768160
2265001010	Recreational Equipment	Motorcycles: Off-Road	4 Stroke	VOC	2.233078	2.507456	3.021889	3.077406
2265001030	Recreational Equipment	ATVs	4 Stroke	VOC	23.314074	27.337549	33.799909	33.711682
2265001050	Recreational Equipment	Golf Carts	4 Stroke	VOC	6.683233	5.949089	5.668943	6.043831
2265001060	Recreational Equipment	Specialty Vehicles/Carts	4 Stroke	VOC	1.319785	1.271708	1.135461	0.927295
2265002003	Construction and Mining Equipment	Pavers	4 Stroke	VOC	0.065040	0.057173	0.042884	0.039806
2265002006	Construction and Mining Equipment	Tampers/Rammers	4 Stroke	VOC	0.000550	0.000479	0.000377	0.000380
2265002009	Construction and Mining Equipment	Plate Compactors	4 Stroke	VOC	0.255317	0.249530	0.152800	0.126477
2265002015	Construction and Mining Equipment	Rollers	4 Stroke	VOC	0.105283	0.090867	0.073367	0.070335
2265002021	Construction and Mining Equipment	Paving Equipment	4 Stroke	VOC	0.355105	0.327486	0.218846	0.204700
2265002024	Construction and Mining Equipment	Surfacing Equipment	4 Stroke	VOC	0.131425	0.121187	0.079684	0.080967
2265002027	Construction and Mining Equipment	Signal Boards/Light Plants	4 Stroke	VOC	0.009198	0.008822	0.005040	0.005164
2265002030	Construction and Mining Equipment	Trenchers	4 Stroke	VOC	0.260031	0.240634	0.150021	0.140421
2265002033	Construction and Mining Equipment	Bore/Drill Rigs	4 Stroke	VOC	0.152000	0.150957	0.095689	0.073738
2265002039	Construction and Mining Equipment	Concrete/Industrial Saws	4 Stroke	VOC	0.379802	0.327378	0.282297	0.284488
2265002042	Construction and Mining Equipment	Cement & Mortar Mixers	4 Stroke	VOC	0.379109	0.347081	0.272173	0.209600
2265002045	Construction and Mining Equipment	Cranes	4 Stroke	VOC	0.013111	0.012305	0.009367	0.004446
2265002054	Construction and Mining Equipment	Crushing/Proc. Equipment	4 Stroke	VOC	0.034342	0.031347	0.021096	0.020730
2265002057	Construction and Mining Equipment	Rough Terrain Forklifts	4 Stroke	VOC	0.019531	0.018339	0.011711	0.002606
2265002060	Construction and Mining Equipment	Rubber Tire Loaders	4 Stroke	VOC	0.047217	0.043481	0.022208	0.030313
2265002066	Construction and Mining Equipment	Tractors/Loaders/Backhoes	4 Stroke	VOC	0.127536	0.108903	0.093762	0.094407
2265002072	Construction and Mining Equipment	Skid Steer Loaders	4 Stroke	VOC	0.088272	0.079718	0.059323	0.042519
2265002078	Construction and Mining Equipment	Dumpers/Tenders	4 Stroke	VOC	0.052998	0.048265	0.038354	0.032074
2265002081	Construction and Mining Equipment	Other Construction Equipment	4 Stroke	VOC	0.016886	0.016239	0.012421	0.005217
2265003010	Industrial Equipment	Aerial Lifts	4 Stroke	VOC	0.730031	0.610825	0.365168	0.114812
2265003020	Industrial Equipment	Forklifts	4 Stroke	VOC	2.070150	1.746216	0.754528	0.040553
2265003030	Industrial Equipment	Sweepers/Scrubbers	4 Stroke	VOC	0.641654	0.515869	0.203216	0.051436
2265003040	Industrial Equipment	Other General Industrial Eqp	4 Stroke	VOC	2.291945	1.983997	0.699817	0.239371
2265003050	Industrial Equipment	Other Material Handling Eqp	4 Stroke	VOC	0.052013	0.042782	0.025363	0.006905
2265003060	Industrial Equipment	AC\Refrigeration	4 Stroke	VOC	0.025638	0.019507	0.011693	0.004166
2265003070	Industrial Equipment	Terminal Tractors	4 Stroke	VOC	0.213243	0.167481	0.028622	0.002465
2265004010	Lawn and Garden Equipment (Res)	Lawn mowers	4 Stroke	VOC	28.199584	27.982369	26.080777	19.333087
2265004011	Lawn and Garden Equipment (Com)	Lawn mowers	4 Stroke	VOC	2.772110	2.889092	1.650680	1.541137
2265004015	Lawn and Garden Equipment (Res)	Rotary Tillers < 6 HP	4 Stroke	VOC	2.352803	2.352769	2.171561	1.534247
2265004016	Lawn and Garden Equipment (Com)	Rotary Tillers < 6 HP	4 Stroke	VOC	1.327857	1.316252	1.114632	0.700062
2265004025	Lawn and Garden Equipment (Res)	Trimmers/Edgers/Brush Cutter	4 Stroke	VOC	0.147423	0.150895	0.133760	0.100756
2265004026	Lawn and Garden Equipment (Com)	Trimmers/Edgers/Brush Cutter	4 Stroke	VOC	0.045796	0.045974	0.029753	0.027488
2265004030	Lawn and Garden Equipment (Res)	Leafblowers/Vacuums	4 Stroke	VOC	0.299142	0.306365	0.271967	0.207757
2265004031	Lawn and Garden Equipment (Com)	Leafblowers/Vacuums	4 Stroke	VOC	0.921940	0.818665	0.683210	0.693992
2265004035	Lawn and Garden Equipment (Res)	Snowblowers	4 Stroke	VOC	1.992079	2.076255	2.285175	2.662834
2265004036	Lawn and Garden Equipment (Com)	Snowblowers	4 Stroke	VOC	0.290117	0.302413	0.332904	0.388010
2265004040	Lawn and Garden Equipment (Res)	Rear Engine Riding Mowers	4 Stroke	VOC	2.673778	2.610651	2.487274	2.822200
2265004041	Lawn and Garden Equipment (Com)	Rear Engine Riding Mowers	4 Stroke	VOC	0.106415	0.094050	0.086402	0.100556
2265004046	Lawn and Garden Equipment (Com)	Front Mowers	4 Stroke	VOC	0.169267	0.160599	0.141261	0.143947
2265004051	Lawn and Garden Equipment (Com)	Shredders < 6 HP	4 Stroke	VOC	0.161097	0.156626	0.136686	0.085479
2265004055	Lawn and Garden Equipment (Res)	Lawn & Garden Tractors	4 Stroke	VOC	32.113104	30.808043	28.088108	31.645159
2265004056	Lawn and Garden Equipment (Com)	Lawn & Garden Tractors	4 Stroke	VOC	1.441789	1.245102	1.114159	1.296383
2265004066	Lawn and Garden Equipment (Com)	Chippers/Stump Grinders	4 Stroke	VOC	0.218404	0.196544	0.148436	0.134336
2265004071	Lawn and Garden Equipment (Com)	Commercial Turf Equipment	4 Stroke	VOC	5.338451	5.047458	4.104169	4.306443
2265004075	Lawn and Garden Equipment (Res)	Other Lawn & Garden Eqp.	4 Stroke	VOC	1.797619	1.732686	1.559414	1.193012
2265004076	Lawn and Garden Equipment (Com)	Other Lawn & Garden Eqp.	4 Stroke	VOC	0.352890	0.340155	0.306109	0.234102
2265005010	Agricultural Equipment	2-Wheel Tractors	4 Stroke	VOC	0.024325	0.020892	0.019124	0.021656
2265005015	Agricultural Equipment	Agricultural Tractors	4 Stroke	VOC	0.079630	0.073393	0.045673	0.021285
2265005020	Agricultural Equipment	Combines	4 Stroke	VOC	0.000569	0.000571	0.000505	0.000342

Appendix D-2: Lawrence 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	0.058751	0.059030	0.052479	0.035709
2265005030	Agricultural Equipment	Agricultural Mowers	4 Stroke	VOC	0.024979	0.022420	0.018390	0.019249
2265005035	Agricultural Equipment	Sprayers	4 Stroke	VOC	0.362169	0.351357	0.293632	0.232902
2265005040	Agricultural Equipment	Tillers > 6 HP	4 Stroke	VOC	0.703610	0.697360	0.667661	0.588711
2265005045	Agricultural Equipment	Swathers	4 Stroke	VOC	0.085990	0.086204	0.076278	0.051802
2265005055	Agricultural Equipment	Other Agricultural Equipment	4 Stroke	VOC	0.137482	0.133541	0.114355	0.090527
2265005060	Agricultural Equipment	Irrigation Sets	4 Stroke	VOC	0.145482	0.136182	0.059746	0.018506
2265006005	Commercial Equipment	Generator Sets	4 Stroke	VOC	15.626356	15.237824	13.074097	14.505473
2265006010	Commercial Equipment	Pumps	4 Stroke	VOC	4.729965	4.822537	2.909445	3.411181
2265006015	Commercial Equipment	Air Compressors	4 Stroke	VOC	1.912592	1.914183	1.295233	1.461031
2265006025	Commercial Equipment	Welders	4 Stroke	VOC	2.972502	2.761021	2.587806	2.980387
2265006030	Commercial Equipment	Pressure Washers	4 Stroke	VOC	8.273393	8.342903	6.059093	6.553139
2265006035	Commercial Equipment	Hydro Power Units	4 Stroke	VOC	0.292136	0.282108	0.224856	0.277094
2265007010	Logging Equipment	Shredders > 6 HP	4 Stroke	VOC	0.222955	0.212832	0.189065	0.197791
2265007015	Logging Equipment	Forest Eq - Feller/Bunch/Skidder	4 Stroke	VOC	0.004022	0.004222	0.002250	0.002849
2265008005	Airport Equipment	Airport Ground Support Equipment	4 Stroke	VOC	0.000000	0.000000	0.000000	0.000000
2265010010	Industrial Equipment	Other Oil Field Equipment	4 Stroke	VOC	0.000000	0.000000	0.000000	0.000000
2267001060	Recreational Equipment	Specialty Vehicle Carts	LPG	VOC	0.020238	0.019936	0.017088	0.011153
2267002003	Construction and Mining Equipment	Pavers	LPG	VOC	0.004509	0.004331	0.002574	0.000529
2267002015	Construction and Mining Equipment	Rollers	LPG	VOC	0.007649	0.007094	0.003063	0.000478
2267002021	Construction and Mining Equipment	Paving Equipment	LPG	VOC	0.001179	0.001169	0.000923	0.000358
2267002024	Construction and Mining Equipment	Surfacing Equipment	LPG	VOC	0.000778	0.000742	0.000410	0.000085
2267002030	Construction and Mining Equipment	Trenchers	LPG	VOC	0.013798	0.013306	0.008230	0.001657
2267002033	Construction and Mining Equipment	Bore/Drill Rigs	LPG	VOC	0.004477	0.004502	0.003971	0.002642
2267002039	Construction and Mining Equipment	Concrete/Industrial Saws	LPG	VOC	0.013372	0.011964	0.003539	0.000753
2267002045	Construction and Mining Equipment	Cranes	LPG	VOC	0.004823	0.004777	0.003763	0.001427
2267002054	Construction and Mining Equipment	Crushing/Proc. Equipment	LPG	VOC	0.000803	0.000794	0.000615	0.000206
2267002057	Construction and Mining Equipment	Rough Terrain Forklifts	LPG	VOC	0.008750	0.008525	0.005816	0.001230
2267002060	Construction and Mining Equipment	Rubber Tire Loaders	LPG	VOC	0.021889	0.020930	0.011738	0.001574
2267002066	Construction and Mining Equipment	Tractors/Loaders/Backhoes	LPG	VOC	0.002334	0.002193	0.001031	0.000139
2267002072	Construction and Mining Equipment	Skid Steer Loaders	LPG	VOC	0.017937	0.017633	0.013033	0.004871
2267002081	Construction and Mining Equipment	Other Construction Equipment	LPG	VOC	0.007188	0.007146	0.005792	0.002592
2267003010	Industrial Equipment	Aerial Lifts	LPG	VOC	0.247356	0.248814	0.200500	0.093092
2267003020	Industrial Equipment	Forklifts	LPG	VOC	23.599631	22.933166	13.253981	1.880854
2267003030	Industrial Equipment	Sweepers/Scrubbers	LPG	VOC	0.181766	0.169854	0.068510	0.012545
2267003040	Industrial Equipment	Other General Industrial Equipm	LPG	VOC	0.055231	0.052684	0.025938	0.003886
2267003050	Industrial Equipment	Other Material Handling Equipment	LPG	VOC	0.013374	0.013428	0.010657	0.003673
2267003070	Industrial Equipment	Terminal Tractors	LPG	VOC	0.111266	0.101603	0.028110	0.006827
2267004066	Lawn and Garden Equipment (Com)	Chippers/Stump Grinders	LPG	VOC	0.037138	0.035149	0.017844	0.002456
2267005055	Agricultural Equipment	Other Agricultural Equipment	LPG	VOC	0.000487	0.000474	0.000401	0.000255
2267005060	Agricultural Equipment	Irrigation Sets	LPG	VOC	0.000414	0.000378	0.000166	0.000019
2267006005	Commercial Equipment	Generator Sets	LPG	VOC	0.343111	0.361572	0.335477	0.242237
2267006010	Commercial Equipment	Pumps	LPG	VOC	0.080918	0.083323	0.065230	0.030730
2267006015	Commercial Equipment	Air Compressors	LPG	VOC	0.098387	0.099749	0.068439	0.017100
2267006025	Commercial Equipment	Welders	LPG	VOC	0.159261	0.164459	0.121289	0.026649
2267006030	Commercial Equipment	Pressure Washers	LPG	VOC	0.002072	0.002181	0.001901	0.000898
2267006035	Commercial Equipment	Hydro Power Units	LPG	VOC	0.001534	0.001523	0.000842	0.000243
2267008005	Airport Equipment	Airport Ground Support Equipment	LPG	VOC	0.000000	0.000000	0.000000	0.000000
2268002081	Construction and Mining Equipment	Other Construction Equipment	CNG	VOC	0.000017	0.000017	0.000013	0.000006
2268003020	Industrial Equipment	Forklifts	CNG	VOC	0.101397	0.097596	0.056053	0.008079
2268003030	Industrial Equipment	Sweepers/Scrubbers	CNG	VOC	0.000121	0.000117	0.000066	0.000009
2268003040	Industrial Equipment	Other General Industrial Equipment	CNG	VOC	0.000079	0.000076	0.000040	0.000006
2268003060	Industrial Equipment	AC\Refrigeration	CNG	VOC	0.000192	0.000181	0.000082	0.000017
2268003070	Industrial Equipment	Terminal Tractors	CNG	VOC	0.000462	0.000419	0.000115	0.000029
2268005055	Agricultural Equipment	Other Agricultural Equipment	CNG	VOC	0.000037	0.000030	0.000017	0.000005
2268005060	Agricultural Equipment	Irrigation Sets	CNG	VOC	0.002850	0.001669	0.000191	0.000000
2268006005	Commercial Equipment	Generator Sets	CNG	VOC	0.006693	0.006832	0.006162	0.004403
2268006010	Commercial Equipment	Pumps	CNG	VOC	0.000338	0.000340	0.000275	0.000144
2268006015	Commercial Equipment	Air Compressors	CNG	VOC	0.000488	0.000480	0.000325	0.000075
2268006020	Commercial Equipment	Gas Compressors	CNG	VOC	0.025503	0.009823	0.001519	0.001898
2268006035	Commercial Equipment	Hydro Power Units	CNG	VOC	0.000000	0.000000	0.000000	0.000000
2268010010	Industrial Equipment	Other Oil Field Equipment	CNG	VOC	0.000000	0.000000	0.000000	0.000000
2270001060	Recreational Equipment	Specialty Vehicle Carts	Diesel	VOC	0.246972	0.239834	0.210692	0.136972
2270002003	Construction and Mining Equipment	Pavers	Diesel	VOC	0.128740	0.115937	0.089881	0.051960
2270002006	Construction and Mining Equipment	Tampers/Rammers	Diesel	VOC	0.000477	0.000464	0.000382	0.000294
2270002009	Construction and Mining Equipment	Plate Compactors	Diesel	VOC	0.007998	0.007612	0.005978	0.004472
2270002015	Construction and Mining Equipment	Rollers	Diesel	VOC	0.364936	0.325217	0.243534	0.140200
2270002018	Construction and Mining Equipment	Scrapers	Diesel	VOC	0.267771	0.238927	0.177480	0.135639
2270002021	Construction and Mining Equipment	Paving Equipment	Diesel	VOC	0.023528	0.021637	0.016307	0.010019
2270002024	Construction and Mining Equipment	Surfacing Equipment	Diesel	VOC	0.016232	0.014736	0.011075	0.007037
2270002027	Construction and Mining Equipment	Signal Boards/Light Plants	Diesel	VOC	0.078899	0.071161	0.047908	0.032372
2270002030	Construction and Mining Equipment	Trenchers	Diesel	VOC	0.217288	0.195506	0.141439	0.077355
2270002033	Construction and Mining Equipment	Bore/Drill Rigs	Diesel	VOC	0.170373	0.163958	0.141103	0.096593
2270002036	Construction and Mining Equipment	Excavators	Diesel	VOC	1.056581	0.949192	0.772918	0.483257
2270002039	Construction and Mining Equipment	Concrete/Industrial Saws	Diesel	VOC	0.017505	0.015308	0.010405	0.005691
2270002042	Construction and Mining Equipment	Cement & Mortar Mixers	Diesel	VOC	0.008193	0.008054	0.007310	0.005387
2270002045	Construction and Mining Equipment	Cranes	Diesel	VOC	0.275242	0.252897	0.198182	0.128785
2270002048	Construction and Mining Equipment	Graders	Diesel	VOC	0.263076	0.236210	0.194510	0.122696
2270002051	Construction and Mining Equipment	Off-highway Trucks	Diesel	VOC	0.910606	0.786684	0.563188	0.493205
2270002054	Construction and Mining Equipment	Crushing/Proc. Equipment	Diesel	VOC	0.056110	0.051341	0.039184	0.023787
2270002057	Construction and Mining Equipment	Rough Terrain Forklifts	Diesel	VOC	0.524749	0.485034	0.365325	0.198035
2270002060	Construction and Mining Equipment	Rubber Tire Loaders	Diesel	VOC	1.313359	1.222163	0.965292	0.632125

Appendix D-2: Lawrence 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	2.267247	2.207874	1.930822	1.102913
2270002069	Construction and Mining Equipment	Crawler Tractor/Dozers	Diesel	VOC	1.141203	1.024685	0.787587	0.528837
2270002072	Construction and Mining Equipment	Skid Steer Loaders	Diesel	VOC	2.188967	2.103702	1.759824	1.019143
2270002075	Construction and Mining Equipment	Off-Highway Tractors	Diesel	VOC	0.154399	0.137163	0.097504	0.067869
2270002078	Construction and Mining Equipment	Dumpers/Tenders	Diesel	VOC	0.006653	0.006536	0.005833	0.003624
2270002081	Construction and Mining Equipment	Other Construction Equipment	Diesel	VOC	0.144074	0.132903	0.104497	0.067043
2270003010	Industrial Equipment	Aerial Lifts	Diesel	VOC	0.281549	0.278479	0.253437	0.168430
2270003020	Industrial Equipment	Forklifts	Diesel	VOC	0.993835	0.945512	0.723960	0.384997
2270003030	Industrial Equipment	Sweepers/Scrubbers	Diesel	VOC	0.514021	0.456584	0.358803	0.205569
2270003040	Industrial Equipment	Other General Industrial Eqp	Diesel	VOC	0.556420	0.524073	0.411558	0.251263
2270003050	Industrial Equipment	Other Material Handling Eqp	Diesel	VOC	0.052371	0.051436	0.046291	0.030566
2270003060	Industrial Equipment	AC\Refrigeration	Diesel	VOC	1.814041	1.541758	1.128665	0.606744
2270003070	Industrial Equipment	Terminal Tractors	Diesel	VOC	0.544496	0.518979	0.437404	0.261912
2270004031	Lawn and Garden Equipment (Com)	Leafblowers/Vacuums	Diesel	VOC	0.000020	0.000021	0.000020	0.000017
2270004036	Lawn and Garden Equipment (Com)	Snowblowers	Diesel	VOC	0.002595	0.002562	0.002349	0.001784
2270004046	Lawn and Garden Equipment (Com)	Front Mowers	Diesel	VOC	0.121907	0.115830	0.090418	0.061470
2270004056	Lawn and Garden Equipment (Com)	Lawn & Garden Tractors	Diesel	VOC	0.026998	0.025227	0.018723	0.015541
2270004066	Lawn and Garden Equipment (Com)	Chippers/Stump Grinders	Diesel	VOC	0.104500	0.104562	0.097806	0.073451
2270004071	Lawn and Garden Equipment (Com)	Commercial Turf Equipment	Diesel	VOC	0.012600	0.010478	0.007878	0.005335
2270004076	Lawn and Garden Equipment (Com)	Other Lawn & Garden Eqp.	Diesel	VOC	0.000388	0.000388	0.000358	0.000274
2270005010	Agricultural Equipment	2-Wheel Tractors	Diesel	VOC	0.000292	0.000270	0.000190	0.000164
2270005015	Agricultural Equipment	Agricultural Tractors	Diesel	VOC	8.729773	7.851427	5.991284	3.526353
2270005020	Agricultural Equipment	Combines	Diesel	VOC	0.635772	0.621320	0.556001	0.396171
2270005025	Agricultural Equipment	Balers	Diesel	VOC	0.006436	0.006085	0.004972	0.003073
2270005030	Agricultural Equipment	Agricultural Mowers	Diesel	VOC	0.001036	0.000991	0.000829	0.000516
2270005035	Agricultural Equipment	Sprayers	Diesel	VOC	0.092741	0.086276	0.067418	0.039744
2270005040	Agricultural Equipment	Tillers > 6 HP	Diesel	VOC	0.000096	0.000090	0.000075	0.000049
2270005045	Agricultural Equipment	Swathers	Diesel	VOC	0.057239	0.056885	0.053031	0.038332
2270005055	Agricultural Equipment	Other Agricultural Equipment	Diesel	VOC	0.194606	0.178698	0.135707	0.081447
2270005060	Agricultural Equipment	Irrigation Sets	Diesel	VOC	0.119787	0.108771	0.081152	0.044583
2270006005	Commercial Equipment	Generator Sets	Diesel	VOC	1.116520	1.091587	0.964695	0.652749
2270006010	Commercial Equipment	Pumps	Diesel	VOC	0.245517	0.241535	0.216331	0.154029
2270006015	Commercial Equipment	Air Compressors	Diesel	VOC	0.553436	0.524174	0.416537	0.238686
2270006020	Commercial Equipment	Gas Compressors	Diesel	VOC	0.000000	0.000000	0.000000	0.000000
2270006025	Commercial Equipment	Welders	Diesel	VOC	0.842522	0.821546	0.707345	0.392177
2270006030	Commercial Equipment	Pressure Washers	Diesel	VOC	0.035096	0.034577	0.031568	0.023625
2270006035	Commercial Equipment	Hydro Power Units	Diesel	VOC	0.025781	0.023962	0.018466	0.010993
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	0.199918	0.174013	0.123857	0.059380
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	0.000000	0.000000	0.000000	0.000000
2275000000	Aircraft	All Aircraft Types and Operations	Other	VOC				
2275070000	Aircraft	Auxiliary Power Units	Other	VOC				
2280000000	Marine Vessels	Commercial	All Fuels	VOC	0.000000	0.000000	0.000000	0.000000
2280001000	Marine Vessels	Commercial	Coal	VOC	0.000000	0.000000	0.000000	0.000000
2280002000	Marine Vessels	Commercial	Diesel	VOC	0.000000	0.000000	0.000000	0.000000
2280003000	Marine Vessels	Commercial	Residual Fuel	VOC	0.000000	0.000000	0.000000	0.000000
2280004000	Marine Vessels	Commercial	Gasoline	VOC	0.000000	0.000000	0.000000	0.000000
2282005010	Pleasure Craft	Outboard	2 Stroke	VOC	72.889381	67.808407	53.745788	37.492182
2282005015	Pleasure Craft	Personal Water Craft	2 Stroke	VOC	25.519865	22.765395	15.072519	10.218033
2282010005	Pleasure Craft	Inboard/Stern Drive	4 Stroke	VOC	4.841182	4.822081	4.727507	4.570173
2282020005	Pleasure Craft	Inboard/Stern Drive	Diesel	VOC	0.127507	0.134164	0.139235	0.137702
2282020010	Pleasure Craft	Outboards	Diesel	VOC	0.003203	0.003052	0.002541	0.001504
2285002005	Railroad Equipment	Line Haul Locomotives	Diesel	VOC				
2285002010	Railroad Equipment	Yard Locomotive	Diesel	VOC				
2285002015	Railroad Equipment	Railway Maintenance	Diesel	VOC	0.259446	0.255206	0.229531	0.149500
2285004015	Railroad Equipment	Railway Maintenance	4 Stroke	VOC	0.086758	0.078678	0.058602	0.060785
2285006015	Railroad Equipment	Railway Maintenance	LPG	VOC	0.000894	0.000882	0.000660	0.000183
Lawrence County Total Annual VOC Emissions					590.135887	606.524860	557.395754	415.811614

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

SCC	Classification	Equipment Type	Engine Type	Pollutant Code	2002	2004	2009	2018
					Emissions	Emissions	Emissions	Emissions
2260001010	Recreational Equipment	Motorcycles: Off-Road	2 Stroke	CO	56.832001	65.990707	83.272522	88.828613
2260001020	Recreational Equipment	Snowmobiles	2 Stroke	CO	195.429306	213.087239	225.784260	185.700908
2260001030	Recreational Equipment	ATVs	2 Stroke	CO	56.034321	77.377007	117.947330	135.284360
2260001060	Recreational Equipment	Specialty Vehicles/Carts	2 Stroke	CO	36.178029	37.169032	40.368883	43.293708
2260002006	Construction and Mining Equipment	Tampers/Rammers	2 Stroke	CO	3.203939	3.170997	2.651682	2.702327
2260002009	Construction and Mining Equipment	Plate Compactors	2 Stroke	CO	0.154437	0.124781	0.098894	0.101328
2260002021	Construction and Mining Equipment	Paving Equipment	2 Stroke	CO	0.185349	0.148583	0.119294	0.122230
2260002027	Construction and Mining Equipment	Signal Boards/Light Plants	2 Stroke	CO	0.001355	0.001066	0.000917	0.000939
2260002039	Construction and Mining Equipment	Concrete/Industrial Saws	2 Stroke	CO	8.466442	7.980434	6.869289	7.038306
2260002054	Construction and Mining Equipment	Crushing/Proc. Equipment	2 Stroke	CO	0.036132	0.028449	0.024342	0.024941
2260003030	Industrial Equipment	Sweepers/Scrubbers	2 Stroke	CO	0.230436	0.161051	0.098048	0.034757
2260003040	Industrial Equipment	Other General Industrial Eqp	2 Stroke	CO	0.018359	0.012831	0.007812	0.002769
2260004015	Lawn and Garden Equipment (Res)	Rotary Tillers < 6 HP	2 Stroke	CO	1.610031	1.465704	1.095274	1.165817
2260004016	Lawn and Garden Equipment (Com)	Rotary Tillers < 6 HP	2 Stroke	CO	1.179784	1.073180	0.799181	0.901068
2260004020	Lawn and Garden Equipment (Res)	Chain Saws < 6 HP	2 Stroke	CO	21.001303	19.200794	14.619558	16.563631
2260004021	Lawn and Garden Equipment (Com)	Chain Saws < 6 HP	2 Stroke	CO	17.353707	16.941358	15.640995	18.223462
2260004025	Lawn and Garden Equipment (Res)	Trimmers/Edgers/Brush Cutter	2 Stroke	CO	30.296900	27.182717	18.905968	21.236424
2260004026	Lawn and Garden Equipment (Com)	Trimmers/Edgers/Brush Cutter	2 Stroke	CO	11.726015	10.333647	8.554993	9.959873
2260004030	Lawn and Garden Equipment (Res)	Leafblowers/Vacuums	2 Stroke	CO	18.907765	17.215481	12.815087	14.497105
2260004031	Lawn and Garden Equipment (Com)	Leafblowers/Vacuums	2 Stroke	CO	11.825094	11.102058	9.551518	11.098645
2260004035	Lawn and Garden Equipment (Res)	Snowblowers	2 Stroke	CO	10.914723	11.376352	12.521933	14.592562
2260004036	Lawn and Garden Equipment (Com)	Snowblowers	2 Stroke	CO	4.290380	4.471837	4.922148	5.736077
2260004071	Lawn and Garden Equipment (Com)	Commercial Turf Equipment	2 Stroke	CO	0.004824	0.004209	0.003413	0.003977
2260005035	Agricultural Equipment	Sprayers	2 Stroke	CO	0.339025	0.286363	0.198575	0.224051
2260006005	Commercial Equipment	Generator Sets	2 Stroke	CO	1.673283	1.442805	1.271887	1.577390
2260006010	Commercial Equipment	Pumps	2 Stroke	CO	11.782613	9.352324	8.357672	10.226390
2260006015	Commercial Equipment	Air Compressors	2 Stroke	CO	0.004361	0.003628	0.003580	0.004439
2260006035	Commercial Equipment	Hydro Power Units	2 Stroke	CO	0.067774	0.056428	0.055483	0.068796
2260007005	Logging Equipment	Chain Saws > 6 HP	2 Stroke	CO	3.291800	3.402058	3.354317	4.248123
2265001010	Recreational Equipment	Motorcycles: Off-Road	4 Stroke	CO	24.479712	28.460068	34.114094	32.258335
2265001030	Recreational Equipment	ATVs	4 Stroke	CO	220.674350	267.012820	362.251070	423.424160
2265001050	Recreational Equipment	Golf Carts	4 Stroke	CO	342.179500	356.619050	375.506990	400.339290
2265001060	Recreational Equipment	Specialty Vehicles/Carts	4 Stroke	CO	30.845400	30.974716	31.512907	33.336791
2265002003	Construction and Mining Equipment	Pavers	4 Stroke	CO	2.777037	2.853596	2.862494	2.834829
2265002006	Construction and Mining Equipment	Tampers/Rammers	4 Stroke	CO	0.021963	0.022515	0.023883	0.024546
2265002009	Construction and Mining Equipment	Plate Compactors	4 Stroke	CO	5.128346	5.202121	5.312983	5.429165
2265002015	Construction and Mining Equipment	Rollers	4 Stroke	CO	5.204766	5.335406	5.307349	5.314000
2265002021	Construction and Mining Equipment	Paving Equipment	4 Stroke	CO	10.040997	10.226848	10.614687	10.894558
2265002024	Construction and Mining Equipment	Surfacing Equipment	4 Stroke	CO	4.551275	4.683818	4.795662	4.898279
2265002027	Construction and Mining Equipment	Signal Boards/Light Plants	4 Stroke	CO	0.231600	0.237220	0.241391	0.247338
2265002030	Construction and Mining Equipment	Trenchers	4 Stroke	CO	8.511583	8.705896	8.670633	8.568137
2265002033	Construction and Mining Equipment	Bore/Drill Rigs	4 Stroke	CO	2.507673	2.518230	2.496597	2.476869
2265002039	Construction and Mining Equipment	Concrete/Industrial Saws	4 Stroke	CO	21.019415	21.594405	21.806638	22.210355
2265002042	Construction and Mining Equipment	Cement & Mortar Mixers	4 Stroke	CO	8.791677	8.756473	9.030768	9.365472
2265002045	Construction and Mining Equipment	Cranes	4 Stroke	CO	0.351841	0.348213	0.298950	0.191252
2265002054	Construction and Mining Equipment	Crushing/Proc. Equipment	4 Stroke	CO	1.234281	1.271065	1.296998	1.308919
2265002057	Construction and Mining Equipment	Rough Terrain Forklifts	4 Stroke	CO	0.459270	0.439573	0.303298	0.089650
2265002060	Construction and Mining Equipment	Rubber Tire Loaders	4 Stroke	CO	1.101152	1.032737	0.579127	0.104534
2265002066	Construction and Mining Equipment	Tractors/Loaders/Backhoes	4 Stroke	CO	6.619219	6.838309	7.019519	7.149546
2265002072	Construction and Mining Equipment	Skid Steer Loaders	4 Stroke	CO	2.928293	2.953166	2.837368	2.509860
2265002078	Construction and Mining Equipment	Dumpers/Tenders	4 Stroke	CO	1.368938	1.363257	1.404640	1.459798
2265002081	Construction and Mining Equipment	Other Construction Equipment	4 Stroke	CO	0.386077	0.375012	0.298304	0.138736
2265003010	Industrial Equipment	Aerial Lifts	4 Stroke	CO	21.589864	19.415883	13.530983	4.552470
2265003020	Industrial Equipment	Forklifts	4 Stroke	CO	48.804612	41.741124	19.391177	1.337212
2265003030	Industrial Equipment	Sweepers/Scrubbers	4 Stroke	CO	20.979630	18.621532	11.038267	3.393164
2265003040	Industrial Equipment	Other General Industrial Eqp	4 Stroke	CO	53.521669	48.504126	33.685519	11.730973
2265003050	Industrial Equipment	Other Material Handling Eqp	4 Stroke	CO	1.650559	1.497535	1.047150	0.329755
2265003060	Industrial Equipment	AC\Refrigeration	4 Stroke	CO	1.099555	1.020956	0.747593	0.267494
2265003070	Industrial Equipment	Terminal Tractors	4 Stroke	CO	5.068164	4.097805	0.902248	0.088876
2265004010	Lawn and Garden Equipment (Res)	Lawn mowers	4 Stroke	CO	306.676139	317.735293	345.911665	395.419592
2265004011	Lawn and Garden Equipment (Com)	Lawn mowers	4 Stroke	CO	40.621386	42.336754	45.515425	52.769487
2265004015	Lawn and Garden Equipment (Res)	Rotary Tillers < 6 HP	4 Stroke	CO	25.832399	26.732698	29.055176	33.153294
2265004016	Lawn and Garden Equipment (Com)	Rotary Tillers < 6 HP	4 Stroke	CO	19.789967	20.598301	22.441345	25.738184
2265004025	Lawn and Garden Equipment (Res)	Trimmers/Edgers/Brush Cutter	4 Stroke	CO	1.722267	1.789683	1.946222	2.229195
2265004026	Lawn and Garden Equipment (Com)	Trimmers/Edgers/Brush Cutter	4 Stroke	CO	1.008792	1.069343	1.178189	1.367893
2265004030	Lawn and Garden Equipment (Res)	Leafblowers/Vacuums	4 Stroke	CO	3.292058	3.420974	3.717087	4.254038
2265004031	Lawn and Garden Equipment (Com)	Leafblowers/Vacuums	4 Stroke	CO	40.374872	43.230886	47.428500	53.161102
2265004035	Lawn and Garden Equipment (Res)	Snowblowers	4 Stroke	CO	32.065042	33.425191	36.797049	42.890639
2265004036	Lawn and Garden Equipment (Com)	Snowblowers	4 Stroke	CO	12.603511	13.138129	14.463498	16.858665
2265004040	Lawn and Garden Equipment (Res)	Rear Engine Riding Mowers	4 Stroke	CO	72.122890	75.743304	86.532799	101.615468
2265004041	Lawn and Garden Equipment (Com)	Rear Engine Riding Mowers	4 Stroke	CO	5.227589	5.608233	6.333483	7.382681
2265004046	Lawn and Garden Equipment (Com)	Front Mowers	4 Stroke	CO	5.645328	5.838697	6.567968	7.805494
2265004051	Lawn and Garden Equipment (Com)	Shredders < 6 HP	4 Stroke	CO	2.267709	2.358637	2.572248	2.946677
2265004055	Lawn and Garden Equipment (Res)	Lawn & Garden Tractors	4 Stroke	CO	958.952392	1007.937665	1159.656505	1363.780240
2265004056	Lawn and Garden Equipment (Com)	Lawn & Garden Tractors	4 Stroke	CO	70.311723	75.862158	86.103771	100.371049
2265004066	Lawn and Garden Equipment (Com)	Chippers/Stump Grinders	4 Stroke	CO	9.337724	9.787818	9.867970	10.522717
2265004071	Lawn and Garden Equipment (Com)	Commercial Turf Equipment	4 Stroke	CO	217.487118	229.259386	249.099031	288.906619
2265004075	Lawn and Garden Equipment (Res)	Other Lawn & Garden Eqp.	4 Stroke	CO	31.301680	32.390879	35.468310	41.580678
2265004076	Lawn and Garden Equipment (Com)	Other Lawn & Garden Eqp.	4 Stroke	CO	6.148771	6.362489	6.965004	8.160922
2265005010	Agricultural Equipment	2-Wheel Tractors	4 Stroke	CO	1.174742	1.256863	1.393378	1.577953
2265005015	Agricultural Equipment	Agricultural Tractors	4 Stroke	CO	2.376126	2.387059	1.940574	1.433829
2265005020	Agricultural Equipment	Combines	4 Stroke	CO	0.011427	0.011484	0.010323	0.007279

Appendix D-2: Lawrence 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	1.080086	1.085531	0.976019	0.688781
2265005030	Agricultural Equipment	Agricultural Mowers	4 Stroke	CO	0.913573	0.950001	1.064044	1.218329
2265005035	Agricultural Equipment	Sprayers	4 Stroke	CO	7.819287	8.003276	8.490916	9.312867
2265005040	Agricultural Equipment	Tillers > 6 HP	4 Stroke	CO	19.443641	19.941718	21.261977	23.862506
2265005045	Agricultural Equipment	Swathers	4 Stroke	CO	1.710763	1.719387	1.545929	1.090969
2265005055	Agricultural Equipment	Other Agricultural Equipment	4 Stroke	CO	3.549441	3.616363	3.622372	3.425091
2265005060	Agricultural Equipment	Irrigation Sets	4 Stroke	CO	3.329589	3.184619	1.745740	0.697311
2265006005	Commercial Equipment	Generator Sets	4 Stroke	CO	470.576526	503.805127	598.659916	750.609391
2265006010	Commercial Equipment	Pumps	4 Stroke	CO	108.737984	117.546672	134.707802	164.961196
2265006015	Commercial Equipment	Air Compressors	4 Stroke	CO	54.015830	58.296036	65.729016	78.548892
2265006025	Commercial Equipment	Welders	4 Stroke	CO	135.702431	147.979892	170.912333	206.595417
2265006030	Commercial Equipment	Pressure Washers	4 Stroke	CO	206.095713	222.832270	262.407192	325.527460
2265006035	Commercial Equipment	Hydro Power Units	4 Stroke	CO	10.429229	11.399668	13.353764	16.531241
2265007010	Logging Equipment	Shredders > 6 HP	4 Stroke	CO	7.085054	7.542887	8.962995	11.686798
2265007015	Logging Equipment	Forest Eq - Feller/Bunch/Skidder	4 Stroke	CO	0.084481	0.091816	0.106882	0.135377
2265008005	Airport Equipment	Airport Ground Support Equipment	4 Stroke	CO	0.000000	0.000000	0.000000	0.000000
2265010010	Industrial Equipment	Other Oil Field Equipment	4 Stroke	CO	0.000000	0.000000	0.000000	0.000000
2267001060	Recreational Equipment	Specialty Vehicle Carts	LPG	CO	0.298857	0.301828	0.277881	0.197508
2267002003	Construction and Mining Equipment	Pavers	LPG	CO	0.066714	0.068564	0.052705	0.014701
2267002015	Construction and Mining Equipment	Rollers	LPG	CO	0.113445	0.115934	0.073540	0.016600
2267002021	Construction and Mining Equipment	Paving Equipment	LPG	CO	0.017406	0.017981	0.016135	0.008177
2267002024	Construction and Mining Equipment	Surfacing Equipment	LPG	CO	0.011517	0.011825	0.008771	0.002426
2267002030	Construction and Mining Equipment	Trenchers	LPG	CO	0.204149	0.209947	0.164783	0.045915
2267002033	Construction and Mining Equipment	Bore/Drill Rigs	LPG	CO	0.065928	0.068284	0.065384	0.047860
2267002039	Construction and Mining Equipment	Concrete/Industrial Saws	LPG	CO	0.198932	0.202136	0.101755	0.025835
2267002045	Construction and Mining Equipment	Cranes	LPG	CO	0.071181	0.073530	0.065919	0.033137
2267002054	Construction and Mining Equipment	Crushing/Proc. Equipment	LPG	CO	0.011857	0.012243	0.010869	0.005085
2267002057	Construction and Mining Equipment	Rough Terrain Forklifts	LPG	CO	0.129353	0.133249	0.110308	0.032931
2267002060	Construction and Mining Equipment	Rubber Tire Loaders	LPG	CO	0.324179	0.332924	0.249656	0.053352
2267002066	Construction and Mining Equipment	Tractors/Loaders/Backhoes	LPG	CO	0.034606	0.035440	0.024131	0.004891
2267002072	Construction and Mining Equipment	Skid Steer Loaders	LPG	CO	0.264914	0.273300	0.236186	0.110079
2267002081	Construction and Mining Equipment	Other Construction Equipment	LPG	CO	0.106030	0.109595	0.099869	0.055752
2267003010	Industrial Equipment	Aerial Lifts	LPG	CO	3.645604	3.834128	3.531366	1.961348
2267003020	Industrial Equipment	Forklifts	LPG	CO	349.231745	365.024728	282.272732	63.690933
2267003030	Industrial Equipment	Sweepers/Scrubbers	LPG	CO	2.698043	2.801042	1.746802	0.429521
2267003040	Industrial Equipment	Other General Industrial Equipm	LPG	CO	0.818077	0.852308	0.598286	0.135555
2267003050	Industrial Equipment	Other Material Handling Equipment	LPG	CO	0.197173	0.207291	0.189414	0.091218
2267003070	Industrial Equipment	Terminal Tractors	LPG	CO	1.652872	1.709467	0.915462	0.234553
2267004066	Lawn and Garden Equipment (Com)	Chippers/Stump Grinders	LPG	CO	0.550139	0.564453	0.399738	0.085412
2267005055	Agricultural Equipment	Other Agricultural Equipment	LPG	CO	0.007196	0.007165	0.006449	0.004433
2267005060	Agricultural Equipment	Irrigation Sets	LPG	CO	0.006148	0.006054	0.003891	0.000649
2267006005	Commercial Equipment	Generator Sets	LPG	CO	4.502993	5.006666	5.343505	4.500236
2267006010	Commercial Equipment	Pumps	LPG	CO	1.066568	1.181743	1.161335	0.693113
2267006015	Commercial Equipment	Air Compressors	LPG	CO	1.300565	1.437641	1.333250	0.526482
2267006025	Commercial Equipment	Welders	LPG	CO	2.346958	2.595123	2.382613	0.766043
2267006030	Commercial Equipment	Pressure Washers	LPG	CO	0.030425	0.033766	0.033980	0.020575
2267006035	Commercial Equipment	Hydro Power Units	LPG	CO	0.020299	0.022378	0.018992	0.007562
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	0.004183	0.004323	0.003940	0.002199
2268003020	Industrial Equipment	Forklifts	CNG	CO	25.468363	26.324753	20.091400	4.403249
2268003030	Industrial Equipment	Sweepers/Scrubbers	CNG	CO	0.030458	0.031476	0.032378	0.005149
2268003040	Industrial Equipment	Other General Industrial Equipment	CNG	CO	0.019908	0.020556	0.015143	0.003201
2268003060	Industrial Equipment	AC\Refrigeration	CNG	CO	0.048205	0.049666	0.033704	0.008286
2268003070	Industrial Equipment	Terminal Tractors	CNG	CO	0.116404	0.119179	0.062853	0.015581
2268005055	Agricultural Equipment	Other Agricultural Equipment	CNG	CO	0.009477	0.007788	0.004404	0.001244
2268005060	Agricultural Equipment	Irrigation Sets	CNG	CO	0.726502	0.427586	0.049343	0.000000
2268006005	Commercial Equipment	Generator Sets	CNG	CO	1.495253	1.589829	1.603647	1.298536
2268006010	Commercial Equipment	Pumps	CNG	CO	0.075750	0.080327	0.076648	0.049447
2268006015	Commercial Equipment	Air Compressors	CNG	CO	0.109678	0.115924	0.102061	0.036949
2268006020	Commercial Equipment	Gas Compressors	CNG	CO	6.563456	6.176796	0.786077	0.982316
2268006035	Commercial Equipment	Hydro Power Units	CNG	CO	0.000000	0.000000	0.000000	0.000000
2268010010	Industrial Equipment	Other Oil Field Equipment	CNG	CO	0.000000	0.000000	0.000000	0.000000
2270001060	Recreational Equipment	Specialty Vehicle Carts	Diesel	CO	0.919056	0.895929	0.804411	0.531734
2270002003	Construction and Mining Equipment	Pavers	Diesel	CO	0.677573	0.594907	0.501225	0.217178
2270002006	Construction and Mining Equipment	Tampers/Rammers	Diesel	CO	0.001708	0.001750	0.001826	0.002060
2270002009	Construction and Mining Equipment	Plate Compactors	Diesel	CO	0.027361	0.027420	0.026890	0.028753
2270002015	Construction and Mining Equipment	Rollers	Diesel	CO	1.949692	1.762218	1.484538	0.717825
2270002018	Construction and Mining Equipment	Scrapers	Diesel	CO	1.761762	1.606530	1.348205	0.628309
2270002021	Construction and Mining Equipment	Paving Equipment	Diesel	CO	0.126490	0.116054	0.092791	0.051539
2270002024	Construction and Mining Equipment	Surfacing Equipment	Diesel	CO	0.095432	0.089148	0.073664	0.041638
2270002027	Construction and Mining Equipment	Signal Boards/Light Plants	Diesel	CO	0.249083	0.234675	0.188324	0.154804
2270002030	Construction and Mining Equipment	Trenchers	Diesel	CO	1.170498	1.095952	0.921957	0.489730
2270002033	Construction and Mining Equipment	Bore/Drill Rigs	Diesel	CO	0.703124	0.673837	0.588280	0.360103
2270002036	Construction and Mining Equipment	Excavators	Diesel	CO	5.408653	4.583118	4.150558	1.287428
2270002039	Construction and Mining Equipment	Concrete/Industrial Saws	Diesel	CO	0.090516	0.083923	0.069641	0.037220
2270002042	Construction and Mining Equipment	Cement & Mortar Mixers	Diesel	CO	0.031052	0.030860	0.029964	0.024281
2270002045	Construction and Mining Equipment	Cranes	Diesel	CO	0.987426	0.907227	0.743804	0.359573
2270002048	Construction and Mining Equipment	Graders	Diesel	CO	1.274054	1.043735	0.922955	0.322955
2270002051	Construction and Mining Equipment	Off-highway Trucks	Diesel	CO	5.526510	4.629411	3.416173	0.722100
2270002054	Construction and Mining Equipment	Crushing/Proc. Equipment	Diesel	CO	0.231255	0.212885	0.179268	0.095514
2270002057	Construction and Mining Equipment	Rough Terrain Forklifts	Diesel	CO	2.911225	2.735627	2.379673	1.289217
2270002060	Construction and Mining Equipment	Rubber Tire Loaders	Diesel	CO	7.488547	6.864523	5.638062	2.645883

Appendix D-2: Lawrence 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	9.147342	9.054986	8.686691	5.638802
2270002069	Construction and Mining Equipment	Crawler Tractor/Dozers	Diesel	CO	6.408461	5.690593	4.812788	1.994640
2270002072	Construction and Mining Equipment	Skid Steer Loaders	Diesel	CO	7.999448	7.949829	7.471095	5.104691
2270002075	Construction and Mining Equipment	Off-Highway Tractors	Diesel	CO	0.970991	0.870694	0.667623	0.296520
2270002078	Construction and Mining Equipment	Dumpers/Tenders	Diesel	CO	0.022869	0.023153	0.022771	0.016353
2270002081	Construction and Mining Equipment	Other Construction Equipment	Diesel	CO	0.930302	0.858972	0.695044	0.367709
2270003010	Industrial Equipment	Aerial Lifts	Diesel	CO	0.968064	0.989828	0.997234	0.754354
2270003020	Industrial Equipment	Forklifts	Diesel	CO	5.879095	5.859149	6.250327	1.083863
2270003030	Industrial Equipment	Sweepers/Scrubbers	Diesel	CO	1.809046	1.601643	1.482281	0.635761
2270003040	Industrial Equipment	Other General Industrial Eqp	Diesel	CO	1.962107	1.844552	1.568503	0.883317
2270003050	Industrial Equipment	Other Material Handling Eqp	Diesel	CO	0.179789	0.178702	0.171702	0.118296
2270003060	Industrial Equipment	AC\Refrigeration	Diesel	CO	6.921777	6.429633	6.393052	3.316336
2270003070	Industrial Equipment	Terminal Tractors	Diesel	CO	2.486250	2.261123	2.346458	0.524586
2270004031	Lawn and Garden Equipment (Com)	Leafblowers/Vacuums	Diesel	CO	0.000061	0.000064	0.000070	0.000072
2270004036	Lawn and Garden Equipment (Com)	Snowblowers	Diesel	CO	0.010542	0.010379	0.009600	0.006116
2270004046	Lawn and Garden Equipment (Com)	Front Mowers	Diesel	CO	0.388614	0.385407	0.353232	0.285963
2270004056	Lawn and Garden Equipment (Com)	Lawn & Garden Tractors	Diesel	CO	0.084918	0.083307	0.073686	0.075510
2270004066	Lawn and Garden Equipment (Com)	Chippers/Stump Grinders	Diesel	CO	0.414241	0.417424	0.413484	0.297948
2270004071	Lawn and Garden Equipment (Com)	Commercial Turf Equipment	Diesel	CO	0.043692	0.038990	0.036264	0.020053
2270004076	Lawn and Garden Equipment (Com)	Other Lawn & Garden Eqp.	Diesel	CO	0.001386	0.001425	0.001474	0.001295
2270005010	Agricultural Equipment	2-Wheel Tractors	Diesel	CO	0.001589	0.001592	0.001473	0.001260
2270005015	Agricultural Equipment	Agricultural Tractors	Diesel	CO	42.600789	39.334830	32.304104	17.609574
2270005020	Agricultural Equipment	Combines	Diesel	CO	2.653431	2.613315	2.485908	1.630104
2270005025	Agricultural Equipment	Balers	Diesel	CO	0.022145	0.022085	0.021503	0.015753
2270005030	Agricultural Equipment	Agricultural Mowers	Diesel	CO	0.005088	0.005070	0.004985	0.003583
2270005035	Agricultural Equipment	Sprayers	Diesel	CO	0.298834	0.287828	0.256957	0.160947
2270005040	Agricultural Equipment	Tillers > 6 HP	Diesel	CO	0.000576	0.000548	0.000469	0.000284
2270005045	Agricultural Equipment	Swathers	Diesel	CO	0.255270	0.264101	0.284060	0.227412
2270005055	Agricultural Equipment	Other Agricultural Equipment	Diesel	CO	0.846231	0.797226	0.667958	0.377282
2270005060	Agricultural Equipment	Irrigation Sets	Diesel	CO	0.379154	0.361571	0.319124	0.186577
2270006005	Commercial Equipment	Generator Sets	Diesel	CO	3.940882	3.915496	3.744449	2.744173
2270006010	Commercial Equipment	Pumps	Diesel	CO	0.916459	0.914245	0.887793	0.679690
2270006015	Commercial Equipment	Air Compressors	Diesel	CO	2.090663	2.039696	1.930908	1.200673
2270006020	Commercial Equipment	Gas Compressors	Diesel	CO	0.000000	0.000000	0.000000	0.000000
2270006025	Commercial Equipment	Welders	Diesel	CO	3.102409	3.104193	2.907265	1.870877
2270006030	Commercial Equipment	Pressure Washers	Diesel	CO	0.118668	0.117440	0.111646	0.084733
2270006035	Commercial Equipment	Hydro Power Units	Diesel	CO	0.094463	0.091165	0.084537	0.054657
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	0.945847	0.772745	0.635939	0.121345
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	0.000000	0.000000	0.000000	0.000000
2275000000	Aircraft	All Aircraft Types and Operations	Other	CO				
2275070000	Aircraft	Auxiliary Power Units	Other	CO				
2280000000	Marine Vessels	Commercial	All Fuels	CO	0.000000	0.000000	0.000000	0.000000
2280001000	Marine Vessels	Commercial	Coal	CO	0.000000	0.000000	0.000000	0.000000
2280002000	Marine Vessels	Commercial	Diesel	CO	0.000000	0.000000	0.000000	0.000000
2280003000	Marine Vessels	Commercial	Residual Fuel	CO	0.000000	0.000000	0.000000	0.000000
2280004000	Marine Vessels	Commercial	Gasoline	CO	0.000000	0.000000	0.000000	0.000000
2282005010	Pleasure Craft	Outboard	2 Stroke	CO	142.462762	136.830789	120.491445	104.459410
2282005015	Pleasure Craft	Personal Water Craft	2 Stroke	CO	51.555009	50.110042	46.992179	46.644055
2282010005	Pleasure Craft	Inboard/Stern Drive	4 Stroke	CO	70.553762	68.939764	63.565040	53.964282
2282020005	Pleasure Craft	Inboard/Stern Drive	Diesel	CO	0.539084	0.568710	0.642568	0.774218
2282020010	Pleasure Craft	Outboards	Diesel	CO	0.009253	0.009042	0.008174	0.006157
2285002005	Railroad Equipment	Line Haul Locomotives	Diesel	CO				
2285002010	Railroad Equipment	Yard Locomotive	Diesel	CO				
2285002015	Railroad Equipment	Railway Maintenance	Diesel	CO	1.104511	1.077054	0.979094	0.617400
2285004015	Railroad Equipment	Railway Maintenance	4 Stroke	CO	3.068715	3.214692	3.481378	3.791267
2285006015	Railroad Equipment	Railway Maintenance	LPG	CO	0.013214	0.013666	0.011910	0.004742

**Lawrence
County Total
Annual CO
Emissions**

5064.593517 5319.509202 5726.541719 6097.831212

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

Equipment Type	Fuel	Pollutant	Tons/Summer Day			
			2002	2004	2009	2018
Recreational	Diesel	VOC	0.000850	0.000825	0.000725	0.000471
Recreational	Gasoline	VOC	0.561157	0.689342	0.809097	0.544684
Recreational	CNG	VOC	0.000000	0.000000	0.000000	0.000000
Recreational	LPG	VOC	0.000070	0.000069	0.000059	0.000038
Construction	Diesel	VOC	0.042713	0.039660	0.031940	0.020017
Construction	Gasoline	VOC	0.025901	0.022658	0.013000	0.012390
Construction	CNG	VOC	0.000000	0.000000	0.000000	0.000000
Construction	LPG	VOC	0.000403	0.000387	0.000237	0.000068
Industrial	Diesel	VOC	0.014105	0.012848	0.010032	0.005717
Industrial	Gasoline	VOC	0.019063	0.015998	0.006691	0.001500
Industrial	CNG	VOC	0.000321	0.000308	0.000177	0.000026
Industrial	LPG	VOC	0.075923	0.073762	0.042614	0.006275
Lawn and Garden	Diesel	VOC	0.001281	0.001234	0.001035	0.000751
Lawn and Garden	Gasoline	VOC	0.526403	0.490655	0.384987	0.390519
Lawn and Garden	CNG	VOC	0.000000	0.000000	0.000000	0.000000
Lawn and Garden	LPG	VOC	0.000179	0.000169	0.000086	0.000012
Farm	Diesel	VOC	0.049291	0.044647	0.034525	0.020695
Farm	Gasoline	VOC	0.009001	0.008588	0.007086	0.005807
Farm	CNG	VOC	0.000014	0.000009	0.000001	0.000000
Farm	LPG	VOC	0.000005	0.000004	0.000003	0.000001
Light Commercial	Diesel	VOC	0.008841	0.008585	0.007386	0.004617
Light Commercial	Gasoline	VOC	0.131668	0.123207	0.097984	0.111477
Light Commercial	CNG	VOC	0.000104	0.000055	0.000026	0.000020
Light Commercial	LPG	VOC	0.002149	0.002236	0.001860	0.000997
Logging	Diesel	VOC	0.000627	0.000546	0.000388	0.000186
Logging	Gasoline	VOC	0.004553	0.004329	0.002613	0.003184
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	0.000879	0.000864	0.000777	0.000506
Railway Maintenance	Gasoline	VOC	0.000303	0.000277	0.000214	0.000222
Railway Maintenance	CNG	VOC	0.000000	0.000000	0.000000	0.000000
Railway Maintenance	LPG	VOC	0.000003	0.000003	0.000002	0.000001
Recreational Marine Vessels	Diesel	VOC	0.000337	0.000354	0.000365	0.000359
Recreational Marine Vessels	Gasoline	VOC	0.301898	0.282230	0.227330	0.175092
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	0.009110	0.006742	0.006833	0.007197
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	0.067628	0.069812	0.066390	0.066817
Lawrence County VOC Totals			1.854779	1.900401	1.754463	1.379648

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

Tons/Summer Day

Equipment Type	Fuel	Pollutant	2002	2004	2009	2018
Recreational	Diesel	NOx	0.002658	0.002691	0.002665	0.002176
Recreational	Gasoline	NOx	0.014884	0.015947	0.018519	0.020098
Recreational	CNG	NOx	0.000000	0.000000	0.000000	0.000000
Recreational	LPG	NOx	0.000257	0.000253	0.000214	0.000139
Construction	Diesel	NOx	0.369627	0.357533	0.310439	0.161280
Construction	Gasoline	NOx	0.002732	0.002514	0.001828	0.001456
Construction	CNG	NOx	0.000004	0.000004	0.000003	0.000001
Construction	LPG	NOx	0.001478	0.001408	0.000851	0.000296
Industrial	Diesel	NOx	0.128914	0.126113	0.111015	0.059343
Industrial	Gasoline	NOx	0.012537	0.010491	0.004649	0.000709
Industrial	CNG	NOx	0.019923	0.019005	0.010597	0.002481
Industrial	LPG	NOx	0.278452	0.268086	0.150926	0.035939
Lawn and Garden	Diesel	NOx	0.008537	0.008862	0.009154	0.008080
Lawn and Garden	Gasoline	NOx	0.043618	0.042653	0.036824	0.037883
Lawn and Garden	CNG	NOx	0.000000	0.000000	0.000000	0.000000
Lawn and Garden	LPG	NOx	0.000653	0.000612	0.000304	0.000072
Farm	Diesel	NOx	0.405108	0.393469	0.353935	0.226661
Farm	Gasoline	NOx	0.003284	0.003230	0.002545	0.001877
Farm	CNG	NOx	0.000859	0.000497	0.000060	0.000001
Farm	LPG	NOx	0.000017	0.000016	0.000010	0.000005
Light Commercial	Diesel	NOx	0.050512	0.051739	0.051763	0.040893
Light Commercial	Gasoline	NOx	0.021031	0.020823	0.018320	0.019925
Light Commercial	CNG	NOx	0.006549	0.003594	0.002205	0.001774
Light Commercial	LPG	NOx	0.009923	0.010293	0.008527	0.004921
Logging	Diesel	NOx	0.008622	0.007622	0.005102	0.001069
Logging	Gasoline	NOx	0.000168	0.000178	0.000173	0.000198
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	0.004530	0.004552	0.004366	0.003138
Railway Maintenance	Gasoline	NOx	0.000072	0.000065	0.000053	0.000053
Railway Maintenance	CNG	NOx	0.000000	0.000000	0.000000	0.000000
Railway Maintenance	LPG	NOx	0.000011	0.000011	0.000008	0.000003
Recreational Marine Vessels	Diesel	NOx	0.008815	0.009310	0.009929	0.010476
Recreational Marine Vessels	Gasoline	NOx	0.010506	0.011751	0.015059	0.019550
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	0.005212	0.003857	0.003909	0.004117
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	1.564687	1.415886	1.182904	1.025340
Lawrence County NOx Totals			2.984180	2.793064	2.316854	1.689954

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

Equipment Type	Fuel	Pollutant	Tons/Summer Day			
			2002	2004	2009	2018
Recreational	Diesel	CO	0.003162	0.003083	0.002768	0.001830
Recreational	Gasoline	CO	2.708014	3.046790	3.684112	4.078242
Recreational	CNG	CO	0.000000	0.000000	0.000000	0.000000
Recreational	LPG	CO	0.001028	0.001039	0.000956	0.000680
Construction	Diesel	CO	0.206830	0.190453	0.166055	0.084271
Construction	Gasoline	CO	0.360545	0.364144	0.359609	0.360495
Construction	CNG	CO	0.000015	0.000016	0.000015	0.000008
Construction	LPG	CO	0.005964	0.006128	0.004711	0.001681
Industrial	Diesel	CO	0.060269	0.057223	0.057381	0.021460
Industrial	Gasoline	CO	0.494574	0.436712	0.260039	0.070232
Industrial	CNG	CO	0.080526	0.083230	0.063421	0.013907
Industrial	LPG	CO	1.123523	1.174284	0.907159	0.208693
Lawn and Garden	Diesel	CO	0.004487	0.004457	0.004224	0.003275
Lawn and Garden	Gasoline	CO	7.287011	7.601387	8.411823	9.788996
Lawn and Garden	CNG	CO	0.000000	0.000000	0.000000	0.000000
Lawn and Garden	LPG	CO	0.002646	0.002715	0.001923	0.000411
Farm	Diesel	CO	0.235804	0.218895	0.182110	0.101274
Farm	Gasoline	CO	0.215826	0.219428	0.218445	0.225107
Farm	CNG	CO	0.003688	0.002181	0.000269	0.000006
Farm	LPG	CO	0.000067	0.000066	0.000052	0.000025
Light Commercial	Diesel	CO	0.032189	0.031934	0.030316	0.020808
Light Commercial	Gasoline	CO	3.232463	3.471054	4.062673	5.030873
Light Commercial	CNG	CO	0.025855	0.024973	0.008055	0.007424
Light Commercial	LPG	CO	0.029066	0.032232	0.032220	0.020429
Logging	Diesel	CO	0.002966	0.002423	0.001994	0.000381
Logging	Gasoline	CO	0.033530	0.035381	0.039877	0.051589
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	0.003741	0.003648	0.003316	0.002091
Railway Maintenance	Gasoline	CO	0.010727	0.011238	0.012170	0.013253
Railway Maintenance	CNG	CO	0.000000	0.000000	0.000000	0.000000
Railway Maintenance	LPG	CO	0.000045	0.000046	0.000040	0.000016
Recreational Marine Vessels	Diesel	CO	0.001413	0.001489	0.001677	0.002011
Recreational Marine Vessels	Gasoline	CO	0.687570	0.665043	0.600612	0.532872
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	0.460968	0.341116	0.345726	0.364165
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	0.172317	0.177875	0.192568	0.222140
Lawrence County CO Totals			17.486831	18.210683	19.656317	21.228644

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

SCC	Classification	Equipment Type	Engine Type	Pollutant Code	2002 Emissions	2004 Emissions	2009 Emissions	2018 Emissions
2260001010	Recreational Equipment	Motorcycles: Off-Road	2 Stroke	NOx	0.000494	0.000575	0.000941	0.001524
2260001020	Recreational Equipment	Snowmobiles	2 Stroke	NOx	0.000000	0.000000	0.000000	0.000000
2260001030	Recreational Equipment	ATVs	2 Stroke	NOx	0.000500	0.000688	0.001306	0.002212
2260001060	Recreational Equipment	Specialty Vehicles/Carts	2 Stroke	NOx	0.000740	0.000693	0.000565	0.000582
2260002006	Construction and Mining Equipment	Tampers/Rammers	2 Stroke	NOx	0.000052	0.000050	0.000027	0.000027
2260002009	Construction and Mining Equipment	Plate Compactors	2 Stroke	NOx	0.000001	0.000001	0.000002	0.000002
2260002021	Construction and Mining Equipment	Paving Equipment	2 Stroke	NOx	0.000001	0.000002	0.000002	0.000002
2260002027	Construction and Mining Equipment	Signal Boards/Light Plants	2 Stroke	NOx	0.000000	0.000000	0.000000	0.000000
2260002039	Construction and Mining Equipment	Concrete/Industrial Saws	2 Stroke	NOx	0.000124	0.000113	0.000070	0.000071
2260002054	Construction and Mining Equipment	Crushing/Proc. Equipment	2 Stroke	NOx	0.000000	0.000000	0.000000	0.000000
2260003030	Industrial Equipment	Sweepers/Scrubbers	2 Stroke	NOx	0.000001	0.000002	0.000001	0.000001
2260003040	Industrial Equipment	Other General Industrial Eqp	2 Stroke	NOx	0.000000	0.000000	0.000000	0.000000
2260004015	Lawn and Garden Equipment (Res)	Rotary Tillers < 6 HP	2 Stroke	NOx	0.000007	0.000009	0.000016	0.000020
2260004016	Lawn and Garden Equipment (Com)	Rotary Tillers < 6 HP	2 Stroke	NOx	0.000007	0.000010	0.000019	0.000023
2260004020	Lawn and Garden Equipment (Res)	Chain Saws < 6 HP	2 Stroke	NOx	0.000053	0.000077	0.000147	0.000176
2260004021	Lawn and Garden Equipment (Com)	Chain Saws < 6 HP	2 Stroke	NOx	0.000200	0.000196	0.000134	0.000156
2260004025	Lawn and Garden Equipment (Res)	Trimmers/Edgers/Brush Cutter	2 Stroke	NOx	0.000131	0.000180	0.000330	0.000394
2260004026	Lawn and Garden Equipment (Com)	Trimmers/Edgers/Brush Cutter	2 Stroke	NOx	0.000095	0.000136	0.000189	0.000219
2260004030	Lawn and Garden Equipment (Res)	Leafblowers/Vacuums	2 Stroke	NOx	0.000078	0.000111	0.000211	0.000252
2260004031	Lawn and Garden Equipment (Com)	Leafblowers/Vacuums	2 Stroke	NOx	0.000152	0.000179	0.000176	0.000203
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	0.000006	0.000006
2260006005	Commercial Equipment	Generator Sets	2 Stroke	NOx	0.000007	0.000012	0.000020	0.000024
2260006010	Commercial Equipment	Pumps	2 Stroke	NOx	0.000055	0.000094	0.000134	0.000166
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	0.000001	0.000001	0.000001
2260007005	Logging Equipment	Chain Saws > 6 HP	2 Stroke	NOx	0.000043	0.000042	0.000027	0.000035
2265001010	Recreational Equipment	Motorcycles: Off-Road	4 Stroke	NOx	0.000690	0.000802	0.001021	0.001129
2265001030	Recreational Equipment	ATVs	4 Stroke	NOx	0.006227	0.007552	0.009283	0.008960
2265001050	Recreational Equipment	Golf Carts	4 Stroke	NOx	0.005594	0.004978	0.004742	0.005056
2265001060	Recreational Equipment	Specialty Vehicles/Carts	4 Stroke	NOx	0.000640	0.000659	0.000662	0.000636
2265002003	Construction and Mining Equipment	Pavers	4 Stroke	NOx	0.000094	0.000084	0.000061	0.000046
2265002006	Construction and Mining Equipment	Tampers/Rammers	4 Stroke	NOx	0.000001	0.000000	0.000000	0.000000
2265002009	Construction and Mining Equipment	Plate Compactors	4 Stroke	NOx	0.000111	0.000106	0.000075	0.000069
2265002015	Construction and Mining Equipment	Rollers	4 Stroke	NOx	0.000161	0.000141	0.000097	0.000080
2265002021	Construction and Mining Equipment	Paving Equipment	4 Stroke	NOx	0.000234	0.000218	0.000168	0.000160
2265002024	Construction and Mining Equipment	Surfacing Equipment	4 Stroke	NOx	0.000097	0.000087	0.000069	0.000068
2265002027	Construction and Mining Equipment	Signal Boards/Light Plants	4 Stroke	NOx	0.000005	0.000004	0.000003	0.000003
2265002030	Construction and Mining Equipment	Trenchers	4 Stroke	NOx	0.000283	0.000257	0.000180	0.000133
2265002033	Construction and Mining Equipment	Bore/Drill Rigs	4 Stroke	NOx	0.000089	0.000088	0.000065	0.000049
2265002039	Construction and Mining Equipment	Concrete/Industrial Saws	4 Stroke	NOx	0.000481	0.000420	0.000324	0.000313
2265002042	Construction and Mining Equipment	Cement & Mortar Mixers	4 Stroke	NOx	0.000182	0.000187	0.000158	0.000138
2265002045	Construction and Mining Equipment	Cranes	4 Stroke	NOx	0.000047	0.000044	0.000033	0.000014
2265002054	Construction and Mining Equipment	Crushing/Proc. Equipment	4 Stroke	NOx	0.000031	0.000028	0.000023	0.000020
2265002057	Construction and Mining Equipment	Rough Terrain Forklifts	4 Stroke	NOx	0.000080	0.000075	0.000048	0.000013
2265002060	Construction and Mining Equipment	Rubber Tire Loaders	4 Stroke	NOx	0.000199	0.000183	0.000095	0.000020
2265002066	Construction and Mining Equipment	Tractors/Loaders/Backhoes	4 Stroke	NOx	0.000151	0.000131	0.000109	0.000105
2265002072	Construction and Mining Equipment	Skid Steer Loaders	4 Stroke	NOx	0.000212	0.000198	0.000142	0.000076
2265002078	Construction and Mining Equipment	Dumpers/Tenders	4 Stroke	NOx	0.000030	0.000030	0.000027	0.000024
2265002081	Construction and Mining Equipment	Other Construction Equipment	4 Stroke	NOx	0.000069	0.000067	0.000051	0.000022
2265003010	Industrial Equipment	Aerial Lifts	4 Stroke	NOx	0.001753	0.001519	0.000929	0.000280
2265003020	Industrial Equipment	Forklifts	4 Stroke	NOx	0.007401	0.006230	0.002713	0.000205
2265003030	Industrial Equipment	Sweepers/Scrubbers	4 Stroke	NOx	0.001318	0.001057	0.000371	0.000063
2265003040	Industrial Equipment	Other General Industrial Eqp	4 Stroke	NOx	0.001164	0.000969	0.000444	0.000128
2265003050	Industrial Equipment	Other Material Handling Eqp	4 Stroke	NOx	0.000116	0.000099	0.000060	0.000014
2265003060	Industrial Equipment	AC\Refrigeration	4 Stroke	NOx	0.000018	0.000014	0.000008	0.000003
2265003070	Industrial Equipment	Terminal Tractors	4 Stroke	NOx	0.000764	0.000600	0.000121	0.000015
2265004010	Lawn and Garden Equipment (Res)	Lawn mowers	4 Stroke	NOx	0.005725	0.006158	0.005568	0.004136
2265004011	Lawn and Garden Equipment (Com)	Lawn mowers	4 Stroke	NOx	0.001072	0.001117	0.000730	0.000740
2265004015	Lawn and Garden Equipment (Res)	Rotary Tillers < 6 HP	4 Stroke	NOx	0.000486	0.000522	0.000470	0.000347
2265004016	Lawn and Garden Equipment (Com)	Rotary Tillers < 6 HP	4 Stroke	NOx	0.000540	0.000573	0.000484	0.000381
2265004025	Lawn and Garden Equipment (Res)	Trimmers/Edgers/Brush Cutter	4 Stroke	NOx	0.000033	0.000035	0.000029	0.000023
2265004026	Lawn and Garden Equipment (Com)	Trimmers/Edgers/Brush Cutter	4 Stroke	NOx	0.000028	0.000027	0.000021	0.000023
2265004030	Lawn and Garden Equipment (Res)	Leafblowers/Vacuums	4 Stroke	NOx	0.000063	0.000067	0.000056	0.000044
2265004031	Lawn and Garden Equipment (Com)	Leafblowers/Vacuums	4 Stroke	NOx	0.001834	0.001685	0.001375	0.001145
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	0.001493	0.001454	0.001289	0.001443
2265004041	Lawn and Garden Equipment (Com)	Rear Engine Riding Mowers	4 Stroke	NOx	0.000149	0.000133	0.000124	0.000145
2265004046	Lawn and Garden Equipment (Com)	Front Mowers	4 Stroke	NOx	0.000157	0.000164	0.000157	0.000166
2265004051	Lawn and Garden Equipment (Com)	Shredders < 6 HP	4 Stroke	NOx	0.000061	0.000066	0.000057	0.000044
2265004055	Lawn and Garden Equipment (Res)	Lawn & Garden Tractors	4 Stroke	NOx	0.020517	0.019920	0.017359	0.019354
2265004056	Lawn and Garden Equipment (Com)	Lawn & Garden Tractors	4 Stroke	NOx	0.002077	0.001828	0.001691	0.001967
2265004066	Lawn and Garden Equipment (Com)	Chippers/Stump Grinders	4 Stroke	NOx	0.000664	0.000614	0.000385	0.000251

**Appendix D-2: Lawrence 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	0.007273	0.006618	0.005043	0.005553
2265004075	Lawn and Garden Equipment (Res)	Other Lawn & Garden Eqp.	4 Stroke	NOx	0.000563	0.000605	0.000594	0.000529
2265004076	Lawn and Garden Equipment (Com)	Other Lawn & Garden Eqp.	4 Stroke	NOx	0.000161	0.000173	0.000170	0.000151
2265005010	Agricultural Equipment	2-Wheel Tractors	4 Stroke	NOx	0.000034	0.000030	0.000028	0.000031
2265005015	Agricultural Equipment	Agricultural Tractors	4 Stroke	NOx	0.000383	0.000359	0.000209	0.000071
2265005020	Agricultural Equipment	Combines	4 Stroke	NOx	0.000003	0.000003	0.000002	0.000002
2265005025	Agricultural Equipment	Balers	4 Stroke	NOx	0.000272	0.000271	0.000236	0.000161
2265005030	Agricultural Equipment	Agricultural Mowers	4 Stroke	NOx	0.000028	0.000027	0.000024	0.000026
2265005035	Agricultural Equipment	Sprayers	4 Stroke	NOx	0.000442	0.000451	0.000402	0.000325
2265005040	Agricultural Equipment	Tillers > 6 HP	4 Stroke	NOx	0.000424	0.000449	0.000500	0.000588
2265005045	Agricultural Equipment	Swathers	4 Stroke	NOx	0.000431	0.000429	0.000374	0.000255
2265005055	Agricultural Equipment	Other Agricultural Equipment	4 Stroke	NOx	0.000515	0.000513	0.000449	0.000322
2265005060	Agricultural Equipment	Irrigation Sets	4 Stroke	NOx	0.000749	0.000694	0.000314	0.000090
2265006005	Commercial Equipment	Generator Sets	4 Stroke	NOx	0.008919	0.009049	0.008455	0.009782
2265006010	Commercial Equipment	Pumps	4 Stroke	NOx	0.002699	0.002641	0.002106	0.002127
2265006015	Commercial Equipment	Air Compressors	4 Stroke	NOx	0.001860	0.001800	0.001363	0.001068
2265006025	Commercial Equipment	Welders	4 Stroke	NOx	0.003359	0.003167	0.002810	0.002731
2265006030	Commercial Equipment	Pressure Washers	4 Stroke	NOx	0.003935	0.003876	0.003264	0.003825
2265006035	Commercial Equipment	Hydro Power Units	4 Stroke	NOx	0.000196	0.000183	0.000167	0.000200
2265007010	Logging Equipment	Shredders > 6 HP	4 Stroke	NOx	0.000123	0.000135	0.000144	0.000162
2265007015	Logging Equipment	Forest Eqp - Feller/Bunch/Skidder	4 Stroke	NOx	0.000001	0.000001	0.000001	0.000001
2265008005	Airport Equipment	Airport Ground Support Equipment	4 Stroke	NOx	0.000000	0.000000	0.000000	0.000000
2265010010	Industrial Equipment	Other Oil Field Equipment	4 Stroke	NOx	0.000000	0.000000	0.000000	0.000000
2267001060	Recreational Equipment	Specialty Vehicle Carts	LPG	NOx	0.000257	0.000253	0.000214	0.000139
2267002003	Construction and Mining Equipment	Pavers	LPG	NOx	0.000061	0.000058	0.000034	0.000009
2267002015	Construction and Mining Equipment	Rollers	LPG	NOx	0.000103	0.000094	0.000040	0.000011
2267002021	Construction and Mining Equipment	Paving Equipment	LPG	NOx	0.000016	0.000016	0.000012	0.000005
2267002024	Construction and Mining Equipment	Surfacing Equipment	LPG	NOx	0.000010	0.000010	0.000005	0.000002
2267002030	Construction and Mining Equipment	Trenchers	LPG	NOx	0.000186	0.000178	0.000108	0.000029
2267002033	Construction and Mining Equipment	Bore/Drill Rigs	LPG	NOx	0.000061	0.000061	0.000053	0.000035
2267002039	Construction and Mining Equipment	Concrete/Industrial Saws	LPG	NOx	0.000178	0.000157	0.000048	0.000018
2267002045	Construction and Mining Equipment	Cranes	LPG	NOx	0.000066	0.000065	0.000050	0.000020
2267002054	Construction and Mining Equipment	Crushing/Proc. Equipment	LPG	NOx	0.000011	0.000011	0.000008	0.000003
2267002057	Construction and Mining Equipment	Rough Terrain Forklifts	LPG	NOx	0.000118	0.000115	0.000076	0.000021
2267002060	Construction and Mining Equipment	Rubber Tire Loaders	LPG	NOx	0.000295	0.000279	0.000153	0.000034
2267002066	Construction and Mining Equipment	Tractors/Loaders/Backhoes	LPG	NOx	0.000031	0.000029	0.000013	0.000003
2267002072	Construction and Mining Equipment	Skid Steer Loaders	LPG	NOx	0.000244	0.000238	0.000173	0.000070
2267002081	Construction and Mining Equipment	Other Construction Equipment	LPG	NOx	0.000098	0.000097	0.000077	0.000036
2267003010	Industrial Equipment	Aerial Lifts	LPG	NOx	0.002880	0.002880	0.002276	0.001107
2267003020	Industrial Equipment	Forklifts	LPG	NOx	0.271447	0.261402	0.147154	0.034324
2267003030	Industrial Equipment	Sweepers/Scrubbers	LPG	NOx	0.002071	0.001912	0.000768	0.000245
2267003040	Industrial Equipment	Other General Industrial Equipm	LPG	NOx	0.000633	0.000598	0.000289	0.000075
2267003050	Industrial Equipment	Other Material Handling Equipment	LPG	NOx	0.000156	0.000155	0.000121	0.000045
2267003070	Industrial Equipment	Terminal Tractors	LPG	NOx	0.001265	0.001138	0.000319	0.000142
2267004066	Lawn and Garden Equipment (Com)	Chippers/Stump Grinders	LPG	NOx	0.000653	0.000612	0.000304	0.000072
2267005055	Agricultural Equipment	Other Agricultural Equipment	LPG	NOx	0.000009	0.000009	0.000007	0.000005
2267005060	Agricultural Equipment	Irrigation Sets	LPG	NOx	0.000008	0.000007	0.000003	0.000001
2267006005	Commercial Equipment	Generator Sets	LPG	NOx	0.005299	0.005573	0.005113	0.003689
2267006010	Commercial Equipment	Pumps	LPG	NOx	0.001234	0.001268	0.000986	0.000494
2267006015	Commercial Equipment	Air Compressors	LPG	NOx	0.001488	0.001504	0.001029	0.000316
2267006025	Commercial Equipment	Welders	LPG	NOx	0.001855	0.001900	0.001365	0.000407
2267006030	Commercial Equipment	Pressure Washers	LPG	NOx	0.000024	0.000026	0.000022	0.000011
2267006035	Commercial Equipment	Hydro Power Units	LPG	NOx	0.000023	0.000023	0.000013	0.000005
2267008005	Airport Equipment	Airport Ground Support Equipment	LPG	NOx	0.000000	0.000000	0.000000	0.000000
2268002081	Construction and Mining Equipment	Other Construction Equipment	CNG	NOx	0.000004	0.000004	0.000003	0.000001
2268003020	Industrial Equipment	Forklifts	CNG	NOx	0.019763	0.018859	0.010542	0.002462
2268003030	Industrial Equipment	Sweepers/Scrubbers	CNG	NOx	0.000024	0.000023	0.000012	0.000003
2268003040	Industrial Equipment	Other General Industrial Equipment	CNG	NOx	0.000015	0.000015	0.000008	0.000002
2268003060	Industrial Equipment	AC\Refrigeration	CNG	NOx	0.000032	0.000030	0.000013	0.000004
2268003070	Industrial Equipment	Terminal Tractors	CNG	NOx	0.000089	0.000080	0.000022	0.000010
2268005055	Agricultural Equipment	Other Agricultural Equipment	CNG	NOx	0.000011	0.000009	0.000005	0.000001
2268005060	Agricultural Equipment	Irrigation Sets	CNG	NOx	0.000848	0.000488	0.000055	0.000000
2268006005	Commercial Equipment	Generator Sets	CNG	NOx	0.001737	0.001770	0.001580	0.001122
2268006010	Commercial Equipment	Pumps	CNG	NOx	0.000087	0.000087	0.000070	0.000038
2268006015	Commercial Equipment	Air Compressors	CNG	NOx	0.000125	0.000122	0.000082	0.000023
2268006020	Commercial Equipment	Gas Compressors	CNG	NOx	0.004601	0.001615	0.000473	0.000591
2268006035	Commercial Equipment	Hydro Power Units	CNG	NOx	0.000000	0.000000	0.000000	0.000000
2268010010	Industrial Equipment	Other Oil Field Equipment	CNG	NOx	0.000000	0.000000	0.000000	0.000000
2270001060	Recreational Equipment	Specialty Vehicle Carts	Diesel	NOx	0.002658	0.002691	0.002665	0.002176
2270002003	Construction and Mining Equipment	Pavers	Diesel	NOx	0.004914	0.004689	0.004002	0.001833
2270002006	Construction and Mining Equipment	Tampers/Rammers	Diesel	NOx	0.000011	0.000011	0.000009	0.000008
2270002009	Construction and Mining Equipment	Plate Compactors	Diesel	NOx	0.000168	0.000164	0.000142	0.000127
2270002015	Construction and Mining Equipment	Rollers	Diesel	NOx	0.012192	0.011773	0.010337	0.005216
2270002018	Construction and Mining Equipment	Scrapers	Diesel	NOx	0.014115	0.013566	0.011283	0.004942
2270002021	Construction and Mining Equipment	Paving Equipment	Diesel	NOx	0.000777	0.000751	0.000651	0.000370
2270002024	Construction and Mining Equipment	Surfacing Equipment	Diesel	NOx	0.000524	0.000515	0.000471	0.000321

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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	0.001472	0.001438	0.001307	0.001224
2270002030	Construction and Mining Equipment	Trenchers	Diesel	NOx	0.005671	0.005606	0.005216	0.003638
2270002033	Construction and Mining Equipment	Bore/Drill Rigs	Diesel	NOx	0.006733	0.006674	0.006165	0.004336
2270002036	Construction and Mining Equipment	Excavators	Diesel	NOx	0.048732	0.045905	0.037679	0.012916
2270002039	Construction and Mining Equipment	Concrete/Industrial Saws	Diesel	NOx	0.000381	0.000376	0.000358	0.000262
2270002042	Construction and Mining Equipment	Cement & Mortar Mixers	Diesel	NOx	0.000253	0.000252	0.000238	0.000183
2270002045	Construction and Mining Equipment	Cranes	Diesel	NOx	0.013271	0.012747	0.010691	0.004956
2270002048	Construction and Mining Equipment	Graders	Diesel	NOx	0.012382	0.011584	0.009485	0.003218
2270002051	Construction and Mining Equipment	Off-highway Trucks	Diesel	NOx	0.045964	0.044475	0.037220	0.018407
2270002054	Construction and Mining Equipment	Crushing/Proc. Equipment	Diesel	NOx	0.002330	0.002261	0.001959	0.001093
2270002057	Construction and Mining Equipment	Rough Terrain Forklifts	Diesel	NOx	0.015577	0.015380	0.013904	0.007227
2270002060	Construction and Mining Equipment	Rubber Tire Loaders	Diesel	NOx	0.059674	0.057630	0.049702	0.025112
2270002066	Construction and Mining Equipment	Tractors/Loaders/Backhoes	Diesel	NOx	0.036254	0.035877	0.033591	0.022226
2270002069	Construction and Mining Equipment	Crawler Tractor/Dozers	Diesel	NOx	0.052434	0.050158	0.042302	0.018582
2270002072	Construction and Mining Equipment	Skid Steer Loaders	Diesel	NOx	0.023245	0.023450	0.022949	0.018735
2270002075	Construction and Mining Equipment	Off-Highway Tractors	Diesel	NOx	0.006329	0.006193	0.005451	0.003208
2270002078	Construction and Mining Equipment	Dumpers/Tenders	Diesel	NOx	0.000075	0.000075	0.000074	0.000061
2270002081	Construction and Mining Equipment	Other Construction Equipment	Diesel	NOx	0.006146	0.005983	0.005254	0.003076
2270003010	Industrial Equipment	Aerial Lifts	Diesel	NOx	0.002994	0.003003	0.002898	0.002430
2270003020	Industrial Equipment	Forklifts	Diesel	NOx	0.031600	0.031312	0.026817	0.010027
2270003030	Industrial Equipment	Sweepers/Scrubbers	Diesel	NOx	0.016753	0.016026	0.013916	0.005840
2270003040	Industrial Equipment	Other General Industrial Eqp	Diesel	NOx	0.019081	0.018469	0.015800	0.007853
2270003050	Industrial Equipment	Other Material Handling Eqp	Diesel	NOx	0.000883	0.000871	0.000800	0.000565
2270003060	Industrial Equipment	AC\Refrigeration	Diesel	NOx	0.035983	0.035681	0.034005	0.027970
2270003070	Industrial Equipment	Terminal Tractors	Diesel	NOx	0.021620	0.020751	0.016779	0.004659
2270004031	Lawn and Garden Equipment (Com)	Leafblowers/Vacuums	Diesel	NOx	0.000000	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	0.002975	0.003076	0.003194	0.003251
2270004056	Lawn and Garden Equipment (Com)	Lawn & Garden Tractors	Diesel	NOx	0.000657	0.000660	0.000639	0.000703
2270004066	Lawn and Garden Equipment (Com)	Chippers/Stump Grinders	Diesel	NOx	0.004445	0.004663	0.004855	0.003806
2270004071	Lawn and Garden Equipment (Com)	Commercial Turf Equipment	Diesel	NOx	0.000448	0.000450	0.000452	0.000306
2270004076	Lawn and Garden Equipment (Com)	Other Lawn & Garden Eqp.	Diesel	NOx	0.000012	0.000012	0.000013	0.000013
2270005010	Agricultural Equipment	2-Wheel Tractors	Diesel	NOx	0.000008	0.000008	0.000006	0.000006
2270005015	Agricultural Equipment	Agricultural Tractors	Diesel	NOx	0.352198	0.341411	0.306365	0.194726
2270005020	Agricultural Equipment	Combines	Diesel	NOx	0.035709	0.035081	0.032014	0.021784
2270005025	Agricultural Equipment	Balers	Diesel	NOx	0.000153	0.000155	0.000153	0.000126
2270005030	Agricultural Equipment	Agricultural Mowers	Diesel	NOx	0.000033	0.000032	0.000030	0.000021
2270005035	Agricultural Equipment	Sprayers	Diesel	NOx	0.002531	0.002542	0.002449	0.001772
2270005040	Agricultural Equipment	Tillers > 6 HP	Diesel	NOx	0.000004	0.000004	0.000004	0.000003
2270005045	Agricultural Equipment	Swathers	Diesel	NOx	0.002500	0.002479	0.002329	0.001703
2270005055	Agricultural Equipment	Other Agricultural Equipment	Diesel	NOx	0.007357	0.007192	0.006460	0.004218
2270005060	Agricultural Equipment	Irrigation Sets	Diesel	NOx	0.004614	0.004565	0.004124	0.002302
2270006005	Commercial Equipment	Generator Sets	Diesel	NOx	0.023072	0.023691	0.024026	0.020120
2270006010	Commercial Equipment	Pumps	Diesel	NOx	0.005493	0.005639	0.005692	0.004689
2270006015	Commercial Equipment	Air Compressors	Diesel	NOx	0.013864	0.014082	0.013495	0.008576
2270006020	Commercial Equipment	Gas Compressors	Diesel	NOx	0.000000	0.000000	0.000000	0.000000
2270006025	Commercial Equipment	Welders	Diesel	NOx	0.006713	0.006929	0.007167	0.006437
2270006030	Commercial Equipment	Pressure Washers	Diesel	NOx	0.000771	0.000790	0.000799	0.000673
2270006035	Commercial Equipment	Hydro Power Units	Diesel	NOx	0.000600	0.000606	0.000583	0.000398
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	0.008622	0.007622	0.005102	0.001069
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	0.000000	0.000000	0.000000	0.000000
2275000000	Aircraft	All Aircraft Types and Operations	Other	NOx	0.005212	0.003857	0.003909	0.004117
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	0.002984	0.003601	0.005283	0.007528
2282005015	Pleasure Craft	Personal Water Craft	2 Stroke	NOx	0.000835	0.001104	0.001725	0.002228
2282010005	Pleasure Craft	Inboard/Sterndrive	4 Stroke	NOx	0.006686	0.007046	0.008051	0.009794
2282020005	Pleasure Craft	Inboard/Sterndrive	Diesel	NOx	0.008782	0.009276	0.009893	0.010438
2282020010	Pleasure Craft	Outboards	Diesel	NOx	0.000033	0.000034	0.000035	0.000037
2285002005	Railroad Equipment	Line Haul Locomotives	Diesel	NOx	1.564687	1.415886	1.182904	1.025340
2285002010	Railroad Equipment	Yard Locomotive	Diesel	NOx	0.000000	0.000000	0.000000	0.000000
2285002015	Railroad Equipment	Railway Maintenance	Diesel	NOx	0.004530	0.004552	0.004366	0.003138
2285004015	Railroad Equipment	Railway Maintenance	4 Stroke	NOx	0.000072	0.000065	0.000053	0.000053
2285006015	Railroad Equipment	Railway Maintenance	LPG	NOx	0.000011	0.000011	0.000008	0.000003
Lawrence County Total Summer Day NOx Emissions					2.984180	2.793064	2.316854	1.689954

**Appendix D-2: Lawrence 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	0.208785	0.242444	0.277870	0.224974
2260001020	Recreational Equipment	Snowmobiles	2 Stroke	VOC	0.014102	0.015396	0.016848	0.012678
2260001030	Recreational Equipment	ATVs	2 Stroke	VOC	0.208501	0.287879	0.345886	0.141187
2260001060	Recreational Equipment	Specialty Vehicles/Carts	2 Stroke	VOC	0.004928	0.004655	0.004114	0.004242
2260002006	Construction and Mining Equipment	Tampers/Rammers	2 Stroke	VOC	0.004358	0.004173	0.001891	0.001877
2260002009	Construction and Mining Equipment	Plate Compactors	2 Stroke	VOC	0.000265	0.000161	0.000068	0.000070
2260002021	Construction and Mining Equipment	Paving Equipment	2 Stroke	VOC	0.000315	0.000186	0.000080	0.000082
2260002027	Construction and Mining Equipment	Signal Boards/Light Plants	2 Stroke	VOC	0.000002	0.000001	0.000001	0.000001
2260002039	Construction and Mining Equipment	Concrete/Industrial Saws	2 Stroke	VOC	0.011601	0.009550	0.004639	0.004754
2260002054	Construction and Mining Equipment	Crushing/Proc. Equipment	2 Stroke	VOC	0.000058	0.000031	0.000016	0.000016
2260003030	Industrial Equipment	Sweepers/Scrubbers	2 Stroke	VOC	0.000313	0.000146	0.000056	0.000020
2260003040	Industrial Equipment	Other General Industrial Eqp	2 Stroke	VOC	0.000025	0.000012	0.000004	0.000002
2260004015	Lawn and Garden Equipment (Res)	Rotary Tillers < 6 HP	2 Stroke	VOC	0.002672	0.002338	0.001127	0.000979
2260004016	Lawn and Garden Equipment (Com)	Rotary Tillers < 6 HP	2 Stroke	VOC	0.002599	0.002143	0.000723	0.000711
2260004020	Lawn and Garden Equipment (Res)	Chain Saws < 6 HP	2 Stroke	VOC	0.021764	0.018281	0.007493	0.007795
2260004021	Lawn and Garden Equipment (Com)	Chain Saws < 6 HP	2 Stroke	VOC	0.019600	0.016834	0.008482	0.009883
2260004025	Lawn and Garden Equipment (Res)	Trimmers/Edgers/Brush Cutter	2 Stroke	VOC	0.051164	0.043344	0.018666	0.019584
2260004026	Lawn and Garden Equipment (Com)	Trimmers/Edgers/Brush Cutter	2 Stroke	VOC	0.024668	0.017985	0.006909	0.008002
2260004030	Lawn and Garden Equipment (Res)	Leafblowers/Vacuums	2 Stroke	VOC	0.034887	0.030002	0.014749	0.015861
2260004031	Lawn and Garden Equipment (Com)	Leafblowers/Vacuums	2 Stroke	VOC	0.023662	0.019120	0.008057	0.009218
2260004035	Lawn and Garden Equipment (Res)	Snowblowers	2 Stroke	VOC	0.004056	0.004227	0.004652	0.005420
2260004036	Lawn and Garden Equipment (Com)	Snowblowers	2 Stroke	VOC	0.000104	0.000109	0.000120	0.000139
2260004071	Lawn and Garden Equipment (Com)	Commercial Turf Equipment	2 Stroke	VOC	0.000011	0.000007	0.000003	0.000003
2260005035	Agricultural Equipment	Sprayers	2 Stroke	VOC	0.000811	0.000591	0.000209	0.000233
2260006005	Commercial Equipment	Generator Sets	2 Stroke	VOC	0.002442	0.001622	0.000731	0.000907
2260006010	Commercial Equipment	Pumps	2 Stroke	VOC	0.016636	0.009684	0.005174	0.006244
2260006015	Commercial Equipment	Air Compressors	2 Stroke	VOC	0.000006	0.000003	0.000002	0.000002
2260006035	Commercial Equipment	Hydro Power Units	2 Stroke	VOC	0.000092	0.000051	0.000030	0.000037
2260007005	Logging Equipment	Chain Saws > 6 HP	2 Stroke	VOC	0.003765	0.003564	0.001906	0.002414
2265001010	Recreational Equipment	Motorcycles: Off-Road	4 Stroke	VOC	0.008567	0.009656	0.011579	0.011257
2265001030	Recreational Equipment	ATVs	4 Stroke	VOC	0.088361	0.103942	0.128743	0.125644
2265001050	Recreational Equipment	Golf Carts	4 Stroke	VOC	0.022675	0.020280	0.019390	0.020672
2265001060	Recreational Equipment	Specialty Vehicles/Carts	4 Stroke	VOC	0.005237	0.005090	0.004667	0.004030
2265002003	Construction and Mining Equipment	Pavers	4 Stroke	VOC	0.000238	0.000210	0.000160	0.000148
2265002006	Construction and Mining Equipment	Tampers/Rammers	4 Stroke	VOC	0.000002	0.000002	0.000001	0.000001
2265002009	Construction and Mining Equipment	Plate Compactors	4 Stroke	VOC	0.000928	0.000908	0.000569	0.000478
2265002015	Construction and Mining Equipment	Rollers	4 Stroke	VOC	0.000386	0.000335	0.000273	0.000262
2265002021	Construction and Mining Equipment	Paving Equipment	4 Stroke	VOC	0.001351	0.001254	0.000873	0.000826
2265002024	Construction and Mining Equipment	Surfacing Equipment	4 Stroke	VOC	0.000480	0.000444	0.000299	0.000303
2265002027	Construction and Mining Equipment	Signal Boards/Light Plants	4 Stroke	VOC	0.000033	0.000032	0.000019	0.000019
2265002030	Construction and Mining Equipment	Trenchers	4 Stroke	VOC	0.000948	0.000880	0.000561	0.000525
2265002033	Construction and Mining Equipment	Bore/Drill Rigs	4 Stroke	VOC	0.000572	0.000568	0.000374	0.000296
2265002039	Construction and Mining Equipment	Concrete/Industrial Saws	4 Stroke	VOC	0.001379	0.001195	0.001036	0.001043
2265002042	Construction and Mining Equipment	Cement & Mortar Mixers	4 Stroke	VOC	0.001502	0.001389	0.001127	0.000911
2265002045	Construction and Mining Equipment	Cranes	4 Stroke	VOC	0.000049	0.000046	0.000036	0.000017
2265002054	Construction and Mining Equipment	Crushing/Proc. Equipment	4 Stroke	VOC	0.000126	0.000116	0.000080	0.000079
2265002057	Construction and Mining Equipment	Rough Terrain Forklifts	4 Stroke	VOC	0.000072	0.000068	0.000044	0.000010
2265002060	Construction and Mining Equipment	Rubber Tire Loaders	4 Stroke	VOC	0.000173	0.000159	0.000082	0.000011
2265002066	Construction and Mining Equipment	Tractors/Loaders/Backhoes	4 Stroke	VOC	0.000469	0.000404	0.000351	0.000353
2265002072	Construction and Mining Equipment	Skid Steer Loaders	4 Stroke	VOC	0.000336	0.000306	0.000233	0.000169
2265002078	Construction and Mining Equipment	Dumpers/Tenders	4 Stroke	VOC	0.000215	0.000198	0.000163	0.000142
2265002081	Construction and Mining Equipment	Other Construction Equipment	4 Stroke	VOC	0.000064	0.000061	0.000047	0.000020
2265003010	Industrial Equipment	Aerial Lifts	4 Stroke	VOC	0.002418	0.002036	0.001234	0.000391
2265003020	Industrial Equipment	Forklifts	4 Stroke	VOC	0.006354	0.005364	0.002326	0.000125
2265003030	Industrial Equipment	Sweepers/Scrubbers	4 Stroke	VOC	0.002014	0.001627	0.000655	0.000165
2265003040	Industrial Equipment	Other General Industrial Eqp	4 Stroke	VOC	0.007034	0.006094	0.002205	0.000754
2265003050	Industrial Equipment	Other Material Handling Eqp	4 Stroke	VOC	0.000172	0.000143	0.000086	0.000024
2265003060	Industrial Equipment	AC\Refrigeration	4 Stroke	VOC	0.000073	0.000057	0.000035	0.000012
2265003070	Industrial Equipment	Terminal Tractors	4 Stroke	VOC	0.000659	0.000519	0.000091	0.000008
2265004010	Lawn and Garden Equipment (Res)	Lawn mowers	4 Stroke	VOC	0.107364	0.107389	0.103161	0.085001
2265004011	Lawn and Garden Equipment (Com)	Lawn mowers	4 Stroke	VOC	0.012824	0.013365	0.007700	0.007219
2265004015	Lawn and Garden Equipment (Res)	Rotary Tillers < 6 HP	4 Stroke	VOC	0.008904	0.008962	0.008531	0.006769
2265004016	Lawn and Garden Equipment (Com)	Rotary Tillers < 6 HP	4 Stroke	VOC	0.006124	0.006072	0.005151	0.003257
2265004025	Lawn and Garden Equipment (Res)	Trimmers/Edgers/Brush Cutter	4 Stroke	VOC	0.000565	0.000580	0.000535	0.000448
2265004026	Lawn and Garden Equipment (Com)	Trimmers/Edgers/Brush Cutter	4 Stroke	VOC	0.000212	0.000213	0.000139	0.000129
2265004030	Lawn and Garden Equipment (Res)	Leafblowers/Vacuums	4 Stroke	VOC	0.001189	0.001222	0.001137	0.000977
2265004031	Lawn and Garden Equipment (Com)	Leafblowers/Vacuums	4 Stroke	VOC	0.004276	0.003804	0.003184	0.003238
2265004035	Lawn and Garden Equipment (Res)	Snowblowers	4 Stroke	VOC	0.008236	0.008584	0.009446	0.011006
2265004036	Lawn and Garden Equipment (Com)	Snowblowers	4 Stroke	VOC	0.000234	0.000244	0.000268	0.000312
2265004040	Lawn and Garden Equipment (Res)	Rear Engine Riding Mowers	4 Stroke	VOC	0.012050	0.011997	0.011974	0.013710
2265004041	Lawn and Garden Equipment (Com)	Rear Engine Riding Mowers	4 Stroke	VOC	0.000501	0.000445	0.000411	0.000478
2265004046	Lawn and Garden Equipment (Com)	Front Mowers	4 Stroke	VOC	0.000835	0.000797	0.000715	0.000738
2265004051	Lawn and Garden Equipment (Com)	Shredders < 6 HP	4 Stroke	VOC	0.000753	0.000733	0.000643	0.000411
2265004055	Lawn and Garden Equipment (Res)	Lawn & Garden Tractors	4 Stroke	VOC	0.135984	0.133231	0.128092	0.145801
2265004056	Lawn and Garden Equipment (Com)	Lawn & Garden Tractors	4 Stroke	VOC	0.006745	0.005849	0.005262	0.006123
2265004066	Lawn and Garden Equipment (Com)	Chippers/Stump Grinders	4 Stroke	VOC	0.001027	0.000927	0.000704	0.000636

**Appendix D-2: Lawrence 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	0.024906	0.023586	0.019278	0.020275
2265004075	Lawn and Garden Equipment (Res)	Other Lawn & Garden Eqp.	4 Stroke	VOC	0.006739	0.006574	0.006126	0.005151
2265004076	Lawn and Garden Equipment (Com)	Other Lawn & Garden Eqp.	4 Stroke	VOC	0.001745	0.001692	0.001548	0.001242
2265005010	Agricultural Equipment	2-Wheel Tractors	4 Stroke	VOC	0.000119	0.000103	0.000095	0.000108
2265005015	Agricultural Equipment	Agricultural Tractors	4 Stroke	VOC	0.000389	0.000359	0.000224	0.000105
2265005020	Agricultural Equipment	Combines	4 Stroke	VOC	0.000003	0.000003	0.000003	0.000002
2265005025	Agricultural Equipment	Balers	4 Stroke	VOC	0.000323	0.000325	0.000291	0.000199
2265005030	Agricultural Equipment	Agricultural Mowers	4 Stroke	VOC	0.000124	0.000112	0.000093	0.000098
2265005035	Agricultural Equipment	Sprayers	4 Stroke	VOC	0.001838	0.001789	0.001516	0.001229
2265005040	Agricultural Equipment	Tillers > 6 HP	4 Stroke	VOC	0.003529	0.003502	0.003366	0.002999
2265005045	Agricultural Equipment	Swathers	4 Stroke	VOC	0.000458	0.000460	0.000409	0.000278
2265005055	Agricultural Equipment	Other Agricultural Equipment	4 Stroke	VOC	0.000696	0.000678	0.000586	0.000467
2265005060	Agricultural Equipment	Irrigation Sets	4 Stroke	VOC	0.000711	0.000666	0.000294	0.000090
2265006005	Commercial Equipment	Generator Sets	4 Stroke	VOC	0.054545	0.053846	0.048610	0.055165
2265006010	Commercial Equipment	Pumps	4 Stroke	VOC	0.014863	0.015187	0.009566	0.011224
2265006015	Commercial Equipment	Air Compressors	4 Stroke	VOC	0.005946	0.005965	0.004135	0.004653
2265006025	Commercial Equipment	Welders	4 Stroke	VOC	0.009459	0.008863	0.008411	0.009680
2265006030	Commercial Equipment	Pressure Washers	4 Stroke	VOC	0.026751	0.027085	0.020587	0.022656
2265006035	Commercial Equipment	Hydro Power Units	4 Stroke	VOC	0.000927	0.000901	0.000738	0.000910
2265007010	Logging Equipment	Shredders > 6 HP	4 Stroke	VOC	0.000776	0.000752	0.000699	0.000760
2265007015	Logging Equipment	Forest Eqp - Feller/Bunch/Skidder	4 Stroke	VOC	0.000012	0.000013	0.000007	0.000009
2265008005	Airport Equipment	Airport Ground Support Equipment	4 Stroke	VOC	0.000000	0.000000	0.000000	0.000000
2265010010	Industrial Equipment	Other Oil Field Equipment	4 Stroke	VOC	0.000000	0.000000	0.000000	0.000000
2267001060	Recreational Equipment	Specialty Vehicle Carts	LPG	VOC	0.000070	0.000069	0.000059	0.000038
2267002003	Construction and Mining Equipment	Pavers	LPG	VOC	0.000017	0.000016	0.000009	0.000002
2267002015	Construction and Mining Equipment	Rollers	LPG	VOC	0.000028	0.000026	0.000011	0.000002
2267002021	Construction and Mining Equipment	Paving Equipment	LPG	VOC	0.000004	0.000004	0.000003	0.000001
2267002024	Construction and Mining Equipment	Surfacing Equipment	LPG	VOC	0.000003	0.000003	0.000002	0.000000
2267002030	Construction and Mining Equipment	Trenchers	LPG	VOC	0.000051	0.000049	0.000030	0.000006
2267002033	Construction and Mining Equipment	Bore/Drill Rigs	LPG	VOC	0.000016	0.000017	0.000015	0.000010
2267002039	Construction and Mining Equipment	Concrete/Industrial Saws	LPG	VOC	0.000049	0.000044	0.000013	0.000003
2267002045	Construction and Mining Equipment	Cranes	LPG	VOC	0.000018	0.000018	0.000014	0.000005
2267002054	Construction and Mining Equipment	Crushing/Proc. Equipment	LPG	VOC	0.000003	0.000003	0.000002	0.000001
2267002057	Construction and Mining Equipment	Rough Terrain Forklifts	LPG	VOC	0.000032	0.000031	0.000021	0.000005
2267002060	Construction and Mining Equipment	Rubber Tire Loaders	LPG	VOC	0.000081	0.000077	0.000043	0.000006
2267002066	Construction and Mining Equipment	Tractors/Loaders/Backhoes	LPG	VOC	0.000009	0.000008	0.000004	0.000001
2267002072	Construction and Mining Equipment	Skid Steer Loaders	LPG	VOC	0.000066	0.000065	0.000048	0.000018
2267002081	Construction and Mining Equipment	Other Construction Equipment	LPG	VOC	0.000026	0.000026	0.000021	0.000010
2267003010	Industrial Equipment	Aerial Lifts	LPG	VOC	0.000776	0.000780	0.000629	0.000292
2267003020	Industrial Equipment	Forklifts	LPG	VOC	0.074013	0.071923	0.041567	0.005899
2267003030	Industrial Equipment	Sweepers/Scrubbers	LPG	VOC	0.000570	0.000533	0.000215	0.000039
2267003040	Industrial Equipment	Other General Industrial Equipm	LPG	VOC	0.000173	0.000165	0.000081	0.000012
2267003050	Industrial Equipment	Other Material Handling Equipment	LPG	VOC	0.000042	0.000042	0.000033	0.000012
2267003070	Industrial Equipment	Terminal Tractors	LPG	VOC	0.000349	0.000319	0.000088	0.000021
2267004066	Lawn and Garden Equipment (Com)	Chippers/Stump Grinders	LPG	VOC	0.000179	0.000169	0.000086	0.000012
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	0.001076	0.001134	0.001052	0.000760
2267006010	Commercial Equipment	Pumps	LPG	VOC	0.000254	0.000261	0.000205	0.000096
2267006015	Commercial Equipment	Air Compressors	LPG	VOC	0.000309	0.000313	0.000215	0.000054
2267006025	Commercial Equipment	Welders	LPG	VOC	0.000499	0.000516	0.000380	0.000084
2267006030	Commercial Equipment	Pressure Washers	LPG	VOC	0.000006	0.000007	0.000006	0.000003
2267006035	Commercial Equipment	Hydro Power Units	LPG	VOC	0.000005	0.000005	0.000003	0.000001
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	0.000318	0.000306	0.000176	0.000025
2268003030	Industrial Equipment	Sweepers/Scrubbers	CNG	VOC	0.000000	0.000000	0.000000	0.000000
2268003040	Industrial Equipment	Other General Industrial Equipment	CNG	VOC	0.000000	0.000000	0.000000	0.000000
2268003060	Industrial Equipment	AC\Refrigeration	CNG	VOC	0.000001	0.000000	0.000000	0.000000
2268003070	Industrial Equipment	Terminal Tractors	CNG	VOC	0.000001	0.000001	0.000000	0.000000
2268005055	Agricultural Equipment	Other Agricultural Equipment	CNG	VOC	0.000000	0.000000	0.000000	0.000000
2268005060	Agricultural Equipment	Irrigation Sets	CNG	VOC	0.000014	0.000008	0.000001	0.000000
2268006005	Commercial Equipment	Generator Sets	CNG	VOC	0.000021	0.000021	0.000019	0.000014
2268006010	Commercial Equipment	Pumps	CNG	VOC	0.000001	0.000001	0.000001	0.000000
2268006015	Commercial Equipment	Air Compressors	CNG	VOC	0.000002	0.000002	0.000001	0.000000
2268006020	Commercial Equipment	Gas Compressors	CNG	VOC	0.000080	0.000031	0.000005	0.000006
2268006035	Commercial Equipment	Hydro Power Units	CNG	VOC	0.000000	0.000000	0.000000	0.000000
2268010010	Industrial Equipment	Other Oil Field Equipment	CNG	VOC	0.000000	0.000000	0.000000	0.000000
2270001060	Recreational Equipment	Specialty Vehicle Carts	Diesel	VOC	0.000850	0.000825	0.000725	0.000471
2270002003	Construction and Mining Equipment	Pavers	Diesel	VOC	0.000474	0.000427	0.000331	0.000191
2270002006	Construction and Mining Equipment	Tampers/Rammers	Diesel	VOC	0.000002	0.000002	0.000001	0.000001
2270002009	Construction and Mining Equipment	Plate Compactors	Diesel	VOC	0.000029	0.000028	0.000022	0.000016
2270002015	Construction and Mining Equipment	Rollers	Diesel	VOC	0.001343	0.001197	0.000896	0.000516
2270002018	Construction and Mining Equipment	Scrapers	Diesel	VOC	0.000986	0.000879	0.000653	0.000499
2270002021	Construction and Mining Equipment	Paving Equipment	Diesel	VOC	0.000087	0.000080	0.000060	0.000037
2270002024	Construction and Mining Equipment	Surfacing Equipment	Diesel	VOC	0.000060	0.000054	0.000041	0.000026

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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	0.000290	0.000262	0.000176	0.000119
2270002030	Construction and Mining Equipment	Trenchers	Diesel	VOC	0.000800	0.000720	0.000521	0.000285
2270002033	Construction and Mining Equipment	Bore/Drill Rigs	Diesel	VOC	0.000627	0.000603	0.000519	0.000356
2270002036	Construction and Mining Equipment	Excavators	Diesel	VOC	0.003889	0.003494	0.002845	0.001779
2270002039	Construction and Mining Equipment	Concrete/Industrial Saws	Diesel	VOC	0.000064	0.000056	0.000038	0.000021
2270002042	Construction and Mining Equipment	Cement & Mortar Mixers	Diesel	VOC	0.000030	0.000030	0.000027	0.000020
2270002045	Construction and Mining Equipment	Cranes	Diesel	VOC	0.001013	0.000931	0.000729	0.000474
2270002048	Construction and Mining Equipment	Graders	Diesel	VOC	0.000968	0.000869	0.000716	0.000452
2270002051	Construction and Mining Equipment	Off-highway Trucks	Diesel	VOC	0.003352	0.002896	0.002073	0.001815
2270002054	Construction and Mining Equipment	Crushing/Proc. Equipment	Diesel	VOC	0.000207	0.000189	0.000144	0.000088
2270002057	Construction and Mining Equipment	Rough Terrain Forklifts	Diesel	VOC	0.001931	0.001785	0.001345	0.000729
2270002060	Construction and Mining Equipment	Rubber Tire Loaders	Diesel	VOC	0.004834	0.004499	0.003553	0.002327
2270002066	Construction and Mining Equipment	Tractors/Loaders/Backhoes	Diesel	VOC	0.008345	0.008127	0.007107	0.004060
2270002069	Construction and Mining Equipment	Crawler Tractor/Dozers	Diesel	VOC	0.004201	0.003772	0.002899	0.001947
2270002072	Construction and Mining Equipment	Skid Steer Loaders	Diesel	VOC	0.008057	0.007743	0.006478	0.003751
2270002075	Construction and Mining Equipment	Off-Highway Tractors	Diesel	VOC	0.000568	0.000505	0.000359	0.000250
2270002078	Construction and Mining Equipment	Dumpers/Tenders	Diesel	VOC	0.000024	0.000024	0.000021	0.000013
2270002081	Construction and Mining Equipment	Other Construction Equipment	Diesel	VOC	0.000530	0.000489	0.000385	0.000247
2270003010	Industrial Equipment	Aerial Lifts	Diesel	VOC	0.000883	0.000873	0.000795	0.000528
2270003020	Industrial Equipment	Forklifts	Diesel	VOC	0.003117	0.002965	0.002270	0.001207
2270003030	Industrial Equipment	Sweepers/Scrubbers	Diesel	VOC	0.001612	0.001432	0.001125	0.000645
2270003040	Industrial Equipment	Other General Industrial Eqp	Diesel	VOC	0.001745	0.001644	0.001291	0.000788
2270003050	Industrial Equipment	Other Material Handling Eqp	Diesel	VOC	0.000164	0.000161	0.000145	0.000096
2270003060	Industrial Equipment	AC\Refrigeration	Diesel	VOC	0.004876	0.004145	0.003034	0.001631
2270003070	Industrial Equipment	Terminal Tractors	Diesel	VOC	0.001708	0.001628	0.001372	0.000821
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	0.000586	0.000557	0.000435	0.000296
2270004056	Lawn and Garden Equipment (Com)	Lawn & Garden Tractors	Diesel	VOC	0.000130	0.000121	0.000090	0.000075
2270004066	Lawn and Garden Equipment (Com)	Chippers/Stump Grinders	Diesel	VOC	0.000503	0.000503	0.000470	0.000353
2270004071	Lawn and Garden Equipment (Com)	Commercial Turf Equipment	Diesel	VOC	0.000061	0.000050	0.000038	0.000026
2270004076	Lawn and Garden Equipment (Com)	Other Lawn & Garden Eqp.	Diesel	VOC	0.000002	0.000002	0.000002	0.000001
2270005010	Agricultural Equipment	2-Wheel Tractors	Diesel	VOC	0.000001	0.000001	0.000001	0.000001
2270005015	Agricultural Equipment	Agricultural Tractors	Diesel	VOC	0.043740	0.039339	0.030019	0.017668
2270005020	Agricultural Equipment	Combines	Diesel	VOC	0.003185	0.003113	0.002786	0.001985
2270005025	Agricultural Equipment	Balers	Diesel	VOC	0.000032	0.000030	0.000025	0.000015
2270005030	Agricultural Equipment	Agricultural Mowers	Diesel	VOC	0.000005	0.000005	0.000004	0.000003
2270005035	Agricultural Equipment	Sprayers	Diesel	VOC	0.000465	0.000432	0.000338	0.000199
2270005040	Agricultural Equipment	Tillers > 6 HP	Diesel	VOC	0.000000	0.000000	0.000000	0.000000
2270005045	Agricultural Equipment	Swathers	Diesel	VOC	0.000287	0.000285	0.000266	0.000192
2270005055	Agricultural Equipment	Other Agricultural Equipment	Diesel	VOC	0.000975	0.000895	0.000680	0.000408
2270005060	Agricultural Equipment	Irrigation Sets	Diesel	VOC	0.000600	0.000545	0.000407	0.000223
2270006005	Commercial Equipment	Generator Sets	Diesel	VOC	0.003502	0.003423	0.003025	0.002047
2270006010	Commercial Equipment	Pumps	Diesel	VOC	0.000770	0.000758	0.000678	0.000483
2270006015	Commercial Equipment	Air Compressors	Diesel	VOC	0.001736	0.001644	0.001306	0.000749
2270006020	Commercial Equipment	Gas Compressors	Diesel	VOC	0.000000	0.000000	0.000000	0.000000
2270006025	Commercial Equipment	Welders	Diesel	VOC	0.002642	0.002577	0.002218	0.001230
2270006030	Commercial Equipment	Pressure Washers	Diesel	VOC	0.000110	0.000108	0.000099	0.000074
2270006035	Commercial Equipment	Hydro Power Units	Diesel	VOC	0.000081	0.000075	0.000058	0.000034
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	0.000627	0.000546	0.000388	0.000186
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	0.000000	0.000000	0.000000	0.000000
2275000000	Aircraft	All Aircraft Types and Operations	Other	VOC	0.009110	0.006742	0.006833	0.007197
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	0.213890	0.201204	0.165964	0.125899
2282005015	Pleasure Craft	Personal Water Craft	2 Stroke	VOC	0.067847	0.060782	0.041039	0.028676
2282010005	Pleasure Craft	Inboard/Sterndrive	4 Stroke	VOC	0.020161	0.020243	0.020327	0.020517
2282020005	Pleasure Craft	Inboard/Sterndrive	Diesel	VOC	0.000329	0.000346	0.000359	0.000355
2282020010	Pleasure Craft	Outboards	Diesel	VOC	0.000008	0.000008	0.000007	0.000004
2285002005	Railroad Equipment	Line Haul Locomotives	Diesel	VOC	0.067763	0.069812	0.066390	0.066817
2285002010	Railroad Equipment	Yard Locomotive	Diesel	VOC	0.000000	0.000000	0.000000	0.000000
2285002015	Railroad Equipment	Railway Maintenance	Diesel	VOC	0.000879	0.000864	0.000777	0.000506
2285004015	Railroad Equipment	Railway Maintenance	4 Stroke	VOC	0.000303	0.000277	0.000214	0.000222
2285006015	Railroad Equipment	Railway Maintenance	LPG	VOC	0.000003	0.000003	0.000002	0.000001
Lawrence County Total Summer Day VOC Emissions					1.854936	1.900424	1.754486	1.379672

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

SCC	Classification	Equipment Type	Engine Type	Pollutant Code	2002 Emissions	2004 Emissions	2009 Emissions	2018 Emissions
2260001010	Recreational Equipment	Motorcycles: Off-Road	2 Stroke	CO	0.195543	0.227055	0.286517	0.305634
2260001020	Recreational Equipment	Snowmobiles	2 Stroke	CO	0.000000	0.000000	0.000000	0.000000
2260001030	Recreational Equipment	ATVs	2 Stroke	CO	0.192798	0.266232	0.405823	0.465475
2260001060	Recreational Equipment	Specialty Vehicles/Carts	2 Stroke	CO	0.124478	0.127888	0.138898	0.148961
2260002006	Construction and Mining Equipment	Tampers/Rammers	2 Stroke	CO	0.011793	0.011672	0.009760	0.009947
2260002009	Construction and Mining Equipment	Plate Compactors	2 Stroke	CO	0.000568	0.000459	0.000364	0.000373
2260002021	Construction and Mining Equipment	Paving Equipment	2 Stroke	CO	0.000682	0.000547	0.000439	0.000450
2260002027	Construction and Mining Equipment	Signal Boards/Light Plants	2 Stroke	CO	0.000005	0.000004	0.000003	0.000003
2260002039	Construction and Mining Equipment	Concrete/Industrial Saws	2 Stroke	CO	0.031163	0.029374	0.025285	0.025907
2260002054	Construction and Mining Equipment	Crushing/Proc. Equipment	2 Stroke	CO	0.000133	0.000105	0.000090	0.000092
2260003030	Industrial Equipment	Sweepers/Scrubbers	2 Stroke	CO	0.000723	0.000505	0.000307	0.000109
2260003040	Industrial Equipment	Other General Industrial Eqp	2 Stroke	CO	0.000058	0.000040	0.000024	0.000009
2260004015	Lawn and Garden Equipment (Res)	Rotary Tillers < 6 HP	2 Stroke	CO	0.005378	0.004896	0.003658	0.003894
2260004016	Lawn and Garden Equipment (Com)	Rotary Tillers < 6 HP	2 Stroke	CO	0.005675	0.005162	0.003844	0.004334
2260004020	Lawn and Garden Equipment (Res)	Chain Saws < 6 HP	2 Stroke	CO	0.043910	0.040145	0.030567	0.034631
2260004021	Lawn and Garden Equipment (Com)	Chain Saws < 6 HP	2 Stroke	CO	0.052248	0.051006	0.047091	0.054866
2260004025	Lawn and Garden Equipment (Res)	Trimmers/Edgers/Brush Cutter	2 Stroke	CO	0.101199	0.090797	0.063151	0.070935
2260004026	Lawn and Garden Equipment (Com)	Trimmers/Edgers/Brush Cutter	2 Stroke	CO	0.056402	0.049705	0.041149	0.047907
2260004030	Lawn and Garden Equipment (Res)	Leafblowers/Vacuums	2 Stroke	CO	0.063157	0.057504	0.042806	0.048424
2260004031	Lawn and Garden Equipment (Com)	Leafblowers/Vacuums	2 Stroke	CO	0.056878	0.053401	0.045943	0.053384
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	0.000023	0.000020	0.000016	0.000019
2260005035	Agricultural Equipment	Sprayers	2 Stroke	CO	0.001699	0.001435	0.000995	0.001123
2260006005	Commercial Equipment	Generator Sets	2 Stroke	CO	0.005248	0.004525	0.003989	0.004947
2260006010	Commercial Equipment	Pumps	2 Stroke	CO	0.036953	0.029331	0.026211	0.032072
2260006015	Commercial Equipment	Air Compressors	2 Stroke	CO	0.000014	0.000011	0.000011	0.000014
2260006035	Commercial Equipment	Hydro Power Units	2 Stroke	CO	0.000213	0.000177	0.000174	0.000216
2260007005	Logging Equipment	Chain Saws > 6 HP	2 Stroke	CO	0.010324	0.010670	0.010520	0.013323
2265001010	Recreational Equipment	Motorcycles: Off-Road	4 Stroke	CO	0.086929	0.101064	0.121141	0.114551
2265001030	Recreational Equipment	ATVs	4 Stroke	CO	0.783629	0.948180	1.286377	1.503607
2265001050	Recreational Equipment	Golf Carts	4 Stroke	CO	1.215102	1.266378	1.333450	1.421631
2265001060	Recreational Equipment	Specialty Vehicles/Carts	4 Stroke	CO	0.109534	0.109993	0.111904	0.118381
2265002003	Construction and Mining Equipment	Pavers	4 Stroke	CO	0.010550	0.010840	0.010874	0.010769
2265002006	Construction and Mining Equipment	Tampers/Rammers	4 Stroke	CO	0.000083	0.000086	0.000091	0.000093
2265002009	Construction and Mining Equipment	Plate Compactors	4 Stroke	CO	0.019482	0.019762	0.020183	0.020625
2265002015	Construction and Mining Equipment	Rollers	4 Stroke	CO	0.019772	0.020268	0.020162	0.020187
2265002021	Construction and Mining Equipment	Paving Equipment	4 Stroke	CO	0.038144	0.038850	0.040324	0.041387
2265002024	Construction and Mining Equipment	Surfacing Equipment	4 Stroke	CO	0.017290	0.017793	0.018218	0.018608
2265002027	Construction and Mining Equipment	Signal Boards/Light Plants	4 Stroke	CO	0.000880	0.000901	0.000917	0.000940
2265002030	Construction and Mining Equipment	Trenchers	4 Stroke	CO	0.032334	0.033072	0.032939	0.032549
2265002033	Construction and Mining Equipment	Bore/Drill Rigs	4 Stroke	CO	0.009526	0.009566	0.009484	0.009409
2265002039	Construction and Mining Equipment	Concrete/Industrial Saws	4 Stroke	CO	0.079850	0.082034	0.082840	0.084374
2265002042	Construction and Mining Equipment	Cement & Mortar Mixers	4 Stroke	CO	0.033398	0.033265	0.034307	0.035578
2265002045	Construction and Mining Equipment	Cranes	4 Stroke	CO	0.001337	0.001323	0.001136	0.000727
2265002054	Construction and Mining Equipment	Crushing/Proc. Equipment	4 Stroke	CO	0.004689	0.004829	0.004927	0.004972
2265002057	Construction and Mining Equipment	Rough Terrain Forklifts	4 Stroke	CO	0.001745	0.001670	0.001152	0.000341
2265002060	Construction and Mining Equipment	Rubber Tire Loaders	4 Stroke	CO	0.004183	0.003923	0.002200	0.000397
2265002066	Construction and Mining Equipment	Tractors/Loaders/Backhoes	4 Stroke	CO	0.025145	0.025978	0.026666	0.027160
2265002072	Construction and Mining Equipment	Skid Steer Loaders	4 Stroke	CO	0.011124	0.011219	0.010779	0.009535
2265002078	Construction and Mining Equipment	Dumpers/Tenders	4 Stroke	CO	0.005200	0.005179	0.005336	0.005546
2265002081	Construction and Mining Equipment	Other Construction Equipment	4 Stroke	CO	0.001467	0.001425	0.001133	0.000527
2265003010	Industrial Equipment	Aerial Lifts	4 Stroke	CO	0.069882	0.062845	0.043797	0.014735
2265003020	Industrial Equipment	Forklifts	4 Stroke	CO	0.157970	0.135107	0.062765	0.004328
2265003030	Industrial Equipment	Sweepers/Scrubbers	4 Stroke	CO	0.067907	0.060274	0.035728	0.010983
2265003040	Industrial Equipment	Other General Industrial Eqp	4 Stroke	CO	0.173238	0.156997	0.109033	0.037971
2265003050	Industrial Equipment	Other Material Handling Eqp	4 Stroke	CO	0.005343	0.004847	0.003389	0.001067
2265003060	Industrial Equipment	AC/Refrigeration	4 Stroke	CO	0.003051	0.002833	0.002074	0.000742
2265003070	Industrial Equipment	Terminal Tractors	4 Stroke	CO	0.016405	0.013264	0.002920	0.000288
2265004010	Lawn and Garden Equipment (Res)	Lawn mowers	4 Stroke	CO	1.057231	1.095356	1.192491	1.363164
2265004011	Lawn and Garden Equipment (Com)	Lawn mowers	4 Stroke	CO	0.201654	0.210170	0.225949	0.261960
2265004015	Lawn and Garden Equipment (Res)	Rotary Tillers < 6 HP	4 Stroke	CO	0.089054	0.092158	0.100164	0.114292
2265004016	Lawn and Garden Equipment (Com)	Rotary Tillers < 6 HP	4 Stroke	CO	0.098242	0.102255	0.111404	0.127770
2265004025	Lawn and Garden Equipment (Res)	Trimmers/Edgers/Brush Cutter	4 Stroke	CO	0.005937	0.006170	0.006709	0.007685
2265004026	Lawn and Garden Equipment (Com)	Trimmers/Edgers/Brush Cutter	4 Stroke	CO	0.005008	0.005308	0.005849	0.006791
2265004030	Lawn and Garden Equipment (Res)	Leafblowers/Vacuums	4 Stroke	CO	0.011349	0.011793	0.012814	0.014665
2265004031	Lawn and Garden Equipment (Com)	Leafblowers/Vacuums	4 Stroke	CO	0.200430	0.214608	0.235446	0.263904
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	0.248635	0.261116	0.298312	0.350308
2265004041	Lawn and Garden Equipment (Com)	Rear Engine Riding Mowers	4 Stroke	CO	0.025951	0.027841	0.031441	0.036649
2265004046	Lawn and Garden Equipment (Com)	Front Mowers	4 Stroke	CO	0.028025	0.028985	0.032605	0.038748
2265004051	Lawn and Garden Equipment (Com)	Shredders < 6 HP	4 Stroke	CO	0.011257	0.011709	0.012769	0.014628
2265004055	Lawn and Garden Equipment (Res)	Lawn & Garden Tractors	4 Stroke	CO	3.305879	3.474750	3.997783	4.701476
2265004056	Lawn and Garden Equipment (Com)	Lawn & Garden Tractors	4 Stroke	CO	0.349044	0.376598	0.427439	0.498265
2265004066	Lawn and Garden Equipment (Com)	Chippers/Stump Grinders	4 Stroke	CO	0.046355	0.048589	0.048987	0.052237

**Appendix D-2: Lawrence 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	1.079657	1.138097	1.236586	1.434200
2265004075	Lawn and Garden Equipment (Res)	Other Lawn & Garden Eqp.	4 Stroke	CO	0.107909	0.111664	0.122273	0.143345
2265004076	Lawn and Garden Equipment (Com)	Other Lawn & Garden Eqp.	4 Stroke	CO	0.030524	0.031585	0.034576	0.040513
2265005010	Agricultural Equipment	2-Wheel Tractors	4 Stroke	CO	0.006075	0.006499	0.007205	0.008160
2265005015	Agricultural Equipment	Agricultural Tractors	4 Stroke	CO	0.012287	0.012344	0.010035	0.007414
2265005020	Agricultural Equipment	Combines	4 Stroke	CO	0.000059	0.000059	0.000053	0.000038
2265005025	Agricultural Equipment	Balers	4 Stroke	CO	0.005585	0.005613	0.005047	0.003562
2265005030	Agricultural Equipment	Agricultural Mowers	4 Stroke	CO	0.004724	0.004913	0.005502	0.006300
2265005035	Agricultural Equipment	Sprayers	4 Stroke	CO	0.040434	0.041386	0.043907	0.048158
2265005040	Agricultural Equipment	Tillers > 6 HP	4 Stroke	CO	0.100545	0.103120	0.109947	0.123395
2265005045	Agricultural Equipment	Swathers	4 Stroke	CO	0.008846	0.008891	0.007994	0.005641
2265005055	Agricultural Equipment	Other Agricultural Equipment	4 Stroke	CO	0.018354	0.018700	0.018732	0.017711
2265005060	Agricultural Equipment	Irrigation Sets	4 Stroke	CO	0.017218	0.016468	0.009027	0.003606
2265006005	Commercial Equipment	Generator Sets	4 Stroke	CO	1.523154	1.630708	1.937732	2.429560
2265006010	Commercial Equipment	Pumps	4 Stroke	CO	0.351961	0.380473	0.436020	0.533944
2265006015	Commercial Equipment	Air Compressors	4 Stroke	CO	0.174838	0.188692	0.212751	0.254246
2265006025	Commercial Equipment	Welders	4 Stroke	CO	0.439239	0.478979	0.553206	0.668705
2265006030	Commercial Equipment	Pressure Washers	4 Stroke	CO	0.667087	0.721260	0.849355	1.053662
2265006035	Commercial Equipment	Hydro Power Units	4 Stroke	CO	0.033757	0.036898	0.043223	0.053508
2265007010	Logging Equipment	Shredders > 6 HP	4 Stroke	CO	0.022933	0.024415	0.029011	0.037828
2265007015	Logging Equipment	Forest Eqp - Feller/Bunch/Skidder	4 Stroke	CO	0.000273	0.000297	0.000346	0.000438
2265008005	Airport Equipment	Airport Ground Support Equipment	4 Stroke	CO	0.000000	0.000000	0.000000	0.000000
2265010010	Industrial Equipment	Other Oil Field Equipment	4 Stroke	CO	0.000000	0.000000	0.000000	0.000000
2267001060	Recreational Equipment	Specialty Vehicle Carts	LPG	CO	0.001028	0.001039	0.000956	0.000680
2267002003	Construction and Mining Equipment	Pavers	LPG	CO	0.000246	0.000252	0.000194	0.000054
2267002015	Construction and Mining Equipment	Rollers	LPG	CO	0.000418	0.000427	0.000271	0.000061
2267002021	Construction and Mining Equipment	Paving Equipment	LPG	CO	0.000064	0.000066	0.000059	0.000030
2267002024	Construction and Mining Equipment	Surfacing Equipment	LPG	CO	0.000042	0.000044	0.000032	0.000009
2267002030	Construction and Mining Equipment	Trenchers	LPG	CO	0.000751	0.000773	0.000607	0.000169
2267002033	Construction and Mining Equipment	Bore/Drill Rigs	LPG	CO	0.000243	0.000251	0.000241	0.000176
2267002039	Construction and Mining Equipment	Concrete/Industrial Saws	LPG	CO	0.000732	0.000744	0.000375	0.000095
2267002045	Construction and Mining Equipment	Cranes	LPG	CO	0.000262	0.000271	0.000243	0.000122
2267002054	Construction and Mining Equipment	Crushing/Proc. Equipment	LPG	CO	0.000044	0.000045	0.000040	0.000019
2267002057	Construction and Mining Equipment	Rough Terrain Forklifts	LPG	CO	0.000476	0.000490	0.000406	0.000121
2267002060	Construction and Mining Equipment	Rubber Tire Loaders	LPG	CO	0.001193	0.001225	0.000919	0.000196
2267002066	Construction and Mining Equipment	Tractors/Loaders/Backhoes	LPG	CO	0.000127	0.000130	0.000089	0.000018
2267002072	Construction and Mining Equipment	Skid Steer Loaders	LPG	CO	0.000975	0.001006	0.000869	0.000405
2267002081	Construction and Mining Equipment	Other Construction Equipment	LPG	CO	0.000390	0.000403	0.000368	0.000205
2267003010	Industrial Equipment	Aerial Lifts	LPG	CO	0.011433	0.012025	0.011075	0.006151
2267003020	Industrial Equipment	Forklifts	LPG	CO	1.095261	1.144791	0.885264	1.199748
2267003030	Industrial Equipment	Sweepers/Scrubbers	LPG	CO	0.008462	0.008785	0.005478	0.001347
2267003040	Industrial Equipment	Other General Industrial Equipm	LPG	CO	0.002566	0.002673	0.001876	0.000425
2267003050	Industrial Equipment	Other Material Handling Equipment	LPG	CO	0.000618	0.000650	0.000594	0.000286
2267003070	Industrial Equipment	Terminal Tractors	LPG	CO	0.005184	0.005361	0.002871	0.000736
2267004066	Lawn and Garden Equipment (Com)	Chippers/Stump Grinders	LPG	CO	0.002646	0.002715	0.001923	0.000411
2267005055	Agricultural Equipment	Other Agricultural Equipment	LPG	CO	0.000036	0.000036	0.000032	0.000022
2267005060	Agricultural Equipment	Irrigation Sets	LPG	CO	0.000031	0.000030	0.000019	0.000003
2267006005	Commercial Equipment	Generator Sets	LPG	CO	0.014122	0.015702	0.016758	0.014114
2267006010	Commercial Equipment	Pumps	LPG	CO	0.003345	0.003706	0.003642	0.002174
2267006015	Commercial Equipment	Air Compressors	LPG	CO	0.004079	0.004509	0.004181	0.001651
2267006025	Commercial Equipment	Welders	LPG	CO	0.007361	0.008139	0.007472	0.002402
2267006030	Commercial Equipment	Pressure Washers	LPG	CO	0.000095	0.000106	0.000107	0.000065
2267006035	Commercial Equipment	Hydro Power Units	LPG	CO	0.000064	0.000070	0.000060	0.000024
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	0.000015	0.000016	0.000015	0.000008
2268003020	Industrial Equipment	Forklifts	CNG	CO	0.079874	0.082560	0.063011	0.013809
2268003030	Industrial Equipment	Sweepers/Scrubbers	CNG	CO	0.000096	0.000099	0.000075	0.000016
2268003040	Industrial Equipment	Other General Industrial Equipment	CNG	CO	0.000062	0.000064	0.000047	0.000010
2268003060	Industrial Equipment	AC\Refrigeration	CNG	CO	0.000130	0.000134	0.000091	0.000022
2268003070	Industrial Equipment	Terminal Tractors	CNG	CO	0.000365	0.000374	0.000197	0.000049
2268005055	Agricultural Equipment	Other Agricultural Equipment	CNG	CO	0.000047	0.000039	0.000022	0.000006
2268005060	Agricultural Equipment	Irrigation Sets	CNG	CO	0.003640	0.002142	0.000247	0.000000
2268006005	Commercial Equipment	Generator Sets	CNG	CO	0.004689	0.004986	0.005029	0.004072
2268006010	Commercial Equipment	Pumps	CNG	CO	0.000238	0.000252	0.000240	0.000155
2268006015	Commercial Equipment	Air Compressors	CNG	CO	0.000344	0.000364	0.000320	0.000116
2268006020	Commercial Equipment	Gas Compressors	CNG	CO	0.020584	0.019372	0.002465	0.003081
2268006035	Commercial Equipment	Hydro Power Units	CNG	CO	0.000000	0.000000	0.000000	0.000000
2268010010	Industrial Equipment	Other Oil Field Equipment	CNG	CO	0.000000	0.000000	0.000000	0.000000
2270001060	Recreational Equipment	Specialty Vehicle Carts	Diesel	CO	0.003162	0.003083	0.002768	0.001830
2270002003	Construction and Mining Equipment	Pavers	Diesel	CO	0.002494	0.002190	0.001845	0.000799
2270002006	Construction and Mining Equipment	Tampers/Rammers	Diesel	CO	0.000006	0.000006	0.000007	0.000008
2270002009	Construction and Mining Equipment	Plate Compactors	Diesel	CO	0.000101	0.000101	0.000099	0.000106
2270002015	Construction and Mining Equipment	Rollers	Diesel	CO	0.007176	0.006486	0.005464	0.002642
2270002018	Construction and Mining Equipment	Scrapers	Diesel	CO	0.006485	0.005913	0.004962	0.002313
2270002021	Construction and Mining Equipment	Paving Equipment	Diesel	CO	0.000466	0.000427	0.000342	0.000190
2270002024	Construction and Mining Equipment	Surfacing Equipment	Diesel	CO	0.000351	0.000328	0.000271	0.000153

**Appendix D-2: Lawrence 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	0.000917	0.000864	0.000693	0.000570
2270002030	Construction and Mining Equipment	Trenchers	Diesel	CO	0.004308	0.004034	0.003394	0.001803
2270002033	Construction and Mining Equipment	Bore/Drill Rigs	Diesel	CO	0.002588	0.002480	0.002165	0.001325
2270002036	Construction and Mining Equipment	Excavators	Diesel	CO	0.019908	0.016870	0.015277	0.004739
2270002039	Construction and Mining Equipment	Concrete/Industrial Saws	Diesel	CO	0.000333	0.000309	0.000256	0.000137
2270002042	Construction and Mining Equipment	Cement & Mortar Mixers	Diesel	CO	0.000114	0.000114	0.000110	0.000089
2270002045	Construction and Mining Equipment	Cranes	Diesel	CO	0.003635	0.003339	0.002738	0.001324
2270002048	Construction and Mining Equipment	Graders	Diesel	CO	0.004690	0.003842	0.003397	0.001189
2270002051	Construction and Mining Equipment	Off-highway Trucks	Diesel	CO	0.020342	0.017040	0.012574	0.002658
2270002054	Construction and Mining Equipment	Crushing/Proc. Equipment	Diesel	CO	0.000851	0.000784	0.000660	0.000352
2270002057	Construction and Mining Equipment	Rough Terrain Forklifts	Diesel	CO	0.010716	0.010069	0.008759	0.004745
2270002060	Construction and Mining Equipment	Rubber Tire Loaders	Diesel	CO	0.027564	0.025267	0.020753	0.009739
2270002066	Construction and Mining Equipment	Tractors/Loaders/Backhoes	Diesel	CO	0.033670	0.033330	0.031974	0.020755
2270002069	Construction and Mining Equipment	Crawler Tractor/Dozers	Diesel	CO	0.023588	0.020946	0.017715	0.007342
2270002072	Construction and Mining Equipment	Skid Steer Loaders	Diesel	CO	0.029444	0.029262	0.027500	0.018789
2270002075	Construction and Mining Equipment	Off-Highway Tractors	Diesel	CO	0.003574	0.003205	0.002457	0.001091
2270002078	Construction and Mining Equipment	Dumpers/Tenders	Diesel	CO	0.000084	0.000085	0.000084	0.000060
2270002081	Construction and Mining Equipment	Other Construction Equipment	Diesel	CO	0.003424	0.003162	0.002558	0.001353
2270003010	Industrial Equipment	Aerial Lifts	Diesel	CO	0.003036	0.003104	0.003128	0.002366
2270003020	Industrial Equipment	Forklifts	Diesel	CO	0.018438	0.018375	0.019602	0.003399
2270003030	Industrial Equipment	Sweepers/Scrubbers	Diesel	CO	0.005674	0.005023	0.004649	0.001994
2270003040	Industrial Equipment	Other General Industrial Eqp	Diesel	CO	0.006154	0.005785	0.004919	0.002770
2270003050	Industrial Equipment	Other Material Handling Eqp	Diesel	CO	0.000564	0.000560	0.000538	0.000371
2270003060	Industrial Equipment	AC\Refrigeration	Diesel	CO	0.018607	0.017284	0.017186	0.008915
2270003070	Industrial Equipment	Terminal Tractors	Diesel	CO	0.007797	0.007091	0.007359	0.001645
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	0.001869	0.001854	0.001699	0.001375
2270004056	Lawn and Garden Equipment (Com)	Lawn & Garden Tractors	Diesel	CO	0.000408	0.000401	0.000354	0.000363
2270004066	Lawn and Garden Equipment (Com)	Chippers/Stump Grinders	Diesel	CO	0.001992	0.002008	0.001989	0.001433
2270004071	Lawn and Garden Equipment (Com)	Commercial Turf Equipment	Diesel	CO	0.000210	0.000188	0.000174	0.000096
2270004076	Lawn and Garden Equipment (Com)	Other Lawn & Garden Eqp.	Diesel	CO	0.000007	0.000007	0.000007	0.000006
2270005010	Agricultural Equipment	2-Wheel Tractors	Diesel	CO	0.000008	0.000008	0.000007	0.000006
2270005015	Agricultural Equipment	Agricultural Tractors	Diesel	CO	0.213446	0.197083	0.161856	0.088231
2270005020	Agricultural Equipment	Combines	Diesel	CO	0.013295	0.013094	0.012455	0.008167
2270005025	Agricultural Equipment	Balers	Diesel	CO	0.000111	0.000111	0.000108	0.000079
2270005030	Agricultural Equipment	Agricultural Mowers	Diesel	CO	0.000025	0.000025	0.000025	0.000018
2270005035	Agricultural Equipment	Sprayers	Diesel	CO	0.001497	0.001442	0.001287	0.000806
2270005040	Agricultural Equipment	Tillers > 6 HP	Diesel	CO	0.000003	0.000003	0.000002	0.000001
2270005045	Agricultural Equipment	Swathers	Diesel	CO	0.001279	0.001323	0.001423	0.001139
2270005055	Agricultural Equipment	Other Agricultural Equipment	Diesel	CO	0.004240	0.003994	0.003347	0.001890
2270005060	Agricultural Equipment	Irrigation Sets	Diesel	CO	0.001900	0.001812	0.001599	0.000935
2270006005	Commercial Equipment	Generator Sets	Diesel	CO	0.012359	0.012280	0.011743	0.008606
2270006010	Commercial Equipment	Pumps	Diesel	CO	0.002874	0.002867	0.002784	0.002132
2270006015	Commercial Equipment	Air Compressors	Diesel	CO	0.006557	0.006397	0.006056	0.003766
2270006020	Commercial Equipment	Gas Compressors	Diesel	CO	0.000000	0.000000	0.000000	0.000000
2270006025	Commercial Equipment	Welders	Diesel	CO	0.009730	0.009735	0.009118	0.005867
2270006030	Commercial Equipment	Pressure Washers	Diesel	CO	0.000372	0.000368	0.000350	0.000266
2270006035	Commercial Equipment	Hydro Power Units	Diesel	CO	0.000296	0.000286	0.000265	0.000171
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	0.002966	0.002423	0.001994	0.000381
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	0.000000	0.000000	0.000000	0.000000
2275000000	Aircraft	All Aircraft Types and Operations	Other	CO	0.460097	0.341116	0.345726	0.364165
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	0.367094	0.352581	0.310479	0.269168
2282005015	Pleasure Craft	Personal Water Craft	2 Stroke	CO	0.132845	0.129122	0.121088	0.120191
2282010005	Pleasure Craft	Inboard/Sterndrive	4 Stroke	CO	0.187631	0.183339	0.169046	0.143513
2282020005	Pleasure Craft	Inboard/Sterndrive	Diesel	CO	0.001389	0.001465	0.001656	0.001995
2282020010	Pleasure Craft	Outboards	Diesel	CO	0.000024	0.000023	0.000021	0.000016
2285002005	Railroad Equipment	Line Haul Locomotives	Diesel	CO	0.172317	0.177875	0.192568	0.222140
2285002010	Railroad Equipment	Yard Locomotive	Diesel	CO	0.000000	0.000000	0.000000	0.000000
2285002015	Railroad Equipment	Railway Maintenance	Diesel	CO	0.003741	0.003648	0.003316	0.002091
2285004015	Railroad Equipment	Railway Maintenance	4 Stroke	CO	0.010727	0.011238	0.012170	0.013253
2285006015	Railroad Equipment	Railway Maintenance	LPG	CO	0.000045	0.000046	0.000040	0.000016

**Lawrence
County Total
Summer Day
CO Emissions**

17.485960 18.210683 19.656317 21.228644