Appendix E

Allocation Information

Appendix E-1

Employment Values Used for County Allocation 17

Appendix E-1. Employment Values Used for County Allocation 17 [1]

State FIPS	County FIPS	A	B	C	D	E	F	G	H	I	J	K
01	001		24			19		5,925	9,086	118	3,209	30
01	003		97	19		215		33,137	40,273	217	7,398	236
01	005		6			19		4,243	10,083	38	5,878	19
01	007		19					1,842	3,248	137	1,444	19
01	009		99					4,000	8,408	118	4,465	1
01	011	19	19					1,187	4,129	19	2,942	
01	013		11			19		3,660	6,010	118	2,369	
01	015	99	101	19		577	135	25,169	36,815	176	11,747	104
01	017	19	21			19		5,199	12,903	118	7,723	15
01	019		19			19		1,803	3,045	19	1,280	
01	021	19	99	19	99	19	19	4,188	6,080	38	1,930	19
01	023		19			19		1,456	4,816	10	3,379	19
01	025		39			19		4,415	8,646	118	4,283	19
01	027	19	19			19		1,492	6,001	19	4,528	
01	029		16					966	2,466		1,500	19
01	031	249	19	19		99		7,487	14,337	198	6,918	63
01	033		99		99	51	19	11,297	17,488	351	6,223	9
01	035	19	99					1,317	3,464	19	2,147	
01	037		19					640	2,139		1,499	
01	039		22	19		19		6,178	11,227	118	5,167	19
01	041		19					1,827	2,802	19	994	
01	043	19	99	19		107		11,483	18,856	75	7,459	23
01	045	19	19			19		7,407	9,366	69	2,000	38
01	047	19	99	19		99		9,150	16,006	84	6,933	19
01	049	19	99	19		99		8,289	21,633	23	13,411	19
01	051		19			19	19	6,629	9,486	137	2,997	10
01	053		99	19		15		6,366	10,660	33	4,313	99
01	055	249	66	19		64	99	21,471	32,934	137	11,535	85
01	057		19			19		3,235	6,184	10	2,949	19
01	059		38			19		4,037	10,649	38	6,631	19
01	061	19	19			19		2,597	4,837	19	2,259	19
01	063		19					1,208	1,722	19	514	38
01	065	19	19					1,386	3,715		2,329	
01	067		21	19				2,251	4,645	19	2,413	
01	069	19	88	99		109		33,064	44,109	346	11,156	268
01	071	19	99	19		99		6,239	14,262	22	8,049	38
01	073	99	489	187	249	2,736	99	266,233	307,223	1,658	41,543	986
01	075		19			19		1,607	5,527	19	3,920	19
01	077		99	99		203	99	21,724	29,984	268	8,356	345
01	079		15			249		2,501	6,369	38	3,868	19
01	081		26	19		151		21,049	32,229	265	11,250	268
01	083	19	21	99		99		9,052	18,364	118	9,342	38
01	085		19			19		791	2,811		2,020	19
01	087		19			19		6,989	7,221	19	251	
01	089	19	209	249		249	249	91,742	116,416	555	24,958	524
01	091		17		99			3,138	6,229	36	3,129	19
01	093	99	19	19		19		4,678	11,384	99	6,744	19

To calculate allocation proportion of national emissions to county, divide number of county employees within an industry category by total (national) number of employees in that category

A = Animal Services, except veterinary; SIC Code =0750

B = Top Body Repair Paint Shops; SIC Code = 7532

C = Dental Laboratories; SIC Code = 8072

D = Petroleum Bulk Stations and Terminals; SIC Code =5171

E = Commercial Printing, Gravure; SIC Code = 2754

F = Plating and Polishings; SIC Code = 3471

G = COMM (seeAppendix C)

H = COMMIND (see Appendix C)

I = DRYCLEAN (see Appendix C

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1 = data from the U.S. Census Bureau's 1999 County Business Employment

Appendix E-1. Employment Values Used for County Allocation 17 [1]

State FIPS	County FIPS	A	B	C	D	E	F	G	H	I	J	K
01	095	19	19	19		269		16,416	31,364	87	15,038	42
01	097	99	315	77	99	499	19	116,144	140,192	800	24,489	545
01	099	19	7			19		3,388	7,490	38	4,201	19
01	101	99	253	99		409	19	84,503	100,966	405	16,668	229
01	103	19	66	36		171		26,001	41,010	374	15,092	135
01	105		19			19		1,390	2,873	19	1,483	
01	107	19	19			99		1,982	3,758	13	1,776	
01	109		19			16		5,203	8,727	38	3,568	19
01	111		19		99	19	19	2,422	5,816	38	3,394	19
01	113		99	19		19		6,438	11,203	198	4,787	99
01	115	19	249	19		499		7,256	11,686	118	4,434	
01	117		249	19		85	99	39,698	46,137	259	6,700	128
01	119		19			99		1,901	2,930	19	1,029	
01	121	19	33			281		10,754	19,929	80	9,222	34
01	123		43	19		99		32,575	41,916	40	9,394	19
01	125	19	119	99	19	249		43,197	57,051	517	14,078	268
01	127		99	19		19	19	11,996	15,117	198	3,145	52
01	129				19			1,062	4,198	19	3,136	
01	131							1,245	2,951	38	1,706	19
01	133		19			99		3,258	11,443	19	8,204	99
02	013							438	2,937		2,499	
02	016		19					883	5,939		5,155	
02	020		203	99		499	19	78,645	82,441	381	3,878	630
02	050							2,807	3,113	19	306	
02	060							281	587		306	19
02	068							423	442		19	
02	070		19					1,576	1,732	19	156	
02	090		99	19		99		16,710	18,108	198	1,437	161
02	100					19		415	510		95	19
02	110		19	19		38		7,912	9,090	99	1,235	249
02	122	19	99	19				7,704	9,540	38	1,874	60
02	130		14			19		3,730	4,627	38	1,165	19
02	150		19					2,375	4,034	38	1,678	19
02	164							84	183		99	
02	170		99	19		12		6,698	7,144	38	477	40
02	180							1,756	1,813		95	
02	185					19		1,738	1,814		76	19
02	188							1,199	1,199	19		
02	201							664	1,449	19	804	
02	220	19	19					2,364	2,793	19	467	12
02	232							642	878		236	
02	240							604	699	19	95	
02	261							1,700	2,304	19	623	38
02	270							709	808		99	
02	280							1,273	1,616	19	362	19
02	282							280	398		118	
02	290							605	662		57	

To calculate allocation proportion of national emissions to county, divide number of county employees within an industry category by total (national) number of employees in that category

A = Animal Services, except veterinary; SIC Code =0750

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Appendix E-1. Employment Values Used for County Allocation 17 [1]

State FIPS	County FIPS	A	B	C	D	E	F	G	H	I	J	K
04	001		15		19			5,731	6,560	99	848	19
04	003	99	99			19		17,531	19,161	53	1,690	103
04	005	19	80	19	99	99		31,549	36,227	130	4,745	200
04	007		7	19		19		8,365	12,044	38	3,717	99
04	009	19	19			249		4,427	5,087	38	669	38
04	011							954	1,011		57	
04	012				19	19	19	3,483	4,214	19	788	19
04	013	2,499	2,434	534	19	5,718	479	945,007	1,096,720	3,858	154,912	4,860
04	015		99	249	99	249		24,279	29,325	118	5,260	112
04	017	19	99		19	99		12,079	13,759	55	1,741	38
04	019	99	506	116	99	2,499	139	211,062	243,142	1,008	32,911	1,720
04	021		99			99		17,972	23,308	73	5,393	48
04	023	19	19			11	19	7,513	8,822	19	1,328	19
04	025		117	19		63	19	32,828	37,716	179	4,973	275
04	027	19	86	2		99		23,979	27,557	137	3,750	118
05	001		19	99		249		4,257	9,423	118	5,204	38
05	003	99	99			19		3,413	8,390	38	5,015	19
05	005	19	28	19		59		7,406	11,975	28	4,936	33
05	007		99	11		176		36,818	52,898	298	16,217	118
05	009	19	99	19		12		9,134	12,826	137	3,730	118
05	011	19	20			19		1,855	2,725	19	889	19
05	013							555	894		339	
05	015	19	19			99	19	4,239	10,299	38	6,079	
05	017					19		1,867	3,466	38	1,599	19
05	019		19	19		19		4,220	8,664	38	4,463	22
05	021		19		19			1,962	5,946	19	3,984	
05	023		19	249		19		3,311	5,573	57	2,300	19
05	025		19					514	807		293	
05	027	19	99			19		4,950	8,844	99	3,913	19
05	029		19			19		3,553	6,379	19	2,845	
05	031	19	74	19		999		22,438	30,861	498	8,526	93
05	033	99	99			99		8,017	12,301	123	4,284	41
05	035		99	19		22		9,112	11,864	71	2,870	38
05	037		19			19		2,931	5,648	19	2,736	19
05	039	19	19					1,601	2,892	19	1,310	
05	041	99	19					2,826	5,062	19	2,255	19
05	043		19			19		4,583	8,009	38	3,464	38
05	045		249	19		99		18,546	27,825	201	9,323	249
05	047					19		1,790	3,217		1,446	
05	049	19	19					944	1,760	19	816	
05	051	19	99	19		116	19	23,059	27,653	88	4,731	38
05	053		19	19				1,319	3,348	38	2,048	19
05	055		31			39		6,495	15,274	31	8,817	19
05	057	19	99		19	19		3,622	8,780	99	5,177	19
05	059		99	19	19			3,481	6,387	38	3,193	19
05	061	19	19			19		1,977	9,356	38	7,398	
05	063	19	99	19		99		8,011	14,894	38	6,902	19

To calculate allocation proportion of national emissions to county, divide number of county employees within an industry category by total (national) number of employees in that category

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05	065	19	14					1,609	2,381		791	
05	067		12					3,278	5,268	38	2,009	19
05	069		99	19		99		17,579	27,354	517	9,912	23
05	071		19			19		3,217	8,178	118	4,968	19
05	073		19					810	1,526		716	19
05	075		19		19		19	2,496	4,572	19	2,095	
05	077		19				19	1,093	1,399	38	306	19
05	079		19					848	1,608	19	760	19
05	081		19					1,432	4,502		3,070	19
05	083	19	24			19		2,477	5,986	38	3,509	19
05	085		99			19		6,077	8,040	66	2,081	99
05	087							866	2,514	19	1,667	
05	089		19			19		1,265	4,032		2,767	
05	091		19		19	7		7,099	10,887	118	3,826	38
05	093		19			14		8,268	18,797	150	10,628	38
05	095		19					1,614	2,175	19	580	19
05	097							691	1,332		660	
05	099		19		19	19		1,070	2,111	38	1,041	19
05	101			19				638	982	19	344	
05	103	19	99					4,333	7,908	38	3,613	44
05	105		19					893	1,106		213	19
05	107		19			19		4,181	5,556	99	1,399	19
05	109	19	19			19		1,600	2,427	19	827	
05	111		4			19		2,436	5,528	38	3,111	
05	113	99	19			19		2,771	6,094	38	3,361	
05	115	19	50	19		35		13,473	18,842	40	5,426	38
05	117		10					930	1,373	19	481	
05	119	499	310	99	19	954	19	164,219	187,369	869	23,414	794
05	121		10		19			2,769	5,064	19	2,295	
05	123		19			19		4,629	7,408	29	2,817	5
05	125	99	58	6		249	19	11,109	14,707	35	3,735	60
05	127	19	19			19		1,046	4,036		3,009	
05	129							1,129	1,490		361	
05	131		79	19		999	99	39,694	64,071	302	24,572	108
05	133		19					2,688	6,249	118	3,599	19
05	135		19					2,682	3,281	19	637	38
05	137		19	19		19		1,584	2,727	19	1,162	19
05	139	19	99			99		9,710	18,196	58	8,505	19
05	141	19	19			19		1,871	2,886	38	1,034	99
05	143	5	108	19		499	499	44,289	62,112	491	17,957	329
05	145	19	99	19	99	99	99	13,416	19,487	348	6,101	19
05	147							857	1,991		1,134	
05	149		19					3,246	6,616	19	3,389	
06	001	99	1,565	645	19	3,253	415	429,278	524,670	2,075	96,153	2,724
06	003							1,263	1,263			
06	005		99	19		11		6,147	7,521	57	1,412	19
06	007	19	136	19		249	19	41,932	48,008	146	6,279	529

To calculate allocation proportion of national emissions to county, divide number of county employees within an industry category by total (national) number of employees in that category

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State FIPS	County FIPS	A	B	C	D	E	F	G	H	I	J	K
06	009		19	19		22		4,246	5,246		1,057	33
06	011		25			19		2,469	3,333	19	902	19
06	013		826	294	19	899	99	236,621	257,888	914	22,108	2,501
06	015		19	19		19		3,751	4,333	19	620	99
06	017	19	94	19		99	99	30,949	33,852	77	3,032	265
06	019	1,012	678	120		941	231	150,797	179,072	932	28,714	633
06	021		19			19		2,557	3,881	38	1,343	
06	023	19	140	19		82	19	26,898	33,643	198	6,797	224
06	025	99	99	19	99	40		18,893	20,931	137	2,090	118
06	027		22	19		19		5,930	6,670	19	839	11
06	029	19	371	99	249	249	19	107,321	122,076	574	15,173	600
06	031	249	38	19	99	34		12,893	17,180	38	4,344	116
06	033		99			8		8,485	9,362	38	953	38
06	035		19			4		3,432	4,053	38	659	19
06	037	2,483	8,271	1,426	4,999	30,518	7,155	2,736,122	3,396,847	14,340	667,201	11,763
06	039		99	19		99		16,568	21,467	38	4,956	110
06	041		406	41		522	99	86,806	92,321	496	5,667	922
06	043			19				3,335	3,640		324	19
06	045		99	19		99		17,698	23,134	122	5,493	198
06	047	249	145	99		999	19	22,960	32,302	217	9,449	153
06	049		19					1,541	1,678	19	137	
06	051		19					5,453	5,845	19	392	118
06	053		217	99		293	19	80,913	89,680	462	9,134	450
06	055	19	249	13		499		34,826	45,750	169	10,993	336
06	057		99	99		99		20,155	23,663	43	3,574	166
06	059	19	2,790	1,299	999	9,838	2,795	951,904	1,187,911	3,058	238,427	5,594
06	061		249	99		249	19	65,546	74,810	153	9,474	615
06	063		19					3,265	4,240	19	994	118
06	065	249	961	249	499	1,856	221	251,383	305,689	756	55,239	1,366
06	067	19	1,137	258		2,334	99	314,754	349,922	1,503	36,163	2,378
06	069		99			20		6,442	8,971	118	2,647	118
06	071	258	1,178	113	999	1,247	289	296,060	369,736	1,145	74,750	995
06	073	19	2,250	411	19	5,233	429	776,258	902,180	2,793	128,294	4,259
06	075	19	714	235	19	2,082	19	450,034	481,676	949	32,350	2,530
06	077	249	413	64		586	99	102,607	126,421	425	24,209	827
06	079	19	249	35	99	999	19	54,784	62,745	215	8,108	296
06	081		1,102	145		2,356	184	251,906	288,577	1,194	37,182	1,530
06	083	19	273	87	249	449	99	102,539	120,950	499	18,694	662
06	085	19	1,835	444		4,822	1,234	623,443	860,933	1,670	238,834	3,548
06	087		252	99		499		58,831	68,396	224	9,740	757
06	089		154	99		104	19	33,938	38,601	180	4,829	161
06	091							361	797		436	
06	093		20			19		7,034	8,415	19	1,400	118
06	095	249	388	99		148	19	64,666	75,469	251	10,957	453
06	097	99	511	113		976	99	112,842	141,371	266	28,930	1,378
06	099	249	338	59		499	19	78,382	104,848	737	26,834	699
06	101	19	114	19		19	19	13,611	15,661	50	2,247	128

To calculate allocation proportion of national emissions to county, divide number of county employees within an industry category by total (national) number of employees in that category

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State FIPS	County FIPS	A	B	C	D	E	F	G	H	I	J	K
06	103	19	35			19		7,578	10,500	43	2,960	99
06	105		19			19		1,287	1,819	19	532	19
06	107	21	186	19	249	2,499	19	48,705	61,934	212	13,418	332
06	109		36	19		13		9,586	11,286	38	1,798	77
06	111		513	78	249	1,148	130	165,037	197,862	824	33,367	1,285
06	113	99	104	19		499		38,007	44,726	234	6,856	518
06	115		19			19		6,679	8,882	19	2,260	19
08	001	99	529	99		487	99	73,647	87,314	480	13,814	291
08	003		19			19		4,232	4,582	38	350	31
08	005	19	624	107		1,514	99	215,947	240,511	818	24,731	1,307
08	007		19			19		2,201	2,452	19	251	19
08	009		19			19		763	938		175	19
08	011							1,696	1,715		19	
08	013	19	297	42		1,289	19	106,957	134,870	334	28,063	869
08	015	19	19			30		3,763	4,479	19	754	19
08	017							422	479		57	
08	019			19		19		1,955	2,202	38	247	118
08	021	19				19		890	1,102		212	
08	023							510	548		38	19
08	025							627	646		19	
08	027				19	19		526	678	19	152	
08	029	99	19			17		4,135	4,837	38	740	19
08	031	249	594	135	99	3,539	249	300,050	332,690	1,333	33,020	973
08	033							416	492		76	
08	035		186	19		99		25,590	28,077	146	2,544	570
08	037		99			99		22,284	23,389	107	1,124	82
08	039	19						1,214	1,456		261	19
08	041	99	346	99	19	1,920	73	154,075	180,179	528	26,338	814
08	043	19	19			13		5,732	7,016	118	1,303	26
08	045	19	99	19	19	25		10,939	11,601	150	799	40
08	047							4,831	4,869		38	
08	049		19			19		5,536	5,865	38	367	38
08	051		19			99		6,028	6,448	38	439	51
08	053							277	334		57	
08	055		19					1,522	1,659	19	137	
08	057		19					247	323		76	
08	059	19	638	178		1,206	99	134,309	155,649	608	21,545	1,223
08	061	19	19					346	384		38	
08	063	19	19					1,792	2,066	19	274	
08	065		19					1,339	1,396	19	57	99
08	067	19	19	11	19	99		13,354	15,459	198	2,162	90
08	069	19	187	42		999	19	66,827	81,395	267	14,705	620
08	071		19					2,982	3,393	19	430	19
08	073		19			19		1,033	1,170		137	
08	075		99			19		4,609	5,325	38	735	9
08	077	5	97	30		146	19	30,311	35,467	167	5,327	134
08	079							270	289	19	19	19

To calculate allocation proportion of national emissions to county, divide number of county employees within an industry category by total (national) number of employees in that category

A = Animal Services, except veterinary; SIC Code =0750

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F = Plating and Polishings; SIC Code = 3471

G = COMM (seeAppendix C)

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K = SWIMPOOL (see Appendix C)

1 = data from the U.S. Census Bureau's 1999 County Business Employment

Appendix E-1. Employment Values Used for County Allocation 17 [1]

State FIPS	County FIPS	A	B	C	D	E	F	G	H	I	J	K
08	081		7			19		2,190	2,403	38	251	19
08	083	19	99			14		4,950	5,689	118	777	19
08	085	19	99	19		40	19	7,080	9,011	39	2,199	20
08	087	2,499	23			19		4,506	7,689	38	3,240	29
08	089	19	39			19		4,279	5,189	38	910	38
08	091					19		638	779		160	44
08	093		19			19		899	1,100	19	201	
08	095		19			19		880	956		76	19
08	097		99			99		15,023	15,463	38	478	327
08	099		19			19		3,218	4,826	19	1,627	19
08	101		249	22	19	99		35,676	42,371	170	6,832	163
08	103							909	1,084	19	194	19
08	105		19					2,386	3,053	38	686	16
08	107		19			24		9,965	10,760	38	814	127
08	109					19		861	1,154		293	
08	111							139	158		19	
08	113		19			19		3,832	4,176	99	344	38
08	115							557	595		38	
08	117		24			19		17,950	18,244	38	412	103
08	119		19		19	19		4,565	5,062	19	516	19
08	121	19	19		19			656	850		194	
08	123	4,999	249	8		999	19	34,181	47,126	259	12,986	331
08	125	19	19		19	19	19	1,888	2,105	19	217	
09	001	19	773	249	249	2,453	499	345,497	404,223	1,519	59,249	3,021
09	003	99	809	249	19	4,039	934	346,150	421,866	1,152	76,023	1,568
09	005	99	147	99		587	751	36,067	52,496	233	16,594	254
09	007	19	249	19	99	999	99	43,684	57,444	180	13,897	268
09	009	99	684	249		2,564	764	249,571	309,948	1,263	60,724	1,238
09	011		91	19		999		75,455	97,513	246	22,217	320
09	013		99	19		499	99	20,103	25,002	159	5,036	206
09	015	99	99	19	19	249	19	18,511	27,762	59	9,388	118
10	001	19	77			249		32,396	41,193	204	8,934	186
10	003		333	249	19	999	99	213,923	245,306	646	31,832	769
10	005	99	85			79	19	32,235	43,011	191	10,936	81
11	001		249	19	99	1,413			382,785	735	13,335	811
12	001		111	73		249		65,748	72,724	310	7,258	512
12	003		19					3,229	3,672	38	481	
12	005		51	19		249		44,220	49,198	210	5,512	273
12	007		19		19			3,476	4,568	118	1,132	
12	009		289	67	19	499	99	115,698	137,748	611	22,639	456
12	011	99	1,025	280	99	3,268	222	487,533	531,382	2,145	45,946	2,332
12	013		19					1,390	2,012	24	641	19
12	015		27	12		99		28,137	29,782	42	1,873	48
12	017		99	19	19	38		21,068	23,204	198	2,374	49
12	019		99	19		180		25,227	28,086	140	3,054	216
12	021		99	99		499	19	72,704	76,303	232	3,890	571
12	023	99	99			23		11,676	14,495	58	2,956	37

To calculate allocation proportion of national emissions to county, divide number of county employees within an industry category by total (national) number of employees in that category

A = Animal Services, except veterinary; SIC Code =0750

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1 = data from the U.S. Census Bureau's 1999 County Business Employment

Appendix E-1. Employment Values Used for County Allocation 17 [1]

State FIPS	County FIPS	A	B	C	D	E	F	G	H	I	J	K
12	027	19	19			19		4,151	4,656	19	543	38
12	029		19					1,031	1,443		469	19
12	031	99	573	249		1,449	99	303,744	334,482	1,433	31,736	774
12	033	99	276	99	19	293	19	89,816	99,061	293	9,453	356
12	035		19	19		19		7,332	9,448	16	2,174	120
12	037							1,906	2,180		312	
12	039	19	26		19	499		6,609	8,866	55	2,276	19
12	041							1,015	1,308		312	
12	043		19					1,302	1,458		194	19
12	045		19			19		1,533	2,052	19	557	19
12	047	19	19					1,148	2,291	19	1,143	
12	049		19					2,678	3,070	19	430	
12	051		19			19		4,039	5,408	38	1,426	38
12	053		19	19		25		18,651	20,560	65	2,066	37
12	055	19	13	19		44	19	37,954	39,735	35	1,853	48
12	057	99	454	197	19	2,175	99	405,650	441,180	1,739	36,639	1,338
12	059		19	19				2,084	2,875		791	
12	061		33	19		62	99	30,489	33,458	229	3,093	322
12	063	19	19			19		6,651	8,197	118	1,584	38
12	065	19				19		1,524	1,855	38	331	
12	067							878	1,133	19	255	
12	069		98	19		249		39,055	43,371	266	4,628	142
12	071	19	287	99		474	19	112,623	119,568	330	7,616	445
12	073		247	99	19	583		73,871	77,713	370	4,108	268
12	075		19			19		3,845	4,830	38	1,042	19
12	077							504	735		231	
12	079					249		2,311	3,997	38	1,724	19
12	081	19	99	99	19	249	19	94,628	107,699	132	13,287	125
12	083	19	96	19		249		52,753	63,082	297	10,564	93
12	085		81	19		499	19	37,708	41,173	140	3,764	447
12	086	99	1,333	286		4,840	218	665,339	734,563	2,836	71,675	2,594
12	087		37	19		30		29,281	30,253	41	1,152	272
12	089	19	99	19		53		9,757	12,221	118	2,519	38
12	091		249	99		249	19	47,835	52,337	206	4,823	183
12	093		19	19		4		6,040	6,545	38	540	16
12	095	19	828	126	99	2,424	59	449,098	487,216	1,472	39,070	1,643
12	097		99	19		52		45,146	47,506	49	2,529	650
12	099	99	533	225		1,031	99	352,982	387,495	1,388	36,071	2,903
12	101	19	125	68		99		52,500	57,646	140	5,584	115
12	103	19	506	426	19	2,320	208	335,316	380,136	833	45,893	1,592
12	105	19	213	69	19	499	19	115,644	137,277	428	22,024	210
12	107	19	99	19		99		8,346	13,298	118	5,044	12
12	109		99	19		249		29,872	33,473	75	3,857	151
12	111	19	76	19	19	99		31,359	34,469	158	3,348	86
12	113		71	19	19	19		13,223	16,471	38	3,382	93
12	115	19	200	99		356	19	124,205	134,386	391	11,951	793
12	117	19	228	121	19	559	99	98,953	109,357	267	10,882	396

To calculate allocation proportion of national emissions to county, divide number of county employees within an industry category by total (national) number of employees in that category

A = Animal Services, except veterinary; SIC Code =0750

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1 = data from the U.S. Census Bureau's 1999 County Business Employment

Appendix E-1. Employment Values Used for County Allocation 17 [1]

State FIPS	County FIPS	A	B	C	D	E	F	G	H	I	J	K
12	119	99	19			19		3,422	4,692	19	1,289	118
12	121	99	19			20		4,769	7,646	118	2,995	19
12	123		19		19	19		2,602	5,282	38	2,724	
12	125	19	19					948	1,353		443	
12	127	19	199	99		702	19	106,137	117,961	309	12,294	465
12	129		19	19		19		1,844	2,593		787	99
12	131		99					6,846	7,858	38	1,050	38
12	133	19	19		19	19		2,692	4,149	118	1,476	
13	001		15			19		2,290	3,972	19	1,701	19
13	003		19					521	2,236		1,715	19
13	005	249	19					1,372	3,392	19	2,039	
13	007							475	475			
13	009		33	19		29		11,101	16,232	86	5,230	118
13	011		19			249		2,306	3,793		1,487	
13	013		19			36		5,457	9,377	118	3,975	19
13	015	13	99	19		45		13,609	23,079	226	9,607	118
13	017	249	11	19		19		2,803	7,817	38	5,033	19
13	019		19			19		1,878	4,491	19	2,632	
13	021	19	169	99		249		62,170	76,534	303	14,533	102
13	023		19					1,513	4,324	38	2,830	19
13	025	19	19					751	1,098	19	347	19
13	027		19			19		1,623	3,181	38	1,577	
13	029		19			19		2,304	2,881	19	615	19
13	031		17	19		40		11,166	15,630	89	4,582	99
13	033		19			99		2,829	4,986	38	2,176	19
13	035		5					2,496	4,345	38	1,887	19
13	037							555	837	19	301	
13	039		19			19		6,181	8,141	19	1,998	19
13	043		19	19		249		1,701	2,722	38	1,021	
13	045		99	99		249		14,783	25,911	151	11,185	99
13	047		74	19		37		7,439	10,349	10	3,028	99
13	049							1,108	1,791	19	683	
13	051		242	99		249		76,927	93,225	629	16,629	716
13	053							1,888	2,025	118	137	19
13	055		19			19		2,154	7,456	38	5,321	19
13	057		249	19		249	249	19,648	24,215	71	4,783	79
13	059		99	99		249		32,225	43,586	165	11,518	232
13	061		19					328	427		99	
13	063	99	249	99		249		56,018	63,807	332	8,042	239
13	065		19					948	2,254	19	1,306	
13	067	19	554	499	19	1,591	19	238,492	265,150	890	27,508	1,183
13	069	19	40			68	19	8,822	16,288	99	7,485	38
13	071	99	24	19		40	19	6,951	12,788	217	5,875	118
13	073	19	249	19		999		18,629	25,914	99	7,354	160
13	075		19			19		2,425	4,615	19	2,228	
13	077	999	99	19		24		14,446	22,360	118	7,939	33
13	079					19		502	945		443	

To calculate allocation proportion of national emissions to county, divide number of county employees within an industry category by total (national) number of employees in that category

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1 = data from the U.S. Census Bureau's 1999 County Business Employment

Appendix E-1. Employment Values Used for County Allocation 17 [1]

State FIPS	County FIPS	A	B	C	D	E	F	G	H	I	J	K
13	081		13					5,529	8,221	35	2,711	8
13	083		19			19	19	1,414	2,815	19	1,420	19
13	085		19			99	19	2,982	3,868	19	905	118
13	087		99			19		4,735	10,781	118	6,065	19
13	089		678	184	19	2,251	99	242,008	267,648	1,241	26,358	1,675
13	091		19			19		2,885	4,381	38	1,534	19
13	093							1,059	4,598	38	3,558	
13	095	19	249	99		241		30,483	42,250	341	11,891	63
13	097		99	19		99		20,384	23,715	163	3,398	118
13	099		19					1,657	3,218	19	1,599	19
13	101							95	114		19	
13	103		19					3,140	6,299		3,296	
13	105	19	7				19	2,185	6,116	19	3,950	
13	107	19	19			19	99	2,965	6,229	19	3,264	
13	109		19					1,454	4,744	19	3,309	
13	111		19			19		2,814	4,350	38	1,555	19
13	113	19	99	21		180		17,918	23,548	124	5,750	127
13	115		47	99		249		24,510	35,621	118	11,199	131
13	117	99	99	19		249		18,832	25,373	45	6,681	198
13	119		123			99		3,605	6,412	38	2,826	19
13	121	99	388	120	99	4,541	237	554,988	599,457	1,687	45,054	1,399
13	123	19	20	19		19		2,665	6,364	38	3,718	38
13	125							443	462		19	
13	127		99	19		84		22,697	28,338	88	5,798	106
13	129		16			19		10,149	22,142	217	12,031	31
13	131		19			19		2,568	4,875	118	2,326	19
13	133		19					2,073	3,946	19	1,892	
13	135	19	522	249		1,801	19	210,236	240,506	815	30,715	1,328
13	137		99			15		6,259	12,805	118	6,554	38
13	139		99	499	19	999		31,647	51,149	115	19,597	274
13	141		19					856	992	19	136	
13	143		19			499		2,846	5,860	38	3,052	19
13	145		19			19		2,415	5,716		3,320	38
13	147		99			19		3,220	7,396	118	4,176	19
13	149	19	19			19		610	1,165		555	
13	151		56	19	99	249		18,496	22,680	122	4,299	108
13	153		99	19		27		20,998	24,275	228	3,357	67
13	155							1,031	2,303	19	1,272	
13	157		99	22		48		7,074	12,509	126	5,454	19
13	159		19			19		831	1,836	19	1,024	
13	161		17					2,094	6,063	38	3,988	19
13	163	19	7			19		2,154	4,636	33	2,482	
13	165							949	2,663	19	1,733	
13	167	99	19					582	1,515	19	952	
13	169					15		1,227	1,720		512	38
13	171		99			499		1,543	3,383	19	1,840	
13	173		19					780	1,055		275	

To calculate allocation proportion of national emissions to county, divide number of county employees within an industry category by total (national) number of employees in that category

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Appendix E-1. Employment Values Used for County Allocation 17 [1]

State FIPS	County FIPS	A	B	C	D	E	F	G	H	I	J	K
13	175	249	19	19		19		10,522	16,657	50	6,217	19
13	177		19					1,331	2,085	19	773	19
13	179		47			19		7,375	8,934	176	1,597	118
13	181		19					601	1,765	19	1,183	
13	183		19					354	373		38	
13	185		99	19		99	99	24,341	31,771	348	7,556	12
13	187		19	19	19			2,837	4,458	19	1,640	
13	189	99	19			10		4,063	6,509	38	2,446	19
13	191					19		1,832	2,026	19	213	
13	193		19					1,434	3,140	99	1,725	
13	195		99	19	99	19		3,299	9,119		5,839	19
13	197							684	3,569		2,885	
13	199	19	19			99		2,508	6,480	38	3,991	
13	201							1,174	1,260		86	
13	205		17					2,958	3,856	31	898	19
13	207		99	19		19		2,231	2,902	19	671	19
13	209							729	1,323		594	
13	211		8			19		4,038	6,349	28	2,330	19
13	213		26	19		99		3,025	9,625	19	6,619	
13	215	19	216	99		499		61,726	82,241	307	20,734	477
13	217	24	99	19		99	249	8,278	13,972	137	5,831	69
13	219		19	99		99		3,699	5,138	198	1,477	19
13	221	19	19			99		684	1,034		350	19
13	223		42			16	19	5,734	7,684	38	2,008	118
13	225		19	19		10		2,718	6,410	19	3,791	19
13	227		19			7		2,703	5,009	38	2,344	19
13	229	19	19			19		1,513	2,673	19	1,198	
13	231			19				1,071	1,402		350	
13	233		16			19		4,326	8,376	19	4,069	38
13	235		19					1,818	2,591	19	773	19
13	237		19					1,828	4,080		2,271	
13	239							399	635	19	236	
13	241	19	12			19		2,742	6,015	19	3,273	19
13	243							1,104	2,100	19	996	
13	245	999	185	99		205	99	59,598	74,806	556	15,376	279
13	247		87	19		517		18,423	25,817	116	7,454	77
13	249		19					298	1,441		1,143	19
13	251		15					1,470	3,741	19	2,271	
13	253		19					1,230	1,462	38	251	19
13	255		99	99		18		12,326	19,971	367	7,709	41
13	257		11			249	99	5,805	11,625	38	5,839	99
13	259		19			19		800	1,125	19	325	
13	261		22			19		7,719	11,906	22	4,225	40
13	263							306	363		76	
13	265							247	266		19	
13	267		19			19		2,251	3,113		862	19
13	269		19	19		19		1,373	1,864		491	

To calculate allocation proportion of national emissions to county, divide number of county employees within an industry category by total (national) number of employees in that category

A = Animal Services, except veterinary; SIC Code =0750

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G = COMM (seeAppendix C)

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K = SWIMPOOL (see Appendix C)

1 = data from the U.S. Census Bureau's 1999 County Business Employment

Appendix E-1. Employment Values Used for County Allocation 17 [1]

State FIPS	County FIPS	A	B	C	D	E	F	G	H	I	J	K
13	271		19			19		1,636	5,977	19	4,379	
13	273		19					1,140	2,261	19	1,140	
13	275		24	19		99		12,735	17,770	118	5,167	9
13	277	19	99			99		12,001	18,900	118	6,918	38
13	279	99	19	19		11		6,578	10,178	217	3,619	19
13	281		19	55		19		1,768	2,093		325	
13	283					19		583	1,007	19	424	
13	285		39	19		999	19	16,103	27,300	198	11,315	29
13	287		19					1,259	1,892	19	671	
13	289		19					847	1,038		191	
13	291		19	19		19		2,539	3,406	19	886	99
13	293		14			999		4,273	9,827	118	5,611	19
13	295	19	26	19		10		8,633	16,623	217	8,108	118
13	297		29	19	19	99		5,953	9,367	12	3,479	19
13	299	19	44	19		99		9,700	12,751	49	3,094	99
13	301							563	1,909	19	1,365	
13	303		19			19		3,479	4,767	38	1,288	
13	305		14			19		5,125	7,943	38	2,875	19
13	307							110	458		348	
13	309							729	881		171	
13	311		19					3,521	4,599	19	1,097	38
13	313	19	84	19		537	19	23,766	51,521	133	27,798	21
13	315	19	19					452	787	19	335	
13	317		19					1,729	3,917	38	2,207	
13	319							725	3,808		3,083	
13	321	19	19	19				1,867	2,541	19	693	19
15	001	99	99	19		74		35,107	37,749	118	2,779	118
15	003		653	249		2,499		260,622	277,723	1,037	17,850	1,092
15	007		21			83		17,168	17,965	118	821	110
15	009	99	99	19		99		44,142	46,361	174	2,361	118
16	001	499	224	75		542	19	99,610	135,022	424	35,597	752
16	003							518	693		175	
16	005	19	75	99	99	99	19	17,047	24,284	118	7,286	114
16	007		19					899	1,196		297	
16	009		19	19				1,249	2,422	19	1,173	
16	011	14	19	19		23		5,638	8,521	19	2,902	19
16	013	19	13			99		7,880	8,696	38	835	103
16	015		19					551	707	19	156	19
16	017	19	19		19	52		7,883	10,921	18	3,095	118
16	019	99	94	99		99		28,875	33,982	85	5,164	143
16	021	19	8			19		1,624	2,317	38	693	19
16	023		19					386	443		57	
16	025							257	295		38	
16	027	999	86	19		180	99	20,799	34,205	206	13,532	118
16	029		19					1,120	1,794	19	674	
16	031	19	19	19		99		4,175	6,051	19	1,876	99
16	033							197	197			

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G = COMM (seeAppendix C)

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1 = data from the U.S. Census Bureau's 1999 County Business Employment

Appendix E-1. Employment Values Used for County Allocation 17 [1]

State FIPS	County FIPS	A	B	C	D	E	F	G	H	I	J	K
16	035	19	19			19		1,239	2,445	19	1,206	38
16	037	19						586	643		57	19
16	039		19			19		2,986	3,759	99	792	38
16	041		19			19		1,354	1,864	19	529	38
16	043	19	19	19				1,187	1,518	38	350	23
16	045	19	8					1,589	2,381	19	811	19
16	047		12					1,764	2,245	38	481	
16	049		19			19		1,795	2,659	19	902	19
16	051	99	19					1,519	2,372		853	38
16	053	19	11			249		2,285	3,543	19	1,296	
16	055	19	113	99		249	99	24,548	30,094	198	5,685	268
16	057	19	99			19		6,485	7,597	19	1,169	19
16	059	19	19			19		1,423	1,773	19	350	
16	061		19					540	882		342	
16	063							613	891		297	
16	065		27			999		10,868	13,087	38	2,219	99
16	067	19	19			19		2,957	5,030	38	2,073	
16	069		99			99		11,167	16,407	118	5,260	152
16	071							511	667		156	
16	073	19						719	1,492		811	
16	075	19	19	19		19		2,279	4,473	19	2,194	19
16	077		19					748	1,831		1,083	5
16	079		27			19		2,727	3,407	38	680	19
16	081		19			19		787	959		172	19
16	083	19	29	19		99		21,141	25,277	38	4,162	118
16	085		19	19		19		1,884	2,483	38	618	99
16	087	19	19			19		1,703	2,348	38	664	19
17	001	19	89	19		99	13	20,691	29,428	163	8,813	159
17	003							1,126	1,630	38	523	
17	005		19			19		3,222	4,531	38	1,309	
17	007		99			19	99	4,792	12,990	38	8,236	38
17	009		19					1,598	1,636		38	19
17	011		13	19		114		7,023	10,603	38	3,599	19
17	013	19	19					819	895		95	
17	015	19	17			19		2,357	3,342		1,042	38
17	017	2,499	99			19		2,243	5,313	38	3,070	19
17	019	19	145	99		722		50,946	64,003	167	13,136	381
17	021	19	99			19		7,285	10,771	27	3,524	30
17	023		13					2,239	4,997	19	2,796	
17	025		19			19		2,723	6,696	38	3,992	19
17	027	99	29			19		5,750	7,355	38	1,624	
17	029		99	19		2,499		14,716	24,924	49	10,246	145
17	031	2,499	5,231	704	19	21,019	4,736	1,858,172	2,231,896	6,968	375,694	7,706
17	033		19			99		4,036	8,432	2	4,415	38
17	035		5	19		19		1,242	1,940	19	698	
17	037	319	99		99	263	70	15,458	23,122	67	7,683	30
17	039	19	19			249		2,932	4,881	19	1,987	

To calculate allocation proportion of national emissions to county, divide number of county employees within an industry category by total (national) number of employees in that category

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Appendix E-1. Employment Values Used for County Allocation 17 [1]

State FIPS	County FIPS	A	B	C	D	E	F	G	H	I	J	K
17	041		99		19			3,670	7,297	19	3,646	
17	043	19	1,146	194	249	9,059	430	449,682	524,081	972	76,955	2,390
17	045	19	19			19	19	2,971	5,006	38	2,092	99
17	047	19	19			19		771	3,544	38	2,773	
17	049	19	43	19		2,499		10,886	18,722	118	7,857	19
17	051		19		99	99		3,435	5,390	19	1,993	19
17	053		19			99		2,783	4,377	38	1,613	
17	055	19	99	19		43		5,811	9,044	38	3,351	33
17	057		19	19		77		6,742	7,467	19	763	19
17	059					19		823	1,036		213	
17	061		19			19		1,725	2,206		481	19
17	063		99		99	19		6,950	9,055	137	2,124	108
17	065		19					986	1,180	19	194	
17	067	19	12			19		2,612	5,697	19	3,085	
17	069							638	794		156	
17	071		19					952	990		137	19
17	073	2,499	45		19	47	19	7,918	13,057	21	5,177	7
17	075	249	24			499		5,395	7,678	19	2,302	99
17	077	19	19	19	99	73		15,024	17,174	118	2,207	19
17	079	19	19			999		1,568	3,288		1,720	
17	081		21			99		11,166	14,927	118	3,799	6
17	083	19	19	19		19		4,394	4,675	38	300	19
17	085		19			185		4,728	7,035	19	2,326	19
17	087	19	19	19			99	1,050	1,263		270	
17	089	99	359	99		1,496	223	113,802	155,941	530	42,314	850
17	091	499	249	19	99	510		48,495	56,695	322	8,260	262
17	093		99			99	19	7,223	10,102	118	2,917	171
17	095		62	19		99		14,774	20,933	38	6,296	124
17	097		703	86	19	1,721	99	219,007	281,227	652	62,398	1,246
17	099	32	249	249	19	499	19	25,396	32,376	288	7,102	118
17	101		19			19		3,012	3,767	19	774	19
17	103	19	38			499		6,304	11,439	38	5,135	99
17	105		99	19		2,499		6,816	14,017	38	7,239	19
17	107	19	19			33		6,391	8,636	19	2,264	99
17	109	10	99			41		7,705	10,251	118	2,584	19
17	111	153	291	99	19	1,530	41	49,895	72,715	305	22,905	561
17	113		115	26		999		65,869	78,163	500	12,371	478
17	115	19	83	19		249	99	33,633	48,948	517	15,401	112
17	117		99			99	19	7,395	8,503	28	1,146	
17	119	34	270	99		249	99	56,254	74,964	463	18,865	509
17	121		99	19	19	999		8,582	16,499	38	7,974	20
17	123	19	19					2,004	3,212	19	1,227	19
17	125		20			19		2,289	3,147	19	858	19
17	127		19					3,158	4,368	38	1,229	19
17	129	19	19			19		1,216	1,368	19	152	38
17	131	19	12		19		19	2,009	2,776	19	767	118
17	133	19	24			133		4,404	4,905	118	558	38

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Appendix E-1. Employment Values Used for County Allocation 17 [1]

State FIPS	County FIPS	A	B	C	D	E	F	G	H	I	J	K
17	135		19			19		5,923	8,657	19	2,753	19
17	137		29		19	99		10,202	15,473	118	5,290	91
17	139					19		2,272	3,775	19	1,522	
17	141	2,499	99		19	999	19	7,478	15,027	19	7,587	19
17	143	99	151	160	19	1,230	19	85,930	100,663	356	14,965	320
17	145	19	20			19		3,393	6,085	19	2,730	19
17	147		19		19			2,284	3,130	38	865	
17	149		5		99	19		2,884	3,510	19	645	19
17	151							348	405		57	
17	153		19		19			829	985	19	175	
17	155					19	19	605	2,028	19	1,423	19
17	157	19	53	19		19		6,812	11,047	28	4,273	38
17	159		19	19		19		4,303	6,114	38	1,849	38
17	161		93	99	19	99	249	48,631	59,757	455	11,197	300
17	163	19	326	99		249	99	58,236	66,401	244	8,374	339
17	165		19			19	19	5,627	6,625	38	1,055	19
17	167	19	214	99	99	499		69,880	75,329	487	5,656	381
17	169		19					1,161	1,435	19	274	
17	171							554	592		38	
17	173		19			19		3,221	4,998	19	1,796	19
17	175							673	1,107		434	19
17	177	19	47	99		118	249	12,207	23,324	36	11,155	38
17	179	99	121	19		249	249	28,479	38,315	248	9,960	163
17	181		99					3,968	4,816		848	19
17	183	19	99	19	19	88		19,950	27,792	111	7,891	144
17	185		19	19		19		2,769	3,928	19	1,197	19
17	187	999	19			19		3,140	4,861	38	1,721	99
17	189		6			19		3,039	7,232	38	4,212	19
17	191		19		19			2,320	3,899	19	1,579	19
17	193		19	19	19	19		2,678	3,446	38	787	
17	195		99	19		36		13,602	22,340	38	8,875	118
17	197	99	463	99	99	840		83,292	111,082	720	28,006	485
17	199		19	19		18	19	19,234	24,572	217	5,390	56
17	201		362	99	19	835	369	83,362	122,800	1,291	39,527	197
17	203	19	9			249	19	5,525	8,174	19	2,668	19
18	001	19	19			249		5,577	13,512	19	7,954	33
18	003	19	326	90	19	700	172	122,637	160,980	669	38,545	277
18	005		68	19		88		19,703	33,179	211	13,514	74
18	007		99		19	19		1,584	2,630		1,145	
18	009		19			19		1,822	3,846	19	2,024	
18	011		99	99	99	237		7,899	10,215	137	2,354	118
18	013		19			19		1,900	2,271	19	371	19
18	015	2,499	22			19		2,261	6,015	19	3,773	99
18	017	2,499	18				19	8,154	16,559	38	8,443	19
18	019		249			999		25,561	34,854	174	9,424	157
18	021	19	16	19		99		3,328	7,007	99	3,717	19
18	023	19	99			22		4,974	11,274	38	6,338	38

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Appendix E-1. Employment Values Used for County Allocation 17 [1]

State FIPS	County FIPS	A	B	C	D	E	F	G	H	I	J	K
18	025							1,025	1,153		128	
18	027	99	99		19	19		5,542	8,167	19	2,644	19
18	029		99		99	74		11,830	15,011	38	3,200	19
18	031		19			19		5,804	12,071	38	6,267	19
18	033		21			499	99	7,595	21,855	38	14,279	118
18	035	99	59	14		999	88	32,587	42,884	434	10,354	107
18	037	19	50	19	19	99		12,774	29,244	137	16,508	36
18	039	19	991	99	19	486	293	47,914	107,925	322	60,228	130
18	041		99	19		99		4,894	11,595	38	6,739	19
18	043	19	99	99		914	99	16,561	24,546	135	8,103	18
18	045	19	99					2,192	6,924	38	4,770	19
18	047		19		19		19	3,353	4,568		1,234	
18	049		99			99		3,276	6,676	38	3,419	
18	051	99	14	19		19		6,378	11,786	19	5,427	19
18	053		99	19	19	45	19	20,299	30,745	141	10,484	175
18	055	499	12	19	19	19		4,320	5,962	38	1,661	38
18	057		115	249		249		60,735	67,636	275	7,088	540
18	059		45	19		99		8,507	12,059	45	3,590	118
18	061	19	19			19		4,799	8,966	38	4,186	19
18	063		99			80	19	17,361	19,824	118	2,482	38
18	065	19	34		19	19		7,992	13,478	38	5,524	82
18	067		99	19		74		23,577	52,290	260	28,878	112
18	069	19	19			99		7,912	15,334	38	7,460	110
18	071	19	99		19	249	19	9,388	16,267	21	6,936	19
18	073		19			19		6,055	8,182	198	2,245	19
18	075		19	19	19		19	3,344	8,875	19	5,531	
18	077	19	19			33	19	7,642	11,641	118	4,018	9
18	079		99					2,763	5,933	19	3,170	19
18	081		108	19		70	99	26,854	34,111	188	7,287	145
18	083	19	43		19	99		10,833	13,404	118	2,689	133
18	085		99	19	19	1,685	186	14,436	29,831	221	15,449	34
18	087	99	99		19		19	4,463	11,010	19	6,566	19
18	089	19	418	99	99	499	99	118,282	155,152	701	37,271	402
18	091		68	19	19	249	249	24,693	35,361	82	10,792	118
18	093		99		19	99		7,954	15,527	118	7,611	99
18	095	19	134	19		133	499	29,139	40,428	250	11,422	140
18	097	19	676	198	19	4,547	623	391,290	465,988	2,329	75,249	1,546
18	099	19	86	19		249		9,562	18,634	34	9,190	63
18	101		22			19		1,374	2,814		1,440	
18	103		19			100		4,479	7,926	38	3,447	
18	105		99	99		499	19	31,892	46,131	168	14,354	304
18	107	19	99	19		2,499	19	7,832	16,599	38	8,805	118
18	109		49	19		99		8,889	13,702	45	4,851	99
18	111	19	19			19		1,429	3,254	19	1,825	19
18	113		99	19		499	99	6,920	20,091	28	13,228	19
18	115					19		3,040	3,078		38	
18	117	19	19		19		19	2,956	6,657	19	3,701	19

To calculate allocation proportion of national emissions to county, divide number of county employees within an industry category by total (national) number of employees in that category

A = Animal Services, except veterinary; SIC Code =0750

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E = Commercial Printing, Gravure; SIC Code = 2754

F = Plating and Polishings; SIC Code = 3471

G = COMM (seeAppendix C)

H = COMMIND (see Appendix C)

I = DRYCLEAN (see Appendix C

J = IND (see Appendix C)

K = SWIMPOOL (see Appendix C)

1 = data from the U.S. Census Bureau's 1999 County Business Employment

Appendix E-1. Employment Values Used for County Allocation 17 [1]

State FIPS	County FIPS	A	B	C	D	E	F	G	H	I	J	K
18	119	19	19			99		1,706	4,732	38	3,045	118
18	121		19		99	99		1,829	2,843	19	1,033	
18	123		12			19		2,900	4,906	38	2,006	19
18	125		19		19			1,331	1,806		475	
18	127		106	19		499	99	30,657	43,595	94	12,988	510
18	129		19			19	19	3,452	7,835	19	4,501	19
18	131	99	19			19		2,224	4,069	19	1,864	19
18	133		19	19		19		8,336	11,800	19	3,521	
18	135	19	28			19		2,956	6,955	38	3,999	19
18	137		19			249	19	6,927	13,759	38	6,851	249
18	139		14			19		2,848	4,692		1,844	
18	141	249	228	99		735	249	89,310	111,894	833	22,693	350
18	143	19	12		19	249		3,550	6,939	38	3,408	19
18	145	19	19	19	19	332	19	7,126	14,904	137	7,797	99
18	147		19			19		2,684	6,213	38	3,529	19
18	149		13	19	19			2,404	4,604	19	2,200	19
18	151		19	19		309	99	17,256	25,482	38	8,226	19
18	153		11		19	19		2,544	3,405	19	880	
18	155					19		739	1,313		574	
18	157	19	114	99		249	99	40,503	59,471	327	19,105	278
18	159		19			99	99	2,357	4,103	19	1,765	
18	161							823	998		175	19
18	163		322	99		376	249	74,696	95,864	550	21,419	232
18	165	19						2,678	5,949	38	3,271	
18	167	19	61	99		499		33,563	42,573	236	9,189	164
18	169		99	19		99		7,020	13,212	118	6,192	
18	171		19			19		767	1,423		656	
18	173		30	19		19		6,085	12,186	99	6,123	99
18	175	99	7					2,529	7,510	38	5,000	
18	177		20	19		227		21,764	31,412	46	9,790	56
18	179		24	19		19		6,965	11,468	38	4,522	19
18	181		19			19		4,123	9,875	38	5,809	16
18	183	19	19			99	249	6,372	11,684	38	5,331	19
19	001		19					1,533	2,287		792	
19	003	19	19			249		884	1,301		417	19
19	005	499	14				19	2,715	4,516	19	1,801	38
19	007	19	19					2,376	3,967	19	1,591	19
19	009		8			99		1,135	1,527		392	
19	011	19	25		19	19	19	3,220	4,249	38	1,048	
19	013	2,499	249	99	99	525	99	40,316	54,771	517	14,491	137
19	015	19	20		99	14		5,274	6,912	19	1,676	19
19	017	99	17			121		5,513	7,909	19	2,396	
19	019	19	19		19	8		3,541	5,095	19	1,554	19
19	021	2,499	19	19		19		5,383	8,535	38	3,152	19
19	023		19			19		1,631	2,467		855	2
19	025	19	19			99		2,073	2,578	19	524	
19	027	19	19	19		99		7,233	9,304	99	2,090	19

To calculate allocation proportion of national emissions to county, divide number of county employees within an industry category by total (national) number of employees in that category

A = Animal Services, except veterinary; SIC Code =0750

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Appendix E-1. Employment Values Used for County Allocation 17 [1]

State FIPS	County FIPS	A	B	C	D	E	F	G	H	I	J	K
19	029	19	19			19	19	3,806	6,169	19	2,401	19
19	031	19	19			99		2,681	4,136		1,455	
19	033		42	19	19	499		16,793	22,210	123	5,467	99
19	035		19		19	19		2,853	4,387	19	1,534	19
19	037	19	7		19	19		2,190	4,234	19	2,044	19
19	039		19			19		1,816	3,769		1,972	
19	041		19	19		425		5,725	7,394	198	1,726	19
19	043	19	8					4,155	6,302	38	2,166	
19	045		62		19	249		12,356	18,155	38	5,837	5
19	047	2,499	19			19	19	3,026	5,220		2,213	19
19	049	2,499	10	19	99	249		5,758	9,941	38	4,221	14
19	051		19					1,227	1,814		587	
19	053					19		2,325	2,698	19	373	
19	055		19			19		2,741	5,205		2,464	19
19	057		53			104		11,886	21,571	38	9,728	64
19	059		19			19		4,657	8,236	19	3,617	38
19	061	2,499	99	99		999	19	33,587	46,722	297	13,253	80
19	063		19			19		2,312	3,394	19	1,082	19
19	065	19	18	19		19		5,472	8,071	118	2,618	
19	067		19		19	19		3,115	4,973	57	1,858	99
19	069		19			19		1,915	3,576	19	1,661	19
19	071		19			19		1,198	1,549		389	
19	073		19			19		1,792	2,727		935	19
19	075		4		19	19		1,931	3,098	19	1,167	19
19	077							1,549	1,932		383	
19	079	19	17			99		3,185	6,797	19	3,612	
19	081	19	18	19	99	19		1,750	3,324		1,593	19
19	083		16			26		5,044	7,264		2,239	38
19	085		10			99		2,765	3,290	19	525	
19	087	19	19			249		9,318	14,617	38	5,318	19
19	089	19	19					1,654	4,575		2,921	
19	091	19	19					1,910	3,476	19	1,585	19
19	093	19	19					1,854	3,564		1,710	
19	095		19	19		249		3,842	11,369	19	7,546	
19	097		9			99		3,611	5,747	19	2,155	19
19	099		19	19		249		9,148	15,716	137	6,606	
19	101	19	7			99		5,327	8,145	38	2,837	19
19	103	19	249	99	99	999		40,802	46,934	198	6,189	292
19	105		19					2,916	4,379	19	1,482	
19	107	19	19		19		19	1,332	1,776	19	444	19
19	109		14					3,908	5,804	19	1,915	99
19	111		99	19		19		9,212	16,701	38	7,546	99
19	113	19	157	99		2,499	99	72,167	96,479	303	24,397	369
19	115	2,499			99			1,136	4,225		3,089	
19	117		3					2,431	3,005		574	
19	119	19	19	19				1,596	2,281		685	
19	121	19	19		19			1,950	2,909	19	978	

To calculate allocation proportion of national emissions to county, divide number of county employees within an industry category by total (national) number of employees in that category

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Appendix E-1. Employment Values Used for County Allocation 17 [1]

State FIPS	County FIPS	A	B	C	D	E	F	G	H	I	J	K
19	123		19			19		4,534	6,055	38	1,540	99
19	125		99	19		99		8,430	20,681	118	12,308	99
19	127	2,499	19	19		99		8,951	17,687	118	8,774	19
19	129		19		19			2,545	2,720	118	175	19
19	131	19	19			249		1,888	3,488	19	1,619	
19	133	19	19	19	19	19		2,456	2,793	19	356	
19	135		19	19				1,406	3,410		2,042	
19	137		21			249		3,061	4,912	19	1,870	19
19	139		19			19		12,169	21,529	118	9,379	19
19	141		24		19	99		3,912	5,172		1,298	19
19	143	19	19					985	1,956		971	19
19	145	19	99			99		4,112	7,403	38	3,291	19
19	147	19	5			99		2,061	2,909	38	848	19
19	149	19	15			19		5,455	8,611	19	3,175	46
19	151	19	19					1,625	2,486	19	861	
19	153	999	451	99	99	2,447	19	190,267	213,211	1,052	23,209	815
19	155	499	35		19	670		21,766	26,831	38	5,352	99
19	157		17			249		7,473	10,605	38	3,132	19
19	159	19	19					797	1,227		430	
19	161		19				99	2,240	2,648	19	408	19
19	163	19	112	81	19	999	99	57,796	72,022	697	14,337	314
19	165	99	16					3,776	4,337	19	580	
19	167	999	99			122		8,437	15,180	19	6,762	38
19	169		99	19		516		20,592	25,379	71	4,806	103
19	171	499	6					4,658	5,998		1,359	
19	173		19			19		718	1,529	38	811	
19	175		19			19		3,774	5,399	38	1,663	19
19	177	19	19		99			860	1,920		1,060	
19	179	2,499	99		19	19		9,254	13,437	57	4,320	118
19	181		99			19		6,199	6,806	38	607	56
19	183	19	19			249		3,924	5,918	38	2,013	19
19	185	19	19		19			1,057	1,976		919	19
19	187		99	19		99	19	11,554	15,004	128	3,507	99
19	189		19					2,747	8,893	19	6,146	
19	191	19	17	19		54		7,373	10,207	38	2,834	19
19	193	1,794	76	99		249		33,364	41,855	217	8,584	172
19	195	19	19					858	1,819		980	
19	197		19			162		3,448	5,458	38	2,048	19
20	001	19	19			249		2,796	5,901	38	3,124	19
20	003		19	19	99	99		1,100	1,648		567	
20	005		19		19	99		3,919	6,391	19	2,491	
20	007		19					1,168	1,512		344	19
20	009	19	19		19	21	19	7,124	9,293	38	2,198	118
20	011	19	19			499	19	4,868	6,906	19	2,038	
20	013		19					3,145	3,791	19	665	19
20	015		19		19	51	19	8,122	11,219	24	3,116	27
20	017		19			19		494	589		95	

To calculate allocation proportion of national emissions to county, divide number of county employees within an industry category by total (national) number of employees in that category

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Appendix E-1. Employment Values Used for County Allocation 17 [1]

State FIPS	County FIPS	A	B	C	D	E	F	G	H	I	J	K
20	019					19		626	664		38	
20	021		14		19	499		2,501	6,036		3,535	
20	023		19		19			614	671		57	19
20	025				19			489	645		156	19
20	027				19	99		1,828	2,606	38	797	
20	029	19	19		19			2,635	3,257	19	641	
20	031	19	19					1,661	2,152		491	19
20	033		19					556	672		116	
20	035	19	99			112		7,761	13,161	118	5,457	
20	037		99	99		499		10,057	14,442	38	4,443	38
20	039							695	771		76	
20	041		9		19	19		3,798	5,576	38	1,816	19
20	043		19					1,186	2,708		1,522	19
20	045		99	19		999		27,091	33,853	96	6,896	131
20	047		19					520	972		452	
20	049	19						384	540	19	156	
20	051	19	99			25		9,644	11,209	38	1,622	91
20	053	19	19					1,361	1,899		538	
20	055	9,999	99		99	18		8,464	14,649	297	6,223	19
20	057	4,999	46			19		7,226	13,258	28	6,070	99
20	059	19	23		19	19		4,492	5,849	38	1,376	19
20	061		19					6,357	8,048	38	1,729	19
20	063	19	19					692	924		232	19
20	065		19			19		742	799		57	
20	067		19		19	19		1,428	1,871	38	443	
20	069	19	19		19			1,005	1,161		175	19
20	071				19			403	441		38	
20	073		19					1,147	1,378		231	
20	075		19					845	864		19	
20	077		19			19		1,135	1,514	19	379	
20	079		99		19	99		8,142	11,905	38	3,782	38
20	081				99			855	1,091	19	236	
20	083							491	510		19	
20	085		15		19	19		4,140	4,621	38	481	
20	087	19	6	19				1,469	1,874		424	19
20	089		19					717	755		38	
20	091	249	415	342	22	5,116	99	201,076	225,980	1,054	25,360	1,240
20	093		19		19			409	466		57	
20	095	19	19		19	19		1,390	2,450	38	1,079	
20	097		19		99			989	1,107		118	
20	099		19			394		5,220	8,656	38	3,474	19
20	101	19	19					458	534		76	
20	103	19	33		99	23		10,654	12,698	217	2,101	55
20	105	19						647	822		194	
20	107	19	19					746	1,064		337	
20	109		19					616	635	19	19	19
20	111	4,999	99	19	99	47		8,383	14,893	109	6,548	59

To calculate allocation proportion of national emissions to county, divide number of county employees within an industry category by total (national) number of employees in that category

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Appendix E-1. Employment Values Used for County Allocation 17 [1]

State FIPS	County FIPS	A	B	C	D	E	F	G	H	I	J	K
20	113	99	22	19	19	19	106	7,872	12,250	38	4,397	19
20	115	19	19	19		19		2,739	3,348	19	609	
20	117		24			19		2,550	3,592	19	1,061	
20	119	19	19		99	19		798	992		232	19
20	121		19		99	19		4,691	5,776	38	1,123	19
20	123	19	19		19			1,904	2,426		541	
20	125		99		99	304		7,459	13,890	38	6,457	17
20	127		19					1,021	1,384		363	19
20	129		19		19			1,007	1,144		137	
20	131	19	19			19		2,250	3,938		1,707	
20	133		19			19		3,911	6,583	38	2,710	19
20	135	19	19					931	1,026		95	
20	137		19					1,464	1,888		462	19
20	139		19			19		3,598	4,230	38	651	19
20	141	99						929	1,433		523	
20	143		19		19			782	925		143	
20	145		19		19	19		1,996	2,270		274	
20	147		19					1,212	1,905		712	
20	149	19	9	19				3,983	5,143		1,178	19
20	151		19			19		2,560	2,824	19	283	
20	153	19				19		599	732		152	
20	155		58	19	99	398		16,824	23,082	118	6,395	113
20	157		19					1,259	2,032	19	773	19
20	159		19		99	19		2,022	2,806		803	19
20	161		32			137		16,062	17,610	54	1,654	57
20	163							920	1,443	19	561	
20	165				19			657	1,161		504	
20	167		19		19	99		1,658	2,286	19	647	
20	169		38	19		101		17,716	26,221	43	8,565	19
20	171	19	5					1,284	1,459	19	194	19
20	173	99	500	249	99	1,410	249	148,925	211,199	917	62,550	600
20	175	4,999	17		249			5,403	11,024	118	5,678	38
20	177	99	182	77		2,499		65,972	75,954	280	10,112	294
20	179				19			688	783		95	19
20	181		19			19		1,903	2,276	19	411	38
20	183	19	19					1,018	1,381		382	
20	185		19		19			799	955		175	
20	187	19	19					464	521		57	
20	189		19		99			953	1,128		175	
20	191	99	22			19		3,571	5,063	19	1,530	19
20	193		26		19	19		2,276	2,447	19	190	19
20	195	19	19		19		19	873	1,044		171	19
20	197							585	840		274	
20	199							452	490		38	
20	201	19	19					1,434	1,647		232	
20	203		19					432	550		118	
20	205	19	19			99		1,327	3,491	38	2,164	19

To calculate allocation proportion of national emissions to county, divide number of county employees within an industry category by total (national) number of employees in that category

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G = COMM (seeAppendix C)

H = COMMIND (see Appendix C)

I = DRYCLEAN (see Appendix C

J = IND (see Appendix C)

K = SWIMPOOL (see Appendix C)

1 = data from the U.S. Census Bureau's 1999 County Business Employment

Appendix E-1. Employment Values Used for County Allocation 17 [1]

State FIPS	County FIPS	A	B	C	D	E	F	G	H	I	J	K
20	207		19					471	707		255	
20	209	19	249	99		523	19	36,409	52,422	276	16,241	288
21	001	19	7			48		2,513	3,154	19	641	
21	003		19			99		1,620	4,278	19	2,677	19
21	005		19			19		1,653	3,672	118	2,019	19
21	007		19			19		867	2,239		1,410	
21	009		11			2,499		8,636	16,237	39	7,649	99
21	011		19		19			867	1,662	19	814	
21	013		19	19		15		5,530	6,897	19	1,386	38
21	015		88	99		2,499		29,578	39,869	118	10,428	115
21	017		19			19	19	2,841	4,582	19	1,779	19
21	019	19	26	19	99	99		17,919	25,012	217	7,131	24
21	021		19		19	2,499		8,783	18,660	118	9,877	79
21	023					19		1,143	1,487		344	
21	025				19	19		2,179	2,394	19	215	
21	027		19		99			1,705	2,340	19	654	19
21	029		99	19		2,499		5,782	9,780	38	4,055	99
21	031		19				19	1,199	3,323	19	2,124	
21	033		19					2,328	3,785	38	1,457	19
21	035		15			99		7,215	11,428	118	4,331	19
21	037		50	19	19	554		16,159	20,511	65	4,378	144
21	039	99	19					554	921		367	
21	041							2,289	5,167	19	2,878	19
21	043		19			19		3,339	4,423	38	1,103	
21	045				19			1,569	2,787	19	1,218	19
21	047	19	99	19		26		15,313	23,712	199	8,517	146
21	049		18	19	99	249		5,973	11,391	118	5,475	15
21	051	19	19			99		2,253	3,105	19	871	
21	053							1,096	2,845	19	1,749	
21	055		19					1,312	2,247	19	935	19
21	057							917	1,244		346	
21	059	999	99	19	499	149	99	26,595	39,053	512	12,555	91
21	061	19	19					764	840		76	
21	063							443	561		118	
21	065		7					1,617	2,236	38	619	19
21	067		223	99	19	974	249	108,746	133,559	974	25,100	887
21	069	19	19					1,756	2,592	19	855	19
21	071		19		99	19		7,749	8,588	19	1,107	38
21	073		99			16		11,457	15,154	55	3,735	59
21	075		19					1,650	2,858	19	1,227	19
21	077							1,358	2,013	19	655	
21	079					99		1,103	2,008	38	943	19
21	081		19	19		19	99	3,245	4,592	38	1,366	19
21	083	19	19			99		5,846	10,866	137	5,039	19
21	085	19	10			19		4,291	8,276	57	4,004	19
21	087		19			19		1,078	1,799	19	740	
21	089		19		19	19	99	4,432	5,910	19	1,497	38

To calculate allocation proportion of national emissions to county, divide number of county employees within an industry category by total (national) number of employees in that category

A = Animal Services, except veterinary; SIC Code =0750

B = Top Body Repair Paint Shops; SIC Code = 7532

C = Dental Laboratories; SIC Code = 8072

D = Petroleum Bulk Stations and Terminals; SIC Code =5171

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G = COMM (seeAppendix C)

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K = SWIMPOOL (see Appendix C)

1 = data from the U.S. Census Bureau's 1999 County Business Employment

Appendix E-1. Employment Values Used for County Allocation 17 [1]

State FIPS	County FIPS	A	B	C	D	E	F	G	H	I	J	K
21	091		19			19		643	3,034	38	2,391	19
21	093	19	46	19		118	99	21,378	29,996	118	8,678	105
21	095		19			19		4,193	5,035	38	842	
21	097	19	19					2,249	5,035	38	2,786	
21	099		19				19	1,689	2,629	38	940	
21	101		99		19	31	99	9,745	17,459	287	7,832	67
21	103		19					1,521	2,523	19	1,002	
21	105							681	1,209		528	19
21	107		22	19	19	99	19	10,157	13,951	118	3,851	99
21	109		19			19		941	2,329		1,407	
21	111	2,499	680	156	99	3,189	19	289,698	349,487	2,041	60,339	1,155
21	113		83	19		99		9,136	12,487	38	3,469	78
21	115		19			19		3,651	4,401	118	769	
21	117		249	19		299	19	40,354	49,723	410	9,526	306
21	119							1,430	1,545		115	
21	121		19					4,386	5,962	19	1,614	
21	123	19	19					1,089	1,868	38	798	19
21	125		27			83		10,543	14,103	367	3,617	99
21	127		7			19		1,801	2,008	38	207	19
21	129							2,043	2,448	19	405	
21	131							1,157	1,233	19	95	
21	133		19			19		3,057	3,289	38	232	19
21	135			19				698	1,701		1,003	
21	137		4		19			2,023	3,317		1,294	99
21	139							1,187	1,462		275	
21	141		14	19		19		3,576	11,810	38	8,272	19
21	143		19					1,191	1,516	19	325	19
21	145	99	125	19	19	109	99	26,587	32,264	141	5,729	89
21	147		19			19		1,211	2,439	19	1,228	
21	149	19	19				19	1,053	1,539		486	
21	151		11	19		27	99	14,058	21,920	103	7,900	75
21	153		19					1,289	1,774		485	
21	155		19			249		3,216	5,680	19	2,483	
21	157		19		99	19		4,610	7,987	38	3,419	31
21	159				19			1,192	1,306		133	
21	161		19			19	19	4,609	10,450	118	5,841	99
21	163	19	19			19		1,978	2,808	38	849	19
21	165							500	953	19	453	
21	167					19	19	2,781	7,757	21	4,995	99
21	169					19		755	3,503		2,748	
21	171		6	19	19			2,118	3,496	19	1,378	
21	173		23			19	19	4,226	7,959	38	3,771	19
21	175		19					1,391	2,155	19	783	
21	177	19	21		99	19		4,859	7,178	118	2,376	113
21	179	19	19			19	19	5,890	10,225	198	4,373	61
21	181							820	1,606	19	805	
21	183		19	19		19	19	2,567	5,049		2,482	

To calculate allocation proportion of national emissions to county, divide number of county employees within an industry category by total (national) number of employees in that category

A = Animal Services, except veterinary; SIC Code =0750

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Appendix E-1. Employment Values Used for County Allocation 17 [1]

State FIPS	County FIPS	A	B	C	D	E	F	G	H	I	J	K
21	185		19	19		99		5,927	7,737	38	1,829	118
21	187		19					975	1,300		325	
21	189							323	361		38	
21	191		19					1,059	2,396	19	1,356	
21	193		19			19		6,702	8,011	38	1,328	19
21	195		21		99	19		12,629	14,224	118	1,633	38
21	197				99			1,091	2,564	23	1,473	
21	199		19	19		84		12,474	18,478	108	6,051	58
21	201				19			211	268		57	
21	203		19					1,870	3,081	19	1,211	19
21	205		19		19			4,695	6,732	38	2,056	19
21	207		19	19		19		2,553	4,277	38	1,823	
21	209		19			19	99	9,184	21,512	118	12,366	19
21	211	499	19			40		6,004	11,339	137	5,354	118
21	213	19	19			999		4,047	8,355	137	4,327	19
21	215		19					652	785		152	
21	217	19	12			19		5,083	7,054	38	1,990	19
21	219							1,163	3,085	19	1,922	
21	221		19			19		1,350	2,850	19	1,519	19
21	223							447	523		76	
21	225		5			19	19	4,538	6,187	19	1,649	19
21	227	19	36	19	19	258	99	29,213	38,767	456	9,666	198
21	229		19					1,382	2,407	99	1,063	
21	231		19			99		2,209	4,852	38	2,892	
21	233		19		99	19		1,323	2,704	19	1,381	
21	235	19	22	19		19		9,401	15,478	38	6,096	33
21	237		19					564	701		137	19
21	239	19	19			2,499		4,006	10,351	38	6,364	22
22	001		19		53	9		7,442	10,634	118	3,256	198
22	003		19		99	19		2,661	3,625	9	983	19
22	005		81		19	19		13,144	19,492	75	6,485	38
22	007		19		27			1,769	2,550		781	19
22	009		19		19	19		6,818	7,933	99	1,134	19
22	011	19	7		19	19		4,733	6,726	16	2,111	29
22	013		19		99			1,577	3,623	19	2,065	
22	015	19	93	99		249	99	24,619	27,963	239	3,411	89
22	017		251	134	999	499	19	79,801	98,198	375	18,566	500
22	019	19	96	22	249	122		48,384	61,955	380	13,779	101
22	021		19		99			1,380	1,922	19	542	
22	023				65			1,363	1,645	19	282	99
22	025		19					1,439	2,132	19	731	
22	027				19			1,911	2,928	19	1,017	
22	029		19	19		19		3,099	3,411	19	331	19
22	031		19			19		2,225	4,265	19	2,059	19
22	033		293	59	19	999	19	153,130	167,834	956	15,085	610
22	035		19		19			890	1,097	19	226	
22	037	19	19		99			3,159	3,721	99	562	19

To calculate allocation proportion of national emissions to county, divide number of county employees within an industry category by total (national) number of employees in that category

A = Animal Services, except veterinary; SIC Code =0750

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1 = data from the U.S. Census Bureau's 1999 County Business Employment

Appendix E-1. Employment Values Used for County Allocation 17 [1]

State FIPS	County FIPS	A	B	C	D	E	F	G	H	I	J	K
22	039	19	7		19	19		4,588	5,998	19	1,429	
22	041		7			19		3,712	4,306	19	731	19
22	043		19	19	99			945	2,155		1,229	19
22	045	19	99	19		18		16,875	21,188	118	4,412	55
22	047		19		19	19		5,057	9,838	38	4,838	19
22	049		19			19		1,894	3,124	38	1,230	19
22	051		424	75	19	1,130	19	165,935	185,283	729	20,309	478
22	053		19			19		4,800	6,100	25	1,319	19
22	055		158	28	249	165	19	72,621	80,993	456	8,734	307
22	057		99	19	99	23		16,920	21,760	367	4,991	79
22	059		12		19			1,940	2,758	19	837	19
22	061		99		99	19		9,504	12,893	84	3,435	118
22	063		19	19		19		7,551	10,173	118	2,679	60
22	065							2,354	2,628	19	293	
22	067	19	19		99	19		3,923	7,050	24	3,127	
22	069	19	99		99	19		6,308	11,141	137	4,865	14
22	071		185	19	249	433	19	170,224	182,070	970	12,007	191
22	073	19	116	10	46	249		46,613	56,761	317	10,265	101
22	075		19	19	19			5,609	8,988	38	3,528	38
22	077			19	19			2,692	3,564	38	910	19
22	079		117	19	99	41		36,090	40,281	163	4,343	93
22	081	19	19					1,185	1,571		386	
22	083		19		99			4,040	5,279	19	1,258	19
22	085	19	19			19		2,490	4,262		1,791	
22	087		99	19		23		10,702	13,393	118	2,725	68
22	089	19	99			19		9,880	16,098	57	6,323	38
22	091	19			19			774	1,204		449	
22	093	99						2,901	6,196	19	3,314	19
22	095		99	19		19		6,805	9,654	118	2,922	19
22	097	99	19		99	127		12,146	14,880	118	2,742	35
22	099	19	19		19	19		5,036	9,093	9	4,095	
22	101		99		92	99		13,977	19,452	118	5,659	43
22	103	19	110	99		249		41,832	45,399	243	3,819	513
22	105	99	58		19	99	19	19,360	23,122	447	3,831	67
22	107							743	979		236	
22	109		99	19	99	99		25,654	30,735	44	5,249	118
22	111	19	19					2,141	5,544		3,422	
22	113	19	18		99	19		7,031	8,350	38	1,437	38
22	115		31			19		6,290	6,807	99	536	19
22	117		19		19	99		5,825	8,233	99	2,427	19
22	119	19	16	19		19		6,844	10,334	86	3,509	19
22	121	19	99			99		3,725	6,576	38	2,851	19
22	123		19		99			1,309	1,851	19	542	19
22	125							1,466	2,541		1,075	
22	127		19			19		2,641	4,159	19	1,537	
23	001	19	93	19		999	19	29,900	41,081	117	11,240	124
23	003	19	99	19		73		16,874	24,052	28	7,197	19

To calculate allocation proportion of national emissions to county, divide number of county employees within an industry category by total (national) number of employees in that category

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Appendix E-1. Employment Values Used for County Allocation 17 [1]

State FIPS	County FIPS	A	B	C	D	E	F	G	H	I	J	K
23	005		218	80	19	583	249	113,363	132,255	626	19,329	536
23	007		99			65		7,056	11,214	19	4,177	19
23	009		19			99	19	12,385	16,546	38	4,494	69
23	011	19	99	19	19	249		33,171	39,702	104	6,666	178
23	013	19	99			99		10,058	13,192	118	3,263	19
23	015		99			21		6,461	7,925	26	1,563	73
23	017	19	16	19		16		10,356	16,351	118	6,014	59
23	019	19	122	19	19	249	19	40,873	52,987	256	12,171	234
23	021		19			19		2,904	5,436		2,551	19
23	023		99			19		6,120	17,298	38	11,197	99
23	025	19	99			99		8,391	14,747	21	6,394	81
23	027		19	19		99		7,291	9,747	38	2,500	38
23	029		99			19		5,737	8,609	19	2,891	38
23	031	19	99	19		2,499	99	32,741	45,262	134	12,686	253
24	001		99	19	99	249		17,574	24,096	287	6,659	249
24	003		384	99		1,317	19	129,346	147,446	487	18,526	929
24	005	99	500	130	19	1,875	30	243,899	280,295	960	36,837	1,275
24	009		99	19	99	99		10,261	11,425	24	1,186	80
24	011		99			14		3,967	6,312		2,383	19
24	013	19	249	19		499	19	29,492	35,322	81	5,959	263
24	015	19	46	19		99		13,408	16,909	110	3,551	58
24	017		152	19	19	499		21,972	23,827	95	1,973	179
24	019		31			499		5,208	9,486	38	4,316	29
24	021		195	8	19	962	19	50,913	60,479	199	9,614	506
24	023		19		19	19		6,429	8,372	38	1,971	25
24	025	19	230	19	19	499		39,065	46,700	115	7,747	453
24	027	19	224	12	99	408	19	108,487	116,988	498	8,769	925
24	029		19			99		5,145	6,731	118	1,624	19
24	031		630	197	99	2,571	19	317,734	339,429	1,107	22,209	3,200
24	033	19	603	14		3,716	99	187,647	202,003	1,796	14,858	809
24	035		19	19		249		6,580	7,997	38	1,436	34
24	037		99	19		225		20,234	21,623	46	1,488	66
24	039		19			19		2,565	3,348	38	802	
24	041		99			499		13,377	17,635	118	4,437	30
24	043	99	82	19		499	19	36,624	50,034	118	13,501	259
24	045		99	99		499	19	26,219	35,141	204	9,050	183
24	047	99	99			249		14,058	16,450	118	2,491	98
24	510	99	459	89		1,919	249	237,595	267,050	1,101	29,717	555
25	001		184	99		249	19	57,566	62,238	245	4,980	464
25	003		249	19	19	999	249	43,177	54,746	248	11,616	221
25	005	19	402	99	99	1,539	394	131,152	180,153	801	49,234	1,199
25	007		19			19		4,462	4,911	38	487	99
25	009		468	99	19	1,295	416	192,871	248,819	961	56,298	2,124
25	011	19	99			99		14,906	21,940	118	7,072	172
25	013		456	249		2,841	501	129,240	164,917	864	35,947	309
25	015		249	19		499	19	36,689	43,036	129	6,385	222
25	017	19	1,230	235	19	6,108	559	620,410	750,774	2,701	131,126	4,525

To calculate allocation proportion of national emissions to county, divide number of county employees within an industry category by total (national) number of employees in that category

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Appendix E-1. Employment Values Used for County Allocation 17 [1]

State FIPS	County FIPS	A	B	C	D	E	F	G	H	I	J	K
25	019		19			99		3,488	3,937	19	487	99
25	021	99	565	64	99	2,133	249	252,451	290,362	1,156	38,333	1,647
25	023	19	347	99	19	1,449	180	111,383	128,959	699	17,781	826
25	025	99	592	25	99	1,840	99	473,318	501,740	846	28,656	2,508
25	027	99	730	82		1,737	182	202,296	263,040	886	61,165	1,566
26	001		19			19		993	1,464		471	99
26	003		19					1,614	2,867	19	1,253	7
26	005	999	44	19	99	999	249	15,551	34,341	48	18,828	49
26	007		99	19		19		7,685	10,831	118	3,165	33
26	009		20		99	19		3,279	5,192	38	1,970	38
26	011	19	19			99	99	4,202	5,434	19	1,251	
26	013		19			19		1,456	2,466	19	1,010	19
26	015	19	99	19		117		7,314	11,120	118	3,825	19
26	017	19	52	19		249	19	26,610	33,422	184	6,926	111
26	019		19	19		19		2,312	3,446	38	1,153	19
26	021		178	33	99	936	249	39,914	57,357	319	17,515	417
26	023		19	19		249	99	7,821	12,148	38	4,365	44
26	025	19	118	19		499	19	41,095	57,616	489	16,578	76
26	027	19	49			51	25	4,666	9,033	9	4,405	38
26	029		19			19		5,436	9,751	38	4,343	26
26	031	99	16			99		4,805	6,014	38	1,477	21
26	033	19	19	19		99		8,938	10,300	118	1,362	99
26	035		19		99	19		4,766	6,620	38	1,873	19
26	037	19	99	19		999	19	8,526	12,618	57	4,111	38
26	039					19		2,555	3,232	38	677	19
26	041	19	99	19	19	83		9,583	14,253	137	4,807	10
26	043		31	19		249		7,710	11,916	38	4,244	25
26	045		67	19		76	99	23,353	28,342	38	5,012	62
26	047		23	19	99	109		10,644	12,922	19	2,335	48
26	049		287	112	19	473	97	113,045	151,639	720	38,810	398
26	051		99			19		2,598	4,165	19	1,586	19
26	053		12		19	19		4,196	5,419	38	1,223	19
26	055		156	61	19	249	19	30,577	39,118	159	8,589	146
26	057	19	99	19		145		9,268	12,736	38	3,487	38
26	059	249	25	19		19	249	7,974	16,202	38	8,247	19
26	061		99			99		8,087	9,835	19	1,748	19
26	063	19	99			19		5,969	10,534	44	4,587	24
26	065		183	249	19	710	19	97,381	117,385	446	20,202	737
26	067		99			55	249	6,765	11,232	118	4,467	38
26	069		7	19				4,030	5,140	57	1,129	38
26	071		7		19	19		2,551	3,425	118	874	
26	073	19	99	19		99	99	15,850	18,743	143	3,011	45
26	075		99	99	19	499	225	35,502	48,412	190	13,047	221
26	077	99	298	99		766	310	80,010	101,915	769	22,065	488
26	079		19			19	19	2,224	4,221		2,035	3
26	081	99	711	249		2,557	1,332	215,968	299,204	1,211	83,484	694
26	083							686	861		175	

To calculate allocation proportion of national emissions to county, divide number of county employees within an industry category by total (national) number of employees in that category

A = Animal Services, except veterinary; SIC Code =0750

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1 = data from the U.S. Census Bureau's 1999 County Business Employment

Appendix E-1. Employment Values Used for County Allocation 17 [1]

State FIPS	County FIPS	A	B	C	D	E	F	G	H	I	J	K
26	085		19					1,082	1,455	19	411	19
26	087	19	87	19		82	499	12,775	19,973	118	7,316	38
26	089	19						3,149	3,713	137	615	19
26	091	19	99	19		225	19	19,773	30,118	50	10,402	118
26	093	19	102	19	19	249	249	26,926	38,050	93	11,151	134
26	095		19					1,628	2,033	19	654	19
26	097		19		19			2,262	2,618	38	413	19
26	099		714	211		1,888	1,015	195,162	286,630	608	91,766	693
26	101		19			36		3,944	6,493	38	2,587	
26	103		99	19	19	99		16,227	17,739	73	1,799	60
26	105	99	44			19		5,257	8,888	49	3,650	38
26	107	19	99	19	99	19		6,822	10,038	348	3,241	38
26	109		2			25		3,400	7,282	19	3,920	
26	111	19	99	19		999		26,948	34,488	228	7,578	100
26	113		19					1,436	2,252		816	
26	115		88	19		29	235	22,284	34,055	64	11,823	246
26	117	19	99			499		8,094	15,183	109	7,146	99
26	119		7					1,331	1,920	19	608	19
26	121		105	19		499	249	35,920	53,289	193	17,426	314
26	123		19	19		99		6,320	9,417	57	3,116	19
26	125		1,020	285	19	2,930	826	603,012	698,003	1,824	95,493	2,199
26	127		8			19		2,600	4,457	38	1,857	20
26	129	19	16	19				4,181	5,371	19	1,209	19
26	131							1,055	1,767		712	
26	133	19	99		99	19		2,568	8,306	38	5,738	38
26	135		19					1,345	2,101		775	19
26	137		99	19	99	20		7,050	9,612	137	2,581	53
26	139	99	276	14		295	234	52,934	95,497	367	42,732	395
26	141		15			19		2,730	3,439	38	958	19
26	143		19	19		19		4,134	4,822	38	745	27
26	145		211	99	99	499	19	60,425	97,901	432	37,672	155
26	147	19	67	3	99	98	99	30,119	43,662	170	13,626	242
26	149	19	183			287	19	9,193	19,055	104	9,900	19
26	151	19	26			99	19	5,750	12,127	19	6,396	29
26	153		7			19		1,575	2,151	38	576	
26	155		99	19		99	99	10,366	14,766	34	4,419	54
26	157		99			249		8,798	11,934	38	3,155	19
26	159	19	99			499	249	9,727	15,199	63	5,518	19
26	161	19	241	17	19	2,985	249	106,417	139,370	250	33,159	862
26	163	1,123	1,571	346	2,499	2,595	1,450	519,233	659,096	3,420	140,949	1,658
26	165		99	19		99		8,757	13,990	137	5,271	99
27	001		19					2,265	3,105	19	859	38
27	003		291	249		1,004	198	61,031	88,240	367	27,369	847
27	005	19	99		19	249		11,596	13,857	38	2,280	19
27	007	19	32		19	43		9,374	11,203	19	1,867	99
27	009	99	99			99	19	6,873	10,526	19	3,691	38
27	011		8	19		19		1,375	1,588		213	

To calculate allocation proportion of national emissions to county, divide number of county employees within an industry category by total (national) number of employees in that category

A = Animal Services, except veterinary; SIC Code =0750

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Appendix E-1. Employment Values Used for County Allocation 17 [1]

State FIPS	County FIPS	A	B	C	D	E	F	G	H	I	J	K
27	013	19	99	99		220		20,280	25,628	137	5,367	249
27	015		99			999		7,518	13,431	38	5,913	95
27	017		13		99	19	19	5,855	10,400	118	4,583	99
27	019	19	99			507	99	14,310	24,165	77	9,893	38
27	021		18			19		4,348	5,103	19	793	19
27	023		19			249		3,160	5,069	57	1,909	
27	025	19	99	19	99	19	19	7,140	9,742	19	2,640	38
27	027	19	99			35		12,969	14,371	38	1,440	38
27	029		19		19			1,408	2,035	19	627	
27	031		19					1,804	1,997		193	
27	033	249	19			19		2,722	4,218		1,515	19
27	035		44	19		499		14,968	18,619	57	3,708	46
27	037	499	423	249	99	1,077	44	98,626	127,074	633	28,505	1,286
27	039		99	19		99		2,425	4,301	19	1,895	19
27	041	19	99	19		81		8,958	12,104	38	3,165	99
27	043	19	19			38	19	3,011	5,099		2,088	19
27	045	19	5	19		19		3,862	5,742		1,899	38
27	047	19	13			57	99	7,947	12,235	38	4,326	38
27	049	99	99	99		294		12,446	18,668	38	6,241	118
27	051	19	19					1,395	1,763		368	19
27	053	19	1,107	334	99	10,157	1,615	659,248	772,422	2,141	114,087	4,370
27	055	19	99	19				2,990	4,151		1,180	
27	057		19	99		19		3,893	5,959	38	2,085	19
27	059	19	99			99	19	5,193	7,142	118	1,987	38
27	061	19	99	19	19	131		9,155	14,335	38	5,237	118
27	063		19	19				2,765	4,015		1,250	
27	065		19			19		2,373	3,507		1,172	
27	067	19	99	19	19	143		13,689	17,568	118	3,898	118
27	069				19			1,135	1,230		95	
27	071		19				19	3,180	6,311	38	3,131	29
27	073	19	7					1,801	2,358		557	19
27	075		19					2,114	2,999	38	885	
27	077							1,201	1,682		500	99
27	079		27					5,222	8,702	19	3,499	19
27	081					19		1,347	1,461		152	
27	083		99		19	99		12,681	15,722	28	3,060	38
27	085	19	14			99	99	6,922	17,257	38	10,373	19
27	087		19	19				1,928	2,084		156	19
27	089	19	19	19	19	19		1,572	2,126	38	573	
27	091	19	19		19	19		5,751	8,579	38	2,828	99
27	093		19			19		3,325	5,359		2,072	38
27	095		19		19	6	99	7,861	9,785	38	1,943	
27	097	19	99	19		99		5,881	8,262	19	2,400	38
27	099	2,499	40			123		9,132	12,939	19	4,075	38
27	101	499	19			99		1,593	2,366		773	
27	103		39		19	4,999		8,543	16,406	32	7,901	19
27	105	2,499	17	19		19		5,458	8,866	19	3,408	19

To calculate allocation proportion of national emissions to county, divide number of county employees within an industry category by total (national) number of employees in that category

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1 = data from the U.S. Census Bureau's 1999 County Business Employment

Appendix E-1. Employment Values Used for County Allocation 17 [1]

State FIPS	County FIPS	A	B	C	D	E	F	G	H	I	J	K
27	107		19		19			1,212	1,387		175	
27	109		73	99		653		54,388	69,187	268	14,856	318
27	111	19	99	19		71		12,121	16,426	38	4,362	159
27	113		19			19		4,621	8,170	38	3,549	19
27	115	99	19			19	19	3,898	4,495	19	635	19
27	117	19	19			249		3,236	4,283	19	1,047	
27	119		19	19	19	17		6,810	8,792	19	2,001	19
27	121		10			99		2,852	3,644		792	
27	123	19	629	341	19	6,099	249	237,378	277,751	514	40,518	1,391
27	125							912	1,605		693	19
27	127	19	9			19		3,780	5,751	19	1,971	19
27	129	249	19			19		4,255	6,022		1,767	19
27	131	19	99	19		134		13,479	19,157	38	5,733	99
27	133	19	17					2,897	3,279	19	382	38
27	135	19	7			19		2,923	10,790		7,867	38
27	137		190	99	99	499		60,085	66,929	179	6,980	242
27	139		153	19		594	19	20,190	25,603	167	5,538	348
27	141		75			15		7,948	12,346	99	4,417	99
27	143		19			19		1,793	3,339		1,546	19
27	145	99	137	99		2,435	19	47,219	62,299	418	15,217	418
27	147		99		19	295		12,098	21,208	118	9,129	19
27	149	19	19					3,061	3,801		759	19
27	151		11		19			2,627	3,982		1,355	38
27	153	499	99		19	999	99	2,936	5,300	19	2,463	19
27	155	19				19		1,073	1,267	19	213	
27	157		19			19		3,556	6,842	19	3,305	19
27	159		19			19		3,391	5,220	19	1,829	19
27	161		19			2,499		3,503	7,843	19	4,359	38
27	163		337	101		999		38,067	50,969	246	13,023	653
27	165	99	19			249	19	2,042	3,809	19	1,786	
27	167	19						1,774	1,869		95	99
27	169	19	76			499		13,442	21,322	118	7,918	118
27	171		99			249		14,962	20,126	164	5,282	101
27	173	19	99	19		19		2,703	3,944	19	1,241	38
28	001		40	19		19	19	8,327	11,302	217	3,112	118
28	003	19	19	19	19	999		9,325	15,601	38	6,333	19
28	005		19					761	2,016	38	1,255	19
28	007	19	47		19	99		3,388	5,296	38	1,946	19
28	009		19					621	1,144	19	523	
28	011		19	19		99		6,614	9,771	99	3,195	19
28	013		19					1,327	3,359	19	2,032	
28	015		19					638	935	19	297	
28	017		19					2,462	7,204		4,742	
28	019		19					915	1,705	19	809	
28	021		19					1,223	2,181	19	958	19
28	023		19			19		1,746	4,561	38	2,834	
28	025	2,499	19			19		3,640	9,433	19	5,812	19

To calculate allocation proportion of national emissions to county, divide number of county employees within an industry category by total (national) number of employees in that category

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Appendix E-1. Employment Values Used for County Allocation 17 [1]

State FIPS	County FIPS	A	B	C	D	E	F	G	H	I	J	K
28	027		19	19	19			8,094	10,262	57	2,267	4
28	029	99	99			19		2,764	6,243	38	3,479	19
28	031	19	19	19	19			1,781	5,109	38	3,328	
28	033		100	19	99	486		19,576	27,493	95	7,996	249
28	035	19	99	18	18	99	19	24,739	30,437	145	5,768	187
28	037		19					981	1,570		589	
28	039		19			19		2,408	3,037	38	629	
28	041		19					798	1,056		277	
28	043		19			19		5,696	13,251	48	7,566	38
28	045		99	19	19	19		10,397	11,605	38	1,250	19
28	047	19	87	19		168		67,348	73,176	371	5,966	113
28	049		195	99	99	499	249	106,617	117,550	690	11,117	105
28	051		6					1,647	4,916	38	3,269	
28	053		19		19			1,428	3,044	38	1,635	
28	055							133	133			
28	057							1,979	4,248	19	2,307	38
28	059		83	19		149		22,256	54,209	175	32,049	38
28	061		19		19			1,582	4,032	32	2,469	
28	063		19		19			735	897	19	162	
28	065	19	19			19		1,279	2,013	19	734	
28	067	19	99	19	99	99		11,309	21,840	90	10,657	33
28	069	19	19					705	1,557	38	852	
28	071		99			99		8,362	11,180	89	2,875	38
28	073		19			19		5,731	6,999		1,306	19
28	075	249	62	99	19	626		23,221	31,323	211	8,204	34
28	077		19					1,225	3,146	19	1,940	19
28	079		19					2,640	8,968	38	6,385	19
28	081		99	99		120		28,885	46,904	148	18,118	30
28	083		19			99		8,281	15,779	198	7,498	27
28	085		24			7		6,443	8,884	118	2,497	19
28	087		99		19	99		14,741	23,694	89	9,079	185
28	089		99			71		19,418	22,384	99	3,023	143
28	091	19	99	19				3,973	5,877	38	1,923	38
28	093		6			19		4,370	6,347	99	1,996	
28	095		99		19	52		5,028	10,284	38	5,275	19
28	097		19	19		19		2,001	3,893	38	1,911	19
28	099		99	19		19		4,357	8,835	99	4,497	
28	101	19	19			19		2,239	6,203	19	3,983	19
28	103	19	19					1,166	2,623	19	1,476	19
28	105		14			19		6,937	10,202	198	3,284	19
28	107	19	19		99	19		5,506	8,600	24	3,113	19
28	109	19	25			19		6,165	7,492	70	1,365	19
28	111		19					1,118	2,535		1,417	
28	113	19	42			19		7,984	14,427	57	6,462	34
28	115		19			19		2,701	9,641	38	6,959	19
28	117		19			19		3,353	7,296	57	3,943	19
28	119		19					921	1,505		584	

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State FIPS	County FIPS	A	B	C	D	E	F	G	H	I	J	K
28	121	19	99	19	19	249		27,694	34,839	111	7,224	94
28	123		22			10		3,279	9,324	118	6,064	
28	125		19					966	1,004	38	57	19
28	127		19	19		19		3,770	4,397	19	646	19
28	129		19				99	841	3,610	38	2,788	19
28	131		19		19	19		1,610	2,502	19	911	19
28	133		19		99			4,242	8,739	118	4,516	19
28	135		19					1,168	1,967	38	799	
28	137		19		19	499		3,461	6,191	118	2,749	19
28	139					19	19	2,637	6,445	19	3,827	19
28	141		6					2,006	4,909	19	2,941	
28	143					19		18,997	19,977	38	980	19
28	145		10		19	99	19	3,901	9,933	19	6,051	19
28	147	19	19		99	19		1,397	2,835	19	1,438	19
28	149	19	99	19		19		13,984	20,700	118	6,745	118
28	151	19	47		99	40		13,308	20,572	198	7,401	78
28	153	6	19			99		3,002	5,021	38	2,057	
28	155	19	19				19	1,090	2,959	19	1,869	
28	157				19			1,435	1,958	19	523	
28	159		19			19		2,603	5,709	38	3,125	19
28	161				99			1,038	3,196	19	2,177	
28	163	19	3		19	19		3,056	6,335	118	3,298	
29	001		19	19		499		7,243	9,392	38	2,168	99
29	003		19			19		2,097	2,230		133	19
29	005					19		1,553	1,747		213	
29	007		99			19		5,512	8,865	19	3,410	99
29	009	19	19			30		5,585	13,197	41	7,634	19
29	011	19				99		2,355	6,184	19	3,829	19
29	013	99	11			19		2,250	3,006	19	756	19
29	015	21	19			19		1,893	2,477	19	622	19
29	017		19		19	19		1,101	1,547		446	
29	019	19	98	19	99	249		49,996	58,728	195	8,869	275
29	021		76	19	19	99		24,032	32,533	259	8,548	213
29	023		19	19		99		9,908	17,208	46	7,340	38
29	025	19	19					688	915		227	
29	027	19	19			249		6,682	10,621	118	3,996	19
29	029	19	99	19		12		9,653	11,290	118	1,677	38
29	031	19	99	19		99		25,768	35,225	69	9,586	139
29	033	19	19			99		1,682	2,437		774	19
29	035		19					521	827		306	19
29	037		32	19	19	26		10,117	12,430	118	2,370	22
29	039	99				249		1,921	2,769		867	
29	041		19			19		899	1,671		772	19
29	043	19	19			249	19	6,085	9,571	118	3,520	42
29	045							768	956		188	
29	047	19	185	19	19	1,692		58,924	74,484	241	15,607	260
29	049		19			19		2,732	3,280	38	567	19

To calculate allocation proportion of national emissions to county, divide number of county employees within an industry category by total (national) number of employees in that category

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Appendix E-1. Employment Values Used for County Allocation 17 [1]

State FIPS	County FIPS	A	B	C	D	E	F	G	H	I	J	K
29	051		99			999		27,038	34,059	149	7,050	55
29	053		19			19		2,836	4,225	19	1,408	19
29	055		19	19		99	19	3,186	5,274	38	2,107	19
29	057	19	19			99		879	1,507		666	
29	059		19					1,971	2,913	38	961	19
29	061	19	19			19		769	1,462		693	
29	063	19		19		19		1,347	1,568		259	
29	065	19	19				19	3,144	4,497	38	1,391	
29	067		19			19		1,306	2,066		760	
29	069		19			11		5,800	7,714	118	1,933	19
29	071	99	68	19		773	249	16,510	28,005	176	11,552	53
29	073	19	26			999		2,279	4,698		2,438	99
29	075		19					1,235	2,027	19	792	
29	077		264	79		737	44	96,184	117,764	572	21,886	343
29	079	499	19					1,705	4,685	19	2,999	
29	081	19				19		2,239	2,452		213	19
29	083	19	19	19		104		4,342	7,289	38	2,966	19
29	085							704	940		255	19
29	087		19		19			775	1,199	19	424	19
29	089	19	19			19		1,439	2,038		599	19
29	091	19	99	19		99		8,065	13,037	45	5,029	99
29	093		19					1,720	2,358	19	657	19
29	095	99	608	201	19	2,745	353	271,268	316,410	1,461	45,765	1,162
29	097	19	120	10	99	249	99	32,323	46,761	287	14,502	172
29	099	19	211	99		99	52	24,071	30,303	92	6,301	131
29	101	19	13		19	19		6,518	11,063	118	4,602	38
29	103		19					595	751	19	156	19
29	105	19	19			19		6,001	13,216	24	7,215	19
29	107	19	23			7		5,145	6,976	38	1,850	38
29	109	19	19	99		249		4,055	6,218	38	2,163	
29	111	19	19			19		1,360	2,010		650	19
29	113		12			19		4,175	6,208	38	2,033	18
29	115	19	8			2,499	99	2,065	6,086	38	4,021	
29	117	19	19			19		3,738	5,056	19	1,318	
29	119	19	19	19		19		1,364	5,069	38	3,724	19
29	121		9			19		2,541	4,543	19	2,021	19
29	123		19					1,660	2,608	38	986	19
29	125		19					763	1,286		542	
29	127		99			79	99	7,240	12,356	137	5,215	19
29	129							377	434		57	
29	131		19	19		99		3,821	5,915	19	2,132	19
29	133		19					1,859	2,768		909	19
29	135	19	19	19				1,720	3,161	19	1,460	19
29	137		19			19		1,223	3,818	19	2,614	19
29	139	19	19					1,797	3,379	19	1,681	19
29	141	19	19			19		2,173	3,456	19	1,306	19
29	143							3,114	8,574		5,460	

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Appendix E-1. Employment Values Used for County Allocation 17 [1]

State FIPS	County FIPS	A	B	C	D	E	F	G	H	I	J	K
29	145	19	10	19		99		9,960	15,570	38	5,648	19
29	147	19	25			249		4,362	7,269		2,945	38
29	149	19	19			19		1,189	1,837		667	19
29	151	19	19					1,335	3,152		1,817	
29	153		7					741	1,173		432	19
29	155		19					3,161	4,176	38	1,034	19
29	157	99	11			19		3,903	8,662	19	4,778	19
29	159	19	19	19	19	89		9,570	16,788	19	7,256	55
29	161	19	51	19	19	55		9,949	11,976	137	2,065	27
29	163	99	19			19		2,417	3,674	38	1,295	19
29	165		72			458		24,038	26,456	53	2,439	99
29	167	19	10	19		19		5,938	7,522	38	1,603	19
29	169	19	15			99		4,449	6,003	118	1,573	23
29	171	19		19		99		591	785		194	
29	173	19						953	2,262		1,309	
29	175		19			27		5,455	7,137	118	1,720	19
29	177		19			19		2,362	3,298	38	955	38
29	179		19					766	1,545	19	779	
29	181							1,391	2,410	38	1,038	
29	183	19	270	34	19	595	19	62,197	77,037	489	15,093	306
29	185	19	19					1,367	1,577		210	
29	186	19	19			249		2,338	4,873	19	2,535	19
29	187		99			7		11,843	17,044	198	5,239	77
29	189	19	813	295	19	4,410	156	427,368	511,120	1,909	84,701	2,039
29	195	999	19	19		19		4,507	7,871	19	3,383	57
29	197		19					389	465		76	
29	199	19	19					744	1,117		373	
29	201	19	12	19	19	122		8,337	11,951	217	3,652	19
29	203		19					711	1,653	19	942	
29	205		19			19		805	1,728		923	19
29	207		10			19	19	4,365	8,174	38	3,847	19
29	209	19	11	19		99	19	3,585	4,230	19	702	19
29	211	999	19					634	3,350	19	2,716	
29	213	99	99	19		30		18,055	19,142	118	1,144	99
29	215		19			15		2,880	4,728	19	1,848	99
29	217	19	99			19		4,253	6,418	38	2,184	19
29	219		19			19	99	3,014	6,088	38	3,074	19
29	221	99	19	19		19		1,978	3,191	19	1,232	
29	223	19	19			19		1,206	2,343		1,156	19
29	225	19	99			66	19	3,587	5,502	5	1,915	38
29	227							389	625		236	
29	229	99	19			19		2,251	3,777	19	1,526	
29	510	19	345	71		2,252	344	204,673	239,537	615	35,209	605
30	001	19	19			19		1,843	2,033	19	190	19
30	003		12					1,680	1,737	19	57	
30	005		19					1,054	1,111		76	
30	007					19		548	1,071		523	19

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Appendix E-1. Employment Values Used for County Allocation 17 [1]

State FIPS	County FIPS	A	B	C	D	E	F	G	H	I	J	K
30	009	19	19			19		1,740	2,132	19	411	
30	011							234	253		19	
30	013	19	249	19		164		23,623	25,169	198	1,683	79
30	015	19	19			19		779	912		133	19
30	017	19	99			19		3,316	3,704	118	388	19
30	019	19	19					383	459		76	
30	021		18					2,204	2,360	19	175	19
30	023		19					2,155	2,349		194	19
30	025	19	19					701	739		38	
30	027	19	19					2,473	3,322	19	849	19
30	029	19	249	19		249		19,450	24,502	151	5,097	174
30	031	1	99	8		147		20,602	23,639	74	3,087	184
30	033							244	282		38	
30	035		99					1,873	1,969	19	96	
30	037							103	141		38	
30	039							492	682		190	
30	041	19	19			19		4,334	4,654	118	320	15
30	043	19						735	948		232	19
30	045							374	412		38	
30	047	19	19	19		19		4,070	6,168	38	2,117	3
30	049	19	99	19		63	19	17,733	19,559	55	1,883	236
30	051		19					635	692		57	19
30	053		21			19		2,586	3,981	19	1,433	19
30	055		19					349	387		38	
30	057	19	19					758	1,079	19	321	19
30	059							361	399		38	
30	061							639	900		261	
30	063		124	22		249	19	30,982	35,487	297	4,562	413
30	065							614	690		95	
30	067	19	19			84		3,831	4,688	38	895	38
30	069							57	76		19	
30	071	19	19			19		754	868		114	
30	073		19			19		1,100	1,256		156	
30	075							271	328		57	38
30	077			19		99		787	1,451		664	
30	079							372	410		38	
30	081	19	99			17	19	5,841	7,241	57	1,442	28
30	083		19			19		2,111	2,790	19	698	19
30	085		19		19			1,637	1,911	19	274	19
30	087	19	19					1,816	1,991		175	
30	089	19	19			19		1,353	1,761		427	
30	091	19	19					1,020	1,153		133	
30	093		54	19		41		10,245	11,614	26	1,385	80
30	095	19	19					1,215	1,894		679	19
30	097	19	19					586	799		213	19
30	099	99						846	1,021		175	19
30	101	19	19					943	1,198		255	

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Appendix E-1. Employment Values Used for County Allocation 17 [1]

State FIPS	County FIPS	A	B	C	D	E	F	G	H	I	J	K
30	103							119	138		19	
30	105	19	19		19	19		1,787	2,019		232	19
30	107							513	551		38	
30	109							207	226		19	
30	111	19	248	99	249	249	19	46,008	50,268	223	4,302	301
31	001	249	25	19		12		9,447	14,104	57	4,714	19
31	003		19					1,200	1,592		392	
31	005	19						175	213		38	
31	007							57	57			
31	009							107	126		19	
31	011	19	19					1,409	1,584		175	19
31	013	19	19			19		2,743	3,535	38	811	19
31	015	19				19		432	508		76	
31	017	19	4					780	936	19	156	
31	019	499	40	19		366		14,078	20,088	217	6,034	14
31	021	19	19					1,036	1,271		235	
31	023	19						1,146	1,963		817	
31	025	19	19	19	19	19		2,725	3,362	19	656	19
31	027	19	19			19		1,385	2,138		772	
31	029		19					987	1,242		255	
31	031	19	19					1,500	1,614		114	19
31	033		19			19		2,623	3,692	38	1,069	19
31	035	19	19			19		810	985		175	
31	037	2,499	19					1,785	4,421		2,636	19
31	039	499	99					2,135	3,129	19	1,093	
31	041	19	19			19		2,085	2,835	19	788	
31	043	4,999	19	19		63	99	6,858	12,872	57	6,263	19
31	045		19			19		2,069	2,339	38	289	19
31	047	4,999	25			19		4,865	9,731	118	4,885	
31	049		19					493	512		19	
31	051		19					665	703		38	
31	053	2,499	99			34		9,851	14,057	38	4,229	38
31	055	3,282	537	131	249	2,683	99	231,529	265,032	731	33,836	1,152
31	057	19						546	584		38	
31	059		19					1,203	1,557		354	
31	061							595	633		38	19
31	063	19	19					576	633		76	
31	065	19	19			19		1,158	1,387		229	
31	067	19	23		99	19		5,474	7,966	38	2,492	99
31	069		19					390	409		19	
31	071		19					565	740		175	
31	073							195	271		76	
31	075							140	140			
31	077	19	19					486	642		156	19
31	079	2,499	99	19		61		18,219	27,563	118	9,398	49
31	081		8					1,623	2,753	19	1,130	38
31	083	19						640	758		118	

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Appendix E-1. Employment Values Used for County Allocation 17 [1]

State FIPS	County FIPS	A	B	C	D	E	F	G	H	I	J	K
31	085	19						171	228		57	
31	087							392	392		19	
31	089		19	19		19		2,603	2,926	19	323	19
31	091	19	19					277	315		38	
31	093	19						717	812		95	
31	095		19			19		1,940	3,124		1,184	
31	097		19					961	1,536	38	575	19
31	099		19			19		1,332	1,652		320	
31	101	19	19			19		2,347	3,243	19	915	
31	103							133	171		38	
31	105		19			19		1,056	1,598	38	542	19
31	107	19	19					1,350	1,426	19	76	
31	109	19	203	99		1,183	249	89,516	108,967	292	19,544	522
31	111	99	99			19		8,612	9,306	57	732	19
31	113							151	189		38	
31	115							95	95			
31	117							76	76			
31	119	2,499	52	19		110		12,492	18,395	38	5,960	7
31	121	19	19					1,396	2,127		731	19
31	123	19	19					687	744		57	
31	125		19					458	477		19	
31	127		19					1,339	1,894		574	19
31	129		19					1,325	1,458		133	19
31	131	19	19		19	249		3,113	5,151	19	2,076	19
31	133	19	19					369	487		137	
31	135	19	19					763	858		95	
31	137		19			19		2,557	4,229		1,710	19
31	139	19	19					1,466	1,622		175	19
31	141	19	99			99		7,534	15,691	137	8,182	19
31	143	19	19					830	967		137	19
31	145	19	19			12		3,781	4,741	19	979	
31	147	19	19			19		1,845	2,318	19	492	
31	149		19					508	565		57	
31	151	2,499	19			19		2,642	5,573		2,950	
31	153	99	99		19	249		19,943	22,381	70	2,459	102
31	155		19		19	19		2,234	3,124		909	19
31	157	249	34	19		6	19	9,839	11,683	38	1,882	110
31	159	19	15			19		3,679	6,413	25	2,734	19
31	161		19			19		1,189	1,265		76	
31	163		19					483	597		114	
31	165							133	152		19	
31	167		19					571	647		76	
31	169	19	19					1,339	2,070		731	
31	171							260	298		38	
31	173	19						1,293	1,915		622	
31	175	19	19			19		1,081	1,256		175	
31	177		19			19		3,941	5,534	38	1,631	

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D = Petroleum Bulk Stations and Terminals; SIC Code =5171

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1 = data from the U.S. Census Bureau's 1999 County Business Employment

Appendix E-1. Employment Values Used for County Allocation 17 [1]

State FIPS	County FIPS	A	B	C	D	E	F	G	H	I	J	K
31	179	19	19			99		1,929	4,568	19	2,639	19
31	181		19					572	667		95	
31	183							146	165		19	
31	185		19	19		38		4,714	6,457	38	1,762	
32	001	19	99			19		3,945	4,681	38	755	99
32	003	19	970	180	19	1,637	249	474,942	498,376	1,693	24,140	1,874
32	005		19			99	99	13,874	17,852	31	4,023	118
32	007		99	19		19		12,746	13,351	137	643	118
32	009							83	182		99	
32	011							237	275		38	
32	013		19			19	19	3,418	4,072	19	673	19
32	015							951	1,069		118	
32	017							602	621		19	
32	019		19			249	19	3,713	6,094	19	2,381	19
32	021		19					877	915		38	
32	023	19	19					3,538	4,085		598	19
32	027		19					747	842		95	
32	029							561	580		19	
32	031	19	450	99		1,259	63	127,972	141,463	329	13,885	497
32	033		19			19		1,671	1,766	19	114	
32	510		99	19		67		17,704	22,272	118	4,606	145
33	001		19	19		99		15,500	20,568	109	5,082	268
33	003		33	19		99		15,359	17,852	118	2,531	118
33	005		51			249	19	19,344	26,417	118	7,130	227
33	007		17			38		8,239	12,016	38	3,834	118
33	009		99	19		999		40,459	49,514	237	9,112	302
33	011		321	183		1,117	77	120,997	159,606	1,438	38,906	633
33	013		249	19		995	19	39,058	49,822	100	10,819	145
33	015		285	19	19	994	99	88,748	107,403	435	18,918	716
33	017		99	19		280	99	27,226	36,412	175	9,224	215
33	019		99	19		249		7,172	12,924	38	5,771	19
34	001		87	19		249		106,209	111,862	223	5,829	328
34	003		849	183	99	3,428	199	352,557	414,985	1,207	63,228	2,333
34	005		499	19	19	1,847	67	125,083	147,758	239	22,940	1,177
34	007		321	180		2,392	99	141,499	164,661	773	23,497	733
34	009		99	19		249		21,253	22,613	118	1,527	59
34	011	99	249	19		249	19	27,996	41,095	275	13,207	101
34	013	99	688	113		2,164	321	241,640	280,651	1,753	39,355	1,336
34	015		149	19		910	49	53,157	65,094	440	12,138	265
34	017	28	421	65		2,071	99	148,523	173,532	458	25,300	250
34	019		117	19	19	99	19	29,778	35,054	165	5,411	83
34	021	19	182	99	99	1,030	99	135,104	148,345	519	13,482	634
34	023	19	505	62	19	3,208	99	279,053	332,852	1,189	54,380	1,674
34	025	19	549	70	19	720	19	160,021	174,319	740	14,754	1,782
34	027	99	427	104	19	2,394	19	218,262	251,879	575	33,978	896
34	029		229	99	19	267	19	86,676	94,624	269	8,191	742
34	031	99	378	42		1,545	162	115,903	148,358	802	32,772	456

To calculate allocation proportion of national emissions to county, divide number of county employees within an industry category by total (national) number of employees in that category

A = Animal Services, except veterinary; SIC Code =0750

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1 = data from the U.S. Census Bureau's 1999 County Business Employment

Appendix E-1. Employment Values Used for County Allocation 17 [1]

State FIPS	County FIPS	A	B	C	D	E	F	G	H	I	J	K
34	033	99	19		19	249		12,373	17,273	38	4,954	111
34	035	99	249	99	19	499	19	124,422	143,802	336	19,623	472
34	037	19	99	19	19	99		21,729	24,652	96	3,197	190
34	039	19	590	109	19	2,694	478	145,954	188,996	833	43,377	771
34	041		87	99		134	99	21,780	29,802	127	8,030	115
35	001	19	655	249	99	930	99	194,384	219,601	914	25,508	1,133
35	003							437	494		57	
35	005	99	99		99	36	19	11,027	13,876	217	2,967	38
35	006		8		19			4,469	5,410	38	960	
35	007		19		19	19		3,553	4,401	38	848	38
35	009	19	20	19		11		9,465	10,034	95	609	99
35	011		19					431	469		38	
35	013		99	19		99		27,580	30,923	205	3,400	85
35	015	19	99		99	19		9,760	14,685	40	4,963	13
35	017		19	19		10		5,005	5,614	38	628	38
35	019							989	1,008	19	19	
35	021					19		95	114		19	
35	023					19		1,005	2,061	19	1,056	19
35	025		28		54	99		9,769	11,262	198	1,535	36
35	027		22		19	19		3,931	4,338	38	426	99
35	028		19	19		19		5,995	6,326	38	350	99
35	029		19		19	19		2,802	3,316	38	533	19
35	031		19		38	29		12,233	13,415	198	1,201	19
35	033							488	545		57	
35	035		19	19		22		9,994	11,114	137	1,177	99
35	037	99	19			19		1,848	2,160	19	312	
35	039		1		99			5,563	6,130	6	567	
35	041	19	19		19			2,201	2,692	32	510	19
35	043		99	19		19		11,948	18,043	30	6,213	170
35	045	19	35		82	99	19	21,316	23,654	172	2,399	112
35	047		19			19		4,618	5,048	38	449	
35	049		97	19	19	249		37,522	39,910	255	2,510	251
35	051							1,684	1,939	19	293	19
35	053		19		19	19		2,603	2,915		312	
35	055		16			12		7,044	7,632	38	591	99
35	057				19			1,827	2,078	19	251	
35	059		19					649	725		76	
35	061		99		19	10		6,379	8,358	38	2,017	19
36	001		216	59		649	19	141,061	152,891	540	11,947	515
36	003		99			19	19	8,545	12,119		3,593	19
36	005	99	370	11		343	249	167,034	179,967	978	13,279	518
36	007	19	127	99	19	906	249	54,312	73,869	83	19,774	338
36	009	19	32	19		71		16,831	25,249	94	8,456	118
36	011	99	37	19		99		12,822	17,421	61	4,637	213
36	013	19	54	99	19	175	99	29,686	44,598	120	14,953	232
36	015		19	19	19	1,030	99	23,436	33,231	118	9,849	118
36	017		19			249		7,436	13,089	38	5,691	

To calculate allocation proportion of national emissions to county, divide number of county employees within an industry category by total (national) number of employees in that category

A = Animal Services, except veterinary; SIC Code =0750

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1 = data from the U.S. Census Bureau's 1999 County Business Employment

Appendix E-1. Employment Values Used for County Allocation 17 [1]

State FIPS	County FIPS	A	B	C	D	E	F	G	H	I	J	K
36	019		99	19		249		15,869	22,327	207	6,496	118
36	021		31			99		11,641	14,513	19	2,929	118
36	023	19	19	19		84		11,723	16,154	57	4,450	117
36	025		99			2,499		7,567	14,721	38	7,192	19
36	027	19	259	36	19	499	19	64,813	79,096	236	14,506	849
36	029		726	318	19	4,046	242	289,296	355,984	1,397	67,015	1,198
36	031		7	19		19		7,724	9,678	57	1,992	118
36	033		8			19		8,287	10,506	118	2,257	118
36	035		19			99		8,257	12,831	287	4,593	99
36	037		17	19		371	99	11,371	16,066	44	4,733	99
36	039	19	99		19	19		8,019	9,624	37	1,643	118
36	041		19					786	906		120	19
36	043		19	19	19	19	99	8,243	14,125	37	5,920	99
36	045	19	99	19		19		19,372	24,804	118	5,569	38
36	047	12	679	248		1,564	314	331,377	378,395	1,579	47,491	1,283
36	049	19	19		19	249		2,998	5,102	19	2,104	19
36	051	19	99		19	355	19	9,172	12,371	31	3,317	21
36	053	19	16			20	19	15,293	19,022	34	3,767	36
36	055	19	445	219	19	2,232	185	256,811	337,451	979	80,853	2,006
36	057	19	99	19		451	19	9,667	15,171	78	5,542	60
36	059	19	1,299	412	19	3,735	123	447,577	488,598	2,460	41,831	2,646
36	061	19	176	115	19	9,396	99	1,752,212	1,871,079	2,307	120,043	9,285
36	063	19	249	19		296	176	41,799	64,973	158	23,338	199
36	065	99	156	249	19	999	99	62,531	80,188	375	17,806	140
36	067		334	18	19	1,228	413	166,064	204,203	1,002	38,339	575
36	069		67		19	249	19	27,652	36,271	118	8,693	276
36	071		298	31	19	256	19	70,342	81,529	495	11,361	573
36	073		99			99	99	5,084	7,639	19	2,612	118
36	075	19	99			249		15,902	22,194	45	6,330	215
36	077	19	99	19		99		16,486	18,572	57	2,124	19
36	079		99	19	19	99		14,458	16,978	217	2,561	116
36	081	8	719	241		3,687	330	294,865	349,404	2,079	55,345	1,520
36	083	99	91	19	19	315		32,668	38,582	256	6,190	32
36	085		206	99		249	19	68,335	71,700	219	3,628	776
36	087		249	36	19	141		75,273	86,559	290	11,478	872
36	089	19	99	19		126		20,748	29,228	37	8,504	38
36	091	19	92	19		2,499		41,560	51,385	221	9,882	342
36	093	19	98	19	19	249		37,183	43,859	513	6,813	214
36	095	19			19	19		3,824	5,744	38	1,920	19
36	097		19		19	19		2,163	3,279		1,135	19
36	099		6	99		99	19	5,589	9,473	38	3,903	38
36	101		99	19	99	99		22,259	33,794	43	11,535	249
36	103	99	1,328	268	99	4,713	237	366,920	440,757	1,371	74,683	2,129
36	105		99			99		15,505	16,845	38	1,390	49
36	107		15			19		5,644	11,999	99	6,374	19
36	109		19	99	19	499		43,533	49,771	119	6,280	251
36	111		99	99		999	99	34,819	41,920	273	7,309	155

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Appendix E-1. Employment Values Used for County Allocation 17 [1]

State FIPS	County FIPS	A	B	C	D	E	F	G	H	I	J	K
36	113		99	19		249	19	25,094	31,254	114	6,217	213
36	115	19	19			50		5,449	9,716	26	4,305	19
36	117		99			249		13,304	21,169	42	8,002	118
36	119	19	774	204		1,131	99	309,493	333,849	1,221	24,822	2,642
36	121	22	44		19	226	19	5,369	8,443	38	3,093	38
36	123	19	19			19		4,572	5,797	38	1,343	
37	001	99	99	11		999		31,221	52,392	434	21,240	212
37	003	99	99	19				3,318	9,249	38	5,950	19
37	005		19			99		1,549	3,763	38	2,214	19
37	007		19			19		2,554	6,073	38	3,557	19
37	009		19			19		2,812	6,085	19	3,273	19
37	011		19					4,622	5,913	19	1,310	19
37	013	99	99	19		19		8,774	16,841	58	8,132	99
37	015		19			99		2,379	6,477	99	4,155	99
37	017	4,999	19					4,164	11,872	118	7,765	19
37	019		99	19		16		10,762	15,573	48	4,877	19
37	021		166	68		999	99	67,131	86,093	501	19,108	265
37	023		99	19		99		14,565	33,485	46	19,038	28
37	025	19	132	20		249		29,236	43,356	144	14,185	180
37	027		99	19		999		11,903	27,210	74	15,444	38
37	029		19					785	994		228	
37	031	19	99	19		67		14,225	16,887	198	2,818	84
37	033		19			19		1,273	1,919	38	646	19
37	035	19	85	9		391	19	44,848	87,930	441	43,181	204
37	037	19	23	19		19		5,474	13,481	38	8,064	118
37	039		19			19		4,128	11,781	38	7,672	38
37	041		19			19		2,925	4,921	38	1,996	
37	043		19	19				1,245	1,768	19	523	19
37	045		99	99	19	124		17,971	32,895	86	15,012	118
37	047		23	19		99		8,949	15,103	47	6,173	19
37	049		129	19		64	99	19,678	26,103	142	6,597	92
37	051	99	151	15		271	19	65,163	81,710	729	16,763	350
37	053		19	19		19		2,250	2,520		289	19
37	055		19			29		10,099	10,785	38	722	31
37	057		99	19	19	499		20,617	40,695	100	20,135	99
37	059		19	19		99		4,795	10,401	118	5,606	99
37	061	19	18	19		99		6,745	11,361	45	4,654	19
37	063	19	128	99		1,035		122,209	156,774	585	34,741	507
37	065		19	19		146		7,589	15,367	134	7,915	38
37	067		176	99	19	1,135	99	128,450	158,171	715	30,003	485
37	069		19			19		4,798	7,726	118	2,947	38
37	071		158	19		999	105	38,069	71,414	295	33,527	161
37	073		19					891	1,376		485	
37	075		19					930	2,104	38	1,174	19
37	077		99	19		8		6,390	14,831	118	8,460	38
37	079							1,746	2,311	19	603	19
37	081	499	214	61	19	3,448	82	177,492	231,401	1,070	54,329	894

To calculate allocation proportion of national emissions to county, divide number of county employees within an industry category by total (national) number of employees in that category

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Appendix E-1. Employment Values Used for County Allocation 17 [1]

State FIPS	County FIPS	A	B	C	D	E	F	G	H	I	J	K
37	083		99			38		10,173	14,332	135	4,178	99
37	085		99	19		499		13,129	21,492	66	8,401	19
37	087		14	19		34		10,572	15,103	137	4,577	22
37	089		99	99		35		17,536	27,715	93	10,316	268
37	091		99			78		5,330	7,749	118	2,438	19
37	093		19			19		2,127	8,016	38	5,908	19
37	095			19				780	1,060		280	
37	097	99	99	19	99	249	19	26,342	45,107	410	18,826	252
37	099		6	19		19		6,092	7,207	118	1,172	99
37	101	99	99			48		17,415	25,120	47	7,824	38
37	103		19			19		863	1,335		472	
37	105		99			81	19	11,684	27,245	96	15,599	93
37	107		99	99		19		16,928	24,984	128	8,075	38
37	109		20	19		99	19	8,904	17,185	140	8,399	99
37	111	19	19			19	99	5,676	15,630	38	9,992	38
37	113		27			19		6,135	8,895	38	2,817	70
37	115		19			249		2,657	3,991	19	1,334	
37	117	19	19					3,817	6,166	38	2,387	19
37	119	19	610	184	19	3,288	163	359,860	401,769	2,230	42,501	1,074
37	121		19			99		2,591	4,997	38	2,425	99
37	123	19	19			99		3,187	10,636	38	7,468	19
37	125	19	40	19		83	99	20,347	25,833	88	5,555	70
37	127	249	117	19		99		25,966	37,576	367	11,675	99
37	129		175	99		262		56,579	66,552	544	10,258	476
37	131			19				1,885	2,812		946	19
37	133		249	19		22		21,744	25,496	281	3,936	91
37	135		99	9		215		30,262	32,399	140	2,156	377
37	137		19			19		1,861	2,261	19	518	19
37	139		19	19		15		8,723	10,300	198	1,695	99
37	141		19					3,483	5,012	38	1,567	99
37	143							1,205	1,517	38	312	19
37	145		19	19		18		4,964	11,665	57	6,739	19
37	147		72	38		130	99	36,643	48,950	228	12,500	242
37	149		19	19		19	19	2,732	4,187	19	1,474	38
37	151	99	249	19		229	99	18,206	42,658	111	24,593	118
37	153		99	10		19		8,058	13,360	118	5,340	19
37	155	99	99	19		19		18,013	31,276	75	13,341	116
37	157		99	19	99	568	19	14,658	28,773	175	14,161	99
37	159		99	19		149		26,625	42,941	174	16,386	84
37	161	19	17	19		145		9,502	21,476	19	12,092	99
37	163	2,499	99	19		19		7,981	12,790	217	4,828	118
37	165		8			21		9,737	20,360	118	10,642	99
37	167	19	19	19		99		10,003	18,689	118	8,726	249
37	169	19	19			75		2,924	5,361	19	2,456	19
37	171		46	19	19	207		14,062	28,789	160	14,765	38
37	173		19					4,618	5,339	118	721	19
37	175		19			19		5,789	12,168	38	6,417	99

To calculate allocation proportion of national emissions to county, divide number of county employees within an industry category by total (national) number of employees in that category

A = Animal Services, except veterinary; SIC Code =0750

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F = Plating and Polishings; SIC Code = 3471

G = COMM (seeAppendix C)

H = COMMIND (see Appendix C)

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J = IND (see Appendix C)

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1 = data from the U.S. Census Bureau's 1999 County Business Employment

Appendix E-1. Employment Values Used for County Allocation 17 [1]

State FIPS	County FIPS	A	B	C	D	E	F	G	H	I	J	K
37	177		19					476	552		76	19
37	179	19	99	19		509	19	16,642	32,043	198	15,620	99
37	181		99	19		110		9,012	14,853	118	5,879	106
37	183		485	67		1,457	131	241,464	268,484	1,081	27,521	2,498
37	185		19			19		1,428	3,007	38	1,598	38
37	187		19			19		1,687	4,812	38	3,144	
37	189	19	99	19		58	19	13,129	14,975	118	1,884	79
37	191	99	42	19		69		24,823	35,325	517	10,639	99
37	193	19	99	5		76		12,370	23,601	198	11,303	38
37	195	499	99	19		158		19,006	31,455	367	12,567	62
37	197	19	19	19		19		4,364	9,025	19	4,699	19
37	199		19			19		1,933	3,669	38	1,736	38
38	001	19	19					828	904	19	76	
38	003		19			19		3,274	4,014		759	38
38	005							1,426	1,799		373	
38	007							197	197			19
38	009		19				19	1,476	1,788		312	
38	011		19			19		926	1,059		133	
38	013							326	345		19	
38	015		68	19	99	249		28,211	30,711	99	2,548	47
38	017	19	213	249	19	388	19	56,149	63,753	186	7,652	175
38	019		9			19		1,118	1,194	19	76	
38	021	19	19			19		1,792	2,047	19	255	
38	023							906	963	19	57	19
38	025		19		19			672	790		118	
38	027	99	19					461	598		137	
38	029	19	19					1,301	1,396		95	
38	031		9		19			1,083	1,658	19	594	
38	033	19	19					571	609		38	
38	035		67	19		60	19	21,571	24,355	118	2,822	54
38	037	19	19					473	610		137	
38	039		19					1,144	1,399		255	19
38	041		19					443	519		76	
38	043							414	471		57	19
38	045	19	19					759	967		208	
38	047		19					531	569		38	
38	049		19					482	619		137	
38	051		19		19	19		1,004	1,259		255	
38	053		11		19			698	1,042	19	344	
38	055	19	8			99		1,332	1,507		194	
38	057		19					1,581	1,832		251	19
38	059	19	19		19	99		5,107	6,360	19	1,272	99
38	061	19	19					1,395	1,551		175	
38	063		19					748	866	19	118	
38	065							245	264		38	
38	067		19	19				1,645	3,448		1,803	19
38	069							1,400	1,537	19	137	19

To calculate allocation proportion of national emissions to county, divide number of county employees within an industry category by total (national) number of employees in that category

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Appendix E-1. Employment Values Used for County Allocation 17 [1]

State FIPS	County FIPS	A	B	C	D	E	F	G	H	I	J	K
38	071		19			19		4,052	4,616	19	564	38
38	073		19					1,142	1,515		373	19
38	075		19					675	751		95	
38	077	19	15			99	99	3,514	7,360	38	3,865	
38	079		19			19		2,947	3,489	19	542	
38	081	19				99		592	3,346	19	2,754	19
38	083							338	376		38	
38	085							1,131	1,131			
38	087							95	95			
38	089	19	99			14		6,353	7,650	99	1,316	19
38	091		19					309	503		194	
38	093		99	19	19	99		6,789	9,302	38	2,532	118
38	095		19					728	1,133		405	
38	097		19					1,851	2,502		651	
38	099		99					2,946	3,875	19	929	11
38	101	99	99	19		59		19,788	21,226	118	1,461	101
38	103		19					1,322	1,408		105	
38	105	19	99	19	19	19		5,816	6,231	118	453	99
39	001		19					3,514	5,177	19	1,663	
39	003	19	99	19		150	499	35,218	46,288	280	11,089	114
39	005	99	19			249		11,068	20,142	57	9,093	249
39	007	19	99			249	99	17,191	28,678	72	11,525	149
39	009	19	17	19	99	249		10,753	13,324	50	2,571	19
39	011		99			112	19	8,476	17,113	217	8,656	25
39	013	19	99	19		20	19	15,223	18,020	71	2,816	99
39	015	19	14	19		19		4,282	6,000	38	1,756	99
39	017		271	19		681	52	73,084	95,202	371	22,264	346
39	019		13	19	19	499		2,853	5,002	99	2,206	
39	021		99			29		5,273	10,395	38	5,240	38
39	023		249	19	19	249	249	32,562	46,383	261	13,877	154
39	025		249	19		499	19	33,164	41,877	367	8,856	111
39	027		19			121		9,885	15,954	38	6,088	38
39	029	99	76	19	19	499		17,895	27,588	118	9,968	31
39	031		19	19	19	392		7,018	13,947	118	6,986	38
39	033	19	19			157	99	7,878	15,146	38	7,287	118
39	035	19	1,400	433	19	5,925	1,940	568,761	689,145	2,674	121,708	1,774
39	037	19	99			9		9,410	17,359	38	7,987	99
39	039	19	28		99	99	99	9,614	18,681	137	9,067	
39	041		99			553		29,206	36,741	82	7,592	56
39	043	499	45	19		170	99	19,615	30,984	166	11,419	249
39	045	19	249	19	249	999	249	21,021	27,830	254	6,868	118
39	047		19		19	19		5,992	9,350	38	3,377	19
39	049	99	811	201	249	3,182	252	476,155	532,715	2,083	57,052	2,296
39	051	19	99			84	99	7,863	19,724	38	11,960	32
39	053	99	19			19		6,981	8,692	38	1,730	19
39	055	19	104	19		99	19	15,554	29,674	72	14,178	200
39	057	99	69	19		426	19	37,683	42,996	128	5,450	305

To calculate allocation proportion of national emissions to county, divide number of county employees within an industry category by total (national) number of employees in that category

A = Animal Services, except veterinary; SIC Code =0750

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Appendix E-1. Employment Values Used for County Allocation 17 [1]

State FIPS	County FIPS	A	B	C	D	E	F	G	H	I	J	K
39	059		19		99	99		7,805	11,360	125	3,612	118
39	061	99	661	115	19	5,279	323	397,114	477,043	1,840	80,562	1,533
39	063	19	99	19	99	49	19	23,375	37,306	118	13,969	118
39	065		19			19	19	6,287	9,802	38	3,534	38
39	067		15			99		1,985	2,995		1,010	19
39	069	19	26			19		4,322	9,851	118	5,529	19
39	071	19	19			351	19	5,855	11,681	18	5,826	19
39	073	19	19	19	19			3,527	5,535	38	2,027	99
39	075	82	40			99		6,258	12,089		5,869	19
39	077		52		19	2,499		10,521	22,826	57	12,324	19
39	079		19			19		6,244	11,207	38	4,982	19
39	081		26			70	99	16,109	22,512	118	6,458	99
39	083	19	99		19	146		10,322	16,133	50	5,868	38
39	085		344	7		999	170	60,210	88,012	320	27,982	314
39	087		35		19	19		7,410	10,208	22	2,855	19
39	089	19	55	19	19	499	499	31,113	41,797	151	10,741	240
39	091		99			27		11,771	20,694	118	8,961	38
39	093		249	99	19	499	99	58,414	86,366	220	28,298	463
39	095		259	189	99	1,226	415	164,593	197,410	1,484	33,101	707
39	097			19		99		6,550	10,805	19	4,274	
39	099	19	194	17		999	143	70,351	84,980	362	14,774	459
39	101	19	34	19		125		15,862	25,659	130	9,835	60
39	103		131	10	99	575	156	34,579	46,524	156	11,985	151
39	105		12	19		19		2,096	2,465	19	388	19
39	107		20			999	19	8,045	12,164	38	4,119	99
39	109	19	106	19		499	99	20,883	36,433	110	15,607	79
39	111				19	19		1,381	4,310		2,948	19
39	113	19	366	232		3,240	529	198,455	258,254	1,676	65,217	651
39	115		19					1,336	2,503	19	1,167	
39	117	19	19				99	2,657	5,680	19	3,042	19
39	119	99	34	19	19	54		21,044	33,072	184	12,151	123
39	121				19			1,455	3,001		1,546	
39	123	19	11			249		6,789	10,492	38	3,782	106
39	125	19	99		19	19		2,098	4,306	38	2,227	19
39	127	19	19		19	19		2,900	5,293	19	2,412	118
39	129	19	24		19	22		6,512	13,438	38	6,964	19
39	131		19					3,954	9,815	19	5,861	19
39	133		249	19		1,155	249	27,608	41,968	111	14,408	62
39	135		39					5,216	9,786	38	4,570	38
39	137		24			100		4,912	10,192	38	5,318	19
39	139		103	19	99	499		33,958	50,482	159	16,569	177
39	141		99	19		61	19	15,563	22,777	49	7,271	118
39	143		37		99	108	19	12,296	24,423	214	12,165	99
39	145	19	99		19	34		14,345	17,569	41	3,353	118
39	147	19	99	19	16	249		11,612	19,636	118	8,043	225
39	149	19	99			499	249	10,475	24,320		13,883	19
39	151	99	256	34		1,514	499	103,746	145,789	908	42,314	727

To calculate allocation proportion of national emissions to county, divide number of county employees within an industry category by total (national) number of employees in that category

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Appendix E-1. Employment Values Used for County Allocation 17 [1]

State FIPS	County FIPS	A	B	C	D	E	F	G	H	I	J	K
39	153	19	510	145	19	2,248	280	175,128	218,987	701	44,166	532
39	155	99	200	37		499	99	47,825	77,769	173	30,076	203
39	157	99	60	22	19	166	19	20,286	30,623	46	10,394	65
39	159		89			19		10,231	24,343	34	14,112	19
39	161		19			6	99	6,177	11,673	19	5,515	99
39	163		19		19			978	2,292	19	1,333	
39	165	19	99	19	99	750	99	35,829	50,203	498	14,502	99
39	167		99	19		249		13,280	19,440	137	6,208	99
39	169	99	24	19	99	141	19	23,205	40,792	50	17,705	118
39	171	19	50			19	19	7,559	17,646	118	10,087	117
39	173		46	19	19	499	99	27,336	42,546	150	15,347	127
39	175		16					3,776	8,591	137	4,815	
40	001		19			19		1,490	3,450	19	1,960	
40	003		19					904	1,140		255	
40	005		19		19	19		1,845	2,543		717	
40	007		19		61			620	837	19	217	
40	009	19	19	19	48	19		4,994	5,455	14	461	19
40	011	19	19	19		19		1,917	2,888		971	
40	013	249	12		19	19		8,233	10,464	118	2,250	19
40	015	19	7		99	19		3,448	4,242	38	794	19
40	017		99	19	99	115	19	10,416	13,421	137	3,062	24
40	019		42	19	99	99		10,768	15,080	64	4,366	19
40	021	19	19	19		99		7,885	8,380	28	533	118
40	023		19		19	19		2,840	3,110	19	289	
40	025				19			610	667	19	57	
40	027	19	249	99	99	169	19	36,596	41,889	269	5,415	136
40	029							635	1,233		598	
40	031	99	99	19		99		21,931	26,822	283	4,943	102
40	033		19					642	718		76	
40	035		19					3,706	4,907		1,239	
40	037		99		99	99		9,066	13,983	38	5,054	38
40	039	19	15		99	169		5,999	7,743	137	1,782	99
40	041		19	19		19	99	4,632	5,795	38	1,201	19
40	043	19			76			532	783		251	
40	045		19		19			652	766	19	114	
40	047	19	57		99	36		15,074	17,392	137	2,369	73
40	049		17		99	30		3,740	5,946	19	2,206	
40	051	19	28	19	19	15	19	6,541	10,066	118	3,563	22
40	053	19			19			663	834		171	
40	055							606	724	19	118	
40	057				19			567	643		76	
40	059	19			19			536	574		38	
40	061	99	19		99			1,677	2,012	38	354	
40	063	19	19					1,804	1,927		123	19
40	065		19			19		6,214	7,754	19	1,578	19
40	067		19		19			642	1,127	19	504	
40	069							973	2,227	19	1,254	

To calculate allocation proportion of national emissions to county, divide number of county employees within an industry category by total (national) number of employees in that category

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Appendix E-1. Employment Values Used for County Allocation 17 [1]

State FIPS	County FIPS	A	B	C	D	E	F	G	H	I	J	K
40	071		99	19	99	15		10,740	16,222	118	5,581	53
40	073	19	19		19	19		2,658	3,674	19	1,035	
40	075		19	19	19			1,698	2,391	19	693	
40	077							931	1,336	19	405	
40	079	19	19	19		99		6,029	7,750	118	1,740	5
40	081	19	19			19		3,598	4,424	19	845	19
40	083	19	19		19	19		3,881	4,668	19	806	19
40	085							1,134	1,926		792	
40	087	19	19					3,238	4,057	19	857	19
40	089		19	19	19	19		4,474	9,402	48	4,939	38
40	091	19	19			19		2,722	3,462		778	
40	093	19				19		1,315	1,758		443	
40	095	19	19					1,766	4,216	19	2,450	
40	097	99	19			12		5,721	10,208	26	4,487	19
40	099	19	19	19	19			1,700	1,970		270	19
40	101	6	99	19	99	47	19	15,972	22,983	118	7,148	56
40	103		19			19		1,768	4,464	19	2,696	
40	105	19				99		1,261	1,752		491	
40	107		19			19		1,861	2,384		523	
40	109	19	724	96	573	2,009	99	250,925	294,243	2,013	43,771	1,302
40	111		19		99			5,292	6,932	38	1,659	
40	113	19	19	19		19		2,853	4,552	38	1,718	19
40	115	19	99			99		5,274	8,025	71	2,789	19
40	117		19		19	19		2,334	2,878	19	582	
40	119	99	99	19	99	461		16,656	20,372	85	3,739	118
40	121	19	99	19	19	19		8,232	9,755	118	1,561	
40	123		99			16		8,543	11,288	217	2,802	38
40	125		99	19	99	15		12,970	19,263	99	6,350	99
40	127		19			19		1,427	1,817		390	
40	129				19			599	637		38	
40	131	19	99	19	99	54		9,038	14,702	118	5,688	38
40	133	19	5	19	19			3,477	5,500	19	2,042	
40	135		19	19				5,160	5,900	26	797	
40	137	19	99	19	19	19		8,553	10,904	118	2,351	19
40	139	2,499	19		19	99		3,328	6,329	38	3,020	19
40	141	19			19	19		985	1,716	19	750	
40	143	19	664	223	999	2,499	333	223,289	268,638	1,463	45,798	1,035
40	145		19			19	19	4,682	6,759	38	2,101	19
40	147	19	99		19	249	19	16,251	18,199	217	2,009	99
40	149		19			19		1,352	1,795	19	481	
40	151		19		30			1,977	2,262	19	285	
40	153	19	19	19	51	19		4,495	5,334	19	858	19
41	001		19	19		19		2,911	3,882	38	971	
41	003	19	99	99		249		17,911	31,270	137	13,407	155
41	005	19	325	46		499	99	78,556	96,723	295	18,368	561
41	007		99	19		19		8,451	10,064	99	1,632	
41	009		99			19	19	4,509	9,121	38	4,650	89

To calculate allocation proportion of national emissions to county, divide number of county employees within an industry category by total (national) number of employees in that category

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Appendix E-1. Employment Values Used for County Allocation 17 [1]

State FIPS	County FIPS	A	B	C	D	E	F	G	H	I	J	K
41	011		34	19		31		12,607	15,577	57	3,002	89
41	013		19			19		2,407	4,504	38	2,097	19
41	015		99			19		3,526	5,248	19	1,741	19
41	017	19	99	31	99	249	99	30,544	36,557	217	6,069	406
41	019	19	45	19		43		20,048	28,683	217	8,773	248
41	021							319	644		344	
41	023		19					1,075	1,529	38	473	19
41	025		19					1,125	2,278	19	1,153	38
41	027	19	99	19		32		5,694	7,105	19	1,411	99
41	029	19	249	34		999	29	44,510	52,850	112	8,412	402
41	031	19	19			19		2,093	5,699	19	3,625	
41	033		36	19		99	19	12,258	15,826	55	3,705	129
41	035	249	54	19	19	64		12,934	16,979	217	4,064	118
41	037	19	19					992	1,420		447	
41	039	19	302	52		676	249	83,262	107,048	371	24,040	650
41	041		19	19		99		11,686	13,777	38	2,148	109
41	043	19	99	19		54	19	19,050	31,564	99	12,640	189
41	045	19	99	19		17		6,498	9,359	38	2,899	19
41	047	19	227	99		499	19	67,642	81,325	114	13,849	409
41	049		19					1,088	2,281		1,212	
41	051	99	860	232	196	3,618	289	293,508	346,536	1,351	53,568	1,790
41	053	19	99	19				9,139	12,734	118	3,633	69
41	055							301	320		19	
41	057	19	19			19		4,138	5,904	19	1,804	
41	059	19	52	19		99		13,361	18,733	43	5,422	88
41	061	19	99	19		19		5,160	7,798	38	2,695	19
41	063		19	19		19		1,107	1,607	19	500	19
41	065	19	19	19		19		6,449	8,065	38	1,616	99
41	067		502	99		1,460	99	149,756	188,506	255	38,941	1,054
41	069							183	221		38	
41	071	99	65	19		249		15,984	24,086	55	8,140	70
42	001	99	68		19	993	19	17,173	25,782	287	8,666	153
42	003	19	954	106	249	3,394	117	540,565	601,464	1,769	61,561	2,025
42	005	99	99			19		10,582	14,217	118	3,772	31
42	007	19	99	19	19	391		32,413	43,723	167	11,399	54
42	009		19		19	19		8,716	16,005	38	7,301	38
42	011	99	189	27	19	1,485	185	90,574	132,063	620	41,659	579
42	013	19	142	99	19	499	19	35,238	46,172	204	11,071	270
42	015	999	99	19	19	249		11,638	20,502	19	8,883	118
42	017	249	635	127		3,469	60	170,649	213,809	686	43,534	1,528
42	019	19	249	19		499	99	37,676	54,542	129	17,003	279
42	021	19	99	19	19	249		37,451	46,706	137	9,392	245
42	023		19		19			849	3,759		2,910	
42	025		38	19		19		9,204	13,226	38	4,022	124
42	027	19	77	10		710		31,075	40,266	210	9,313	249
42	029	249	438	16	114	1,158	19	137,943	160,180	720	22,478	856
42	031	19	99			10		8,591	11,996	38	3,424	19

To calculate allocation proportion of national emissions to county, divide number of county employees within an industry category by total (national) number of employees in that category

A = Animal Services, except veterinary; SIC Code =0750

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Appendix E-1. Employment Values Used for County Allocation 17 [1]

State FIPS	County FIPS	A	B	C	D	E	F	G	H	I	J	K
42	033		99	19	99	40		18,292	24,343	217	6,089	57
42	035	99	19		99	63		6,224	10,754	19	4,530	99
42	037	19	99			999	99	13,086	22,046	38	9,017	118
42	039	19	99			53	99	17,422	27,012	137	9,647	46
42	041	19	157	63		2,499		81,319	98,232	418	17,122	306
42	043		111	97	99	550	19	104,721	122,451	288	17,867	316
42	045		654	107		895	99	174,502	197,221	590	23,122	1,533
42	047		19			19	99	6,257	15,305	12	9,067	60
42	049	19	193	99	19	416	354	77,182	112,569	271	35,457	794
42	051		99	99	99	295		24,635	29,761	77	5,171	123
42	053				19			1,338	1,762		424	
42	055	19	249	19	99	999		26,018	39,447	60	13,478	252
42	057		19			19		1,832	7,261	38	5,429	19
42	059		43		99	19		5,057	6,434	19	1,415	19
42	061		19	19	19	99		6,686	10,739	38	4,072	19
42	063	19	52	19	25	249		17,917	21,798	118	3,919	215
42	065	19	99	19	99	18	99	7,176	13,020	38	5,962	36
42	067	99	19		19	19		2,747	6,815	19	4,068	19
42	069	19	98	99		2,499		64,794	82,424	517	17,805	214
42	071	24	402	42	99	6,631	99	128,606	182,887	619	54,614	934
42	073	19	99	19	19	249	19	19,302	25,916	70	6,633	121
42	075		110	19	19	499		23,772	34,371	38	10,816	75
42	077	19	358	99		999	249	116,181	142,467	403	26,536	449
42	079	19	168	99	19	2,092	99	85,302	108,873	367	23,647	468
42	081	99	57	19	19	499	99	30,128	44,439	118	14,369	154
42	083	19	24		19	99		8,605	14,758	38	6,153	19
42	085	19	99	19	19	227		29,901	41,728	95	11,872	132
42	087	19	19			19		8,087	16,161	38	8,131	99
42	089	99	99	6		499	19	28,490	35,113	118	6,734	77
42	091	3,265	1,036	180		4,484	189	377,153	442,535	894	65,864	2,429
42	093		19			19		10,209	13,302		3,112	99
42	095		211	19	19	1,839	123	52,220	70,191	390	18,225	147
42	097	99	99	19		249		13,930	22,671	38	8,878	48
42	099		19		19	19		3,780	5,236	19	1,513	99
42	101	19	695	133		3,588	182	490,234	543,799	1,538	53,878	1,470
42	103		19	19	19	99		4,640	5,331	15	729	31
42	105		19		83	99		3,146	4,940		1,794	
42	107	19	97			249		24,385	39,982	118	15,814	67
42	109	99	19			26		8,581	12,962	38	4,400	118
42	111	19	99		19	99		12,239	18,041	38	5,840	38
42	113							1,002	1,492		490	
42	115		19		19	99		4,706	6,566	38	1,879	19
42	117	19	19		99	19		6,271	11,748	19	5,515	
42	119		13			249		12,756	18,468	19	5,731	19
42	121		99	19		249		10,948	16,523	38	5,594	118
42	123	19	99			15	19	8,893	14,459	38	5,585	38
42	125	99	133	19	249	395	19	42,544	55,696	351	13,369	264

To calculate allocation proportion of national emissions to county, divide number of county employees within an industry category by total (national) number of employees in that category

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Appendix E-1. Employment Values Used for County Allocation 17 [1]

State FIPS	County FIPS	A	B	C	D	E	F	G	H	I	J	K
42	127	19	29			195		10,556	12,017	38	1,499	118
42	129	99	133	61	249	499	99	83,037	109,521	765	26,600	402
42	131	19	42			99		4,539	10,353	19	5,833	38
42	133	19	279	99	99	2,626	182	86,093	132,308	581	46,350	420
44	001		19	19		99	19	8,909	12,445	63	3,654	118
44	003		104	19		499	8	51,240	64,599	282	13,549	268
44	005		99	15		169		23,848	26,864	145	3,153	107
44	007	19	667	75	99	1,855	2,499	189,979	241,346	755	51,708	550
44	009		99	14		159	99	24,869	32,349	190	7,572	81
45	001		19			19		2,306	7,546	19	5,259	
45	003		105	19		32		25,922	65,268	119	39,482	198
45	005							1,035	3,007		1,972	
45	007	19	96	99	19	232	19	33,095	53,095	175	20,166	125
45	009		19					2,402	4,074	13	1,710	19
45	011		5			99		2,800	7,683	19	4,902	19
45	013		73	19		145		35,214	37,998	172	3,012	300
45	015	19	33	19		7	19	12,992	21,750	172	8,831	198
45	017		19					1,361	2,830	19	1,488	
45	019		209	39		525		136,303	149,819	609	14,125	421
45	021	249	27	19		19	99	8,592	18,112	46	9,539	99
45	023		19			19		4,119	10,626	118	6,525	118
45	025	19	14	19				6,062	12,888	38	6,845	
45	027		19			19		4,413	6,569	38	2,194	
45	029		19			51		5,801	8,760	36	2,978	38
45	031		99	19		19		15,031	25,931	76	11,018	85
45	033	19	19			99		4,813	10,386	38	5,592	
45	035	19	99	19		28	19	14,021	19,166	105	5,282	75
45	037		19			19		2,181	5,401	38	3,239	19
45	039					19	19	2,700	7,175	19	4,475	
45	041		131	19		249		42,045	54,659	517	12,739	90
45	043		26			249		13,167	19,311	118	6,243	228
45	045	99	355	36		2,499	249	155,331	200,705	980	45,705	344
45	047	499	99	13		192	19	16,775	32,624	88	15,893	268
45	049		21					2,700	4,433	118	1,771	99
45	051	19	104	19		249		66,180	73,757	301	7,827	267
45	053	19	19					2,862	3,324	118	519	19
45	055		49	19		84		7,855	14,115	67	6,372	19
45	057		99	19		78		10,094	18,186	50	8,149	38
45	059		27			499		8,653	15,727	118	7,112	76
45	061							1,657	2,788	118	1,150	
45	063	99	135	19		999	14	45,379	56,276	338	11,206	238
45	065							848	1,601	19	772	
45	067	19	19	19		19		4,853	12,808	45	7,974	19
45	069		5					3,071	8,063	118	5,011	19
45	071	99	27			58		5,691	13,502	38	7,868	19
45	073	19	24	19		13	99	11,858	22,147	118	10,329	85
45	075	99	99	22		144		16,769	29,510	231	12,878	138

To calculate allocation proportion of national emissions to county, divide number of county employees within an industry category by total (national) number of employees in that category

A = Animal Services, except veterinary; SIC Code =0750

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Appendix E-1. Employment Values Used for County Allocation 17 [1]

State FIPS	County FIPS	A	B	C	D	E	F	G	H	I	J	K
45	077		35			158	99	17,947	30,975	101	13,063	177
45	079		251	19	99	812	19	140,216	159,051	968	19,035	721
45	081	2,499	19					1,760	6,681		4,921	
45	083	19	185	99	99	2,499	19	74,778	108,967	561	34,328	268
45	085		99	8		49	19	18,251	36,448	597	18,342	137
45	087	19	19					4,364	8,217	118	3,872	99
45	089	99	19			3		4,063	7,795	63	3,751	19
45	091	19	99	249		499	249	33,985	46,892	488	12,987	246
46	003		19			19		383	421		38	19
46	005	999	19			19		4,496	6,762	19	2,304	26
46	007		19					609	647		38	
46	009	19	19			19		1,266	2,077		830	
46	011		19	19	19	19		6,246	11,327	38	5,081	19
46	013		99	19		236		12,513	16,119	112	3,644	22
46	015	19	19					1,895	2,070	19	194	
46	017							156	156			
46	019		19			19		1,409	1,717	19	308	19
46	021							247	384		137	
46	023		19			19		2,225	2,518	19	293	19
46	025	19	19		19			480	805	19	325	
46	027		19			41		2,562	2,858	38	315	19
46	029		19	19		99	19	7,939	13,247	137	5,327	95
46	031					19		297	335		38	
46	033		19			19		863	1,053	38	190	
46	035		99	99		38		6,408	9,552	118	3,163	38
46	037	19	19					1,188	1,599		430	
46	039							626	1,111		485	
46	041					19		1,460	1,536		76	19
46	043	19	19					793	1,246		453	
46	045							761	818		57	
46	047		19			19		3,621	3,815	19	194	118
46	049							639	715		76	
46	051		19					2,062	2,947	19	904	19
46	053		19					894	1,111	19	255	19
46	055	19	19					730	1,135		405	
46	057				19			634	837		222	
46	059	19	19					903	979		95	
46	061							237	294		57	19
46	063							289	308		19	
46	065		19		19	99		5,603	6,282	118	698	99
46	067		19	19		19		1,955	2,654		699	19
46	069	19						615	653		38	
46	071	19						406	444		38	
46	073		19					594	651		57	
46	075							309	347		38	
46	077		19					1,086	1,967		881	
46	079		19			99		2,225	3,936	19	1,711	19

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Appendix E-1. Employment Values Used for County Allocation 17 [1]

State FIPS	County FIPS	A	B	C	D	E	F	G	H	I	J	K
46	081		19	19		99		6,635	7,960	38	1,344	38
46	083	19	38		19	13		3,227	4,418	19	1,210	19
46	085							595	614		19	
46	087		19					959	1,421		462	19
46	089	19	19		19			411	525		114	
46	091		19					1,051	1,823	99	772	
46	093	19	19			19		3,496	4,354	19	896	
46	095							244	244			
46	097		19			499		497	996		499	
46	099	4,999	97	19	19	708		72,587	87,573	134	15,080	364
46	101		19					1,215	1,639		424	
46	103	499	123	99		110	99	29,182	35,621	273	6,477	161
46	105		19			19		686	1,011		325	
46	107		19					805	923		118	19
46	109		19					1,886	2,112	19	226	
46	111							455	742		287	
46	113							1,622	1,641		19	
46	115		19					1,139	1,333		194	
46	117	19	19					423	442		57	19
46	119		19					340	359		19	38
46	121							1,445	1,483		38	
46	123		4			19		1,645	1,820	19	194	19
46	125	19	6			99		1,367	1,698		331	19
46	127	99	19			99		3,524	15,327		11,822	
46	129		19					1,771	1,927	19	156	19
46	135	249	99			19		7,098	10,778	137	3,699	17
46	137							508	508			
47	001		94	19		99	249	24,387	41,916	59	17,586	49
47	003		99	19		499		6,936	15,980	268	9,162	19
47	005		19					2,096	3,509	38	1,451	
47	007	19	19			19		810	2,079		1,269	19
47	009	19	99	19		93		22,396	33,980	87	11,702	173
47	011	19	99	19		114	19	23,435	37,417	92	14,039	94
47	013	19	99			19		5,253	7,970	38	2,736	38
47	015							956	1,546	19	590	
47	017		19				99	3,831	7,789	19	3,996	19
47	019	19	19	7		19	99	6,439	9,780	35	3,360	99
47	021		11			19	19	2,894	6,942	19	4,067	38
47	023		13		19	99		2,531	3,736	19	1,224	
47	025		19			19		3,626	7,877	38	4,270	38
47	027		19					954	2,245	19	1,310	
47	029		12			19	99	3,995	7,268	38	3,292	
47	031		40	11		182		14,594	22,362	217	7,806	50
47	033		10			19		2,033	4,190	19	2,176	
47	035	19	19	19		17		8,530	12,167	46	3,675	31
47	037	99	471	105	99	3,458	136	299,338	336,191	1,827	37,320	597
47	039		19					1,906	3,863		1,976	19

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Appendix E-1. Employment Values Used for County Allocation 17 [1]

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47	041		15	19		19	99	2,019	5,102	38	3,102	
47	043	19	99	19		999		8,976	14,842	38	5,904	99
47	045	999	19		19	2,499		7,916	17,215	38	9,404	38
47	047		19			5	19	1,985	4,181	19	2,196	
47	049		19					2,313	3,763	19	1,469	
47	051	19	19	19		19		5,465	8,227	38	2,800	19
47	053	19	28	19		22		6,782	16,065	57	9,401	99
47	055		99			99		5,120	11,911	23	6,810	19
47	057	19	13					1,355	3,482		2,127	38
47	059	19	20	19		272	99	11,007	21,467	38	10,498	26
47	061							1,080	1,664		584	
47	063	19	99	19		195		15,120	30,572	118	15,589	27
47	065	19	188	99		1,348	155	116,936	151,747	573	35,109	681
47	067		19					657	1,194		537	
47	069		19		99	19		3,967	6,824	45	2,895	19
47	071		4			19	19	3,281	6,485	29	3,239	19
47	073		13			2,499	99	4,654	14,285	38	9,749	118
47	075		19		19	19		2,253	6,029	38	3,809	19
47	077		19			19	99	3,661	9,070	38	5,409	19
47	079	19	19	19	99	19		5,739	10,677	137	5,075	19
47	081		8		19			1,383	2,400	19	1,017	19
47	083							694	1,135		441	
47	085	19	19	19		19		1,950	4,333	19	2,383	
47	087							702	2,104		1,402	
47	089		15	19		19		7,056	10,643	38	3,625	19
47	091		19					1,391	3,159	19	1,768	19
47	093	19	180	55		1,169	110	145,232	164,352	709	19,554	542
47	095							948	1,066	19	118	
47	097		14					2,902	8,557	118	5,674	
47	099	19	3			19		5,148	11,663	13	6,572	19
47	101		19			19		1,334	2,468		1,134	
47	103		35			44	19	3,820	8,495	19	4,713	19
47	105	99	99	19		12	19	5,182	9,703	38	4,521	38
47	107		99	19		10		7,535	19,256	118	11,759	11
47	109		18			19	99	7,755	11,349	19	3,613	19
47	111		19		99			1,880	4,121	19	2,241	38
47	113		94	19		129	19	31,534	45,032	268	13,613	249
47	115		19					3,555	5,435	13	1,918	
47	117	19	8			249		5,725	14,474	38	8,749	38
47	119		249	19	99	19		16,780	30,534	92	13,971	24
47	121	19						807	1,589		782	
47	123	19	19			19	99	4,811	11,078	38	6,286	
47	125		99	19	19	2,073	19	23,691	32,047	208	8,573	159
47	127							622	1,334		712	
47	129		19					930	2,217		1,287	
47	131	249	99		99	19	19	6,819	15,581	118	8,800	38
47	133	19	12			19		1,652	3,372	38	1,739	

To calculate allocation proportion of national emissions to county, divide number of county employees within an industry category by total (national) number of employees in that category

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Appendix E-1. Employment Values Used for County Allocation 17 [1]

State FIPS	County FIPS	A	B	C	D	E	F	G	H	I	J	K
47	135				19			825	3,215		2,390	
47	137							864	1,833	19	969	
47	139		19	19				1,889	2,936		1,085	
47	141	19	61	19		33	99	17,240	27,097	137	9,975	19
47	143		99			19		3,876	10,401	38	6,563	19
47	145		35	19		19		5,855	8,992	15	3,156	19
47	147		19			52		7,529	13,557	118	6,066	19
47	149	19	82	4	19	499		41,398	63,149	152	21,814	119
47	151		19			19		2,617	6,516	518	3,899	
47	153		19					1,455	3,184		1,748	19
47	155	249	99	19		37		21,784	25,271	71	3,546	33
47	157	249	852	107	99	3,035	82	350,248	393,474	2,450	43,962	1,060
47	159							2,303	5,092	38	2,808	
47	161		19					779	1,242		482	
47	163		249	99		2,499	19	37,677	72,053	629	34,500	46
47	165	19	99	19	99	999	249	19,305	31,795	195	12,598	112
47	167		35		99	999	19	5,353	9,285	38	4,069	19
47	169		19					910	2,011		1,101	
47	171		19					1,875	4,935	38	3,060	
47	173	19				19		853	2,266		1,413	
47	175							411	1,127		716	
47	177	19	19			19	19	5,894	13,453	38	7,578	19
47	179	19	63	99	19	683		40,650	52,890	431	12,361	72
47	181				19			1,775	3,329	19	1,554	99
47	183	19	14			999		7,532	11,858	38	4,425	19
47	185	19	19					2,639	7,086	38	4,466	99
47	187	19	54	19	19	499		56,417	62,581	240	6,301	249
47	189		59	19	19	249	99	15,946	22,001	79	6,081	76
48	001	499	99		19	19		7,211	8,882	26	1,690	99
48	003		19		19	19		1,660	2,701	38	1,041	
48	005	499	98	19	19	187	249	20,363	28,404	105	8,159	51
48	007					19		3,121	3,420	35	337	19
48	009							695	790	19	95	
48	011		19					430	449		19	
48	013		27			19		4,140	5,073	38	971	19
48	015		19		19	99		3,714	5,039	19	1,325	19
48	017		19					1,075	1,305	19	230	19
48	019		19		19	19		1,277	1,501		243	
48	021	19	26			99		5,259	6,523	118	1,302	24
48	023	19	19					1,229	1,366	19	156	
48	025		11		19	19		3,441	4,332	42	929	19
48	027	19	227	19		363		59,133	68,865	606	9,979	289
48	029	499	1,048	352	499	2,818	158	428,405	472,892	2,566	45,237	1,582
48	031	19						1,266	1,597		331	
48	033							38	38			
48	035		19			19		1,831	2,858	19	1,046	
48	037		249	10		114		25,690	32,446	272	6,832	99

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Appendix E-1. Employment Values Used for County Allocation 17 [1]

State FIPS	County FIPS	A	B	C	D	E	F	G	H	I	J	K
48	039	19	132	19	46	99	19	32,315	47,538	211	15,440	143
48	041		249	19	19	141		37,565	42,982	517	5,530	225
48	043					19	19	1,750	1,883	38	133	
48	045							377	434		57	19
48	047		19		19	19		1,286	1,381	19	95	
48	049	19	99	19		249		8,485	14,241	137	5,775	23
48	051		19		19	19		1,617	2,088	19	509	19
48	053	99	32			99		4,817	5,905	14	1,126	19
48	055		12		19			3,552	4,314	38	762	14
48	057		10		19	19		3,330	7,663	99	4,390	
48	059				19	19		792	1,062		270	19
48	061	99	99	19		99		62,119	75,128	330	13,337	69
48	063		19					2,110	2,831	19	740	19
48	065				19			927	1,102		194	
48	067	19	19	19	19	99		4,171	5,386	19	1,253	
48	069		19		19	19		1,148	1,591	19	443	
48	071		19		19			2,729	4,924	19	2,294	
48	073		19	19		19	19	8,771	12,893	22	4,141	3
48	075		19			19		1,213	1,251	19	57	
48	077							700	1,086		386	
48	079							424	462		38	
48	081	19	19			19		614	709		95	
48	083		19		19			1,294	1,564		270	19
48	085	249	175	19	19	999	99	143,686	169,703	663	26,217	648
48	087							688	726		38	
48	089		19			19		3,734	4,817	118	1,106	19
48	091		99	19		430		15,193	20,337	232	5,198	168
48	093	19						2,348	2,771		423	19
48	095							781	819		57	
48	097		39	99	19	131	99	6,960	10,425	137	3,484	19
48	099	19	45		19			6,084	7,046	118	1,080	28
48	101							685	761		76	
48	103							634	752		118	
48	105				19			746	822	19	76	
48	107					19		885	1,121		236	
48	109							650	749	19	99	
48	111		19					1,589	1,717	19	128	19
48	113	1,809	1,970	407	50	10,742	597	1,062,955	1,224,075	4,504	162,676	3,094
48	115		19			19		1,987	2,323	38	336	19
48	117	249	15		99	12		2,557	3,839	38	1,301	99
48	119							736	1,254	19	518	
48	121	19	499	44	19	249		75,030	89,178	374	14,280	524
48	123	19	19		19	19		2,452	3,567	38	1,115	19
48	125							678	697		19	
48	127		19		19	19		1,266	1,361	19	95	
48	129		19					580	694		114	
48	131				19			935	1,030		95	

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Appendix E-1. Employment Values Used for County Allocation 17 [1]

State FIPS	County FIPS	A	B	C	D	E	F	G	H	I	J	K
48	133	19	19	19	99	99		2,830	4,220	19	1,409	19
48	135		102	19	99	111	99	30,106	33,842	426	3,950	177
48	137							280	299		19	
48	139	19	99	6	19	499		13,785	24,267	98	10,512	38
48	141	19	353	99	99	627	99	137,734	173,176	934	35,707	488
48	143	19	23			99	19	6,682	9,240	118	2,657	35
48	145		19			249		2,033	2,655	38	641	
48	147	249	19		19	19		3,828	6,306	38	2,478	38
48	149	19	18		19	98		4,333	5,763	198	1,449	19
48	151							552	689		137	
48	153		19			19		1,026	1,220		194	
48	155							375	662		287	
48	157	19	156	36	99	499	99	55,919	67,684	602	11,937	420
48	159		19					4,669	5,093	19	462	19
48	161		18					2,162	2,554	19	411	
48	163							1,656	1,911	38	255	
48	165		19		19	19		1,976	2,147	118	171	38
48	167	19	58	19	19	99		54,471	62,258	305	7,986	248
48	169	19				19		803	879	19	76	
48	171		19			18		4,929	5,995	19	1,104	19
48	173							133	133			
48	175		19					802	897	19	95	19
48	177	19	19		19	19		2,626	3,895	38	1,269	19
48	179		24		99	19		4,353	6,239	63	1,924	99
48	181		20	19		249	19	25,766	36,457	85	10,758	95
48	183		146	19	69	197		37,337	51,162	304	13,915	107
48	185	19	19					2,491	4,914	19	2,442	19
48	187	19	99		19	92		10,846	18,233	149	7,440	38
48	189	2,499	9		19	19		7,021	10,105	118	3,103	38
48	191							742	917		175	
48	193	19				19		1,371	1,746		394	
48	195		19		99			1,057	1,232	38	175	38
48	197		19					835	1,160		325	19
48	199		32	19	26	19		5,242	6,609	37	1,405	8
48	201	249	2,440	481	4,172	7,180	965	1,171,045	1,343,392	5,842	174,786	5,355
48	203		61		99	107	99	9,981	14,734	59	4,856	19
48	205	19	19					783	840		57	
48	207	19	19					815	929	19	114	
48	209	19	100			99		17,068	20,774	104	3,843	23
48	211	19			19	19	19	704	837		133	19
48	213	19	19	19		29	19	8,701	11,509	198	2,865	61
48	215	499	88	99	99	249		84,473	97,839	394	13,591	261
48	217	99	19		19	19		4,421	5,927	118	1,525	19
48	219	19	19		99	19		3,990	4,479	118	527	19
48	221	19	19		19	12		6,610	7,283	40	711	3
48	223		19		19	19		7,198	9,212	118	2,052	19
48	225	19	38			19		2,946	3,991	19	1,064	19

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Appendix E-1. Employment Values Used for County Allocation 17 [1]

State FIPS	County FIPS	A	B	C	D	E	F	G	H	I	J	K
48	227	19	99		19	19		7,032	8,708	41	1,695	
48	229							209	308	19	99	
48	231		19			249		11,794	21,090	26	9,334	112
48	233		37		99	19		4,644	6,775	38	2,169	19
48	235	19						298	317		19	
48	237				19			1,413	1,489	38	76	
48	239	19	19		99	2,499		2,290	5,021	35	2,750	
48	241		14	19	19	19		6,123	8,769	73	2,684	17
48	243							526	564		38	
48	245	19	316	99	157	249		70,084	87,195	616	17,376	314
48	247				99			792	967		175	
48	249		19		19	19		8,132	8,695	106	601	19
48	251		99		19	144	19	15,538	22,644	148	7,197	30
48	253	19	13					2,857	3,070		232	
48	255	19	19		19	19		1,542	1,911	38	388	19
48	257	99	249			99	99	12,349	18,097	99	5,813	38
48	259		27	19	19	99	19	4,665	5,948	46	1,302	19
48	261							38	38			
48	263							114	114			
48	265	19	99	19		99		12,304	13,737	100	1,571	19
48	267				19			944	1,448	19	523	19
48	271							322	341		19	
48	273		19	19				4,714	5,611	38	930	
48	275		19					694	694	38		
48	277	19	39	19	19	20		11,150	18,582	146	7,470	5
48	279	19	6			19		1,709	2,476	7	805	19
48	281	19						2,234	3,062	19	885	
48	283							579	598		19	
48	285	99	10		19	19	99	3,289	6,583	19	3,332	4
48	287		19		99	19		2,179	3,113	19	953	
48	289			19		19		1,690	2,496	38	806	
48	291	19	19		99	19		7,964	10,273	63	2,328	19
48	293		19		19	19		3,073	4,729	11	1,656	19
48	295	19	19		19			539	695		156	
48	297				19	19		1,248	1,842	19	594	19
48	299		19					2,836	3,105	38	307	19
48	303	99	157	249		499	19	74,552	81,913	556	7,522	249
48	305							759	854	19	114	
48	307	19	19					1,680	2,122	38	480	
48	309	99	143	99		610	99	60,982	79,607	367	18,801	275
48	311				19			114	133		19	
48	313	19	19			19		1,602	1,741	19	158	
48	315		19					1,070	1,579		528	19
48	317							605	605			
48	319		19					563	677		133	
48	321		19	19	99	16		5,471	6,696	38	1,282	19
48	323		19			19		4,939	6,419	38	1,484	38

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Appendix E-1. Employment Values Used for County Allocation 17 [1]

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48	325		19			19		3,776	4,721	19	971	38
48	327				19			450	507		57	
48	329		87	19	99	99	19	32,200	34,800	196	2,681	183
48	331	19	12			19		2,796	5,919	38	3,161	
48	333							917	1,111	19	213	
48	335		19					1,022	1,060	19	38	
48	337		19			99		2,584	3,560	33	976	38
48	339	19	249	38	99	99	19	56,618	64,713	569	8,227	215
48	341	2,499	99	19	99	19		2,750	6,157	19	3,426	99
48	343		19			19		1,584	4,833	19	3,249	
48	345							295	413		118	19
48	347		29	19	19	200		13,105	17,790	61	4,723	53
48	349		20			99		9,353	12,570	73	3,255	19
48	351	19						956	1,681	19	725	
48	353		12		19	19		2,995	4,319	147	1,343	
48	355	999	188	51	171	249	19	89,642	99,462	736	10,072	501
48	357	99	19		19	19		1,864	2,157	38	312	19
48	359							770	808		38	19
48	361		99	19	99	99		12,419	19,351	217	6,970	118
48	363		19			19		4,710	6,663	19	2,002	38
48	365	19	20		99	99		3,024	4,902	17	1,878	19
48	367		22	14		12	249	11,092	14,306	119	3,252	42
48	369	2,499						1,317	3,854		2,556	
48	371		19		99	19		2,181	2,512	19	350	
48	373	19	99		99	19		4,862	6,920	19	2,115	19
48	375	4,999	94	19	19	499		44,855	58,144	414	13,506	147
48	377		19					631	669	19	38	19
48	379							751	983	19	232	19
48	381	99	181	19	19	99		16,511	18,757	161	2,313	63
48	383				19			641	736		95	
48	385							535	729		194	
48	387		19					1,545	2,944	19	1,418	38
48	389		19		19	19		1,699	2,793	19	1,094	19
48	391		19		19			938	1,033		95	
48	393				19			157	176		19	
48	395					19		1,311	1,895	19	584	
48	397		16	19		99		6,867	8,599	80	1,831	118
48	399	99	19			19		1,450	3,090	9	1,640	19
48	401	19	39	19		19		5,986	7,947	38	1,980	118
48	403		19		19			1,072	1,779	19	707	
48	405							1,001	1,368	19	367	
48	407			19				796	1,390		613	
48	409		19	19	19		19	8,985	12,827	38	3,902	19
48	411					19	19	1,148	1,342	19	213	19
48	413				19			504	580		76	
48	415		19		19			2,560	3,515	27	1,012	19
48	417							537	594		57	

To calculate allocation proportion of national emissions to county, divide number of county employees within an industry category by total (national) number of employees in that category

A = Animal Services, except veterinary; SIC Code =0750

B = Top Body Repair Paint Shops; SIC Code = 7532

C = Dental Laboratories; SIC Code = 8072

D = Petroleum Bulk Stations and Terminals; SIC Code =5171

E = Commercial Printing, Gravure; SIC Code = 2754

F = Plating and Polishings; SIC Code = 3471

G = COMM (seeAppendix C)

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I = DRYCLEAN (see Appendix C

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1 = data from the U.S. Census Bureau's 1999 County Business Employment

Appendix E-1. Employment Values Used for County Allocation 17 [1]

State FIPS	County FIPS	A	B	C	D	E	F	G	H	I	J	K
48	419	19	24		19	19		3,071	7,115	38	4,082	99
48	421	19	19					576	694		118	
48	423	19	164	99		249		54,484	66,579	531	12,214	132
48	425							2,354	2,679	38	325	
48	427		19		99	19		4,466	4,759	38	293	
48	429	19	19		19	19		1,302	2,279	19	977	
48	431							243	262		19	
48	433							302	321		19	
48	435		19		19			1,098	1,155	99	76	
48	437	19	19					927	1,220	19	293	
48	439	249	1,280	201	99	4,580	255	431,356	531,064	2,851	100,652	2,302
48	441	19	122	23		249	19	39,570	44,425	330	5,078	160
48	443		19					238	238		19	
48	445		19			19		1,922	2,116	38	194	19
48	447							353	429		76	19
48	449		99	19		19		6,013	12,671	118	6,677	
48	451	999	101	19		81	19	25,427	31,271	159	5,881	180
48	453	19	767	97	19	2,174	99	313,025	374,951	1,584	62,547	2,303
48	455							1,515	2,061	19	565	
48	457		19			19		4,172	5,192	19	1,039	19
48	459	19	12			19		2,568	3,841	38	1,292	
48	461				19			535	573		57	
48	463	19	19		19	19		4,557	5,982	198	1,463	19
48	465		19					7,534	8,343	118	828	99
48	467		30			249	19	4,816	6,094	38	1,316	
48	469	19	37	99	99	113		23,436	27,967	517	4,633	57
48	471		99	19		104		8,593	9,731	70	1,167	99
48	473	99	19		19	19		4,472	6,376	38	1,923	38
48	475		19		19	19		1,346	1,540	38	194	
48	477		99		19	249		6,662	10,749	118	4,144	12
48	479		99		99	72		33,588	36,038	126	2,537	76
48	481	19	26		99	15		7,571	10,303	118	2,770	8
48	483	19			19	19		1,193	1,425		232	
48	485		99	19		76	19	33,881	45,415	213	11,603	102
48	487		5			19		2,615	3,987	19	1,391	19
48	489		19					1,703	2,028		325	19
48	491	19	181	11		145	249	42,580	52,965	418	10,494	172
48	493		13					2,432	2,887		474	19
48	495				99			703	821	19	118	
48	497		19		19	19		7,033	8,898	118	1,865	
48	499	99	19	19	19	10		4,406	5,567	57	1,180	38
48	501				19			900	1,174	19	293	
48	503	19	30			19		3,206	4,622	118	1,454	19
48	505							826	883		76	
48	507				19			1,781	2,417		636	99
49	001	19						1,036	1,192		156	19
49	003	99	99	19		99	19	5,688	19,973	19	14,285	118

To calculate allocation proportion of national emissions to county, divide number of county employees within an industry category by total (national) number of employees in that category

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Appendix E-1. Employment Values Used for County Allocation 17 [1]

State FIPS	County FIPS	A	B	C	D	E	F	G	H	I	J	K
49	005	2,499	131	19		999		16,692	29,440	137	12,965	249
49	007		11			99		4,517	5,270	38	772	19
49	009							161	161			
49	011		186	19		499	19	41,698	50,550	237	8,894	268
49	013	19	19	19	19	19		2,057	2,426	19	369	
49	015	19						1,248	1,343	19	114	19
49	017							856	1,201	19	345	
49	019		19					2,534	2,888	19	373	19
49	021	19	99			19		6,746	9,271	38	2,544	37
49	023							1,461	2,026		565	
49	025							1,242	1,624		382	19
49	027	19			19			1,601	2,110		509	
49	029							830	1,452		622	
49	031							98	117		19	
49	033		19					576	595		19	
49	035	99	959	386	499	4,155	178	338,363	396,699	1,449	58,632	1,076
49	037		19					1,711	2,145		434	
49	039	19	25			19		2,113	3,154	19	1,041	19
49	041	19	19	19		19		3,351	4,281	19	949	19
49	043		19			19		12,964	14,470	71	1,525	165
49	045	19	19			99		3,433	6,621	38	3,226	19
49	047	19	10	19	19	19		3,604	4,265	38	680	8
49	049	19	216	71	19	2,499	19	110,615	127,383	207	16,825	398
49	051		19			19		2,576	3,223	19	666	38
49	053		68	19		140		18,014	21,039	137	3,077	58
49	055							382	538		156	
49	057	71	204	99		249	99	45,692	66,164	166	20,595	378
50	001	19	19	19		249		8,447	11,219	19	2,793	29
50	003		19			249		12,234	16,640	28	4,433	107
50	005	19	32			19	19	6,265	8,937	19	2,691	99
50	007	19	111	99		744		55,147	73,323	172	18,277	377
50	009							468	2,009		1,560	19
50	011	99	99			392	19	7,478	11,148	38	3,693	37
50	013	19	19					593	726		133	19
50	015		99			99		7,685	9,104	38	1,438	37
50	017		3		19	26		4,394	6,219	38	1,844	22
50	019		19			11		4,841	7,192	19	2,370	38
50	021	19	63	19		329	19	18,299	25,180	118	6,938	71
50	023		26	19		499		19,319	23,857	118	4,595	59
50	025		99			999	19	16,879	21,473	123	4,636	99
50	027	19	99	19		108	99	14,586	18,884	37	4,336	78
51	001	19	15			19		5,111	9,142	38	4,069	6
51	003		66	19	19	44		16,598	19,825	118	3,284	167
51	005							1,634	2,625	19	1,010	99
51	007		19			249		994	1,677	38	702	
51	009		19			19		4,445	6,635	38	2,239	19
51	011		19		99	19		1,382	4,311	38	2,948	19

To calculate allocation proportion of national emissions to county, divide number of county employees within an industry category by total (national) number of employees in that category

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Appendix E-1. Employment Values Used for County Allocation 17 [1]

State FIPS	County FIPS	A	B	C	D	E	F	G	H	I	J	K
51	013		249	19		499	19	105,705	109,303	383	3,636	498
51	015	19				99	19	8,387	15,378	38	7,016	118
51	017							556	726		170	19
51	019	249	47		19	499		4,048	7,237	99	3,227	38
51	021			19				755	1,828		1,073	
51	023	19	11		19	19		3,261	4,881		1,677	26
51	025		19			19		2,804	4,090	38	1,305	19
51	027		28		99			3,464	4,443	19	998	
51	029		19					1,271	1,764	19	493	19
51	031	99	19	19		499	19	6,565	12,978	118	6,470	117
51	033		19					2,076	2,824	137	767	
51	035		19			19		2,664	5,135		2,471	19
51	036		19			99		554	1,065		511	
51	037		19					979	3,244	19	2,265	19
51	041		80	99	19	499		51,130	63,743	161	12,739	807
51	043		99			999		1,860	3,533		1,692	
51	045							380	442		62	
51	047		20	19		19		7,110	9,224	697	2,232	25
51	049		19					612	786		193	
51	051		19					1,247	1,341	19	94	19
51	053		19					2,791	3,525	5	753	38
51	057		19			19		2,509	4,339	30	1,849	99
51	059		436	114	499	2,942	99	396,108	416,661	1,306	20,914	2,233
51	061	19	38		19	19		9,051	10,977	99	1,948	97
51	063	19	19			19		949	1,915		966	
51	065		19		19	19		1,704	2,034		349	19
51	067	19	19			249		5,214	11,497	38	6,340	19
51	069	99	10	19		499		12,285	17,791	57	5,578	101
51	071	19	19					1,923	5,970	19	4,066	19
51	073		99				19	5,180	5,911	118	788	118
51	075		7					2,705	2,794		127	268
51	077							726	2,533	38	1,807	
51	079		19		19	19		1,490	1,661	19	190	19
51	081		19		19			731	2,196		1,484	19
51	083		23	19		19	19	5,142	11,189	33	6,047	118
51	085		118	19		249	19	22,227	26,496	163	4,395	202
51	087	19	158	99		1,293		114,732	126,446	434	11,910	625
51	089		99			137		6,401	16,219	19	9,861	99
51	091							341	577		236	
51	093	4,999	99			19		3,670	9,817	57	6,185	99
51	095		19			19	249	9,154	10,986	45	1,950	20
51	097		19			19		331	636		305	
51	099		19	19				3,504	4,356	38	871	19
51	101							1,690	3,255	38	1,565	19
51	103		19	19		19		3,580	4,064	29	550	118
51	105		19					2,362	3,149	38	806	
51	107	19	211	19	19	626		39,034	44,327	116	5,451	248

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Appendix E-1. Employment Values Used for County Allocation 17 [1]

State FIPS	County FIPS	A	B	C	D	E	F	G	H	I	J	K
51	109		19	19	19	19	19	2,246	3,367		1,159	19
51	111		19					1,011	2,331	19	1,320	38
51	113	99	19			19		1,834	2,886		1,052	
51	115							982	1,383	19	452	19
51	117		19		19	7		6,897	12,035	48	5,157	38
51	119		19			19		1,728	2,185		495	19
51	121		99			56		16,542	24,681	118	8,196	99
51	125		19					2,415	3,161	19	746	
51	127		19					1,417	1,683		285	19
51	131		19			19		2,557	3,448	38	891	
51	133		19			19		1,476	2,170	99	713	19
51	135		19					2,322	3,595	38	1,292	
51	137		19		99	499		3,312	7,053	118	3,779	19
51	139		19		19	249		2,755	6,991	38	4,236	19
51	141		19			19		1,923	4,978	19	3,074	19
51	143		99	19	19	249		5,732	12,581	69	6,887	5
51	145		19					3,020	3,347		365	
51	147		19			19		6,558	7,867	38	1,328	19
51	149				19			3,211	4,013	19	840	19
51	153		213	19	99	499		46,149	50,495	243	4,586	550
51	155		19			99	99	5,710	14,098	137	8,426	30
51	157							1,015	1,053		38	19
51	159		19	19				1,277	2,082		843	19
51	161		33	19		15		15,630	19,472	367	3,866	162
51	163	19	19			19		1,901	5,812		3,930	19
51	165	19	99	19		1,252		9,969	20,586	18	10,655	36
51	167		19					3,177	5,341	38	2,202	19
51	169	19	19			27		2,461	2,913	38	471	19
51	171		19		99	999		5,910	12,171	38	6,299	1
51	173	19	19	19		19	19	5,561	12,878	19	7,336	19
51	175		19					1,451	5,269	19	3,823	
51	177		99	19		99		11,490	14,274	38	2,841	97
51	179		39			75		13,761	15,363	43	1,641	141
51	181							630	1,115		485	
51	183		19					2,680	4,472	38	1,792	19
51	185		19			34		10,130	12,029	356	1,956	19
51	187	19	99	19		19		5,819	8,055	518	2,274	75
51	191		19		19	87		10,245	13,253	118	3,027	19
51	193							1,626	2,638	19	1,050	
51	195		19	19		19		5,960	7,057	28	1,215	19
51	197		19			99	19	5,939	8,613	19	2,693	6
51	199		249	19		19	19	11,386	12,299	46	961	136
51	510		124	19		589		84,210	86,880	245	2,788	135
51	515		19	19		249		3,561	6,820	137	3,297	38
51	520		6			99		9,091	20,276	32	11,204	
51	530			19		99		1,301	2,812	19	1,511	
51	540		99	19		249		32,325	39,683	192	7,422	104

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Appendix E-1. Employment Values Used for County Allocation 17 [1]

State FIPS	County FIPS	A	B	C	D	E	F	G	H	I	J	K
51	550		181	36	19	128		51,112	56,572	279	5,784	231
51	560							1,427	1,644	38	217	
51	570		99			99		9,195	10,835	348	1,659	99
51	580		19			19		1,584	5,684	19	4,100	
51	590		14	19		139		15,905	30,005	118	14,160	62
51	595					19		2,562	4,313	38	1,751	19
51	600		93	19		99		35,122	35,793	35	789	270
51	610		41	19		27		12,720	13,420	38	818	99
51	620		19					2,928	3,282	38	354	
51	630		19			359		17,936	20,109	110	2,291	118
51	640		19			19		3,211	8,321	19	5,148	19
51	650		99	19		94		40,208	47,693	152	7,547	228
51	660		99	19		341		17,919	22,556	118	4,677	268
51	670		19			19		4,350	8,236	367	3,924	38
51	678				19	19		5,793	6,063	118	270	99
51	680		120	19		999	249	39,018	53,680	318	14,732	185
51	683		99	99		99	19	14,832	18,279	75	3,560	100
51	685		99					809	1,003		213	19
51	690		19			179		7,063	15,513	59	8,507	118
51	700	19	249	99		107	19	52,399	84,511	301	32,518	451
51	710	19	123	108		366		89,407	101,942	323	12,909	292
51	720		19			19		3,535	4,227	38	692	19
51	730		99			48		9,417	12,961	108	3,662	19
51	735		19	19				1,244	1,400	19	194	
51	740		99	19		99		20,837	23,034	376	2,406	38
51	750		19			19		3,564	8,374	118	4,810	19
51	760	19	266	19	19	1,949	99	117,968	145,138	892	27,463	177
51	770	99	151	99		999	19	54,565	64,890	287	10,507	323
51	775		53	99		249		15,305	24,917	118	9,612	118
51	790		19	19		19		10,514	11,596	367	1,200	99
51	800	19	99	19	19	99		11,057	14,695	84	3,780	38
51	810		171	45		991	19	113,995	120,722	565	7,132	510
51	820		19			104		5,849	10,886	206	5,056	118
51	830					99		16,456	18,208	50	1,870	249
51	840		99	19		88		15,274	22,630	118	7,375	19
53	001	19	19					2,324	5,017		2,693	
53	003		19			19		3,301	4,036		773	
53	005	19	156	19		150		35,727	44,229	224	8,548	380
53	007		42	99		99		17,308	20,680	26	3,391	102
53	009	19	99	19		42		11,990	14,283	137	2,328	12
53	011	19	227	58		263	19	61,476	80,221	241	18,988	561
53	013							671	1,044		392	
53	015	19	51	19		107	99	18,115	29,074	26	11,015	91
53	017		19			10		3,244	3,566	38	360	38
53	019		19			19		655	1,248		612	
53	021	2,499	99	19		19		8,135	11,874	38	3,876	19
53	023							417	455		38	

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Appendix E-1. Employment Values Used for County Allocation 17 [1]

State FIPS	County FIPS	A	B	C	D	E	F	G	H	I	J	K
53	025	99	45	19		10		10,377	15,210	38	4,871	38
53	027	19	99	19		16		11,046	16,847	38	5,888	37
53	029		22			19		8,817	9,816	198	1,136	64
53	031		99			99		4,707	6,183	38	1,594	52
53	033	19	1,990	572	249	5,857	1,021	718,505	867,678	1,582	150,301	4,606
53	035		149	47		185		40,374	42,607	106	2,293	135
53	037	19	19	19		19		5,907	6,985	38	1,078	60
53	039		19			19		1,969	4,013	19	2,063	
53	041	99	99	19		52	19	11,722	16,414	38	4,730	110
53	043	19	19			19		1,768	1,869		120	
53	045		32	19		19		5,795	8,183	38	2,445	19
53	047	19	99			19		7,101	7,981	38	918	38
53	049	19	19			19		3,006	4,354	19	1,367	19
53	051		19			19		1,011	1,641	19	649	19
53	053	99	712	249		1,134	19	151,098	174,761	518	24,078	678
53	055					19		2,603	3,091	38	529	19
53	057	19	82	12		84	19	23,541	29,403	118	6,040	208
53	059		19					1,015	1,486		471	19
53	061	249	446	52		789	182	117,699	181,846	749	64,396	1,029
53	063	19	389	91	99	685	128	122,283	144,175	403	22,020	620
53	065	19	26	6		19		4,845	7,316	38	2,471	24
53	067	19	202	26		174		41,704	45,971	192	4,415	517
53	069							409	800		391	
53	071	6	43	19	19	99	19	13,478	16,580	38	3,159	41
53	073	249	249	99		499		40,168	50,669	257	10,581	215
53	075		99	19	19	19		5,916	6,784	19	868	29
53	077	999	222	99	19	112		41,785	52,059	411	10,481	267
54	001		19					2,167	2,409	3	261	
54	003		58			999		14,625	19,700	31	5,113	119
54	005		19					2,853	3,028	19	194	19
54	007		19		19			2,279	2,896		636	19
54	009		19			19	99	6,329	8,502	38	2,192	
54	011	99	108	99		376	19	35,211	43,193	154	8,071	148
54	013		19		99	19		697	1,357		660	
54	015		19					775	851		76	
54	017		19		19			544	738		194	
54	019		19			19		7,104	8,375	38	1,309	8
54	021				19			555	984	19	429	19
54	023		19					1,585	2,388		841	19
54	025	99	13	19		19		7,848	9,530	38	1,682	66
54	027	19	6		19			2,107	2,521	19	452	
54	029		19			249	99	6,109	15,993	31	9,922	19
54	031	99	10		19	19		1,508	5,506		3,998	19
54	033	19	99	19	999	99	19	18,077	21,955	137	3,996	124
54	035	19	19		99	19		4,247	7,764	38	3,517	38
54	037		6			249		7,049	10,924	38	3,993	99
54	039		133	249	999	307	19	69,692	80,250	276	10,712	295

To calculate allocation proportion of national emissions to county, divide number of county employees within an industry category by total (national) number of employees in that category

A = Animal Services, except veterinary; SIC Code =0750

B = Top Body Repair Paint Shops; SIC Code = 7532

C = Dental Laboratories; SIC Code = 8072

D = Petroleum Bulk Stations and Terminals; SIC Code =5171

E = Commercial Printing, Gravure; SIC Code = 2754

F = Plating and Polishings; SIC Code = 3471

G = COMM (seeAppendix C)

H = COMMIND (see Appendix C)

I = DRYCLEAN (see Appendix C

J = IND (see Appendix C)

K = SWIMPOOL (see Appendix C)

1 = data from the U.S. Census Bureau's 1999 County Business Employment

Appendix E-1. Employment Values Used for County Allocation 17 [1]

State FIPS	County FIPS	A	B	C	D	E	F	G	H	I	J	K
54	041		19		249	19		3,172	4,592	19	1,458	
54	043		19		19			1,231	1,454		223	
54	045		99		19	19		7,886	8,896		1,048	19
54	047		19			19		2,942	3,108	19	185	
54	049	19	99			100	19	11,017	13,478	217	2,499	48
54	051	19	19		99			4,979	6,043	38	1,163	6
54	053	19	19			19		2,775	4,741	19	1,985	
54	055	19	19	19	19	99		15,049	17,893	17	2,863	99
54	057		19					3,338	5,172	38	1,853	
54	059		19		99			3,628	4,481	38	872	
54	061	19	90	19		99		24,754	28,973	354	4,238	138
54	063				19			836	1,583		747	19
54	065						19	1,829	2,250	19	440	19
54	067		25			19		4,879	6,153	19	1,293	19
54	069		99	19	19	99		22,944	25,141	118	2,315	38
54	071		19		19			1,000	2,205		1,224	
54	073		19			19		912	1,487		575	
54	075	19	19					2,550	3,269		719	19
54	077		99		19	19		3,036	4,108	38	1,091	38
54	079		99			19		8,521	10,022	118	1,788	126
54	081	19	99	19		67	19	20,589	22,358	118	1,841	107
54	083	19	19		99	15		6,205	9,248	38	3,062	
54	085		19		19	19		870	2,601		1,731	
54	087				19	99		1,591	2,726	19	1,135	19
54	089		19					1,326	1,581	19	255	19
54	091		19			19		1,411	2,212		801	19
54	093					99		1,771	2,603		832	19
54	095		19			19		947	2,516		1,569	19
54	097		19		99	19		6,026	7,624	38	1,617	19
54	099	19	19	19	99	99		4,414	6,865	287	2,451	38
54	101		19					996	1,420		424	
54	103	19	19		99	19		3,055	6,090	38	3,073	19
54	105							365	559		194	
54	107	99	91	19	19	28		25,313	35,555	175	10,379	150
54	109		19		99	19	19	2,465	2,868	19	422	19
55	001		19					1,918	2,814	19	934	19
55	003	19	19		19	19		5,417	7,427	19	2,029	19
55	005		99	19		29		9,873	16,089	47	6,238	96
55	007				19			1,802	2,385	38	583	
55	009	2,131	205	249		1,995	379	83,471	113,863	550	30,656	463
55	011		19					1,656	2,198		580	19
55	013		99			19		2,079	3,526	19	1,466	19
55	015	19	19			19	249	5,325	13,075	38	7,769	1
55	017	19	99	19		41	99	10,589	18,741	119	8,171	268
55	019	249	28			19		4,399	8,068	19	3,688	
55	021	19	19			249		10,123	16,729	38	6,663	19
55	023	19	19			99		3,865	6,786	118	2,940	

To calculate allocation proportion of national emissions to county, divide number of county employees within an industry category by total (national) number of employees in that category

A = Animal Services, except veterinary; SIC Code =0750

B = Top Body Repair Paint Shops; SIC Code = 7532

C = Dental Laboratories; SIC Code = 8072

D = Petroleum Bulk Stations and Terminals; SIC Code =5171

E = Commercial Printing, Gravure; SIC Code = 2754

F = Plating and Polishings; SIC Code = 3471

G = COMM (seeAppendix C)

H = COMMIND (see Appendix C)

I = DRYCLEAN (see Appendix C

J = IND (see Appendix C)

K = SWIMPOOL (see Appendix C)

1 = data from the U.S. Census Bureau's 1999 County Business Employment

Appendix E-1. Employment Values Used for County Allocation 17 [1]

State FIPS	County FIPS	A	B	C	D	E	F	G	H	I	J	K
55	025	99	336	158	19	2,490	19	165,293	194,349	876	29,283	1,455
55	027	249	50	19		2,499		13,486	27,417	198	14,068	99
55	029		5			19		6,803	9,973	118	3,199	19
55	031		99	19	19	41		10,411	12,408	118	2,054	41
55	033	19	99		19	54		7,919	11,848	118	3,948	99
55	035		117	99	19	249	19	32,443	41,815	273	9,426	121
55	037							626	920		294	
55	039		99	19	19	578	99	26,646	40,569	79	13,984	40
55	041		19					1,837	2,663		845	19
55	043	19	99		19	94		9,133	14,606	54	5,530	9
55	045		19			499		8,854	13,449	38	4,633	19
55	047	19	19			99		4,180	6,482	19	2,340	19
55	049		20			19		8,219	9,838	19	1,638	
55	051		19			19		1,547	2,171		624	
55	053		19			99		2,736	4,118	19	1,401	38
55	055	99	46	19		1,179	99	17,464	32,460	198	15,015	38
55	057	19	99			19	99	4,863	8,500	118	3,656	19
55	059	99	249	18		249	249	33,024	46,741	97	13,774	154
55	061	19	19			999		2,677	5,620		2,943	
55	063		249	99		1,216	19	40,155	51,820	252	11,720	228
55	065	19	19			99		1,800	2,771	19	990	19
55	067	19	19	19		19	19	4,473	6,641	38	2,187	
55	069		99	19		130		5,072	9,140	38	4,125	38
55	071		42			136	249	15,829	30,950	118	15,125	194
55	073	249	103	19		499	19	37,102	56,234	102	19,161	127
55	075	19	35	19		33		8,717	16,606	38	7,927	19
55	077	19	19			19		1,687	3,533	19	1,846	19
55	078		19					1,594	2,630		1,036	
55	079	999	639	171		5,027	870	346,877	438,070	1,158	91,498	1,301
55	081	499	99			99		7,546	12,023	118	4,515	99
55	083		12			99		4,139	7,608	19	3,498	64
55	085		99	19		31		12,069	15,313	32	3,515	18
55	087	249	126	99		909	19	57,918	80,469	443	22,723	101
55	089		44	19		499	19	21,203	35,251	89	14,086	140
55	091		19			19		1,739	2,072	19	333	
55	093	19	99			19		4,531	6,108	38	1,607	19
55	095	19	99	19	19	99		6,611	11,362	118	4,751	19
55	097		55	19	19	999		18,374	25,579	38	7,243	247
55	099	19	19			19	99	3,106	6,065	19	2,978	
55	101	19	421	249	19	999	123	47,288	68,038	302	20,812	262
55	103	19	19			19		2,501	5,450	19	2,968	38
55	105	19	249	22	19	242	19	37,559	56,295	75	18,781	163
55	107		99			499		2,543	5,097	19	2,573	19
55	109	16	99			249		12,417	20,662	38	8,283	25
55	111	19	99	19		999	249	15,594	23,880	57	8,324	118
55	113	19	99	19		99		3,527	4,623	38	1,096	19
55	115	19	22	19	19	99		7,196	10,237	38	3,079	35

To calculate allocation proportion of national emissions to county, divide number of county employees within an industry category by total (national) number of employees in that category

A = Animal Services, except veterinary; SIC Code =0750

B = Top Body Repair Paint Shops; SIC Code = 7532

C = Dental Laboratories; SIC Code = 8072

D = Petroleum Bulk Stations and Terminals; SIC Code =5171

E = Commercial Printing, Gravure; SIC Code = 2754

F = Plating and Polishings; SIC Code = 3471

G = COMM (seeAppendix C)

H = COMMIND (see Appendix C)

I = DRYCLEAN (see Appendix C

J = IND (see Appendix C)

K = SWIMPOOL (see Appendix C)

1 = data from the U.S. Census Bureau's 1999 County Business Employment

Appendix E-1. Employment Values Used for County Allocation 17 [1]

State FIPS	County FIPS	A	B	C	D	E	F	G	H	I	J	K
55	117	19	63	19		811	19	29,286	51,278	153	22,049	451
55	119		19					3,664	7,410	19	3,746	19
55	121	51	12	19		99		4,373	10,184		5,830	
55	123	19	19			249		4,646	6,430	19	1,803	19
55	125		19			7		3,359	4,113	19	792	21
55	127	63	99			499	19	20,468	32,006	91	11,787	31
55	129		19	19		16		3,243	4,705		1,500	38
55	131		89	19	19	4,999	19	25,688	42,567	249	17,011	295
55	133	19	477	133	19	7,314	418	137,408	190,346	1,436	53,387	960
55	135		99	19		999		9,223	17,094	57	7,970	118
55	137	19	99	19		19		3,038	4,225	6	1,225	
55	139		249	99		3,774	19	47,123	76,695	355	29,707	429
55	141	99	28	99	19	179		25,242	35,740	280	10,505	157
56	001	19	32			47		8,909	10,139	38	1,249	118
56	003	19	5					1,196	1,676	19	499	
56	005		19	19	19	20		7,718	8,343	38	644	59
56	007	19	9		19	19		3,142	3,953	19	830	
56	009	10	19			99		1,876	2,137	38	261	19
56	011	19						700	1,185		485	
56	013	19	25	19	19	18		7,312	8,429	19	1,155	99
56	015		19			19		2,440	3,099	19	659	
56	017	19						1,378	1,652		293	118
56	019	19	20	19		19		1,352	1,622	19	270	99
56	021		70	19		249		20,912	23,466	165	2,600	21
56	023		19			19		1,888	3,202	19	1,314	
56	025	7	99	19	99	99	99	18,974	21,480	119	2,563	186
56	027					19		540	578		38	19
56	029	19	20	19		84		7,219	8,289	38	1,077	10
56	031	19	19					1,551	1,797	19	246	
56	033	19	99	19		21		7,493	8,097	38	609	33
56	035	19	19					915	1,133		237	19
56	037	99	41	19	99	19		8,226	9,677	37	1,470	99
56	039		99			33		10,880	11,692	118	861	268
56	041		99		99	19		4,210	4,870	38	698	19
56	043	19	19			19		2,216	3,157	99	960	
56	045		19					974	1,328	19	354	38
Total Employees		**236,682**	**257,790**	**64,789**	**59,137**	**868,939**	**93,781**	**79,880,992**	**100,318,033**	**434,422**	**20,299,409**	**433,387**

To calculate allocation proportion of national emissions to county, divide number of county employees within an industry category by total (national) number of employees in that category

A = Animal Services, except veterinary; SIC Code =0750
B = Top Body Repair Paint Shops; SIC Code = 7532
C = Dental Laboratories; SIC Code = 8072
D = Petroleum Bulk Stations and Terminals; SIC Code =5171
E = Commercial Printing, Gravure; SIC Code = 2754
F = Plating and Polishings; SIC Code = 3471
G = COMM (seeAppendix C)
H = COMMIND (see Appendix C)
I = DRYCLEAN (see Appendix C
J = IND (see Appendix C)
K = SWIMPOOL (see Appendix C)

1 = data from the U.S. Census Bureau's 1999 County Business Employment

Appendix E-2

County-Level Allocation Values Used for Allocation Schemes 18, 22, and 27 (Residential Heating Categories are listed in Appendix E-3)

Appendix E-2. County-level Allocation Values Used for Allocation Schemes 18, 22, and 27

State FIPS	County FIPS	A	B	C	D	E	F	G	H	I	J	K	L
		1000dollars	1000barrels	acres	beds	cremations	gallons	people	10E+6VMT	tires	acres	LTOs	%Red. Appl.
01	001	416		104,785		23	9,722	43,140	16,745		104,785	1,637	
01	003	1,311		165,565	388	71	30,609	135,820	64,108		165,565	13,696	
01	005	258		153,775	39	14	6,023	26,726	14,244		153,775	5,072	
01	007	189		46,903	39	10	4,417	19,601	7,808		46,903		
01	009	457		138,509	39	25	10,685	47,411	19,848		138,509		
01	011	109		168,715	16	6	2,556	11,343	5,291		168,715		
01	013	208		97,298	39	11	4,850	21,522	19,987		97,298	599	
01	015	1,125		77,429	489	61	26,264	116,541	53,535		77,429	4,183	
01	017	351		94,277	78	19	8,196	36,369	12,486		94,277	656	
01	019	211		123,122	39	12	4,934	21,894	10,045		123,122	807	
01	021	363		98,746	39	20	8,475	37,604	22,660		98,746	6,364	
01	023	150		65,027		8	3,497	15,518	6,582		65,027	437	
01	025	277		61,436	67	15	6,481	28,756	10,680		61,436		
01	027	135		75,249	78	7	3,158	14,012	5,625		75,249		
01	029	139		50,782		8	3,258	14,456	13,499		50,782		
01	031	407		186,981	39	22	9,494	42,128	16,269		186,981	3,280	
01	033	507		115,542	155	28	11,843	52,552	22,697		115,542	5,046	
01	035	132		88,276	39	7	3,094	13,728	14,357		88,276		
01	037	113		41,716		6	2,639	11,712	6,754		41,716		
01	039	363		180,056	107	20	8,471	37,587	15,734		180,056	2,739	
01	041	131		129,460		7	3,069	13,619	6,615		129,460		
01	043	730		202,861	388	40	17,051	75,661	32,385		202,861		
01	045	474		130,975	155	26	11,072	49,127	21,560		130,975	14,975	
01	047	450		248,674	155	25	10,518	46,669	13,715		248,674	8,971	
01	049	569		223,685	78	31	13,285	58,948	27,872		223,685	2,599	
01	051	613		124,260	39	33	14,308	63,488	20,646		124,260		
01	053	354		87,056	78	19	8,264	36,671	19,354		87,056	2,159	
01	055	998		94,970	388	54	23,319	103,472	42,230		94,970	4,912	
01	057	175		62,974	78	10	4,080	18,103	7,723		62,974	3,645	
01	059	287		128,437	16	16	6,697	29,716	14,715		128,437		
01	061	241		206,615	78	13	5,627	24,968	9,420		206,615		
01	063	94		123,243	39	5	2,199	9,756	11,597		123,243		
01	065	163		157,743	39	9	3,802	16,870	6,671		157,743		
01	067	152		153,529		8	3,558	15,787	9,116		153,529		
01	069	831		198,215	898	45	19,408	86,116	37,123		198,215	6,102	

To calculate allocation proportion of national emissions to county, divide number of county unit within an industry category by total (national) number of units within that category

A = Asphalt Paving: Cutback; FHWA funding

B = Drum and Barrel Reclamation; 55-gallon barrels reclaimed

C = Grain Elevators; Acreage farms available

D = Hospital Sterilizers; Number of beds

E = Human Cremation; Number of cremations

F = Surface Coating: Traffic Markings; Gallons of paint

G = Multiple; Number of people

H = Gasoline Distribution Stage I and II; Vehicle Miles Travelled (VMT)

I = Open Burning: Scrap Tires; Number of tires burned

J = Pesticide Application; Acreage farms available

K = Aviation Gasoline Distribution: Stage I and II; Landing-TakeOffs

L = Gasoline Distribution Stage II; % Reduction applied; (see PageE2-92 for information on this reduction)

Appendix E-2. County-level Allocation Values Used for Allocation Schemes 18, 22, and 27

State FIPS	County FIPS	A	B	C	D	E	F	G	H	I	J	K	L
		1000dollars	1000barrels	acres	beds	cremations	gallons	people	10E+6VMT	tires	acres	LTOs	%Red. Appl.
01	071	497		221,166	155	27	11,614	51,535	26,253		221,166		
01	073	6,344		41,333	5,470	346	148,160	657,422	279,520		41,333	19,837	
01	075	155		71,351		8	3,614	16,034	7,273		71,351		
01	077	814		211,586	777	44	19,004	84,327	30,424		211,586		
01	079	326		204,970	39	18	7,616	33,795	13,398		204,970	2,776	
01	081	986		75,786	388	54	23,024	102,164	37,445		75,786	11,812	
01	083	608		253,889	155	33	14,206	63,037	31,281		253,889	31,469	
01	085	126		173,049		7	2,936	13,029	11,471		173,049		
01	087	222		127,334	388	12	5,182	22,993	17,021		127,334	4,409	
01	089	2,706		210,455	1,219	147	63,188	280,381	80,581		210,455	16,043	
01	091	223		198,422	78	12	5,219	23,158	9,669		198,422	1,239	
01	093	294		98,078	155	16	6,866	30,464	19,575		98,078	5,131	
01	095	777		146,129	388	42	18,147	80,524	24,840		146,129	5,573	
01	097	3,856		121,320	2,081	210	90,068	399,652	129,546		121,320	15,289	
01	099	231		134,551	39	13	5,400	23,960	8,081		134,551	4,065	
01	101	2,082		240,951	1,174	113	48,637	215,813	87,129		240,951	9,833	
01	103	1,058		158,711	388	58	24,715	109,665	44,377		158,711	3,061	
01	105	122		144,648	39	7	2,842	12,610	4,746		144,648		
01	107	203		123,132	78	11	4,739	21,028	9,565		123,132		
01	109	275		173,522	39	15	6,416	28,469	14,533		173,522	8,971	
01	111	196		108,122	78	11	4,567	20,263	7,025		108,122		
01	113	483		96,088	78	26	11,284	50,071	22,740		96,088		
01	115	616		76,849		34	14,390	63,852	36,635		76,849	7,777	
01	117	1,413		68,421	155	77	32,992	146,392	48,799		68,421		
01	119	151		174,769	16	8	3,519	15,615	13,596		174,769		
01	121	748		109,560	155	41	17,471	77,521	26,637		109,560	19,511	
01	123	389		78,232	210	21	9,089	40,329	16,664		78,232	7,368	
01	125	1,558		99,827	777	85	36,382	161,435	81,613		99,827	7,058	
01	127	688		54,950	388	38	16,073	71,318	28,425		54,950	6,730	
01	129	171		87,143	39	9	3,998	17,742	8,261		87,143		
01	131	129		154,065	16	7	3,023	13,414	5,607		154,065		
01	133	236		59,090		13	5,512	24,459	10,034		59,090	2,372	
02	013	45				5	1,062	2,179	679			436	
02	016	82				8	1,906	3,913	1,353			14	
02	020	5,378			946	558	125,595	257,808	57,523			26,937	

To calculate allocation proportion of national emissions to county, divide number of county unit within an industry category by total (national) number of units within that category

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L = Gasoline Distribution Stage II; % Reduction applied; (see PageE2-92 for information on this reduction)

Appendix E-2. County-level Allocation Values Used for Allocation Schemes 18, 22, and 27

State FIPS	County FIPS	A	B	C	D	E	F	G	H	I	J	K	L
		1000dollars	1000barrels	acres	beds	cremations	gallons	people	10E+6VMT	tires	acres	LTOs	%Red. Appl.
02	050	338			92	35	7,899	16,215	4,736			7,480	
02	060	22				2	517	1,061	287			892	
02	068	39				4	917	1,883	568				
02	070	95			46	10	2,224	4,565	1,612			14,001	
02	090	1,760			229	182	41,100	84,366	19,263			12,728	
02	100	48				5	1,115	2,288	723				
02	110	630			46	65	14,709	30,192	4,359			5,240	
02	122	1,022			92	106	23,868	48,993	12,386			6,546	
02	130	294			46	30	6,868	14,097	3,000			161	
02	150	299			23	31	6,991	14,350	3,481			1,151	
02	164	36				4	852	1,748	524				
02	170	1,209			46	125	28,229	57,945	19,698			4,486	
02	180	186			46	19	4,340	8,908	2,215			1,752	
02	185	148			9	15	3,454	7,089	1,535			2,159	
02	188	140			46	15	3,274	6,720	2,454			8,579	
02	201	140				14	3,261	6,694	2,444				
02	220	171			92	18	3,991	8,193	1,024			1,962	
02	232	73				8	1,700	3,489	1,192				
02	240	122				13	2,851	5,852	2,114			2,663	
02	261	213			9	22	4,983	10,229	2,801			1,922	
02	270	145				15	3,392	6,963	2,544			84	
02	280	142			23	15	3,314	6,802	1,613			953	
02	282	16				2	375	770	198				
02	290	129				13	3,015	6,188	2,238			10,093	
04	001	229			220	295	5,351	68,562	42,462			2,047	
04	003	377			246	486	8,800	112,754	56,449		1,260,021	4,564	
04	005	383			315	493	8,937	114,498	79,290		6,209,424	11,114	
04	007	164			115	211	3,828	49,051	18,766				
04	009	107			55	138	2,497	31,998	10,480		1,244,760		
04	011	30				39	704	9,018	2,606		29,406		
04	012	50			55	64	1,160	14,867	17,999		278,854	2,523	
04	013	9,562			6,474	12,322	223,330	2,861,395	805,743		708,656	161,753	86
04	015	449			285	578	10,476	134,222	64,147		997,171	20,292	
04	017	329			179	423	7,674	98,327	56,657		3,902,552	12,055	
04	019	2,686			2,630	3,461	62,722	803,618	225,334		2,913,607	42,128	

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Appendix E-2. County-level Allocation Values Used for Allocation Schemes 18, 22, and 27

State FIPS	County FIPS	A	B	C	D	E	F	G	H	I	J	K	L
		1000dollars	1000barrels	acres	beds	cremations	gallons	people	10E+6VMT	tires	acres	LTOs	%Red. Appl.
04	021	509			110	656	11,887	152,301	78,852		1,303,431	3,252	
04	023	131			55	169	3,056	39,150	17,806		265,285	3,785	
04	025	511			326	659	11,938	152,957	81,624		771,632	38,063	
04	027	453			276	584	10,585	135,614	53,279		237,742	4,222	
05	001	113		426,363	84	28	2,633	20,717	5,523		426,363	5,327	
05	003	132		165,826	42	33	3,087	24,287	7,391		165,826	1,738	
05	005	200		105,323	421	49	4,660	36,664	13,754		105,323	2,944	
05	007	753		296,543	329	186	17,594	138,424	45,810	1,500	296,543	16,533	
05	009	173		257,698	168	43	4,048	31,846	11,361		257,698	2,243	
05	011	62		28,900	42	15	1,450	11,409	3,285		28,900	617	
05	013	31		17,622		8	719	5,657	2,510		17,622		
05	015	123		242,482	84	30	2,862	22,516	8,587		242,482		
05	017	81		287,962	42	20	1,889	14,858	2,276		287,962	813	
05	019	116		96,301	84	29	2,720	21,403	16,455		96,301	1,682	
05	021	93		323,578	42	23	2,164	17,025	4,784		323,578	1,598	
05	023	127		117,435	42	31	2,961	23,296	5,345		117,435	2,243	
05	025	47		32,824		11	1,088	8,558	3,849		32,824		
05	027	134		57,683	84	33	3,138	24,686	8,170		57,683	2,523	
05	029	108		162,732	84	27	2,524	19,856	11,867		162,732	897	
05	031	423		363,253	421	104	9,872	77,668	23,521		363,253	4,996	
05	033	280		138,811	84	69	6,534	51,409	25,567		138,811		
05	035	273		319,824	168	67	6,373	50,138	27,143		319,824	14,018	
05	037	105		343,634	17	26	2,453	19,302	6,389		343,634		
05	039	49		23,228	42	12	1,134	8,920	2,056		23,228		
05	041	81		275,954	84	20	1,888	14,855	3,496		275,954	2,243	
05	043	95		122,552	42	23	2,218	17,449	5,534		122,552		
05	045	436		211,467	168	107	10,173	80,034	32,619		211,467	1,682	
05	047	91		171,391	17	23	2,135	16,801	10,342		171,391	1,121	
05	049	60		227,794	42	15	1,401	11,019	4,705		227,794		
05	051	460		43,471	609	113	10,737	84,475	27,272		43,471	5,046	
05	053	87		32,519		21	2,032	15,984	5,713		32,519		
05	055	198		262,827	168	49	4,626	36,395	10,562		262,827	3,364	
05	057	120		189,435	42	30	2,808	22,093	13,209		189,435	5,607	
05	059	159		75,305	84	39	3,706	29,154	18,875		75,305	1,682	
05	061	74		108,020	42	18	1,739	13,681	2,642		108,020		

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Appendix E-2. County-level Allocation Values Used for Allocation Schemes 18, 22, and 27

State FIPS	County FIPS	A	B	C	D	E	F	G	H	I	J	K	L
		1000dollars	1000barrels	acres	beds	cremations	gallons	people	10E+6VMT	tires	acres	LTOs	%Red. Appl.
05	063	180		283,126	168	44	4,203	33,066	12,336		283,126	11,214	
05	065	71		187,863	42	18	1,667	13,112	3,812		187,863		
05	067	95		335,099	84	24	2,226	17,516	5,997		335,099	1,962	
05	069	440		288,655	421	108	10,268	80,785	26,816		288,655	1,367	
05	071	116		114,579	84	29	2,715	21,358	13,441		114,579	280	
05	073	48		97,701		12	1,124	8,846	3,983		97,701		
05	075	94		293,576	84	23	2,204	17,342	4,791		293,576	841	
05	077	69		279,643		17	1,614	12,699	3,366		279,643		
05	079	78		184,232		19	1,827	14,372	5,220		184,232		
05	081	71		146,344	42	18	1,661	13,065	4,451		146,344		
05	083	115		199,294	42	28	2,686	21,134	6,261		199,294		
05	085	280		390,705		69	6,539	51,447	26,076		390,705	3,364	
05	087	72		282,114		18	1,692	13,313	6,074		282,114		
05	089	81		139,553		20	1,894	14,902	6,814		139,553	1,009	
05	091	214		154,096		53	5,005	39,377	16,813		154,096	5,320	
05	093	272		489,158	168	67	6,345	49,920	31,010		489,158	1,738	
05	095	54		235,812		13	1,270	9,990	7,199		235,812	561	
05	097	48		74,260		12	1,111	8,740	3,935		74,260		
05	099	55		72,810		13	1,274	10,024	6,170		72,810		
05	101	45		108,680		11	1,046	8,226	3,691		108,680		
05	103	150		29,449	168	37	3,494	27,487	9,474		29,449	2,243	
05	105	53		72,711		13	1,230	9,678	4,372		72,711		
05	107	147		361,185	84	36	3,438	27,049	6,676		361,185	841	
05	109	57		73,211	17	14	1,328	10,451	3,003		73,211		
05	111	134		401,266		33	3,126	24,592	8,516		401,266		
05	113	107		133,203	42	26	2,492	19,607	7,116		133,203	841	
05	115	286		152,100	168	71	6,685	52,598	21,944		152,100		
05	117	51		301,851		12	1,180	9,284	10,832		301,851		
05	119	1,901		110,830	4,502	469	44,389	349,232	138,901		110,830	21,958	
05	121	97		265,771	42	24	2,276	17,904	6,185		265,771	981	
05	123	151		289,882	84	37	3,529	27,766	24,612		289,882	1,682	
05	125	426		50,225	168	105	9,960	78,361	32,808		50,225		
05	127	58		115,733	42	14	1,353	10,644	3,389		115,733		
05	129	42		188,275		10	990	7,791	3,485		188,275		
05	131	578		114,950	841	143	13,505	106,252	35,020		114,950	6,220	

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Appendix E-2. County-level Allocation Values Used for Allocation Schemes 18, 22, and 27

State FIPS	County FIPS	A	B	C	D	E	F	G	H	I	J	K	L
		1000dollars	1000barrels	acres	beds	cremations	gallons	people	10E+6VMT	tires	acres	LTOs	%Red. Appl.
05	133	80		133,466	42	20	1,865	14,671	4,447		133,466		
05	135	93		173,598	42	23	2,172	17,092	5,750		173,598	505	
05	137	61		142,453	42	15	1,426	11,220	3,242		142,453		
05	139	245		34,150	168	60	5,715	44,967	15,357		34,150	1,507	
05	141	85		132,417	42	21	1,993	15,677	7,171		132,417		
05	143	798		334,667	901	197	18,632	146,593	52,126		334,667	12,698	
05	145	354		394,294	421	87	8,272	65,081	23,697		394,294		
05	147	47		284,731		12	1,107	8,710	1,784		284,731		
05	149	103		188,480	42	25	2,396	18,853	6,865		188,480		
06	001			258,070	4,501	4,439	3,083	1,415,582	408,359		258,070	92,376	95
06	003			3,942		4	3	1,161	566		3,942		95
06	005			204,398	72	107	74	34,153	14,670		204,398	3,476	95
06	007			404,166	808	612	425	195,220	58,412		404,166	12,391	95
06	009			245,116	36	126	87	40,051	15,197		245,116		95
06	011			430,958	36	59	41	18,844	12,879		430,958	6,028	95
06	013			147,859	2,344	2,926	2,032	933,141	256,616		147,859	31,602	95
06	015			13,303	72	83	58	26,477	9,132		13,303	421	95
06	017			102,726	348	506	351	161,358	56,868		102,726	5,052	95
06	019			1,881,418	2,062	2,393	1,662	763,069	281,705		1,881,418	34,609	95
06	021			482,583	36	83	57	26,328	14,512		482,583	7,065	95
06	023			584,538	483	381	264	121,358	47,312		584,538	14,298	95
06	025			489,726	248	456	316	145,287	66,723		489,726	14,578	95
06	027			198,658	72	56	39	17,958	7,587		198,658	4,486	95
06	029			2,851,462	1,472	2,015	1,399	642,495	240,643		2,851,462	36,543	95
06	031			656,968	295	386	268	123,241	46,896		656,968	28	95
06	033			138,482	145	174	121	55,405	23,422		138,482	10,373	95
06	035			453,826	36	104	72	33,028	12,292		453,826		95
06	037			130,838	26,208	29,255	20,320	9,329,989	3,023,790		130,838	387,323	95
06	039			641,546	145	366	254	116,760	42,269		641,546	3,443	95
06	041			149,663	458	742	516	236,768	82,475		149,663		95
06	043			198,230	36	49	34	15,605	8,068		198,230		95
06	045			638,566	203	264	183	84,085	37,769		638,566	7,850	95
06	047			881,696	331	629	437	200,746	83,505		881,696	4,766	95
06	049			662,927	36	29	20	9,210	3,967		662,927	294	95
06	051			68,813	36	33	23	10,512	4,414		68,813		95

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Appendix E-2. County-level Allocation Values Used for Allocation Schemes 18, 22, and 27

State FIPS	County FIPS	A	B	C	D	E	F	G	H	I	J	K	L
		1000dollars	1000barrels	acres	beds	cremations	gallons	people	10E+6VMT	tires	acres	LTOs	%Red. Appl.
06	053			1,544,064	974	1,166	810	371,756	107,310		1,544,064	33,019	95
06	055			212,401	657	379	263	120,962	34,659		212,401	19,133	95
06	057			62,772	363	289	200	92,014	43,001		62,772	12,956	95
06	059			58,113	6,495	8,657	6,013	2,760,948	919,475		58,113	86,351	95
06	061			139,597	363	751	522	239,485	95,623		139,597		95
06	063			108,896	122	64	44	20,370	8,524		108,896		95
06	065			509,031	2,650	4,800	3,334	1,530,653	521,383		509,031	54,774	95
06	067			308,035	3,294	3,714	2,580	1,184,586	404,942		308,035	30,294	95
06	069			511,571	72	161	112	51,276	16,648		511,571		95
06	071			924,015	4,782	5,236	3,637	1,669,934	582,606		924,015	62,811	95
06	073			474,901	6,929	8,845	6,144	2,820,844	971,993		474,901	132,704	95
06	075			21	4,125	2,342	1,626	746,777	150,943		21		95
06	077			808,838	1,419	1,766	1,227	563,183	206,873	7,000,000	808,838	30,879	95
06	079			1,301,889	591	743	516	236,953	78,714		1,301,889	16,993	95
06	081			44,588	1,533	2,202	1,529	702,102	192,884		44,588	7,382	95
06	083			817,068	1,136	1,226	852	391,071	119,919		817,068	38,622	95
06	085			318,654	5,646	5,166	3,588	1,647,419	468,828		318,654	25,090	95
06	087			71,115	477	769	534	245,201	68,220		71,115	20,017	95
06	089			316,743	607	516	358	164,530	68,986		316,743	10,879	95
06	091			46,359	14	10	7	3,334	1,940		46,359		95
06	093			628,745	145	137	95	43,570	30,332		628,745	1,402	95
06	095			362,102	941	1,209	840	385,723	141,783		362,102	5,747	95
06	097			570,804	1,118	1,380	958	439,970	138,793		570,804	25,505	95
06	099			732,736	1,341	1,370	951	436,790	148,739	5,000,000	732,736	13,862	95
06	101			348,349	145	246	171	78,423	23,949		348,349		95
06	103			885,426	72	169	118	54,012	27,044		885,426	4,205	95
06	105			118,252		41	28	12,927	5,151		118,252		95
06	107			1,309,525	839	1,124	781	358,470	135,277		1,309,525	14,480	95
06	109			152,355	363	169	117	53,764	22,109		152,355	11,214	95
06	111			346,279	1,581	2,336	1,623	745,063	259,781		346,279	40,319	95
06	113			536,595	145	488	339	155,573	66,375		536,595	8,663	95
06	115			208,462	145	187	130	59,607	18,129		208,462	12,128	95
08	001	1,220			328	1,042	28,501	331,045	115,500		673,713		86
08	003	54			66	46	1,257	14,595	6,516		189,987	4,402	
08	005	1,777			657	1,517	41,504	482,089	119,564		332,940	51,288	86

To calculate allocation proportion of national emissions to county, divide number of county unit within an industry category by total (national) number of units within that category

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L = Gasoline Distribution Stage II; % Reduction applied; (see PageE2-92 for information on this reduction)

Appendix E-2. County-level Allocation Values Used for Allocation Schemes 18, 22, and 27

State FIPS	County FIPS	A	B	C	D	E	F	G	H	I	J	K	L
		1000dollars	1000barrels	acres	beds	cremations	gallons	people	10E+6VMT	tires	acres	LTOs	%Red. Appl.
08	007	35				30	827	9,604	5,722		112,670		
08	009	16			33	14	372	4,319	2,945		1,142,327		
08	011	21				18	499	5,799	3,672		784,273		
08	013	1,007			566	860	23,513	273,112	71,575		128,146	8,405	86
08	015	58			33	49	1,343	15,601	7,998		85,608		
08	017	8			13	7	192	2,229	2,904		795,815		
08	019	34				29	789	9,167	15,520		5,114		
08	021	30			33	25	695	8,077	3,564		284,676		
08	023	13				11	308	3,575	3,821		363,220		
08	025	16				14	381	4,428	1,274		389,724		
08	027	13				11	310	3,596	1,506		144,247		
08	029	100			66	86	2,341	27,197	10,579		281,889		
08	031	1,842			3,965	1,573	43,027	499,775	174,461		74	4,997	86
08	033	7				6	162	1,876	1,545		155,741		
08	035	578				494	13,505	156,860	69,425		204,360		86
08	037	129				110	3,009	34,950	23,012		185,032	5,284	
08	039	73				62	1,701	19,757	9,993		1,095,248		
08	041	1,843			1,424	1,574	43,046	499,994	121,509		866,953	17,295	
08	043	165			66	141	3,848	44,699	13,837		283,490		
08	045	150			131	128	3,501	40,671	21,572		427,161	1,443	
08	047	16				14	385	4,474	3,572		8,771		
08	049	39			13	33	902	10,474	9,989		251,202	720	
08	051	46			33	40	1,083	12,576	8,733		195,030	4,129	
08	053	3				2	64	740	407		8,834		
08	055	25			33	21	586	6,802	7,356		641,124		
08	057	6				5	133	1,540	1,746		477,063		
08	059	1,877			657	1,603	43,840	509,222	150,937		97,623	23,082	86
08	061	6			13	5	141	1,634	2,278		913,801		
08	063	27			33	23	638	7,411	8,130		1,345,724		
08	065	24			33	20	550	6,385	3,824		17,188		
08	067	152			131	130	3,543	41,148	19,396		580,135	3,430	
08	069	873			545	745	20,391	236,849	69,934		542,259	14,797	
08	071	54			33	46	1,267	14,712	6,427		2,214,992	2,061	
08	073	21			13	18	488	5,672	6,451		1,648,323		
08	075	66			66	56	1,544	17,932	9,052		1,128,756	807	

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Appendix E-2. County-level Allocation Values Used for Allocation Schemes 18, 22, and 27

State FIPS	County FIPS	A	B	C	D	E	F	G	H	I	J	K	L
		1000dollars	1000barrels	acres	beds	cremations	gallons	people	10E+6VMT	tires	acres	LTOs	%Red. Appl.
08	077	424			501	362	9,913	115,147	32,100		416,613	11,361	
08	079	3				2	63	727	2,012				
08	081	47			33	40	1,095	12,714	5,223		1,031,091	151	
08	083	84			66	71	1,952	22,672	14,190		935,330	1,402	
08	085	116			66	99	2,706	31,432	10,663		371,881	2,672	
08	087	94			66	80	2,186	25,393	9,123		741,007		
08	089	76			131	65	1,775	20,612	7,640		579,647	1,296	
08	091	13				11	299	3,475	4,053		116,906		
08	093	52				45	1,224	14,218	8,910		311,182		
08	095	16			33	13	364	4,226	1,768		463,376		
08	097	49			66	42	1,148	13,332	7,781		25,209	8,655	
08	099	51			33	43	1,186	13,781	6,162		862,953	2,183	
08	101	505			657	431	11,794	136,987	44,632		822,584	8,666	
08	103	23			33	20	534	6,203	3,146		466,272		
08	105	42			13	36	991	11,508	6,091		231,734	737	
08	107	66			66	56	1,545	17,941	7,699		520,618	4,830	
08	109	23				19	532	6,176	3,939		481,541		
08	111	2				2	45	522	1,642				
08	113	20				17	470	5,464	3,424		161,937		
08	115	10			33	8	223	2,587	2,559		294,185		
08	117	72				62	1,688	19,610	17,167		34,541		
08	119	78				67	1,828	21,228	7,772		83,443		
08	121	16				14	375	4,357	5,066		1,394,238	2,523	
08	123	611			328	522	14,275	165,805	73,960		1,913,603	22,193	
08	125	35			33	30	812	9,430	4,934		1,365,183		
09	001	484			1,934	2,089	11,312	841,334	264,484			41,275	95
09	003	478			2,982	2,060	11,155	829,671	271,139			33,144	95
09	005	105			314	453	2,452	182,399	38,673				95
09	007	87			284	376	2,036	151,461	51,210			2,397	95
09	009	457			3,071	1,970	10,665	793,208	231,080			8,095	95
09	011	142			569	611	3,308	246,049	97,613			9,962	95
09	013	76			229	329	1,784	132,668	47,713				95
09	015	61			284	261	1,415	105,241	40,435			4,006	95
10	001	5,316			586	257	124,159	126,048	54,532			3,364	86
10	003	20,547			3,611	994	479,879	487,182	169,238			15,672	86

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Appendix E-2. County-level Allocation Values Used for Allocation Schemes 18, 22, and 27

State FIPS	County FIPS	A	B	C	D	E	F	G	H	I	J	K	L
		1000dollars	1000barrels	acres	beds	cremations	gallons	people	10E+6VMT	tires	acres	LTOs	%Red. Appl.
10	005	5,917			1,173	286	138,205	140,308	73,630			2,561	86
11	001	7,798			2,595	1,093	182,121	519,000	120,804				86
12	001	144			2,182	942	3,356	198,484	66,888		198,193	11,952	
12	003	15			41	101	358	21,181	17,357		13,035		
12	005	107			823	702	2,501	147,958	39,115		6,732	9,242	
12	007	18			41	118	420	24,872	9,439		43,579	3,995	
12	009	340			1,491	2,233	7,952	470,365	166,343		276,573	36,642	
12	011	1,111			5,534	7,289	25,959	1,535,468	448,792		30,897	108,842	95
12	013	9			41	59	210	12,436	4,628		43,799		
12	015	99			599	650	2,316	136,992	40,980		290,340	6,896	
12	017	84			411	551	1,963	116,111	45,055		49,192		
12	019	102			164	671	2,390	141,353	38,557		70,834		
12	021	150			823	983	3,500	207,029	77,157		277,279	25,434	
12	023	39			401	255	909	53,738	41,685		97,100		
12	027	18			82	117	417	24,636	9,497		322,402		
12	029	9				61	218	12,919	4,810		33,508	2,243	
12	031	535			3,180	3,506	12,485	738,483	288,987		35,531	27,800	
12	033	204			1,609	1,341	4,775	282,432	108,293		54,617	10,886	
12	035	36			82	233	830	49,110	24,930		87,737	28,006	
12	037	7				47	169	9,978	2,682		5,125		
12	039	32			41	209	745	44,077	30,256		57,933	926	
12	041	10				67	238	14,056	5,240		78,090		
12	043	6				41	147	8,693	3,205		380,377		
12	045	10			41	64	229	13,562	3,482		3,823		
12	047	9			16	61	216	12,785	17,088		66,379		
12	049	15			41	100	355	21,017	6,716		345,643		
12	051	21			41	140	498	29,463	9,494		604,677		
12	053	93			411	610	2,172	128,482	34,054		52,999	6,028	
12	055	54			411	355	1,265	74,795	22,474		489,579	14,449	
12	057	681			3,882	4,465	15,900	940,484	287,699		247,502	25,386	
12	059	14			41	89	317	18,761	9,523		87,582	1,983	
12	061	73			411	476	1,695	100,253	32,651		168,399	38,941	
12	063	32			82	211	753	44,549	30,436		244,552	2,243	
12	065	9				62	221	13,090	12,245		126,590		
12	067	5				31	110	6,477	2,354		93,434		

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Appendix E-2. County-level Allocation Values Used for Allocation Schemes 18, 22, and 27

State FIPS	County FIPS	A	B	C	D	E	F	G	H	I	J	K	L
		1000dollars	1000barrels	acres	beds	cremations	gallons	people	10E+6VMT	tires	acres	LTOs	%Red. Appl.
12	069	152			767	996	3,547	209,812	82,326		185,311		
12	071	290			823	1,901	6,772	400,542	154,535		129,001	18,762	
12	073	156			823	1,025	3,651	215,926	55,545		67,539	12,200	
12	075	23				154	548	32,386	12,233		157,376	3,084	
12	077	5				32	113	6,703	2,442		7,238		
12	079	13			41	85	303	17,919	19,652		131,577		
12	081	176			411	1,156	4,117	243,531	72,166		267,993	35,543	
12	083	178			823	1,168	4,159	245,975	96,351		265,572	9,659	
12	085	86			411	561	1,997	118,117	40,032		183,724		
12	086	1,575			9,959	10,328	36,782	2,175,634	506,137		85,093	69,567	95
12	087	58			164	379	1,352	79,941	31,864		1,241	18,873	
12	089	41			82	270	960	56,811	27,668		35,165		
12	091	123			652	807	2,875	170,049	55,937		50,822	8,537	
12	093	23			82	154	548	32,386	9,031		391,871		
12	095	592			3,767	3,879	13,816	817,206	300,168		175,017	49,838	
12	097	109			311	715	2,546	150,596	29,772		610,825	16,928	
12	099	760			3,691	4,982	17,742	1,049,420	302,918		604,703	72,936	95
12	101	239			823	1,570	5,591	330,704	111,237		161,939	2,081	
12	103	636			4,001	4,170	14,852	878,499	260,997		1,895	38,442	
12	105	331			1,436	2,171	7,732	457,347	150,087		621,489	44,861	
12	107	51			164	333	1,187	70,215	26,871		85,794	6,190	
12	109	87			411	568	2,023	119,685	61,122		49,631	8,971	
12	111	132			411	863	3,074	181,850	59,024		227,414	22,475	
12	113	88			164	574	2,045	120,952	50,418		87,971		
12	115	222			1,425	1,455	5,183	306,546	94,056		128,655	21,956	
12	117	259			591	1,697	6,042	357,390	127,148		37,222	42,337	
12	119	31				203	723	42,754	25,905		183,374		
12	121	24			41	157	557	32,972	25,104		158,406		
12	123	14			16	90	322	19,049	6,160		56,784	1,962	
12	125	9			82	60	215	12,720	2,257		62,503		
12	127	308			1,538	2,020	7,195	425,601	152,164		111,502	123,884	
12	129	14				91	324	19,179	7,185		11,426		
12	131	28			41	181	645	38,124	25,723		78,844		
12	133	15			41	98	349	20,614	13,399		55,268		
13	001	233		107,573	92	18	5,449	16,675	5,163		107,573		

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State FIPS	County FIPS	A	B	C	D	E	F	G	H	I	J	K	L
		1000dollars	1000barrels	acres	beds	cremations	gallons	people	10E+6VMT	tires	acres	LTOs	%Red. Appl.
13	003	102		62,779		8	2,384	7,295	2,834		62,779		
13	005	145		70,445	46	11	3,387	10,365	2,659		70,445	1,346	
13	007	51		119,192		4	1,182	3,617	969		119,192		
13	009	590		30,344		45	13,783	42,181	16,711		30,344	841	
13	011	184		47,447		14	4,302	13,166	8,113		47,447		
13	013	586		41,231	92	44	13,688	41,891	17,695		41,231	3,364	
13	015	1,044		84,325	46	79	24,378	74,607	39,589		84,325	6,168	
13	017	244		53,325	92	19	5,710	17,474	5,952		53,325		
13	019	231		130,928	46	18	5,401	16,529	4,558		130,928		
13	021	2,175		22,064	921	165	50,790	155,441	50,858		22,064	7,036	
13	023	158		70,896	18	12	3,697	11,314	3,658		70,896	561	
13	025	194		27,780		15	4,540	13,895	5,513		27,780		
13	027	226		189,373	18	17	5,268	16,122	6,281		189,373		
13	029	341		25,477		26	7,971	24,394	17,345		25,477		
13	031	710		199,928	184	54	16,591	50,777	31,850		199,928	2,523	
13	033	325		209,708		25	7,586	23,217	9,163		209,708		
13	035	257		27,488	18	19	6,006	18,380	6,202		27,488		
13	037	69		128,537	18	5	1,613	4,936	1,368		128,537		
13	039	658		18,963	46	50	15,368	47,032	31,423		18,963		
13	043	125		78,376	46	9	2,925	8,953	9,218		78,376	336	
13	045	1,186		77,944	460	90	27,697	84,765	42,979		77,944	5,607	
13	047	729		21,872	184	55	17,024	52,100	20,694		21,872		
13	049	132		20,362	46	10	3,092	9,462	3,708		20,362		
13	051	3,157		8,694	1,841	239	73,735	225,662	85,214		8,694	12,135	
13	053	233		4,070	184	18	5,442	16,654	1,367		4,070		
13	055	320		55,325		24	7,469	22,858	8,774		55,325		
13	057	1,982		32,167	92	150	46,296	141,686	54,522		32,167	2,804	86
13	059	1,268		12,660	921	96	29,616	90,638	25,004		12,660	9,101	
13	061	49		44,309		4	1,151	3,524	1,299		44,309		
13	063	2,990		4,922	460	226	69,835	213,727	103,660		4,922		86
13	065	93		16,166	18	7	2,182	6,677	1,576		16,166	84	
13	067	8,164		9,906	1,841	618	190,672	583,541	250,248		9,906	15,164	86
13	069	489		204,165	184	37	11,423	34,958	13,889		204,165	2,383	
13	071	570		229,221	184	43	13,307	40,724	16,173		229,221	2,523	
13	073	1,305		29,146	921	99	30,490	93,312	31,353		29,146		

To calculate allocation proportion of national emissions to county, divide number of county unit within an industry category by total (national) number of units within that category

A = Asphalt Paving: Cutback; FHWA funding

B = Drum and Barrel Reclamation; 55-gallon barrels reclaimed

C = Grain Elevators; Acreage farms available

D = Hospital Sterilizers; Number of beds

E = Human Cremation; Number of cremations

F = Surface Coating: Traffic Markings; Gallons of paint

G = Multiple; Number of people

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I = Open Burning: Scrap Tires; Number of tires burned

J = Pesticide Application; Acreage farms available

K = Aviation Gasoline Distribution: Stage I and II; Landing-TakeOffs

L = Gasoline Distribution Stage II; % Reduction applied; (see PageE2-92 for information on this reduction)

Appendix E-2. County-level Allocation Values Used for Allocation Schemes 18, 22, and 27

State FIPS	County FIPS	A	B	C	D	E	F	G	H	I	J	K	L
		1000dollars	1000barrels	acres	beds	cremations	gallons	people	10E+6VMT	tires	acres	LTOs	%Red. Appl.
13	075	213		83,769	46	16	4,966	15,197	13,539		83,769	841	
13	077	1,251		42,592	184	95	29,212	89,401	46,727		42,592	3,645	86
13	079	146		37,390		11	3,403	10,414	4,158		37,390		
13	081	289		115,390	92	22	6,743	20,637	15,000		115,390	1,682	
13	083	215		25,703		16	5,014	15,344	15,383		25,703		
13	085	223		19,138		17	5,210	15,945	6,349		19,138		
13	087	380		164,393	92	29	8,864	27,128	10,940		164,393	701	
13	089	8,350		6,182	2,901	632	195,022	596,853	309,841		6,182	42,326	86
13	091	254		155,667	92	19	5,929	18,146	7,102		155,667	1,682	
13	093	146		164,693	46	11	3,409	10,433	10,467		164,693		
13	095	1,316		83,267	921	100	30,741	94,080	23,245		83,267	5,257	
13	097	1,276		9,778	184	97	29,791	91,175	40,235		9,778		86
13	099	170		172,757	46	13	3,962	12,127	4,674		172,757		
13	101	35		17,896		3	828	2,534	897		17,896		
13	103	537		52,479	46	41	12,537	38,370	11,842		52,479		
13	105	271		57,022		21	6,327	19,363	7,604		57,022	953	
13	107	294		153,224	92	22	6,875	21,042	12,908		153,224	449	
13	109	141		43,351	46	11	3,297	10,089	3,955		43,351		
13	111	265		15,052	46	20	6,190	18,945	5,621		15,052		
13	113	1,292		18,350	92	98	30,185	92,378	36,565		18,350	7,110	86
13	115	1,196		83,367	460	91	27,941	85,512	28,500		83,367	2,804	
13	117	1,353		30,935		102	31,592	96,686	36,877		30,935		86
13	119	270		77,352	92	20	6,310	19,311	16,399		77,352		
13	121	10,420		27,169	6,078	789	243,372	744,827	374,695		27,169	26,884	86
13	123	277		23,053	92	21	6,459	19,766	7,900		23,053		
13	125	36		20,227		3	831	2,544	650		20,227		
13	127	951		7,742	460	72	22,201	67,945	23,341		7,742	14,018	
13	129	587		68,855	92	44	13,712	41,966	21,129		68,855	2,804	
13	131	302		127,467	46	23	7,058	21,600	8,480		127,467	785	
13	133	197		52,426	46	15	4,605	14,094	10,541		52,426	1,121	
13	135	7,634		31,360	921	578	178,285	545,632	218,188		31,360	17,083	86
13	137	455		31,278	92	34	10,629	32,530	11,716		31,278	1,850	
13	139	1,725		51,065	460	131	40,285	123,290	55,942		51,065	4,976	
13	141	127		33,653	46	10	2,956	9,046	2,585		33,653		
13	143	351		30,710		27	8,192	25,070	11,345		30,710		

To calculate allocation proportion of national emissions to county, divide number of county unit within an industry category by total (national) number of units within that category

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B = Drum and Barrel Reclamation; 55-gallon barrels reclaimed

C = Grain Elevators; Acreage farms available

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K = Aviation Gasoline Distribution: Stage I and II; Landing-TakeOffs

L = Gasoline Distribution Stage II; % Reduction applied; (see PageE2-92 for information on this reduction)

Appendix E-2. County-level Allocation Values Used for Allocation Schemes 18, 22, and 27

State FIPS	County FIPS	A	B	C	D	E	F	G	H	I	J	K	L
		1000dollars	1000barrels	acres	beds	cremations	gallons	people	10E+6VMT	tires	acres	LTOs	%Red. Appl.
13	145	317		46,940		24	7,396	22,634	16,258		46,940	1,682	
13	147	310		57,884	46	23	7,229	22,124	7,751		57,884		
13	149	147		27,641		11	3,428	10,490	4,119		27,641		
13	151	1,587		44,643	184	120	37,067	113,443	52,121		44,643	4,766	86
13	153	1,506		87,064	460	114	35,173	107,644	31,331		87,064	1,906	
13	155	128		131,747	46	10	3,000	9,181	1,783		131,747	1,037	
13	157	546		77,484	92	41	12,762	39,057	22,295		77,484		
13	159	148		51,948	46	11	3,460	10,589	3,039		51,948		
13	161	178		71,201	46	13	4,154	12,714	3,431		71,201	981	
13	163	250		141,922	46	19	5,835	17,858	7,121		141,922		
13	165	118		93,094	18	9	2,745	8,401	1,883		93,094		
13	167	116		96,151		9	2,710	8,293	2,364		96,151		
13	169	326		30,901		25	7,616	23,307	8,109		30,901		
13	171	210		37,885		16	4,905	15,010	4,114		37,885		
13	173	97		42,890	46	7	2,274	6,959	2,707		42,890		
13	175	615		198,424	460	47	14,353	43,927	32,042		198,424	1,822	
13	177	327		137,980		25	7,627	23,341	8,006		137,980		
13	179	835		20,989	184	63	19,505	59,694	29,563		20,989	561	
13	181	117		31,176		9	2,725	8,339	2,378		31,176		
13	183	122		18,875		9	2,846	8,709	3,401		18,875		
13	185	1,195		72,158	460	90	27,909	85,413	52,808		72,158	6,806	
13	187	277		25,228	46	21	6,461	19,772	6,377		25,228		
13	189	305		41,157	46	23	7,128	21,814	13,925		41,157		
13	191	141		4,205		11	3,305	10,114	12,670		4,205		
13	193	184		118,762	46	14	4,289	13,126	2,663		118,762	224	
13	195	353		69,675		27	8,237	25,208	10,100		69,675		
13	197	95		51,645		7	2,215	6,779	1,919		51,645		
13	199	322		68,856	46	24	7,529	23,043	7,692		68,856		
13	201	88		116,040	46	7	2,064	6,318	2,449		116,040		
13	205	297		221,107	92	22	6,933	21,219	8,324		221,107	280	
13	207	280		56,780	46	21	6,545	20,032	17,237		56,780		
13	209	110		75,051		8	2,566	7,854	3,036		75,051		
13	211	216		87,644	46	16	5,044	15,437	15,540		87,644	603	
13	213	475		34,802	46	36	11,084	33,922	12,284		34,802		
13	215	2,547		8,499	990	193	59,487	182,058	52,234		8,499	8,761	

To calculate allocation proportion of national emissions to county, divide number of county unit within an industry category by total (national) number of units within that category

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L = Gasoline Distribution Stage II; % Reduction applied; (see PageE2-92 for information on this reduction)

Appendix E-2. County-level Allocation Values Used for Allocation Schemes 18, 22, and 27

State FIPS	County FIPS	A	B	C	D	E	F	G	H	I	J	K	L
		1000dollars	1000barrels	acres	beds	cremations	gallons	people	10E+6VMT	tires	acres	LTOs	%Red. Appl.
13	217	848		45,579	92	64	19,795	60,583	31,669		45,579	5,551	
13	219	343		51,254		26	8,014	24,526	9,498		51,254		
13	221	162		62,583		12	3,779	11,564	4,554		62,583		
13	223	1,113		18,369		84	26,005	79,587	30,326		18,369		86
13	225	350		50,967	46	26	8,167	24,996	15,079		50,967		
13	227	294		15,925	46	22	6,870	21,024	6,602		15,925	392	
13	229	221		100,463		17	5,164	15,804	4,819		100,463		
13	231	183		47,971		14	4,282	13,104	3,787		47,971		
13	233	512		50,429	46	39	11,968	36,627	14,561		50,429	1,542	
13	235	117		92,384	92	9	2,731	8,359	1,962		92,384		
13	237	255		31,290	46	19	5,947	18,199	5,064		31,290		
13	239	34		11,348		3	800	2,449	867		11,348		
13	241	191		10,865	46	14	4,472	13,687	5,429		10,865		
13	243	112		94,286	46	8	2,618	8,012	1,358		94,286		
13	245	2,662		14,775	1,823	202	62,184	190,310	63,233		14,775	10,276	
13	247	965		11,994	184	73	22,535	68,968	28,292		11,994		86
13	249	55		40,881		4	1,290	3,949	1,069		40,881		
13	251	202		164,739	18	15	4,726	14,463	4,643		164,739	701	
13	253	137		107,372	46	10	3,203	9,803	2,769		107,372	421	
13	255	809		26,684	184	61	18,894	57,825	24,425		26,684	308	
13	257	354		19,604	92	27	8,277	25,332	10,007		19,604	5,046	
13	259	75		56,209	18	6	1,756	5,374	2,057		56,209		
13	261	439		186,493	184	33	10,248	31,362	12,370		186,493	1,514	
13	263	97		36,481		7	2,277	6,969	2,652		36,481		
13	265	27		16,359		2	629	1,924	4,982		16,359		
13	267	268		136,923	18	20	6,264	19,171	6,219		136,923	841	
13	269	116		69,584		9	2,708	8,287	3,234		69,584		
13	271	160		86,179	18	12	3,727	11,406	3,370		86,179		
13	273	157		138,606		12	3,661	11,205	4,301		138,606		
13	275	600		179,791	460	45	14,016	42,896	17,036		179,791	4,486	
13	277	517		106,107	184	39	12,082	36,975	23,060		106,107	981	
13	279	364		99,949	92	28	8,492	25,990	10,188		99,949	1,402	
13	281	123		8,708	46	9	2,875	8,800	3,441		8,708		
13	283	83		42,027		6	1,939	5,933	9,258		42,027		
13	285	823		43,003	460	62	19,213	58,801	44,968		43,003	1,166	

To calculate allocation proportion of national emissions to county, divide number of county unit within an industry category by total (national) number of units within that category

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Appendix E-2. County-level Allocation Values Used for Allocation Schemes 18, 22, and 27

State FIPS	County FIPS	A	B	C	D	E	F	G	H	I	J	K	L
		1000dollars	1000barrels	acres	beds	cremations	gallons	people	10E+6VMT	tires	acres	LTOs	%Red. Appl.
13	287	129		98,220		10	3,022	9,249	8,804		98,220		
13	289	143		26,202		11	3,332	10,198	14,192		26,202		
13	291	241		22,156	92	18	5,631	17,234	5,100		22,156		
13	293	379		37,530	184	29	8,848	27,079	8,822		37,530		
13	295	881		85,646		67	20,573	62,963	18,369		85,646		
13	297	818		59,824	92	62	19,114	58,498	20,565		59,824	841	
13	299	493		64,304	460	37	11,512	35,232	14,286		64,304	2,103	
13	301	85		44,447		6	1,985	6,075	8,331		44,447		
13	303	283		110,729	92	21	6,600	20,198	7,926		110,729	1,682	
13	305	358		65,209	92	27	8,368	25,610	10,113		65,209	1,121	
13	307	31		57,571		2	720	2,203	558		57,571		
13	309	68		71,304	46	5	1,589	4,864	1,856		71,304	701	
13	311	255		26,316		19	5,945	18,195	7,264		26,316		
13	313	1,164		38,749	460	88	27,192	83,220	42,868		38,749	4,205	
13	315	104		123,164		8	2,424	7,419	2,889		123,164		
13	317	148		94,989	46	11	3,449	10,556	2,633		94,989	701	
13	319	153		27,526		12	3,564	10,908	4,288		27,526		
13	321	315		190,871	46	24	7,346	22,483	8,866		190,871		
15	001	544			341	603	12,699	142,390	45,531			8,451	
15	003	3,301			3,021	3,664	77,106	864,571	187,461			21,860	
15	005	0				1	5	58	3			421	
15	007	216			216	240	5,042	56,539	19,307			1,424	
15	009	466			216	517	10,875	121,939	29,956			8,062	
16	001	1,247		231,188	1,322	803	29,133	283,402	95,019		231,188	17,237	
16	003	17		200,480	14	11	389	3,787	1,473		200,480		
16	005	330		309,281	332	212	7,697	74,881	26,706		309,281		
16	007	29		221,717	34	19	674	6,561	1,816		221,717		
16	009	40		125,988	34	26	932	9,066	4,295		125,988		
16	011	185		796,065	68	119	4,330	42,127	20,406		796,065		
16	013	76		214,985	68	49	1,781	17,326	4,640		214,985	11,620	
16	015	23		45,461		15	546	5,311	2,460		45,461		
16	017	159		98,662	68	102	3,708	36,071	15,185		98,662		
16	019	359		449,426	342	231	8,382	81,536	22,755		449,426	4,922	
16	021	44		72,685	34	28	1,026	9,977	4,734		72,685		
16	023	13		129,639	14	9	310	3,012	1,315		129,639	2,012	

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Appendix E-2. County-level Allocation Values Used for Allocation Schemes 18, 22, and 27

State FIPS	County FIPS	A	B	C	D	E	F	G	H	I	J	K	L
		1000dollars	1000barrels	acres	beds	cremations	gallons	people	10E+6VMT	tires	acres	LTOs	%Red. Appl.
16	025	4		127,514		2	89	865	264		127,514		
16	027	548		354,919	342	352	12,792	124,442	47,628		354,919	16,046	
16	029	32		469,381	14	21	748	7,273	1,902		469,381		
16	031	95		656,658	68	61	2,218	21,573	13,400		656,658	5,676	
16	033	4		215,301		3	94	913	5,314		215,301		
16	035	41		73,103	34	27	962	9,359	2,518		73,103		
16	037	18		147,913		12	420	4,089	1,869		147,913		
16	039	113		355,590	137	73	2,634	25,627	16,522		355,590	3,282	
16	041	50		246,127	34	32	1,167	11,350	2,318		246,127		
16	043	52		334,151		34	1,222	11,890	4,136		334,151		
16	045	67		182,981	14	43	1,557	15,145	3,208		182,981		
16	047	60		220,362	14	39	1,413	13,743	7,512		220,362	3,469	
16	049	66		649,851	34	43	1,545	15,030	5,555		649,851		
16	051	88		332,535		56	2,051	19,949	12,346		332,535		
16	053	80		193,921	34	51	1,862	18,110	10,378		193,921		
16	055	461		130,843	342	297	10,774	104,807	42,604		130,843	15,139	
16	057	143		325,484	68	92	3,342	32,509	9,581		325,484		
16	059	35		196,584	14	23	820	7,978	2,166		196,584		
16	061	17		193,582		11	405	3,943	1,538		193,582		
16	063	17		131,473		11	395	3,839	1,746		131,473		
16	065	109		222,817	68	70	2,550	24,806	7,263		222,817		
16	067	89		206,882	34	57	2,085	20,284	7,708		206,882		
16	069	162		339,476	137	105	3,795	36,913	8,306		339,476	5,886	
16	071	18		271,108	14	12	418	4,062	6,443		271,108		
16	073	46		682,860		29	1,070	10,406	4,948		682,860		
16	075	92		148,467		59	2,143	20,846	10,107		148,467		
16	077	37		424,085	34	24	864	8,404	6,937		424,085	4,512	
16	079	60		4,100	34	39	1,404	13,654	8,341		4,100		
16	081	25		132,678	34	16	587	5,708	1,854		132,678		
16	083	277		456,378	137	178	6,473	62,970	19,194		456,378	5,015	
16	085	35		64,282	34	22	808	7,858	3,141		64,282	6,529	
16	087	45		443,184	14	29	1,059	10,298	2,338		443,184		
17	001			442,081	303	115	9,943	66,951	21,002		442,081	617	
17	003			71,280		17	1,473	9,919	3,211		71,280	1,262	
17	005			180,064	60	30	2,548	17,155	10,200		180,064	561	

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D = Hospital Sterilizers; Number of beds

E = Human Cremation; Number of cremations

F = Surface Coating: Traffic Markings; Gallons of paint

G = Multiple; Number of people

H = Gasoline Distribution Stage I and II; Vehicle Miles Travelled (VMT)

I = Open Burning: Scrap Tires; Number of tires burned

J = Pesticide Application; Acreage farms available

K = Aviation Gasoline Distribution: Stage I and II; Landing-TakeOffs

L = Gasoline Distribution Stage II; % Reduction applied; (see PageE2-92 for information on this reduction)

Appendix E-2. County-level Allocation Values Used for Allocation Schemes 18, 22, and 27

State FIPS	County FIPS	A	B	C	D	E	F	G	H	I	J	K	L
		1000dollars	1000barrels	acres	beds	cremations	gallons	people	10E+6VMT	tires	acres	LTOs	%Red. Appl.
17	007			141,426	60	68	5,875	39,560	13,695		141,426	3,084	
17	009			152,160		12	1,027	6,918	2,754		152,160		
17	011			483,993	121	61	5,251	35,355	22,546		483,993		
17	013			99,483		8	722	4,862	1,910		99,483		
17	015			243,305		29	2,479	16,691	5,289		243,305	280	
17	017			192,156		23	1,969	13,256	3,854		192,156		
17	019			567,697	605	293	25,287	170,272	54,610		567,697	12,604	
17	021			389,958	121	62	5,316	35,797	9,827		389,958	1,065	
17	023			268,818		28	2,458	16,551	10,668		268,818	701	
17	025			238,717	30	25	2,126	14,315	4,389		238,717	841	
17	027			233,677	60	61	5,299	35,682	12,800		233,677		
17	029			256,974	303	89	7,694	51,806	15,967		256,974	4,835	
17	031		3,889	39,410	23,713	8,937	771,111	5,192,326	1,453,291		39,410	77,854	86
17	033			208,922	60	36	3,097	20,854	6,448		208,922	1,262	
17	035			169,773		19	1,649	11,101	10,409		169,773		
17	037			368,076	187	150	12,919	86,993	24,972		368,076	5,607	
17	039			204,896	30	29	2,477	16,676	5,882		204,896		
17	041			249,551		34	2,951	19,872	8,099		249,551		
17	043			17,103	2,269	1,536	132,552	892,547	217,505		17,103	34,292	86
17	045			352,401	30	34	2,900	19,528	5,426		352,401	407	
17	047			112,917		12	1,021	6,874	2,738		112,917		
17	049			256,786	121	58	5,018	33,786	20,736		256,786	841	
17	051			333,232	60	38	3,270	22,022	14,730		333,232	561	
17	053			314,806	30	24	2,086	14,045	4,238		314,806	140	
17	055			179,588	60	69	5,995	40,365	12,704		179,588		
17	057			424,942	121	67	5,744	38,679	10,540		424,942	280	
17	059			191,113		11	978	6,586	2,621		191,113		
17	061			327,590	30	27	2,337	15,737	4,248		327,590		
17	063			201,452	121	64	5,522	37,181	17,598		201,452	4,402	86
17	065			214,780	30	15	1,275	8,583	1,785		214,780		
17	067			438,342	30	36	3,114	20,965	6,277		438,342		
17	069			39,264	12	8	729	4,907	1,435		39,264		
17	071			202,186		15	1,276	8,593	3,435		202,186		
17	073			456,596	121	89	7,702	51,862	24,586		456,596	5,046	
17	075			667,134	60	54	4,633	31,196	20,293		667,134		

To calculate allocation proportion of national emissions to county, divide number of county unit within an industry category by total (national) number of units within that category

A = Asphalt Paving: Cutback; FHWA funding

B = Drum and Barrel Reclamation; 55-gallon barrels reclaimed

C = Grain Elevators; Acreage farms available

D = Hospital Sterilizers; Number of beds

E = Human Cremation; Number of cremations

F = Surface Coating: Traffic Markings; Gallons of paint

G = Multiple; Number of people

H = Gasoline Distribution Stage I and II; Vehicle Miles Travelled (VMT)

I = Open Burning: Scrap Tires; Number of tires burned

J = Pesticide Application; Acreage farms available

K = Aviation Gasoline Distribution: Stage I and II; Landing-TakeOffs

L = Gasoline Distribution Stage II; % Reduction applied; (see PageE2-92 for information on this reduction)

Appendix E-2. County-level Allocation Values Used for Allocation Schemes 18, 22, and 27

State FIPS	County FIPS	A	B	C	D	E	F	G	H	I	J	K	L
		1000dollars	1000barrels	acres	beds	cremations	gallons	people	10E+6VMT	tires	acres	LTOs	%Red. Appl.
17	077			202,558	303	104	9,007	60,651	15,112		202,558	9,528	
17	079			252,272		18	1,570	10,571	2,268		252,272		
17	081			229,512	303	67	5,820	39,188	22,692		229,512	5,607	
17	083			164,164	30	37	3,204	21,573	6,598		164,164		
17	085			275,750	30	37	3,202	21,562	7,635		275,750		
17	087			104,321		23	2,019	13,598	11,702		104,321		
17	089			209,941	1,111	693	59,793	402,622	28,315		209,941	13,794	86
17	091			351,567	303	177	15,255	102,720	31,069		351,567	5,046	
17	093			167,486		92	7,969	53,659	9,233		167,486		86
17	095			389,776	303	95	8,223	55,373	18,916		389,776	1,962	
17	097			50,901	1,722	1,064	91,775	617,975	116,547		50,901	14,880	86
17	099			587,676	369	190	16,373	110,248	41,220		587,676	2,117	
17	101			182,511	30	26	2,250	15,149	4,317		182,511	7,289	
17	103			393,043	121	62	5,307	35,734	22,316		393,043	6,729	
17	105			613,645	60	68	5,887	39,639	18,322		613,645		
17	107			380,921	60	55	4,713	31,733	18,461		380,921	757	
17	109			340,071	121	61	5,232	35,228	8,055		340,071	3,084	
17	111			242,484	303	425	36,654	246,812	26,370		242,484	15,139	86
17	113			696,575	303	250	21,605	145,477	58,170		696,575	7,928	
17	115			322,875	605	195	16,814	113,219	35,725		322,875	6,306	
17	117			395,696	60	84	7,280	49,020	17,845		395,696		
17	119			283,608	748	447	38,528	259,434	94,915		283,608	8,985	
17	121			249,395	303	72	6,210	41,813	18,838		249,395	2,355	
17	123			227,521		22	1,927	12,974	7,162		227,521	841	
17	125			291,579	30	29	2,495	16,797	5,363		291,579		
17	127			103,769	30	27	2,289	15,414	6,635		103,769		
17	129			170,231		22	1,890	12,724	3,830		170,231		
17	131			309,591	30	30	2,620	17,644	5,703		309,591		
17	133			186,781		47	4,053	27,289	8,917		186,781		
17	135			361,022	121	54	4,651	31,318	15,552		361,022	1,121	
17	137			305,585	121	61	5,221	35,158	14,124		305,585	1,402	
17	139			172,657		25	2,164	14,573	4,115		172,657		
17	141			379,419	30	88	7,567	50,954	21,472		379,419	561	
17	143			267,283	1,452	312	26,899	181,126	58,957		267,283	10,660	
17	145			172,013	60	37	3,168	21,330	5,897		172,013	1,121	

To calculate allocation proportion of national emissions to county, divide number of county unit within an industry category by total (national) number of units within that category

A = Asphalt Paving: Cutback; FHWA funding

B = Drum and Barrel Reclamation; 55-gallon barrels reclaimed

C = Grain Elevators; Acreage farms available

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E = Human Cremation; Number of cremations

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I = Open Burning: Scrap Tires; Number of tires burned

J = Pesticide Application; Acreage farms available

K = Aviation Gasoline Distribution: Stage I and II; Landing-TakeOffs

L = Gasoline Distribution Stage II; % Reduction applied; (see PageE2-92 for information on this reduction)

Appendix E-2. County-level Allocation Values Used for Allocation Schemes 18, 22, and 27

State FIPS	County FIPS	A	B	C	D	E	F	G	H	I	J	K	L
		1000dollars	1000barrels	acres	beds	cremations	gallons	people	10E+6VMT	tires	acres	LTOs	%Red. Appl.
17	147			253,317	12	29	2,469	16,623	9,624		253,317		
17	149			461,360	30	30	2,557	17,220	14,363		461,360	421	
17	151			72,233		8	714	4,811	1,406		72,233		
17	153			83,127		13	1,085	7,304	6,332		83,127		
17	155			76,950		10	869	5,853	2,508		76,950		
17	157			262,464	121	58	4,990	33,600	9,481		262,464	2,523	
17	159			197,224	60	29	2,473	16,654	4,314		197,224	1,121	
17	161			170,072	605	254	21,908	147,522	46,138		170,072	7,424	
17	163			264,507	902	448	38,620	260,050	98,020		264,507	19,355	
17	165			130,680	60	45	3,868	26,044	6,882		130,680	336	
17	167			466,956	1,371	329	28,411	191,306	70,943		466,956	11,583	
17	169			208,935	30	13	1,113	7,496	1,727		208,935		
17	171			145,529		10	834	5,614	5,681		145,529		
17	173			418,688	30	39	3,342	22,505	8,056		418,688	1,402	
17	175			179,711		11	933	6,282	1,858		179,711		
17	177			308,574	303	84	7,244	48,778	12,124		308,574	1,402	
17	179			328,289	121	223	19,277	129,801	43,279		328,289	1,962	
17	181			136,060	30	31	2,677	18,023	8,029		136,060		
17	183			484,846	500	144	12,447	83,813	26,838		484,846	3,420	
17	185			121,664	30	22	1,858	12,513	2,841		121,664		
17	187			315,067	30	33	2,811	18,931	5,068		315,067	505	
17	189			308,576	30	26	2,257	15,200	10,946		308,576		
17	191			320,773	60	29	2,520	16,967	11,280		320,773	280	
17	193			256,393	12	27	2,312	15,566	8,211		256,393	841	
17	195			384,738	121	103	8,852	59,606	23,377		384,738	2,663	
17	197			293,526	605	823	71,046	478,392	71,233		293,526	24,477	86
17	199			92,289	266	106	9,141	61,550	20,697		92,289	4,114	
17	201			195,621	1,107	461	39,819	268,126	84,859		195,621	14,914	
17	203			299,763	12	61	5,280	35,553	18,305		299,763		
18	001			208,653	128	39	200	33,168	12,517		208,653		
18	003			276,385	1,464	370	1,907	316,471	113,283		276,385	11,693	
18	005			166,612	320	82	420	69,714	32,092		166,612	4,582	
18	007			256,820		11	59	9,776	4,481		256,820		
18	009			85,958	32	16	84	13,927	4,006		85,958		
18	011			228,328	64	52	270	44,835	24,371		228,328		

To calculate allocation proportion of national emissions to county, divide number of county unit within an industry category by total (national) number of units within that category

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L = Gasoline Distribution Stage II; % Reduction applied; (see PageE2-92 for information on this reduction)

Appendix E-2. County-level Allocation Values Used for Allocation Schemes 18, 22, and 27

State FIPS	County FIPS	A	B	C	D	E	F	G	H	I	J	K	L
		1000dollars	1000barrels	acres	beds	cremations	gallons	people	10E+6VMT	tires	acres	LTOs	%Red. Appl.
18	013			21,707		19	96	15,992	7,410		21,707		
18	015			218,170		23	121	20,004	8,149		218,170		
18	017			205,380	128	46	235	38,964	14,973		205,380	418	
18	019			108,773	320	111	573	95,121	42,691		108,773	11,110	86
18	021			159,441	32	31	162	26,903	12,780		159,441		
18	023			236,320	64	39	199	32,964	15,436		236,320	167	
18	025			61,320		13	65	10,739	10,000		61,320		
18	027			217,131	64	34	175	29,084	9,567		217,131	694	
18	029			81,383	128	56	289	48,011	20,040		81,383		
18	031			198,614	64	30	155	25,704	17,472		198,614		
18	033			162,936	64	46	239	39,683	20,451		162,936	282	
18	035			173,443	320	135	696	115,472	42,049		173,443	6,354	
18	037			191,053	320	47	242	40,093	16,015		191,053	317	
18	039			182,771	320	204	1,053	174,680	71,020		182,771	7,562	
18	041			106,737	64	30	156	25,860	8,535		106,737	571	
18	043			28,708	320	84	435	72,243	28,548		28,708		86
18	045			204,554		21	111	18,374	10,324		204,554		
18	047			138,635		26	133	22,120	10,160		138,635		
18	049			170,645	32	24	126	20,893	8,167		170,645	881	
18	051			232,839	64	38	194	32,230	14,290		232,839		
18	053			192,292	320	84	434	72,082	31,851		192,292	1,910	
18	055			205,628	32	39	200	33,158	13,365		205,628		
18	057			140,813	320	201	1,037	172,094	59,887		140,813	6,054	
18	059			163,704	128	65	335	55,617	24,111		163,704		
18	061			161,378	64	41	213	35,376	17,355		161,378		
18	063			167,228	128	116	596	98,826	41,116		167,228		
18	065			177,601	128	57	292	48,377	25,635		177,601	348	
18	067			147,750	320	98	505	83,736	31,647		147,750	861	
18	069			184,137		44	225	37,377	21,202		184,137	1,179	
18	071			201,006	128	48	249	41,319	22,471		201,006	878	
18	073			282,915	64	34	178	29,462	23,471		282,915	398	
18	075			179,794	32	25	131	21,686	7,987		179,794	1,007	
18	077			126,379	128	37	192	31,813	11,061		126,379	1,569	
18	079			130,373	32	33	169	28,106	11,624		130,373	417	
18	081			135,563	274	132	679	112,724	44,788		135,563	2,596	

To calculate allocation proportion of national emissions to county, divide number of county unit within an industry category by total (national) number of units within that category

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Appendix E-2. County-level Allocation Values Used for Allocation Schemes 18, 22, and 27

State FIPS	County FIPS	A	B	C	D	E	F	G	H	I	J	K	L
		1000dollars	1000barrels	acres	beds	cremations	gallons	people	10E+6VMT	tires	acres	LTOs	%Red. Appl.
18	083			280,628	320	46	235	39,051	13,976		280,628		
18	085			246,907	128	83	430	71,336	29,806		246,907	1,923	
18	087			189,932	32	40	205	33,997	20,490		189,932		
18	089			148,872	2,116	562	2,896	480,619	161,786		148,872	10,983	86
18	091			247,756	320	129	663	109,939	50,840		247,756	486	
18	093			170,811	128	54	276	45,752	17,676		170,811	1,217	
18	095			223,751	501	153	789	130,990	51,284		223,751	3,261	
18	097			29,034	6,467	948	4,887	810,946	323,512		29,034	14,789	
18	099			201,637	64	54	278	46,129	18,868		201,637	836	
18	101			70,105		12	63	10,379	3,542		70,105		
18	103			197,198	64	39	203	33,605	12,734		197,198	638	
18	105			62,149	320	137	705	116,923	34,620		62,149	6,040	
18	107			273,258	64	43	220	36,583	22,176		273,258	2,373	
18	109			133,958	128	78	404	67,003	30,675		133,958		
18	111			207,315		17	89	14,844	7,838		207,315	66	
18	113			181,963	64	51	261	43,241	17,294		181,963	984	
18	115			29,880		6	33	5,457	1,834		29,880		
18	117			123,343	32	23	120	19,835	7,598		123,343	406	
18	119			107,265		24	124	20,619	8,301		107,265		
18	121			188,816		20	102	16,908	4,958		188,816		
18	123			84,251	32	22	115	19,091	11,381		84,251	205	
18	125			84,237		15	78	13,021	6,016		84,237		
18	127			134,505	320	173	890	147,758	54,588		134,505	4,346	86
18	129			195,305		31	158	26,292	16,597		195,305		
18	131			236,332	32	16	82	13,527	6,250		236,332	394	
18	133			195,377	64	41	210	34,788	20,934		195,377	2,485	
18	135			223,817	32	32	165	27,417	11,071		223,817	532	
18	137			159,460	64	32	167	27,660	13,951		159,460		
18	139			227,874	32	21	110	18,208	7,141		227,874		
18	141			154,142	940	302	1,558	258,537	79,720		154,142	8,307	
18	143			57,372	32	27	141	23,433	11,895		57,372		
18	145			200,661	64	51	263	43,630	20,952		200,661		
18	147			172,687		25	128	21,178	13,034		172,687		
18	149			135,643	32	28	142	23,597	9,349	20,000	135,643	1,893	
18	151			123,953	64	37	191	31,742	24,656		123,953	1,299	

To calculate allocation proportion of national emissions to county, divide number of county unit within an industry category by total (national) number of units within that category

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L = Gasoline Distribution Stage II; % Reduction applied; (see PageE2-92 for information on this reduction)

Appendix E-2. County-level Allocation Values Used for Allocation Schemes 18, 22, and 27

State FIPS	County FIPS	A	B	C	D	E	F	G	H	I	J	K	L
		1000dollars	1000barrels	acres	beds	cremations	gallons	people	10E+6VMT	tires	acres	LTOs	%Red. Appl.
18	153			176,895	32	25	130	21,535	7,785		176,895	944	
18	155			67,881		10	54	8,961	3,071		67,881		
18	157			241,539	641	167	859	142,475	46,697		241,539	15,151	
18	159			158,440	64	19	100	16,641	6,225		158,440		
18	161			82,500		9	44	7,297	3,321		82,500		
18	163			72,112	1,188	196	1,012	167,922	61,023		72,112	9,853	
18	165			118,065	64	20	102	16,954	9,120		118,065		
18	167			114,889	641	122	629	104,349	47,109		114,889	5,288	
18	169			188,230	64	40	208	34,538	12,688		188,230	957	
18	171			184,653	32	10	50	8,349	3,812		184,653		
18	173			98,549	32	61	317	52,557	27,510		98,549		
18	175			181,298	64	33	170	28,233	9,078		181,298		
18	177			172,860	320	83	429	71,134	31,531		172,860	726	
18	179			195,901	128	31	162	26,810	8,652		195,901		
18	181			272,072	32	30	154	25,522	14,253		272,072	721	
18	183			165,067	64	36	186	30,811	12,065		165,067		
19	001	20		335,756	37	11	478	8,066	8,009		335,756	757	
19	003	11		235,441	15	6	261	4,405	1,904		235,441		
19	005	36		295,778	37	20	834	14,068	4,565		295,778		
19	007	34		241,094	37	19	797	13,446	4,152		241,094	421	
19	009	17		272,258	15	10	403	6,802	1,968		272,258	137	
19	011	65		418,483	37	37	1,529	25,798	11,037		418,483	5,621	
19	013	304		285,972	744	170	7,110	119,959	37,364		285,972	5,657	
19	015	67		328,906	74	37	1,559	26,300	7,849		328,906	1,682	
19	017	59		238,528	74	33	1,389	23,440	7,846		238,528	841	
19	019	54		336,863	37	30	1,254	21,160	9,256		336,863	967	
19	021	49		356,751	74	28	1,150	19,404	6,051		356,751	1,093	
19	023	39		324,282		22	919	15,499	7,029		324,282		
19	025	29		336,516	74	16	671	11,319	5,098		336,516		
19	027	55		352,698	74	31	1,275	21,518	6,688		352,698	967	
19	029	37		331,362	74	21	860	14,512	9,961		331,362	875	
19	031	46		325,744		26	1,070	18,056	12,775		325,744		
19	033	116		300,851	744	65	2,707	45,669	15,623		300,851	3,364	
19	035	33		330,355	37	19	774	13,060	4,052		330,355	1,850	
19	037	34		272,371	37	19	796	13,423	4,440		272,371		

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L = Gasoline Distribution Stage II; % Reduction applied; (see PageE2-92 for information on this reduction)

Appendix E-2. County-level Allocation Values Used for Allocation Schemes 18, 22, and 27

State FIPS	County FIPS	A	B	C	D	E	F	G	H	I	J	K	L
		1000dollars	1000barrels	acres	beds	cremations	gallons	people	10E+6VMT	tires	acres	LTOs	%Red. Appl.
19	039	21		221,848	37	12	490	8,273	6,347		221,848	220	
19	041	44		285,829	74	24	1,022	17,245	4,335		285,829	3,645	
19	043	47		452,050	37	26	1,101	18,582	8,453		452,050		
19	045	126		367,764	372	70	2,940	49,612	11,173		367,764	1,093	
19	047	42		431,726	37	23	974	16,427	5,320		431,726	673	
19	049	97		323,612	37	54	2,265	38,210	17,873		323,612	757	
19	051	22		266,508	37	12	505	8,517	2,628		266,508	168	
19	053	21		261,927	37	12	493	8,319	8,166		261,927		
19	055	47		326,187	37	26	1,095	18,482	6,634		326,187		
19	057	106		192,165	149	60	2,487	41,955	9,758		192,165	2,523	
19	059	41		201,126	37	23	965	16,285	5,529		201,126		
19	061	224		336,497	372	125	5,222	88,112	23,363		336,497	5,782	
19	063	27		220,174	37	15	630	10,638	2,735		220,174	925	
19	065	55		404,407	74	31	1,278	21,566	7,712		404,407	1,104	
19	067	41		300,255	37	23	963	16,256	4,918		300,255	925	
19	069	27		344,296	37	15	639	10,781	7,935		344,296	280	
19	071	20		318,355	37	11	457	7,706	9,608		318,355	857	
19	073	25		343,346	74	14	594	10,020	2,607		343,346	967	
19	075	31		321,389	37	17	728	12,284	5,541		321,389		
19	077	29		304,177	15	16	687	11,591	5,227		304,177		
19	079	40		348,675	37	23	943	15,905	10,505		348,675	673	
19	081	31		334,050	15	17	713	12,037	4,051		334,050	799	
19	083	46		339,951	74	26	1,076	18,159	5,622		339,951	937	
19	085	39		392,708	37	22	902	15,216	12,456		392,708		
19	087	51		244,704	74	29	1,194	20,139	5,950		244,704	631	
19	089	24		269,750	74	14	567	9,574	2,705		269,750		
19	091	26		257,411	37	15	606	10,224	2,736		257,411		
19	093	20		253,306	37	11	470	7,930	3,531		253,306		
19	095	40		331,922	15	22	929	15,667	12,960		331,922		
19	097	51		334,824	37	29	1,195	20,157	7,134		334,824	450	
19	099	93		420,637	74	52	2,173	36,659	18,628		420,637	883	
19	101	43		228,017	37	24	993	16,762	4,358		228,017	1,472	
19	103	263		288,139	1,814	147	6,153	103,813	33,572		288,139	2,187	
19	105	51		321,934	37	28	1,190	20,075	6,251		321,934	757	
19	107	29		323,028	15	16	672	11,340	5,108		323,028		

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L = Gasoline Distribution Stage II; % Reduction applied; (see PageE2-92 for information on this reduction)

Appendix E-2. County-level Allocation Values Used for Allocation Schemes 18, 22, and 27

State FIPS	County FIPS	A	B	C	D	E	F	G	H	I	J	K	L
		1000dollars	1000barrels	acres	beds	cremations	gallons	people	10E+6VMT	tires	acres	LTOs	%Red. Appl.
19	109	45		580,884	37	25	1,045	17,630	6,122		580,884	757	
19	111	97		256,685	149	54	2,270	38,309	9,964		256,685	1,093	
19	113	469		339,227	744	262	10,958	184,891	52,430		339,227	9,721	
19	115	30		201,393		17	708	11,945	5,389		201,393		
19	117	23		227,160	37	13	541	9,131	2,044		227,160	925	
19	119	31		348,492	3	17	713	12,030	4,268		348,492		
19	121	36		316,579	37	20	836	14,105	4,756		316,579	770	
19	123	56		329,038	37	31	1,301	21,954	6,515		329,038	1,093	
19	125	80		285,724	149	45	1,869	31,529	8,542		285,724	2,103	
19	127	98		319,392	149	55	2,299	38,782	9,648		319,392	336	
19	129	37		232,129		21	872	14,705	8,821		232,129		
19	131	28		265,173	37	16	658	11,106	2,135		265,173		
19	133	26		367,651	37	14	598	10,089	8,242		367,651	196	
19	135	20		217,317	37	11	475	8,017	1,884		217,317	505	
19	137	30		242,650	74	17	694	11,707	3,264		242,650	673	
19	139	105		219,001	37	58	2,442	41,195	9,552		219,001	1,346	
19	141	37		358,472	74	21	867	14,621	5,074		358,472	799	
19	143	18		240,601	15	10	410	6,914	1,877		240,601		
19	145	43		309,228	74	24	1,016	17,139	4,289		309,228	788	
19	147	25		327,733		14	588	9,917	2,837		327,733	589	
19	149	63		512,029	37	35	1,471	24,819	8,416		512,029	841	
19	151	22		356,988	15	12	520	8,774	3,923		356,988	883	
19	153	925		225,623	2,490	517	21,613	364,672	112,741		225,623	17,016	
19	155	219		536,704	149	123	5,122	86,425	46,856		536,704		
19	157	47		335,296	74	27	1,108	18,693	11,515		335,296	378	
19	159	14		263,753	37	8	318	5,361	1,428		263,753		
19	161	30		344,949	37	17	697	11,761	5,304		344,949	841	
19	163	405	3,889	225,248	744	226	9,451	159,458	47,440		225,248	6,448	
19	165	32		342,366	37	18	757	12,781	4,111		342,366	1,051	
19	167	80		493,556	210	44	1,858	31,355	10,110		493,556	168	
19	169	191		340,885	372	107	4,467	75,373	23,536		340,885	3,869	
19	171	45		396,220		25	1,054	17,788	6,870		396,220		
19	173	18		291,497		10	416	7,025	1,899		291,497		
19	175	32		225,134	37	18	747	12,611	3,133		225,134	336	
19	177	20		257,227	37	11	467	7,873	2,140		257,227		

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Appendix E-2. County-level Allocation Values Used for Allocation Schemes 18, 22, and 27

State FIPS	County FIPS	A	B	C	D	E	F	G	H	I	J	K	L
		1000dollars	1000barrels	acres	beds	cremations	gallons	people	10E+6VMT	tires	acres	LTOs	%Red. Appl.
19	179	90		208,213	149	50	2,101	35,458	8,488		208,213	1,009	
19	181	103		299,835		58	2,407	40,614	17,097		299,835		
19	183	54		317,699	37	30	1,253	21,147	7,136		317,699	547	
19	185	17		286,412	37	9	390	6,581	2,908		286,412		
19	187	99		412,641	149	55	2,301	38,832	9,856		412,641	2,804	
19	189	30		241,600		17	709	11,971	2,243		241,600		
19	191	53		360,778	74	30	1,240	20,917	6,887		360,778	866	
19	193	257		497,241	744	144	6,012	101,437	28,760		497,241	5,591	
19	195	19		227,898		11	454	7,657	6,151		227,898		
19	197	35		349,675	37	20	823	13,892	3,733		349,675	56	
20	001			271,137	50	23	413	14,435	4,903		271,137	656	
20	003			367,031	50	13	232	8,119	2,425		367,031		
20	005			242,096	100	27	482	16,856	4,561		242,096	1,388	
20	007			595,104	50	9	150	5,240	1,481		595,104		
20	009			612,617	190	47	820	28,658	7,836		612,617	1,514	
20	011			329,461	100	24	429	14,980	4,590		329,461	715	
20	013			332,927	100	18	313	10,930	3,768		332,927		
20	015		3,889	758,784	100	102	1,796	62,769	29,125		758,784	5,215	
20	017			409,224		5	82	2,855	4,676		409,224		
20	019			391,291	20	7	122	4,273	2,089		391,291		
20	021			269,253	20	36	641	22,401	5,818		269,253		
20	023			562,300	20	5	92	3,225	873		562,300	224	
20	025			545,587	50	4	67	2,342	1,086		545,587		
20	027			368,540	50	15	257	8,971	2,286		368,540	589	
20	029			393,227	50	16	286	10,007	2,421		393,227		
20	031			306,865	50	14	250	8,741	5,216		306,865	1,009	
20	033			503,976	20	3	56	1,954	486		503,976		
20	035			642,549	100	60	1,057	36,948	9,688		642,549	841	
20	037			290,557	201	59	1,040	36,347	9,766		290,557	1,346	
20	039			515,162	50	5	96	3,370	1,620		515,162	841	
20	041			513,942	100	32	562	19,645	10,740		513,942	5,607	
20	043			222,074		13	228	7,954	3,702		222,074		
20	045			218,517	201	160	2,813	98,343	24,166		218,517	2,019	
20	047			356,591	20	5	94	3,275	1,572		356,591		
20	049			330,832		5	97	3,384	922		330,832		

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Appendix E-2. County-level Allocation Values Used for Allocation Schemes 18, 22, and 27

State FIPS	County FIPS	A	B	C	D	E	F	G	H	I	J	K	L
		1000dollars	1000barrels	acres	beds	cremations	gallons	people	10E+6VMT	tires	acres	LTOs	%Red. Appl.
20	051			507,232	503	43	753	26,338	11,474		507,232	4,205	
20	053			375,563	20	10	178	6,220	6,988		375,563		
20	055			761,443	201	61	1,070	37,409	8,978		761,443	6,005	
20	057			668,993	100	48	846	29,587	7,152		668,993	4,766	
20	059			303,061	100	41	719	25,136	13,651		303,061	1,388	
20	061			153,941	201	40	713	24,911	11,173		153,941	911	
20	063			648,624	50	5	87	3,028	7,744		648,624		
20	065			485,646	20	5	89	3,118	840		485,646		
20	067			332,607	50	13	226	7,885	1,032		332,607	1,682	
20	069			555,937		9	160	5,579	2,755		555,937		
20	071			441,609	20	3	47	1,648	393		441,609		
20	073			634,169	50	13	228	7,961	2,497		634,169	673	
20	075			527,709	50	4	68	2,374	1,102		527,709		
20	077			460,898	50	10	180	6,305	1,180		460,898	421	
20	079			321,003	201	56	980	34,261	13,313		321,003	5,607	
20	081			368,790	20	7	116	4,042	1,968		368,790		
20	083			485,004	50	4	64	2,235	571		485,004		
20	085			321,435	20	20	348	12,177	4,480		321,435		
20	087			269,019	50	29	519	18,146	9,231		269,019		
20	089			459,122	50	6	108	3,787	1,838		459,122		
20	091			135,787	1,578	714	12,593	440,198	152,632		135,787	26,663	
20	093			525,746	20	7	118	4,137	2,021		525,746		
20	095			520,667	50	14	247	8,651	2,692		520,667	841	
20	097			441,979	20	5	96	3,351	1,611		441,979		
20	099			331,489	201	37	656	22,941	7,341		331,489	841	
20	101			435,349	20	4	62	2,174	551		435,349		
20	103			201,826	578	116	2,053	71,766	20,721		201,826		
20	105			427,554	50	5	95	3,338	2,099		427,554		
20	107			278,086		15	266	9,296	4,665		278,086		
20	109			627,972	20	5	84	2,938	1,494		627,972	421	
20	111			495,789	100	55	967	33,794	16,592		495,789	1,682	
20	113			522,758	109	47	824	28,815	14,267		522,758	1,430	
20	115			562,926	100	22	387	13,544	5,486		562,926		
20	117			514,195	50	18	312	10,908	3,955		514,195		
20	119			554,522	20	7	126	4,407	2,159		554,522	421	

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State FIPS	County FIPS	A	B	C	D	E	F	G	H	I	J	K	L
		1000dollars	1000barrels	acres	beds	cremations	gallons	people	10E+6VMT	tires	acres	LTOs	%Red. Appl.
20	121			279,859	50	44	775	27,083	9,045		279,859		
20	123			454,521	50	11	199	6,957	1,526		454,521	639	
20	125			328,342	201	60	1,052	36,773	10,715		328,342	1,430	
20	127			395,856	50	10	177	6,173	3,071		395,856	1,682	
20	129			422,492	50	6	100	3,489	952		422,492	729	
20	131			417,656	50	17	291	10,182	5,115		417,656		
20	133			344,968	100	27	476	16,641	5,143		344,968	757	
20	135			623,096	50	6	102	3,564	972		623,096		
20	137			478,809	20	9	161	5,635	1,372		478,809	280	
20	139			359,967		28	492	17,199	10,930		359,967		
20	141			505,320	20	7	131	4,589	2,251		505,320		
20	143			399,959	50	10	168	5,889	2,919		399,959		
20	145			480,034	20	12	206	7,207	1,481		480,034	1,051	
20	147			554,603	50	10	170	5,958	1,690		554,603	235	
20	149			443,014	87	31	542	18,942	7,801		443,014		
20	151			437,382	100	15	272	9,517	2,264		437,382	1,161	
20	153			646,616	20	5	86	3,016	806		646,616	421	
20	155			661,960	201	103	1,822	63,702	18,699		661,960	7,912	
20	157			428,037	50	10	171	5,975	1,435		428,037	589	
20	159			457,655	50	17	293	10,233	3,402		457,655	841	
20	161			237,773		103	1,823	63,708	17,220		237,773	4,197	
20	163			569,511	20	9	161	5,626	2,781		569,511		
20	165			412,285	20	5	96	3,365	1,616		412,285		
20	167			429,267		12	213	7,459	5,914		429,267	673	
20	169			413,752	503	83	1,470	51,379	18,637		413,752	10,564	
20	171			476,259	50	8	141	4,941	686		476,259		
20	173			539,763	2,903	733	12,921	451,684	133,799		539,763	31,304	
20	175			327,830	100	33	575	20,115	3,582		327,830	6,168	
20	177			224,143	1,005	277	4,885	170,773	58,383		224,143	13,733	
20	179			507,393	50	4	76	2,674	1,264		507,393		
20	181			652,688	50	11	187	6,523	6,480		652,688	841	
20	183			491,990	50	7	131	4,575	2,245		491,990	463	
20	185			434,617	20	8	143	4,996	2,462		434,617		
20	187			400,232	20	4	64	2,225	569		400,232	1,682	
20	189			511,859	50	9	154	5,400	550		511,859	967	

To calculate allocation proportion of national emissions to county, divide number of county unit within an industry category by total (national) number of units within that category

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K = Aviation Gasoline Distribution: Stage I and II; Landing-TakeOffs

L = Gasoline Distribution Stage II; % Reduction applied; (see PageE2-92 for information on this reduction)

Appendix E-2. County-level Allocation Values Used for Allocation Schemes 18, 22, and 27

State FIPS	County FIPS	A	B	C	D	E	F	G	H	I	J	K	L
		1000dollars	1000barrels	acres	beds	cremations	gallons	people	10E+6VMT	tires	acres	LTOs	%Red. Appl.
20	191			667,229	50	44	777	27,173	15,644		667,229	1,346	
20	193			679,384	50	13	228	7,965	8,674		679,384	505	
20	195			462,388	50	5	93	3,261	6,015		462,388		
20	197			478,426		11	188	6,578	6,000		478,426		
20	199			480,043		3	52	1,801	443		480,043		
20	201			536,328	50	11	185	6,473	3,224		536,328	224	
20	203			449,558	20	4	74	2,578	680		449,558		
20	205			301,477	50	17	296	10,339	2,537		301,477		
20	207			254,482		6	112	3,911	1,496		254,482		
20	209		7,777	22,351	1,244	246	4,331	151,379	63,946		22,351		
21	001	272		160,437	78	11	6,346	16,462	5,293		160,437		
21	003	278		159,149	39	11	6,497	16,854	5,138		159,149		
21	005	310		83,948		12	7,250	18,807	6,697		83,948		
21	007	141		118,597		6	3,283	8,516	3,545		118,597		
21	009	617		249,683	157	24	14,401	37,355	17,531		249,683	1,794	
21	011	177		128,696		7	4,141	10,741	8,243		128,696		
21	013	479		3,684	157	19	11,190	29,028	9,556		3,684		
21	015	1,376		79,855	157	55	32,134	83,356	29,483		79,855	7,588	95
21	017	320		196,537	39	13	7,465	19,363	6,754		196,537		
21	019	806		26,094	785	32	18,829	48,843	18,778		26,094		95
21	021	452		94,905	157	18	10,547	27,358	9,502		94,905		
21	023	140		91,714		6	3,268	8,478	3,038		91,714		
21	025	260		46,646	78	10	6,080	15,771	5,734		46,646		
21	027	293		267,918	39	12	6,834	17,728	7,494		267,918		
21	029	1,006		56,570		40	23,499	60,955	29,337		56,570		95
21	031	198		151,373		8	4,633	12,019	4,350		151,373		
21	033	221		148,020	39	9	5,153	13,366	5,459		148,020		
21	035	550		145,909	157	22	12,835	33,293	11,671		145,909	1,962	
21	037	1,439		45,108	157	57	33,617	87,203	38,378		45,108		95
21	039	89		90,258		4	2,076	5,386	2,202		90,258		
21	041	161		59,975		6	3,768	9,775	7,176		59,975		
21	043	447		108,672		18	10,450	27,106	22,779		108,672		
21	045	246		190,623		10	5,747	14,908	5,416		190,623		
21	047	1,187		309,615	393	47	27,734	71,941	32,552		309,615	2,467	
21	049	536		146,819	78	21	12,512	32,457	17,342		146,819		

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L = Gasoline Distribution Stage II; % Reduction applied; (see PageE2-92 for information on this reduction)

Appendix E-2. County-level Allocation Values Used for Allocation Schemes 18, 22, and 27

State FIPS	County FIPS	A	B	C	D	E	F	G	H	I	J	K	L
		1000dollars	1000barrels	acres	beds	cremations	gallons	people	10E+6VMT	tires	acres	LTOs	%Red. Appl.
21	051	376		57,164	78	15	8,782	22,780	9,664		57,164		
21	053	156		78,057	39	6	3,648	9,464	3,954		78,057		
21	055	158		141,557	39	6	3,684	9,556	1,737		141,557		
21	057	113		108,409	39	5	2,651	6,876	1,868		108,409		
21	059	1,505		250,921	393	60	35,150	91,179	29,725		250,921	10,945	
21	061	191		89,568		8	4,470	11,595	4,217		89,568		
21	063	108		57,663		4	2,519	6,533	1,772		57,663		
21	065	256		62,104	16	10	5,978	15,506	2,808		62,104		
21	067	4,024		135,923	2,478	160	93,981	243,785	95,990		135,923	13,957	
21	069	225		189,048	39	9	5,245	13,605	4,348		189,048		
21	071	714		7,319	208	28	16,679	43,266	17,042		7,319		
21	073	769		82,636	157	31	17,960	46,588	20,706		82,636	5,327	
21	075	123		93,677	39	5	2,872	7,451	947		93,677		
21	077	123		36,406		5	2,867	7,437	8,579		36,406		
21	079	237		124,749	39	9	5,525	14,333	4,334		124,749		
21	081	343		115,355	16	14	8,020	20,805	12,975		115,355		
21	083	598		237,083	157	24	13,976	36,254	14,049		237,083	1,121	
21	085	393		208,828	78	16	9,186	23,828	7,847		208,828		
21	087	175		129,123	39	7	4,084	10,595	2,914		129,123		
21	089	606		97,967		24	14,160	36,732	11,470		97,967		95
21	091	148		65,046		6	3,461	8,977	3,228		65,046		
21	093	1,511		222,972	785	60	35,300	91,567	44,326		222,972	1,822	
21	095	566		2,326	78	22	13,212	34,273	12,383		2,326		
21	097	292		169,381	78	12	6,810	17,666	4,779		169,381		
21	099	278		186,446	16	11	6,501	16,864	11,938		186,446		
21	101	733		196,277	157	29	17,120	44,410	19,378		196,277		
21	103	248		149,179		10	5,791	15,023	9,476		149,179		
21	105	85		114,598		3	1,984	5,146	2,097		114,598		
21	107	762		141,248	393	30	17,793	46,155	17,261		141,248	1,682	
21	109	215		73,677		9	5,027	13,040	3,609		73,677		
21	111	11,107		34,028	4,060	441	259,408	672,900	271,228		34,028	25,783	95
21	113	616		88,508		24	14,379	37,300	11,936		88,508		
21	115	396		20,389	39	16	9,252	23,999	8,372		20,389		
21	117	2,430		37,788	785	96	56,755	147,221	63,843		37,788		95
21	119	296		3,710		12	6,913	17,931	6,533		3,710		

To calculate allocation proportion of national emissions to county, divide number of county unit within an industry category by total (national) number of units within that category

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L = Gasoline Distribution Stage II; % Reduction applied; (see PageE2-92 for information on this reduction)

Appendix E-2. County-level Allocation Values Used for Allocation Schemes 18, 22, and 27

State FIPS	County FIPS	A	B	C	D	E	F	G	H	I	J	K	L
		1000dollars	1000barrels	acres	beds	cremations	gallons	people	10E+6VMT	tires	acres	LTOs	%Red. Appl.
21	121	528		46,470	39	21	12,327	31,976	11,131		46,470		
21	123	217		116,503		9	5,069	13,150	4,429		116,503		
21	125	859		95,610	157	34	20,052	52,015	29,312		95,610	1,542	
21	127	261		48,940	39	10	6,091	15,800	5,745		48,940		
21	129	132		23,956		5	3,082	7,994	2,186		23,956		
21	131	224		2,670	78	9	5,227	13,558	5,707		2,670		
21	133	430		2,686	78	17	10,050	26,069	8,617		2,686		
21	135	222		143,179		9	5,193	13,471	4,888		143,179		
21	137	372		170,356	39	15	8,689	22,540	8,415		170,356		
21	139	156		117,279	39	6	3,655	9,481	4,394		117,279		
21	141	434		273,455	39	17	10,130	26,276	9,839		273,455	1,262	
21	143	133		48,344		5	3,107	8,060	11,695		48,344		
21	145	1,063		66,547	785	42	24,829	64,407	25,806		66,547	4,412	
21	147	277		10,902		11	6,459	16,754	7,073		10,902		
21	149	163		134,356		6	3,815	9,897	2,721		134,356		
21	151	1,117		221,605	157	44	26,095	67,690	32,310		221,605	1,822	
21	153	232		40,715		9	5,411	14,036	5,913		40,715		
21	155	283		166,135		11	6,600	17,120	5,594		166,135		
21	157	499		89,337	39	20	11,662	30,250	14,782		89,337		
21	159	196		2,230		8	4,588	11,901	4,996		2,230		
21	161	278		131,457	78	11	6,486	16,825	5,913		131,457	2,243	
21	163	482		120,645		19	11,255	29,195	11,205		120,645		
21	165	97		38,135		4	2,261	5,865	1,587		38,135		
21	167	343		126,389	39	14	8,022	20,809	7,506		126,389		
21	169	158		133,706		6	3,699	9,596	4,012		133,706		
21	171	184		167,161	39	7	4,301	11,157	1,869		167,161		
21	173	357		111,651	78	14	8,341	21,636	10,434		111,651	2,944	
21	175	225		111,300	39	9	5,266	13,660	5,752		111,300		
21	177	528		114,824	157	21	12,324	31,968	9,659		114,824	1,121	
21	179	610		176,468	78	24	14,253	36,971	14,644		176,468	1,121	
21	181	118		106,292	39	5	2,747	7,126	2,540		106,292		
21	183	365		162,179	39	14	8,530	22,128	6,138		162,179		
21	185	756		70,535	78	30	17,664	45,821	17,535		70,535		95
21	187	172		150,444	39	7	4,016	10,418	2,864		150,444		
21	189	89		31,767		4	2,072	5,375	1,437		31,767		

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Appendix E-2. County-level Allocation Values Used for Allocation Schemes 18, 22, and 27

State FIPS	County FIPS	A	B	C	D	E	F	G	H	I	J	K	L
		1000dollars	1000barrels	acres	beds	cremations	gallons	people	10E+6VMT	tires	acres	LTOs	%Red. Appl.
21	191	230		116,691		9	5,381	13,959	5,880		116,691		
21	193	508		6,784	157	20	11,876	30,805	10,682		6,784		
21	195	1,181		5,851	393	47	27,574	71,526	25,674		5,851		
21	197	219		28,490		9	5,113	13,264	4,322		28,490		
21	199	943		214,849	157	37	22,016	57,110	22,819		214,849	4,850	
21	201	37		47,849		1	873	2,265	737		47,849		
21	203	264		93,657	78	10	6,158	15,974	14,605		93,657		
21	205	366		42,472	157	15	8,546	22,168	14,011		42,472		
21	207	267		94,837	39	11	6,238	16,182	5,889		94,837		
21	209	532		145,858	39	21	12,432	32,249	21,956		145,858	2,523	
21	211	504		198,639	78	20	11,778	30,552	17,327		198,639		
21	213	274		114,972	39	11	6,394	16,587	8,992		114,972		
21	215	172		81,071		7	4,025	10,441	2,870		81,071		
21	217	379		112,307	78	15	8,844	22,942	7,320		112,307	1,542	
21	219	186		189,968		7	4,352	11,289	4,730		189,968		
21	221	208		116,966	16	8	4,855	12,593	9,502		116,966		
21	223	131		64,144		5	3,056	7,926	2,434		64,144		
21	225	272		211,642	39	11	6,360	16,499	5,450		211,642	1,234	
21	227	1,447		254,813	393	57	33,802	87,683	44,327		254,813	6,278	
21	229	182		157,392		7	4,259	11,047	3,393		157,392	796	
21	231	317		131,366	39	13	7,398	19,190	5,222		131,366	1,290	
21	233	222		136,292		9	5,189	13,460	4,066		136,292		
21	235	596		43,526	393	24	13,928	36,130	23,191		43,526		
21	237	124		56,718		5	2,894	7,507	3,110		56,718		
21	239	376		122,917	39	15	8,779	22,773	10,495		122,917		
22	001	2,102		272,855	158	47	49,086	57,947	23,143		272,855		
22	003	878		115,584	79	20	20,514	24,218	8,306		115,584		
22	005	2,686		55,270	107	60	62,725	74,049	27,820		55,270		95
22	007	843		64,060	16	19	19,688	23,242	9,151		64,060		
22	009	1,477		259,340	79	33	34,484	40,710	16,650		259,340		
22	011	1,170		165,274	79	26	27,331	32,265	11,198		165,274	1,121	
22	013	571		46,759	3	13	13,332	15,739	9,682		46,759		
22	015	3,387		111,464	320	76	79,095	93,374	28,946		111,464		
22	017	8,759		172,822	2,332	197	204,571	241,502	85,908		172,822	20,564	
22	019	6,550		311,555	1,033	147	152,988	180,607	65,786		311,555	6,892	

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Appendix E-2. County-level Allocation Values Used for Allocation Schemes 18, 22, and 27

State FIPS	County FIPS	A	B	C	D	E	F	G	H	I	J	K	L
		1000dollars	1000barrels	acres	beds	cremations	gallons	people	10E+6VMT	tires	acres	LTOs	%Red. Appl.
22	021	380		70,411	39	9	8,868	10,469	4,712		70,411		
22	023	325		244,824	39	7	7,597	8,969	3,006		244,824		
22	025	396		228,693		9	9,237	10,905	2,998		228,693		
22	027	610		58,409	79	14	14,253	16,826	4,537		58,409	140	
22	029	746		253,241	39	17	17,426	20,572	5,272		253,241		
22	031	912		156,733	39	20	21,301	25,146	20,916		156,733	841	
22	033	14,264		66,008	1,896	320	333,150	393,294	114,436		66,008	15,146	95
22	035	316		210,262		7	7,386	8,719	2,170		210,262	785	
22	037	766		115,153		17	17,889	21,119	7,665		115,153		
22	039	1,245		181,063	158	28	29,079	34,329	10,055		181,063		
22	041	798		268,792	39	18	18,630	21,993	8,010		268,792		
22	043	697		48,609		16	16,273	19,211	8,740		48,609		
22	045	2,663		102,628	158	60	62,197	73,425	19,673		102,628	3,532	
22	047	1,137		96,407	79	26	26,562	31,357	14,296		96,407		95
22	049	560		15,823	39	13	13,086	15,449	4,133		15,823	70	
22	051	16,241		4,836	2,307	365	379,312	447,790	89,138		4,836	8,387	
22	053	1,140		303,575	79	26	26,618	31,423	15,718		303,575	819	
22	055	6,797		87,880	1,147	153	158,745	187,403	65,578		87,880	11,156	
22	057	3,245		135,042	289	73	75,782	89,463	26,003		135,042		
22	059	497		27,245	79	11	11,609	13,705	4,035		27,245		
22	061	1,492		41,455	158	33	34,839	41,129	16,715		41,455	1,402	
22	063	3,307		40,471		74	77,238	91,182	34,801		40,471		95
22	065	471		266,435		11	11,001	12,987	12,951		266,435	245	
22	067	1,133		258,209	79	25	26,464	31,242	9,565		258,209		
22	069	1,349		188,804	79	30	31,510	37,198	27,234		188,804		
22	071	16,717		41	3,575	375	390,428	460,913	96,966		41	22,527	
22	073	5,320		89,083	984	119	124,242	146,672	50,066		89,083	6,994	
22	075	946		36,756		21	22,104	26,094	3,237		36,756		
22	077	850		201,137	39	19	19,855	23,440	8,484		201,137		95
22	079	4,598		194,480	1,079	103	107,388	126,775	55,020		194,480	1,778	
22	081	344		113,176	39	8	8,038	9,489	3,188		113,176		
22	083	765		236,721	79	17	17,858	21,082	14,554		236,721	1,682	
22	085	864		56,683	39	19	20,171	23,812	7,612		56,683	336	
22	087	2,372		3,404	158	53	55,404	65,406	8,184		3,404		
22	089	1,764		21,338	79	40	41,202	48,640	11,732		21,338		

To calculate allocation proportion of national emissions to county, divide number of county unit within an industry category by total (national) number of units within that category

A = Asphalt Paving: Cutback; FHWA funding

B = Drum and Barrel Reclamation; 55-gallon barrels reclaimed

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K = Aviation Gasoline Distribution: Stage I and II; Landing-TakeOffs

L = Gasoline Distribution Stage II; % Reduction applied; (see PageE2-92 for information on this reduction)

Appendix E-2. County-level Allocation Values Used for Allocation Schemes 18, 22, and 27

State FIPS	County FIPS	A	B	C	D	E	F	G	H	I	J	K	L
		1000dollars	1000barrels	acres	beds	cremations	gallons	people	10E+6VMT	tires	acres	LTOs	%Red. Appl.
22	091	348		65,741	39	8	8,138	9,607	3,229		65,741		
22	093	769		45,347	39	17	17,955	21,197	6,755		45,347		
22	095	1,541		9,538	79	35	35,996	42,494	13,371		9,538		
22	097	3,055		264,841	395	69	71,360	84,243	38,659		264,841	2,103	
22	099	1,728		77,997	16	39	40,359	47,645	22,874		77,997		
22	101	2,060		83,166	158	46	48,110	56,795	12,055		83,166	3,645	
22	103	6,998		41,863	841	157	163,439	192,945	76,136		41,863		
22	105	3,565		120,022	513	80	83,255	98,285	49,455		120,022	673	
22	107	237		240,892		5	5,539	6,539	2,353		240,892		
22	109	3,813		52,873	395	86	89,051	105,128	27,907		52,873	6,270	
22	111	804		63,170	39	18	18,775	22,165	8,466		63,170		
22	113	1,895		328,565	79	43	44,267	52,258	14,166		328,565	3,140	
22	115	1,870		43,615	395	42	43,681	51,567	13,769		43,615		
22	117	1,565		100,006	160	35	36,562	43,162	13,449		100,006	2,243	
22	119	1,552		50,296	79	35	36,252	42,797	17,760		50,296	1,234	
22	121	741		28,836		17	17,298	20,421	10,290		28,836		95
22	123	442		166,915	39	10	10,313	12,175	4,116		166,915		
22	125	502		76,164	16	11	11,718	13,833	6,262		76,164		
22	127	635		17,871	39	14	14,822	17,498	5,620		17,871	3,897	
23	001				1,808	422	12,932	101,337	30,255		55,905	7,009	
23	003	1,381			1,559	316	9,677	75,836	26,171		324,887	3,757	
23	005				6,170	1,068	32,724	256,437	91,814		49,829	11,033	95
23	007				361	120	3,675	28,797	11,761		40,091	841	
23	009	904			874	207	6,338	49,670	23,017		42,607	5,046	
23	011				3,286	480	14,704	115,224	48,577		88,134	10,654	
23	013				722	159	4,874	38,193	12,468		25,183	7,570	
23	015				722	133	4,077	31,947	13,034		25,920		
23	017				722	226	6,928	54,288	18,792		63,959		
23	019	2,630			3,472	601	18,431	144,432	56,197		116,593	8,691	
23	021	329			180	75	2,307	18,077	6,336		34,171	561	
23	023					151	4,628	36,267	15,152		17,853		95
23	025	958			722	219	6,716	52,630	22,641		101,270	3,084	
23	027				361	154	4,717	36,965	13,935		68,569	841	
23	029	644			361	147	4,511	35,352	14,772		98,336	4,486	
23	031				1,711	739	22,662	177,588	72,746	4,000	58,341	8,691	95

To calculate allocation proportion of national emissions to county, divide number of county unit within an industry category by total (national) number of units within that category

A = Asphalt Paving: Cutback; FHWA funding

B = Drum and Barrel Reclamation; 55-gallon barrels reclaimed

C = Grain Elevators; Acreage farms available

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K = Aviation Gasoline Distribution: Stage I and II; Landing-TakeOffs

L = Gasoline Distribution Stage II; % Reduction applied; (see PageE2-92 for information on this reduction)

Appendix E-2. County-level Allocation Values Used for Allocation Schemes 18, 22, and 27

State FIPS	County FIPS	A	B	C	D	E	F	G	H	I	J	K	L
		1000dollars	1000barrels	acres	beds	cremations	gallons	people	10E+6VMT	tires	acres	LTOs	%Red. Appl.
24	001	556			367	125	12,984	71,162	41,571				
24	003	3,753			918	845	87,665	480,483	140,717			7,961	95
24	005	5,655			1,766	1,274	132,079	723,914	224,505			19,320	95
24	009	576			147	130	13,455	73,748	26,794				95
24	011	232				52	5,420	29,708	10,511				
24	013	1,191			367	268	27,818	152,468	51,333			9,812	95
24	015	658			147	148	15,369	84,238	42,246				95
24	017	945			147	213	22,067	120,946	32,182				95
24	019	232			73	52	5,420	29,709	9,184			738	
24	021	1,491			367	336	34,824	190,869	81,709			7,071	95
24	023	230			73	52	5,362	29,389	29,601			280	
24	025	1,702			367	383	39,757	217,908	70,417				95
24	027	1,899			367	428	44,356	243,112	70,128				95
24	029	149			73	34	3,483	19,089	5,848				95
24	031	6,657			1,758	1,499	155,480	852,174	242,811			10,682	95
24	033	6,107			1,221	1,376	142,637	781,781	233,715			1,346	95
24	035	318				72	7,424	40,688	16,203			2,523	95
24	037	693			147	156	16,194	88,758	30,061			2,724	
24	039	189			37	43	4,422	24,236	8,430				
24	041	262			147	59	6,121	33,550	10,955			15,139	
24	043	998			367	225	23,316	127,791	70,833			9,355	
24	045	622			367	140	14,516	79,560	26,486			6,643	
24	047	341			73	77	7,968	43,672	13,306				
24	510	4,942			7,540	1,113	115,433	632,681	219,627				95
25	001	141			65	432	3,291	212,519	77,507			52,919	86
25	003	88			65	269	2,048	132,218	61,292			3,112	86
25	005	345			240	1,059	8,057	520,258	147,185			5,607	86
25	007	9			6	29	218	14,048	2,677			8,994	86
25	009	467			349	1,433	10,909	704,407	200,992			11,746	86
25	011	47			26	144	1,097	70,806	43,996			9,252	86
25	013	291			296	892	6,788	438,279	131,770			9,703	86
25	015	100			65	307	2,337	150,892	55,754			4,822	86
25	017	946			783	2,903	22,093	1,426,606	389,371			4,362	86
25	019	5			6	17	127	8,206	1,297			13,013	86
25	021	427			292	1,309	9,967	643,580	217,338			15,673	86

To calculate allocation proportion of national emissions to county, divide number of county unit within an industry category by total (national) number of units within that category

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Appendix E-2. County-level Allocation Values Used for Allocation Schemes 18, 22, and 27

State FIPS	County FIPS	A	B	C	D	E	F	G	H	I	J	K	L
		1000dollars	1000barrels	acres	beds	cremations	gallons	people	10E+6VMT	tires	acres	LTOs	%Red. Appl.
25	023	314			213	962	7,326	473,026	122,137			25,232	86
25	025	426			1,524	1,306	9,938	641,695	94,342			9,997	86
25	027	490			447	1,503	11,439	738,629	249,852			34,804	86
26	001	9				27	221	11,147	3,936		43,383		
26	003	9			11	25	200	10,083	2,453		16,029		
26	005	88			55	254	2,048	103,406	43,471		236,936	1,054	
26	007	26			110	75	606	30,615	9,294		78,047	1,910	
26	009	19				54	435	21,953	7,874		55,166	2,066	
26	011	14			110	41	328	16,547	12,456		86,240		
26	013	7			27	21	172	8,672	2,922		14,988		
26	015	46			110	134	1,082	54,648	12,804		164,815	880	
26	017	93			274	269	2,169	109,514	41,134		175,931	1,598	
26	019	13			27	37	302	15,257	5,436		22,556	485	
26	021	135			549	392	3,163	159,709	69,251		173,958	6,686	
26	023	37			110	108	868	43,825	21,319		234,076		
26	025	120			274	347	2,800	141,380	57,144		243,151	14,230	
26	027	43			27	123	993	50,129	12,114		176,831	5,355	
26	029	21			27	61	496	25,034	6,346		31,077	2,352	
26	031	20			55	59	478	24,153	21,126		50,582	378	
26	033	32			55	93	751	37,904	18,704		98,979	3,628	
26	035	25			55	73	593	29,955	9,522		62,831	1,012	
26	037	54			27	157	1,269	64,054	28,000		243,850	19,558	
26	039	12			110	35	283	14,265	13,531		2,568	757	
26	041	33			55	95	769	38,848	11,195		70,232	6,416	
26	043	23			55	66	534	26,944	7,132		28,298	196	
26	045	86			55	249	2,012	101,612	38,093		231,870	1,245	
26	047	25			274	71	574	28,995	9,892		40,115	8,299	
26	049	371			1,345	1,073	8,661	437,349	163,350		117,968	9,304	
26	051	22			27	63	509	25,697	5,586		68,036	1,278	
26	053	14			55	42	338	17,043	5,058		4,197	1,878	
26	055	64			549	185	1,492	75,352	24,615		61,767	11,468	
26	057	34			274	98	793	40,027	12,705		276,833	1,343	
26	059	40			55	115	932	47,042	15,072		257,469		
26	061	30			110	87	702	35,448	10,953		23,126	1,121	
26	063	30			116	87	699	35,283	11,484		424,122		

To calculate allocation proportion of national emissions to county, divide number of county unit within an industry category by total (national) number of units within that category

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Appendix E-2. County-level Allocation Values Used for Allocation Schemes 18, 22, and 27

State FIPS	County FIPS	A	B	C	D	E	F	G	H	I	J	K	L
		1000dollars	1000barrels	acres	beds	cremations	gallons	people	10E+6VMT	tires	acres	LTOs	%Red. Appl.
26	065	242			1,098	699	5,647	285,123	93,460		190,405		
26	067	57			27	165	1,329	67,126	23,427		236,652	5,972	
26	069	22				64	513	25,928	7,706		42,667	2,049	
26	071	11			27	31	254	12,817	4,547		23,823		
26	073	50			110	145	1,171	59,122	18,727		216,651	3,504	
26	075	133			465	386	3,115	157,271	62,320		181,287	11,221	
26	077	195			549	564	4,552	229,867	81,715		146,927	10,595	
26	079	13			27	39	313	15,808	5,643		21,375		
26	081	467			1,957	1,350	10,900	550,388	182,228		186,453	15,980	
26	083	2				5	42	2,142	458				
26	085	9				26	210	10,627	3,737		22,971		
26	087	76			274	219	1,770	89,391	37,072		178,249	1,822	
26	089	16			27	48	384	19,370	4,737		62,129		
26	091	85			274	245	1,976	99,780	30,440		336,468	1,262	
26	093	128			110	372	3,000	151,496	60,482		98,297		
26	095	6			27	17	134	6,754	2,337			869	
26	097	9			27	27	220	11,103	12,875		21,513		
26	099	672			1,111	1,943	15,687	792,082	220,656		68,829	6,112	
26	101	20			55	58	469	23,665	7,339		47,521	1,698	
26	103	53			274	154	1,243	62,758	17,386		26,624		
26	105	24			55	69	554	27,966	8,635		77,103	1,747	
26	107	35			55	100	806	40,704	12,603		111,974		
26	109	21				60	484	24,449	7,357		109,661	2,523	
26	111	70			274	201	1,624	81,994	25,425		79,667	3,953	
26	113	12				35	280	14,151	3,440		90,027		
26	115	123			274	355	2,870	144,913	53,430		209,715	2,495	
26	117	52			156	151	1,216	61,406	20,191		237,771	4,486	
26	119	8				25	198	10,014	3,516		21,025		
26	121	142			549	412	3,328	168,037	50,529		73,113	11,473	
26	123	39			55	114	918	46,356	10,373		122,294	2,607	
26	125	1,001			4,424	2,894	23,369	1,179,978	342,281		45,366	61,990	
26	127	21			27	61	493	24,900	8,942		127,994		
26	129	18			55	52	420	21,201	11,733		73,239	1,138	
26	131	7			2	19	152	7,668	2,663		32,516	449	
26	133	19			55	55	440	22,220	7,971		108,250		

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Appendix E-2. County-level Allocation Values Used for Allocation Schemes 18, 22, and 27

State FIPS	County FIPS	A	B	C	D	E	F	G	H	I	J	K	L
		1000dollars	1000barrels	acres	beds	cremations	gallons	people	10E+6VMT	tires	acres	LTOs	%Red. Appl.
26	135	8				22	176	8,899	3,118		13,904		
26	137	19			55	56	450	22,719	15,380		34,450	2,128	
26	139	195			319	565	4,560	230,261	79,872		170,627	3,056	
26	141	12				36	289	14,596	3,838		82,466	219	
26	143	20				58	467	23,562	15,012		4,139	549	
26	145	177			995	513	4,144	209,245	68,502		297,842	10,579	
26	147	137			392	397	3,203	161,755	66,048		162,887	6,508	
26	149	52			110	151	1,217	61,448	19,468		217,345	4,570	
26	151	37			101	107	861	43,451	15,682		429,706	939	
26	153	7			27	22	174	8,788	1,812		15,742	1,514	
26	155	61			110	177	1,433	72,346	24,162		214,153	3,000	
26	157	49			55	143	1,153	58,195	18,645		333,099	1,472	
26	159	64			110	186	1,504	75,917	31,164		177,360	2,747	
26	161	260			2,764	751	6,062	306,073	113,850		180,223	12,169	
26	163	1,786			6,908	5,167	41,718	2,106,495	638,321		39,102	71,340	
26	165	25			110	73	585	29,560	8,917		43,321	1,878	
27	001	7		163,523	73	31	159	14,293	7,260		163,523	697	
27	003	143		57,313	729	650	3,332	298,948	87,727		57,313	17,218	
27	005	14		388,733	73	65	332	29,757	12,378		388,733	1,141	
27	007	19		224,898	146	85	437	39,210	15,035		224,898		
27	009	17		176,330		76	388	34,832	11,657		176,330		
27	011	3		253,988	73	12	62	5,571	2,733		253,988	336	
27	013	26		403,362	364	117	600	53,874	16,001		403,362	3,785	
27	015	13		350,398	127	58	300	26,903	7,143		350,398	1,934	
27	017	15		107,166	146	68	351	31,492	18,325		107,166	252	
27	019	32		153,223	146	146	747	67,023	18,557		153,223		
27	021	13		191,847		59	301	27,042	13,839		191,847		
27	023	6		318,472	36	28	145	13,028	4,098		318,472	1,682	
27	025	20		121,527	364	92	471	42,302	27,476		121,527		
27	027	25		581,226		112	576	51,717	19,262		581,226	1,121	
27	029	4		212,285	36	18	91	8,146	4,075		212,285		
27	031	2			14	10	53	4,772	1,728			324	
27	033	6		368,346	36	26	133	11,908	4,032		368,346	1,121	
27	035	25		135,322	364	114	586	52,608	19,574		135,322	2,271	
27	037	167		221,316	395	759	3,891	349,131	99,227		221,316		

To calculate allocation proportion of national emissions to county, divide number of county unit within an industry category by total (national) number of units within that category

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L = Gasoline Distribution Stage II; % Reduction applied; (see PageE2-92 for information on this reduction)

Appendix E-2. County-level Allocation Values Used for Allocation Schemes 18, 22, and 27

State FIPS	County FIPS	A	B	C	D	E	F	G	H	I	J	K	L
		1000dollars	1000barrels	acres	beds	cremations	gallons	people	10E+6VMT	tires	acres	LTOs	%Red. Appl.
27	039	8		246,818		38	194	17,396	6,942		246,818		
27	041	15		267,875	146	68	349	31,274	16,049		267,875	3,073	
27	043	8		413,409	36	35	181	16,247	13,021		413,409	1,822	
27	045	10		434,581	36	45	231	20,688	10,562		434,581		
27	047	15		379,580	146	68	351	31,503	18,881		379,580	1,899	
27	049	21		384,565	182	94	483	43,367	14,522		384,565		
27	051	3		278,495	14	13	68	6,077	5,053		278,495		
27	053	508	3,889	69,128	6,249	2,313	11,864	1,064,419	367,285		69,128	75,979	
27	055	9		298,173	36	42	217	19,489	6,991		298,173	421	
27	057	8		130,530	73	37	190	17,031	7,059		130,530	1,991	
27	059	15		139,417	146	67	344	30,887	8,754		139,417	2,509	
27	061	21		103,716	151	96	492	44,154	19,219		103,716	1,121	
27	063	5		383,631	36	25	127	11,378	10,541		383,631	1,079	
27	065	7		138,850	36	31	161	14,427	5,706		138,850		
27	067	19		378,831	146	89	455	40,826	13,689		378,831	1,402	
27	069	2		501,466	36	11	58	5,175	2,533		501,466		
27	071	7		76,635	36	32	166	14,895	4,492		76,635	5,607	
27	073	4		397,519	36	17	87	7,813	3,902		397,519		
27	075	5		3,970	36	23	120	10,765	3,559		3,970	1,234	
27	077	2		117,644	36	10	52	4,621	2,245		117,644	2,523	
27	079	12		214,652	36	55	284	25,464	10,523		214,652		
27	081	3		269,646	97	14	72	6,424	3,179		269,646		
27	083	12		403,001	73	53	270	24,256	7,727		403,001	2,237	
27	085	16		250,244	73	75	385	34,552	10,838		250,244	1,514	
27	087	2		189,927	3	11	57	5,091	2,489		189,927		
27	089	5		774,342	14	22	113	10,094	5,081		774,342		
27	091	10		420,634	73	47	243	21,792	13,572		420,634	444	
27	093	10		293,213	36	47	243	21,763	8,560		293,213		
27	095	10		134,622	146	46	238	21,350	8,795		134,622	2,014	
27	097	15		430,467	73	66	340	30,522	12,633		430,467	1,121	
27	099	18		404,238	146	81	414	37,152	16,229		404,238	2,243	
27	101	5		383,725	14	21	106	9,519	4,783		383,725		
27	103	14		249,259	36	64	326	29,272	7,324		249,259		
27	105	9		390,286	73	42	213	19,113	11,938		390,286	626	
27	107	4		483,041		16	84	7,517	2,448		483,041		

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L = Gasoline Distribution Stage II; % Reduction applied; (see PageE2-92 for information on this reduction)

Appendix E-2. County-level Allocation Values Used for Allocation Schemes 18, 22, and 27

State FIPS	County FIPS	A	B	C	D	E	F	G	H	I	J	K	L
		1000dollars	1000barrels	acres	beds	cremations	gallons	people	10E+6VMT	tires	acres	LTOs	%Red. Appl.
27	109	57		303,665	1,457	259	1,327	119,077	43,142		303,665	7,677	
27	111	27		840,353	146	121	620	55,583	30,165		840,353	398	
27	113	6		312,752	73	29	151	13,557	3,574		312,752	4,205	
27	115	12		246,804		54	274	24,616	21,878		246,804		
27	117	5		243,525	36	22	111	9,993	2,867		243,525	1,172	
27	119	15		1,051,813	73	67	343	30,787	9,684		1,051,813	4,850	
27	121	5		324,730	36	24	121	10,886	4,195		324,730		
27	123	232			2,445	1,057	5,420	486,254	171,868			25,931	
27	125	2		204,977		9	47	4,202	2,038		204,977		
27	127	8		508,129	36	36	183	16,421	6,068		508,129	1,542	
27	129	8		601,103	14	37	187	16,808	7,324		601,103		
27	131	26		251,031	190	120	613	54,988	16,674		251,031	631	
27	133	5		280,715	36	21	107	9,619	7,082		280,715		
27	135	8		577,455	73	35	179	16,085	8,184		577,455	2,047	
27	137	92		155,452	1,332	420	2,156	193,433	65,397		155,452	15,252	
27	139	40		117,830	146	180	925	82,994	21,107		117,830		
27	141	30		105,042		138	706	63,356	21,185		105,042	8,586	
27	143	7		309,860	36	32	165	14,774	7,508		309,860		
27	145	62		646,025	742	283	1,450	130,081	57,954	100,000	646,025		
27	147	15		226,926	73	70	357	32,061	13,569		226,926	3,645	
27	149	5		299,346	36	22	111	9,973	2,851		299,346	841	
27	151	5		388,215	36	25	126	11,344	4,035		388,215	561	
27	153	12		387,462	36	53	270	24,240	11,009		387,462		
27	155	2		315,068	14	9	46	4,168	2,022		315,068	252	
27	157	10		253,401	73	46	236	21,140	7,296		253,401		
27	159	6		174,833	146	29	148	13,238	4,458		174,833	841	
27	161	9		235,351	36	40	207	18,560	5,991		235,351	561	
27	163	97		89,935	146	440	2,258	202,606	59,763		89,935	7,486	
27	165	6		255,994	36	25	129	11,548	3,699		255,994		
27	167	3		457,806	73	16	81	7,287	4,242		457,806		
27	169	23		289,708	146	104	533	47,785	21,909		289,708	1,452	
27	171	42		251,832	146	191	979	87,864	40,279		251,832		
27	173	5		415,269	73	25	126	11,310	4,576		415,269		
28	001			64,561	194	18	9,934	33,657	10,766		64,561	2,383	
28	003			80,607	194	18	9,764	33,080	13,466		80,607	3,056	

To calculate allocation proportion of national emissions to county, divide number of county unit within an industry category by total (national) number of units within that category

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Appendix E-2. County-level Allocation Values Used for Allocation Schemes 18, 22, and 27

State FIPS	County FIPS	A	B	C	D	E	F	G	H	I	J	K	L
		1000dollars	1000barrels	acres	beds	cremations	gallons	people	10E+6VMT	tires	acres	LTOs	%Red. Appl.
28	005			118,137		8	4,104	13,906	7,405		118,137		
28	007			128,723	48	10	5,412	18,338	8,819		128,723	617	
28	009			81,444		4	2,388	8,091	6,120		81,444		
28	011			454,870	194	22	11,755	39,826	13,730		454,870	2,691	
28	013			141,817	19	8	4,395	14,891	6,162		141,817		
28	015			142,892		5	2,942	9,967	9,176		142,892	4,067	
28	017			138,040	48	10	5,348	18,121	8,755		138,040	1,234	
28	019			57,859	48	5	2,764	9,366	4,801		57,859		
28	021			81,229	19	6	3,423	11,596	3,907		81,229		
28	023			52,018	48	10	5,444	18,445	8,754		52,018		
28	025			131,666	97	12	6,392	21,657	7,138		131,666	785	
28	027			272,809	194	17	9,177	31,094	10,825		272,809	3,063	
28	029			120,681	48	16	8,527	28,892	15,465		120,681		
28	031			85,666	48	10	5,280	17,889	12,588		85,666		
28	033			149,312	194	55	30,144	102,131	38,655		149,312	14,238	
28	035			46,036	971	41	22,115	74,927	29,189		46,036	4,430	
28	037			42,495	48	4	2,408	8,160	5,676		42,495		
28	039			41,744	97	11	5,958	20,185	7,307		41,744		
28	041			58,916		7	3,728	12,630	5,746		58,916		
28	043			91,002	194	12	6,626	22,450	10,398		91,002		
28	045			36,237	97	23	12,254	41,518	20,368		36,237	7,738	
28	047			17,871	2,258	97	52,704	178,567	66,113		17,871	7,957	
28	049			196,393	3,888	133	72,529	245,737	94,879		196,393	7,824	
28	051			189,866	48	12	6,364	21,562	12,268		189,866	273	
28	053			198,236	19	6	3,310	11,214	4,460		198,236		
28	055			112,746		1	483	1,635	1,395		112,746		
28	057			81,566		11	6,223	21,085	11,159		81,566	112	
28	059			32,610	485	72	39,290	133,120	50,835		32,610		
28	061			74,714	48	10	5,345	18,110	10,380		74,714		
28	063			63,517	19	5	2,475	8,385	4,224		63,517		
28	065			78,668	48	7	4,064	13,770	6,017		78,668		
28	067			91,116	485	34	18,610	63,054	28,535		91,116	11,572	
28	069			96,760		6	3,095	10,487	5,902		96,760		
28	071			102,123	194	19	10,305	34,914	12,337		102,123	4,486	
28	073			74,162		21	11,253	38,127	16,158		74,162		

To calculate allocation proportion of national emissions to county, divide number of county unit within an industry category by total (national) number of units within that category

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L = Gasoline Distribution Stage II; % Reduction applied; (see PageE2-92 for information on this reduction)

Appendix E-2. County-level Allocation Values Used for Allocation Schemes 18, 22, and 27

State FIPS	County FIPS	A	B	C	D	E	F	G	H	I	J	K	L
		1000dollars	1000barrels	acres	beds	cremations	gallons	people	10E+6VMT	tires	acres	LTOs	%Red. Appl.
28	075			74,742	778	41	22,425	75,978	36,968		74,742	3,715	
28	077			55,146	48	7	3,856	13,066	5,157		55,146		
28	079			104,050	48	11	5,786	19,602	9,701		104,050		
28	081			135,004	971	41	22,198	75,211	34,271		135,004	6,274	
28	083			267,357	194	20	10,866	36,816	11,824		267,357		
28	085			98,854	97	17	9,476	32,105	16,404		98,854	2,019	
28	087			145,098	194	33	17,864	60,527	21,116		145,098	4,458	
28	089			182,095	97	41	22,007	74,562	27,440		182,095	6,897	
28	091			97,378	97	14	7,833	26,538	9,650		97,378	2,860	
28	093			181,342	48	18	9,540	32,323	20,683		181,342	2,019	
28	095			162,346	194	21	11,284	38,230	16,283		162,346	2,131	
28	097			92,299	48	7	3,658	12,394	7,812		92,299		
28	099			140,511	245	15	8,158	27,639	12,505		140,511	2,187	
28	101			100,328	48	12	6,417	21,741	13,833		100,328		
28	103			193,558	48	7	3,688	12,497	5,703		193,558		
28	105			85,286	97	22	11,737	39,765	12,389		85,286	1,738	
28	107			238,468	48	18	10,009	33,913	18,293		238,468		
28	109			103,128	97	26	14,158	47,969	20,485		103,128		
28	111			31,903	48	7	3,553	12,039	7,436		31,903		
28	113			70,507	485	21	11,189	37,910	16,818		70,507	1,402	
28	115			114,658	48	14	7,581	25,685	11,167		114,658		
28	117			88,081	48	13	7,230	24,497	10,715		88,081	1,991	
28	119			169,557	48	5	2,887	9,780	4,559		169,557		
28	121			117,296	485	61	33,159	112,348	47,563		117,296	7,629	
28	123			107,468	97	14	7,352	24,911	14,685		107,468		
28	125			165,581	19	4	1,931	6,543	3,599		165,581		
28	127			93,715	97	14	7,489	25,375	13,964		93,715		
28	129			94,798		8	4,554	15,431	7,513		94,798		
28	131			41,544	48	7	3,981	13,488	6,852		41,544		
28	133			348,290	97	18	9,816	33,257	12,381		348,290	2,916	
28	135			296,881	48	8	4,305	14,587	5,388		296,881		
28	137			134,657	48	13	7,207	24,417	10,457		134,657		
28	139			113,847	97	11	6,218	21,069	8,827		113,847	1,850	
28	141			44,866	48	10	5,532	18,742	9,269		44,866		
28	143			202,353		4	2,342	7,935	9,625		202,353		

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Appendix E-2. County-level Allocation Values Used for Allocation Schemes 18, 22, and 27

State FIPS	County FIPS	A	B	C	D	E	F	G	H	I	J	K	L
		1000dollars	1000barrels	acres	beds	cremations	gallons	people	10E+6VMT	tires	acres	LTOs	%Red. Appl.
28	145			102,243	97	13	7,119	24,121	13,635		102,243		
28	147			110,322	48	8	4,194	14,211	6,274		110,322		
28	149			97,829	485	27	14,506	49,148	21,094		97,829	3,140	
28	151			342,781	306	35	18,968	64,265	20,122		342,781	2,842	
28	153			75,766	97	11	6,091	20,637	9,553		75,766		
28	155			78,623	48	6	3,138	10,633	5,536		78,623		
28	157			109,267	48	5	2,669	9,042	4,643		109,267		
28	159			88,045	48	10	5,683	19,253	8,047		88,045	1,458	
28	161			85,547		7	3,727	12,627	8,596		85,547		
28	163			312,298	48	14	7,440	25,208	12,583		312,298	561	
29	001			268,101	136	33	3,369	24,200	6,282		268,101	1,009	
29	003			226,725		21	2,170	15,585	11,277		226,725		
29	005			294,149	13	10	977	7,021	10,546		294,149		
29	007			382,474	136	32	3,265	23,449	7,927		382,474	925	
29	009			285,169	68	45	4,621	33,189	14,231		285,169	1,135	
29	011			335,182	34	16	1,689	12,133	3,915		335,182	673	
29	013			444,769	34	22	2,236	16,061	5,828		444,769	774	
29	015			232,412		24	2,415	17,345	8,187		232,412		
29	017			209,202		16	1,647	11,829	5,535		209,202		
29	019			249,849	1,533	177	18,124	130,179	48,677		249,849	6,385	
29	021			181,502	340	111	11,365	81,635	29,703		181,502	3,594	
29	023			255,067	346	55	5,622	40,379	14,346		255,067	1,430	
29	025			227,016		12	1,243	8,926	4,160		227,016		
29	027			330,471	34	51	5,277	37,904	23,593		330,471	7,263	
29	029			172,273	136	47	4,816	34,596	13,927		172,273	3,090	
29	031			260,931	680	91	9,356	67,200	26,963		260,931		
29	033			395,657	13	14	1,407	10,108	2,643		395,657		
29	035			62,899		9	876	6,292	2,893		62,899		
29	037			310,479	68	113	11,569	83,099	27,750		310,479		
29	039			203,685	34	18	1,865	13,395	4,609		203,685		
29	041			414,379		12	1,191	8,557	3,973		414,379		
29	043			202,863		70	7,149	51,353	18,943		202,863		
29	045			248,397		10	1,026	7,367	3,410		248,397		
29	047			134,156	658	245	25,075	180,111	68,822		134,156	25,089	
29	049			216,483	34	27	2,718	19,522	11,214		216,483	2,019	

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Appendix E-2. County-level Allocation Values Used for Allocation Schemes 18, 22, and 27

State FIPS	County FIPS	A	B	C	D	E	F	G	H	I	J	K	L
		1000dollars	1000barrels	acres	beds	cremations	gallons	people	10E+6VMT	tires	acres	LTOs	%Red. Appl.
29	051			179,018	340	94	9,677	69,512	24,531		179,018		
29	053			301,692	34	22	2,249	16,153	11,702		301,692	1,542	
29	055			182,123		30	3,122	22,427	15,764		182,123	1,149	
29	057			249,096		11	1,105	7,939	2,240		249,096		
29	059			221,713		21	2,168	15,570	7,332		221,713		
29	061			301,788		11	1,121	8,051	9,911		301,788		
29	063			215,215		15	1,572	11,288	5,532		215,215		
29	065			221,967	34	19	1,985	14,257	3,109		221,967		
29	067			301,564		17	1,729	12,421	2,897		301,564		
29	069			313,147	68	44	4,528	32,526	11,105		313,147	1,374	
29	071			289,608	340	127	12,965	93,128	45,683		289,608		95
29	073			187,925	34	20	2,085	14,975	5,862		187,925		
29	075			248,593	34	9	957	6,872	3,176		248,593		
29	077			277,043	2,203	308	31,603	227,002	85,452		277,043	11,376	
29	079			221,866	34	14	1,411	10,134	3,318		221,866	666	
29	081			387,360	34	11	1,171	8,413	11,988		387,360		
29	083			315,460	68	29	2,964	21,288	6,646		315,460	1,761	
29	085			171,780		12	1,215	8,728	4,058		171,780		
29	087			231,040		8	774	5,562	11,270		231,040		
29	089			242,364	3	13	1,345	9,661	2,129		242,364		
29	091			386,796	340	49	5,022	36,070	14,303		386,796	1,640	
29	093			62,537	34	15	1,523	10,936	3,112		62,537		
29	095			150,581	3,924	889	91,117	654,484	267,229		150,581	5,872	
29	097			271,040	340	136	13,959	100,267	45,651		271,040	5,841	
29	099			109,430	340	269	27,582	198,116	84,177		109,430		95
29	101			399,600	136	65	6,690	48,053	17,915		399,600	2,355	
29	103			280,699		6	600	4,312	1,943		280,699		
29	105			317,051		43	4,374	31,419	20,891		317,051	1,220	
29	107			349,265	34	45	4,568	32,810	19,956		349,265		
29	109			337,988	136	45	4,663	33,494	20,227		337,988	1,262	
29	111			268,595		14	1,424	10,230	3,163		268,595		
29	113			262,362	68	51	5,253	37,733	15,979		262,362		
29	115			346,184		19	1,931	13,867	3,566		346,184		
29	117			272,817	68	19	1,952	14,024	4,209		272,817	925	
29	119			231,648		27	2,806	20,158	9,529		231,648		

To calculate allocation proportion of national emissions to county, divide number of county unit within an industry category by total (national) number of units within that category

A = Asphalt Paving: Cutback; FHWA funding

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K = Aviation Gasoline Distribution: Stage I and II; Landing-TakeOffs

L = Gasoline Distribution Stage II; % Reduction applied; (see PageE2-92 for information on this reduction)

Appendix E-2. County-level Allocation Values Used for Allocation Schemes 18, 22, and 27

State FIPS	County FIPS	A	B	C	D	E	F	G	H	I	J	K	L
		1000dollars	1000barrels	acres	beds	cremations	gallons	people	10E+6VMT	tires	acres	LTOs	%Red. Appl.
29	121			380,527	34	21	2,151	15,450	5,182		380,527	589	
29	123			110,092	68	16	1,622	11,650	3,815		110,092	668	
29	125			228,892		11	1,173	8,423	3,911		228,892	2,691	
29	127			221,353	136	38	3,859	27,719	8,269		221,353	1,051	
29	129			229,598		5	551	3,956	1,780		229,598		
29	131			254,520		31	3,150	22,624	8,764		254,520	2,243	
29	133			263,623		18	1,857	13,339	8,848		263,623		
29	135			222,758		18	1,853	13,313	4,759		222,758		
29	137			328,200		12	1,272	9,137	3,359		328,200		
29	139			247,776		16	1,686	12,110	9,742		247,776		
29	141			202,467		26	2,632	18,908	8,933		202,467		
29	143			385,766		27	2,775	19,933	17,931		385,766	378	
29	145			255,605	340	68	6,921	49,714	21,889		255,605	1,556	
29	147			491,992	68	28	2,858	20,531	6,894		491,992	715	
29	149			248,024		14	1,433	10,295	4,800		248,024		
29	151			304,823		17	1,744	12,524	5,866		304,823		
29	153			252,722		14	1,388	9,970	2,831		252,722		
29	155			295,743	136	29	2,945	21,150	19,786		295,743		
29	157			201,396	68	24	2,427	17,431	9,899		201,396	1,009	
29	159			366,132	136	50	5,166	37,110	11,939		366,132	589	
29	161			196,197	136	53	5,423	38,954	21,982		196,197		
29	163			316,743	34	22	2,285	16,411	4,921		316,743	390	
29	165			180,455	136	97	9,980	71,688	33,672		180,455	3,468	
29	167			347,688	136	35	3,584	25,740	9,937		347,688		
29	169			139,681	68	52	5,322	38,230	18,153		139,681		
29	171			261,360	13	7	678	4,872	1,345		261,360		
29	173			231,817		12	1,277	9,169	4,182		231,817		
29	175			229,860	68	32	3,322	23,863	8,416		229,860	589	
29	177			274,349	34	32	3,308	23,759	9,444		274,349		
29	179			113,214	13	9	923	6,627	3,060		113,214		
29	181			151,963	34	19	1,973	14,174	4,058		151,963		
29	183			187,097	509	381	39,044	280,448	94,257		187,097	1,570	95
29	185			262,963	34	13	1,291	9,276	4,320		262,963		
29	186			168,121	68	24	2,431	17,462	13,740		168,121		
29	187			112,842	136	76	7,767	55,790	20,303		112,842	1,304	

To calculate allocation proportion of national emissions to county, divide number of county unit within an industry category by total (national) number of units within that category

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L = Gasoline Distribution Stage II; % Reduction applied; (see PageE2-92 for information on this reduction)

Appendix E-2. County-level Allocation Values Used for Allocation Schemes 18, 22, and 27

State FIPS	County FIPS	A	B	C	D	E	F	G	H	I	J	K	L
		1000dollars	1000barrels	acres	beds	cremations	gallons	people	10E+6VMT	tires	acres	LTOs	%Red. Appl.
29	189			45,019	4,522	1,353	138,688	996,181	404,905		45,019	39,985	95
29	195			429,631	68	31	3,172	22,782	15,070		429,631	2,103	
29	197			159,543		6	615	4,415	2,002		159,543		
29	199			224,606	34	7	685	4,921	1,359		224,606		
29	201			240,739	136	55	5,647	40,564	17,493		240,739	4,495	
29	203			133,320		11	1,155	8,298	3,850		133,320		
29	205			272,116		9	927	6,660	3,077		272,116		
29	207			448,634	34	40	4,126	29,633	12,239		448,634	1,135	
29	209			135,993		37	3,829	27,506	8,004		135,993		
29	211			325,670	13	9	956	6,864	3,176		325,670		
29	213			158,421	136	48	4,941	35,490	13,412		158,421		
29	215			429,886	34	31	3,128	22,470	10,643		429,886	505	
29	217			388,549	68	26	2,713	19,488	6,348		388,549	883	
29	219			132,520		35	3,541	25,435	11,485		132,520		
29	221			126,905	34	32	3,251	23,354	9,833		126,905		
29	223			97,664		18	1,816	13,046	6,117		97,664		
29	225			296,825		41	4,173	29,977	16,312		296,825		
29	227			150,155		3	320	2,295	577		150,155		
29	229			312,388		27	2,775	19,934	7,445		312,388		
29	510				3,833	454	46,494	333,960	148,132				95
30	001	73		1,152,008	47	41	1,695	8,790	6,977			1,640	
30	003	104		2,770,118	95	58	2,424	12,573	9,797				
30	005	58		2,257,722	47	33	1,364	7,074	3,277				
30	007	34		452,744	19	19	804	4,167	2,210				
30	009	79		735,910	47	44	1,840	9,543	4,454				
30	011	12		1,589,372		7	280	1,454	558				
30	013	646		1,441,261	475	364	15,095	78,282	21,742			4,878	
30	015	42		2,211,635	47	24	977	5,066	2,294				
30	017	98		1,897,536	190	55	2,282	11,837	5,514			1,346	
30	019	16		764,544	19	9	379	1,963	418				
30	021	72		1,417,310	95	40	1,672	8,670	4,926			449	
30	023	80		101,657	47	45	1,874	9,721	2,522				
30	025	24		952,884	47	13	556	2,885	694				
30	027	101		2,248,705	47	57	2,349	12,180	3,623			2,131	
30	029	601		216,303	475	338	14,032	72,773	25,233			7,671	

To calculate allocation proportion of national emissions to county, divide number of county unit within an industry category by total (national) number of units within that category

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Appendix E-2. County-level Allocation Values Used for Allocation Schemes 18, 22, and 27

State FIPS	County FIPS	A	B	C	D	E	F	G	H	I	J	K	L
		1000dollars	1000barrels	acres	beds	cremations	gallons	people	10E+6VMT	tires	acres	LTOs	%Red. Appl.
30	031	527		759,944	190	297	12,318	63,881	22,939			8,275	
30	033	12		2,163,270		7	274	1,420	541				
30	035	104		1,622,574	95	59	2,430	12,603	4,358			729	
30	037	9		638,049		5	202	1,049	385				
30	039	22		268,413	19	12	513	2,662	2,517				
30	041	141		1,642,562	190	79	3,288	17,050	4,166			701	
30	043	86		364,153		48	1,999	10,367	11,103				
30	045	19		834,711		11	440	2,284	955				
30	047	214		596,726	95	120	4,991	25,885	10,496				
30	049	446		822,066	475	251	10,427	54,075	16,442			6,718	
30	051	19		915,451	47	10	434	2,253	937				
30	053	155		46,167	47	87	3,629	18,819	7,611				
30	055	16		1,312,704		9	371	1,924	770				
30	057	57		1,079,502	19	32	1,336	6,927	2,323				
30	059	15		940,071		8	343	1,777	375				
30	061	32		16,329		18	746	3,867	6,032				
30	063	738		262,419	475	415	17,228	89,344	26,740			6,175	
30	065	38		952,670	19	21	878	4,552	2,051				
30	067	132		749,103	47	74	3,082	15,982	7,244			280	
30	069	4		541,361		2	98	506	133				
30	071	39		1,977,811	19	22	905	4,692	2,115				
30	073	52		878,426	47	29	1,204	6,244	2,937			280	
30	075	15		1,559,222		8	343	1,777	707				
30	077	57		649,489	19	32	1,339	6,945	3,869				
30	079	11		612,906	19	6	262	1,360	2,023				
30	081	296		183,647	95	166	6,905	35,811	15,287				
30	083	83		1,214,802	95	47	1,938	10,053	2,976			4,374	
30	085	90		1,430,064	47	51	2,104	10,912	3,821			280	
30	087	81		2,680,844	47	46	1,903	9,869	6,024			1,016	
30	089	84		409,965	47	48	1,973	10,233	2,749				
30	091	34		1,001,193	19	19	791	4,100	1,825				
30	093	280		100,181	190	158	6,547	33,954	9,152			16	
30	095	69		896,739	19	39	1,606	8,328	4,733				
30	097	30		839,345		17	691	3,584	3,321				
30	099	53		1,116,889	19	30	1,240	6,432	3,096			196	

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Appendix E-2. County-level Allocation Values Used for Allocation Schemes 18, 22, and 27

State FIPS	County FIPS	A	B	C	D	E	F	G	H	I	J	K	L
		1000dollars	1000barrels	acres	beds	cremations	gallons	people	10E+6VMT	tires	acres	LTOs	%Red. Appl.
30	101	38		1,090,966	47	22	894	4,638	3,814				
30	103	7		605,527		4	166	859	1,833				
30	105	67		1,786,617	47	38	1,568	8,132	2,174			3,701	
30	107	19		833,757	19	11	439	2,276	952				
30	109	9		475,427		5	215	1,117	1,207				
30	111	1,051		1,526,007	949	591	24,539	127,258	36,629			10,921	
31	001			344,322	154	46	7,749	29,289	7,068		344,322	1,514	
31	003			492,076	38	11	1,916	7,243	4,157		492,076		
31	005			465,313		1	109	412	92		465,313		
31	007			446,482		1	220	831	279		446,482		
31	009			452,025		1	152	575	239		452,025		
31	011			447,951	38	10	1,681	6,355	2,173		447,951	491	
31	013			696,502	38	20	3,353	12,674	3,104		696,502	1,682	
31	015			296,581	15	4	667	2,520	1,374		296,581		
31	017			700,954	15	6	926	3,499	1,953		700,954	280	
31	019			621,227	386	63	10,649	40,249	19,955		621,227	4,205	
31	021			292,450	15	12	2,092	7,907	4,549		292,450	799	
31	023			353,539	38	14	2,277	8,607	3,517		353,539		
31	025			300,586		39	6,572	24,841	13,617		300,586	2,663	
31	027			445,430		15	2,543	9,612	5,556		445,430		
31	029			556,674	15	7	1,125	4,253	2,395		556,674	715	
31	031			3,881,831	15	10	1,674	6,326	1,992		3,881,831	631	
31	033			779,431	38	15	2,494	9,428	11,417		779,431	336	
31	035			364,586		11	1,877	7,094	2,431		364,586	56	
31	037			230,403	38	17	2,829	10,691	3,477		230,403		
31	039			359,603	38	16	2,641	9,981	3,932		359,603		
31	041			1,552,166	77	19	3,129	11,825	4,772		1,552,166	421	
31	043			142,068		30	5,064	19,140	6,288		142,068		
31	045			821,756	38	14	2,336	8,831	2,577		821,756	505	
31	047			649,847	90	37	6,158	23,277	14,800		649,847	1,850	
31	049			281,509		3	526	1,988	7,682		281,509	168	
31	051			242,611		10	1,683	6,360	3,638		242,611		
31	053			323,080	154	55	9,313	35,201	9,857		323,080	1,262	
31	055			112,765	4,541	701	118,073	446,277	123,711		112,765	25,609	
31	057			590,935	15	3	577	2,179	1,166		590,935		

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State FIPS	County FIPS	A	B	C	D	E	F	G	H	I	J	K	L
		1000dollars	1000barrels	acres	beds	cremations	gallons	people	10E+6VMT	tires	acres	LTOs	%Red. Appl.
31	059			356,894	38	11	1,829	6,912	3,964		356,894	673	
31	061			350,857	15	6	973	3,677	1,218		350,857		
31	063			531,174		5	835	3,157	1,757		531,174		
31	065			450,308	38	9	1,432	5,411	3,077		450,308	673	
31	067			518,981	77	36	6,008	22,710	7,744		518,981	1,121	
31	069			1,077,766	15	3	548	2,073	1,108		1,077,766	294	
31	071			307,960		3	533	2,015	618		307,960	187	
31	073			234,143		4	597	2,256	705		234,143		
31	075			476,881		1	189	714	312		476,881		
31	077			291,014		4	744	2,812	1,547		291,014		
31	079			342,267	386	81	13,695	51,764	17,138		342,267	3,666	
31	081			343,622	38	15	2,531	9,566	7,028		343,622	1,121	
31	083			325,445	15	6	971	3,671	2,049		325,445		
31	085			426,333		2	282	1,066	369		426,333		
31	087			406,227		5	891	3,366	1,355		406,227		
31	089			1,464,097	38	19	3,144	11,884	4,812		1,464,097	1,514	
31	091			371,490		1	182	689	211		371,490		
31	093			329,984	15	10	1,730	6,540	3,743		329,984		
31	095			315,125	38	13	2,193	8,288	2,424		315,125	336	
31	097			196,857	15	7	1,203	4,548	2,572		196,857		
31	099			319,771	38	11	1,815	6,861	2,303		319,771	1,009	
31	101			606,891	38	14	2,349	8,877	11,571		606,891	336	
31	103			499,714		1	252	952	251		499,714		
31	105			565,199	15	6	1,065	4,027	8,436		565,199	715	
31	107			595,537	38	14	2,394	9,048	3,132		595,537		
31	109			421,089	1,212	374	62,878	237,657	67,472		421,089	12,665	
31	111			1,420,421	154	53	8,960	33,866	21,857		1,420,421	5,046	
31	113			322,965		1	237	895	409		322,965		
31	115			339,195		1	173	654	160		339,195		
31	117			443,334		1	145	547	131		443,334		
31	119			329,419	154	54	9,044	34,184	10,007		329,419	3,084	
31	121			273,892	38	13	2,130	8,052	2,986		273,892		
31	123			860,864	15	8	1,401	5,294	3,007		860,864		
31	125			244,292		6	1,073	4,057	1,360		244,292		
31	127			239,209	15	12	2,016	7,618	2,492		239,209		

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D = Hospital Sterilizers; Number of beds

E = Human Cremation; Number of cremations

F = Surface Coating: Traffic Markings; Gallons of paint

G = Multiple; Number of people

H = Gasoline Distribution Stage I and II; Vehicle Miles Travelled (VMT)

I = Open Burning: Scrap Tires; Number of tires burned

J = Pesticide Application; Acreage farms available

K = Aviation Gasoline Distribution: Stage I and II; Landing-TakeOffs

L = Gasoline Distribution Stage II; % Reduction applied; (see PageE2-92 for information on this reduction)

Appendix E-2. County-level Allocation Values Used for Allocation Schemes 18, 22, and 27

State FIPS	County FIPS	A	B	C	D	E	F	G	H	I	J	K	L
		1000dollars	1000barrels	acres	beds	cremations	gallons	people	10E+6VMT	tires	acres	LTOs	%Red. Appl.
31	129			327,445	38	8	1,355	5,121	1,736		327,445	252	
31	131			354,430	38	23	3,916	14,803	5,509		354,430		
31	133			229,566	15	5	817	3,087	1,014		229,566		
31	135			552,882	38	5	848	3,205	1,057		552,882	673	
31	137			378,814	38	15	2,601	9,831	3,045		378,814	1,093	
31	139			308,822	38	12	2,102	7,945	4,571		308,822		
31	141			420,028	77	48	8,037	30,378	8,926		420,028	2,019	
31	143			258,541	15	9	1,460	5,518	3,139		258,541		
31	145			436,360	38	18	2,991	11,304	2,989		436,360	1,093	
31	147			318,617	38	15	2,468	9,330	2,824		318,617	1,110	
31	149			631,119	38	3	447	1,690	876		631,119	280	
31	151			317,517	38	21	3,469	13,111	2,882		317,517	2,019	
31	153			101,682	154	193	32,409	122,495	38,124		101,682		
31	155			435,865	38	30	5,096	19,260	9,035		435,865	1,850	
31	157			442,909	154	57	9,545	36,078	11,472		442,909	3,645	
31	159			320,618	38	26	4,348	16,435	9,530		320,618		
31	161			1,486,934	38	10	1,699	6,423	3,675		1,486,934	378	
31	163			323,887		5	918	3,470	1,935		323,887		
31	165			1,114,619		2	377	1,424	718		1,114,619		
31	167			226,389		10	1,614	6,100	3,488		226,389		
31	169			368,478	38	10	1,632	6,170	3,529		368,478	404	
31	171			368,521		1	214	809	271		368,521		
31	173			188,969	38	11	1,866	7,054	4,045		188,969		
31	175			332,590	38	7	1,198	4,527	1,530		332,590	463	
31	177			219,165	77	30	4,984	18,837	7,462		219,165		
31	179			257,207	38	14	2,434	9,201	2,034		257,207	883	
31	181			313,779	15	6	1,041	3,933	1,313		313,779		
31	183			292,780		1	244	924	426		292,780		
31	185			352,961	77	23	3,808	14,392	9,813		352,961	1,093	
32	001	102			85	117	2,385	23,405	15,355			280	
32	003	5,311			2,727	6,068	124,050	1,217,155	332,047			42,568	95
32	005	164				187	3,832	37,602	19,841				
32	007	198			85	227	4,634	45,465	35,764			3,170	
32	009	5				6	114	1,121	754				
32	011	8				9	189	1,854	4,696				

To calculate allocation proportion of national emissions to county, divide number of county unit within an industry category by total (national) number of units within that category

A = Asphalt Paving: Cutback; FHWA funding

B = Drum and Barrel Reclamation; 55-gallon barrels reclaimed

C = Grain Elevators; Acreage farms available

D = Hospital Sterilizers; Number of beds

E = Human Cremation; Number of cremations

F = Surface Coating: Traffic Markings; Gallons of paint

G = Multiple; Number of people

H = Gasoline Distribution Stage I and II; Vehicle Miles Travelled (VMT)

I = Open Burning: Scrap Tires; Number of tires burned

J = Pesticide Application; Acreage farms available

K = Aviation Gasoline Distribution: Stage I and II; Landing-TakeOffs

L = Gasoline Distribution Stage II; % Reduction applied; (see PageE2-92 for information on this reduction)

Appendix E-2. County-level Allocation Values Used for Allocation Schemes 18, 22, and 27

State FIPS	County FIPS	A	B	C	D	E	F	G	H	I	J	K	L
		1000dollars	1000barrels	acres	beds	cremations	gallons	people	10E+6VMT	tires	acres	LTOs	%Red. Appl.
32	013	78			42	89	1,822	17,876	15,569			2,243	
32	015	29			17	33	684	6,709	5,700			1,009	
32	017	18			17	21	431	4,226	3,281				
32	019	137			42	157	3,206	31,459	21,555				
32	021	23			42	26	528	5,176	1,380				
32	023	130				148	3,028	29,709	10,031			432	
32	027	21			17	24	490	4,803	12,327			348	
32	029	13				15	305	2,988	1,198				
32	031	1,396			1,224	1,594	32,595	319,816	100,808			13,241	95
32	033	43			42	49	1,003	9,843	3,859			1,682	
32	510	218			170	249	5,101	50,046	9,825				
33	001	10			156	207	226	53,680	20,092			841	
33	003	7			156	155	169	40,184	11,552				
33	005	13			156	279	305	72,401	19,141			4,018	
33	007	6			156	126	138	32,725	8,690			2,243	
33	009	14			850	302	331	78,570	44,539			5,668	
33	011	66			1,063	1,413	1,545	367,233	113,692			23,504	86
33	013	23			465	500	547	129,931	56,359			14,018	86
33	015	50			389	1,060	1,159	275,488	91,396			3,642	86
33	017	20			257	426	466	110,667	33,144				86
33	019	7			78	155	169	40,255	13,811			1,262	
34	001	56		31,050	1,034	636	1,299	239,626	71,706		31,050	12,253	86
34	003	199		2,633	3,092	2,276	4,647	857,052	222,520		2,633	61,702	86
34	005	99		103,667	1,097	1,127	2,302	424,510	124,212		103,667	11,996	86
34	007	117		9,007	2,285	1,336	2,728	503,093	146,410		9,007		86
34	009	23		9,669	374	260	531	98,009	23,696		9,669	14,176	86
34	011	33		66,288	492	372	760	140,112	37,905		66,288	7,233	86
34	013	173			5,126	1,984	4,052	747,355	210,155			39,772	86
34	015	58		58,373	374	665	1,358	250,492	76,288		58,373	5,607	86
34	017	128			1,897	1,468	2,997	552,819	149,355				86
34	019	29		105,230	374	331	675	124,553	58,888		105,230	13,214	86
34	021	78		28,391	1,457	886	1,810	333,861	123,805		28,391	28,947	86
34	023	167		28,100	2,474	1,906	3,893	717,949	190,461		28,100	4,169	86
34	025	142		59,405	2,312	1,623	3,315	611,444	168,058		59,405	2,523	86
34	027	108		22,351	1,737	1,231	2,513	463,545	127,863		22,351	47,589	86

To calculate allocation proportion of national emissions to county, divide number of county unit within an industry category by total (national) number of units within that category

A = Asphalt Paving: Cutback; FHWA funding

B = Drum and Barrel Reclamation; 55-gallon barrels reclaimed

C = Grain Elevators; Acreage farms available

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K = Aviation Gasoline Distribution: Stage I and II; Landing-TakeOffs

L = Gasoline Distribution Stage II; % Reduction applied; (see PageE2-92 for information on this reduction)

Appendix E-2. County-level Allocation Values Used for Allocation Schemes 18, 22, and 27

State FIPS	County FIPS	A	B	C	D	E	F	G	H	I	J	K	L
		1000dollars	1000barrels	acres	beds	cremations	gallons	people	10E+6VMT	tires	acres	LTOs	%Red. Appl.
34	029	115		11,381	1,444	1,321	2,698	497,533	117,325		11,381	3,955	86
34	031	113		2,232	1,757	1,288	2,630	485,064	118,009		2,232	4,766	86
34	033	15		92,047	150	171	350	64,534	23,443		92,047		86
34	035	67		46,258	374	765	1,562	288,090	71,012		46,258	11,254	86
34	037	34		73,001	150	384	785	144,700	40,977		73,001	443	86
34	039	116			1,843	1,324	2,704	498,759	133,321			12,055	86
34	041	23		82,900	374	266	544	100,312	47,698		82,900	4,121	86
35	001			464,801	2,283	1,406	109,434	523,472	160,434			17,308	
35	003			1,795,362		8	598	2,862	1,926				
35	005			2,944,354	139	168	13,044	62,394	16,725			7,281	
35	006			1,699,341	69	72	5,622	26,894	17,085			505	
35	007			2,227,155	35	37	2,857	13,666	14,691			1,346	
35	009			947,748	139	117	9,108	43,570	10,613			7,289	
35	011			1,441,609	14	6	493	2,359	1,564			56	
35	013			581,436	347	458	35,615	170,361	83,740			5,887	
35	015			1,275,527	69	143	11,105	53,122	15,483			4,023	
35	017			1,173,599	69	84	6,551	31,335	17,252			1,206	
35	019			1,418,966	14	11	841	4,023	15,029			449	
35	021			1,254,877		2	179	854	339				
35	023			1,104,820		16	1,260	6,027	8,216			673	
35	025			2,001,931	139	148	11,512	55,067	15,838			7,764	
35	027			1,975,017	35	45	3,508	16,778	7,521			1,475	
35	028				69	49	3,822	18,281	2,180			701	
35	029			603,428	69	65	5,093	24,360	19,056			5,046	
35	031			3,157,138	334	180	13,991	66,923	43,625			2,159	
35	033			974,759		13	1,034	4,945	8,662				
35	035			1,081,057	165	146	11,328	54,185	16,902			2,804	
35	037			1,855,726	14	27	2,064	9,872	14,227			2,383	
35	039			1,463,396	69	103	7,982	38,180	21,784			21	
35	041			1,419,250	35	47	3,641	17,416	5,830			2,131	
35	043			779,766		242	18,868	90,253	35,701				
35	045				347	295	22,975	109,899	39,845			6,895	
35	047			2,556,803		77	5,956	28,488	20,545			1,962	
35	049			651,977	347	334	25,970	124,228	60,219			9,693	
35	051			1,286,887	35	30	2,301	11,008	11,902			2,243	

To calculate allocation proportion of national emissions to county, divide number of county unit within an industry category by total (national) number of units within that category

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Appendix E-2. County-level Allocation Values Used for Allocation Schemes 18, 22, and 27

State FIPS	County FIPS	A	B	C	D	E	F	G	H	I	J	K	L
		1000dollars	1000barrels	acres	beds	cremations	gallons	people	10E+6VMT	tires	acres	LTOs	%Red. Appl.
35	053			1,650,979	35	44	3,449	16,500	20,495			981	
35	055			310,284	35	73	5,669	27,116	16,058			2,383	
35	057			1,477,127		44	3,430	16,408	19,739				
35	059			2,227,347	14	10	816	3,903	2,671			785	
35	061			383,531		175	13,608	65,095	27,100				
36	001	581			2,015	504	13,559	292,006	104,698	50,000	56,782	12,261	
36	003	101			143	87	2,347	50,553	22,507		157,744	3,645	
36	005	2,374			6,746	2,059	55,447	1,194,099	213,698				90
36	007	388			715	337	9,066	195,246	84,422		85,804	10,466	
36	009	168			357	146	3,923	84,477	36,367		192,015	2,804	
36	011	162			357	141	3,794	81,703	27,087		251,820		
36	013	273			535	237	6,381	137,431	54,468		244,921	4,486	
36	015	182			357	158	4,260	91,738	28,173		59,272	6,467	
36	017	101			143	87	2,354	50,704	20,360		183,312	1,262	
36	019	158			357	137	3,702	79,722	31,621		148,677	1,731	
36	021	125			143	109	2,925	63,002	25,001		114,883	2,243	
36	023	95			143	83	2,229	48,006	19,786		120,838	1,619	
36	025	92			160	80	2,153	46,362	16,792		183,667	841	
36	027	533			921	463	12,455	268,237	96,830		106,749	26,928	
36	029	1,841			2,587	1,597	42,996	925,957	286,330		143,234	21,130	
36	031	75			36	65	1,742	37,507	25,639		48,196		
36	033	96			143	84	2,253	48,511	14,388		163,017	3,981	
36	035	105			143	91	2,454	52,851	12,163		34,291		
36	037	120			282	104	2,808	60,469	26,008		170,878	561	
36	039	96				83	2,245	48,348	21,213		48,770		
36	041	10				9	241	5,190	1,466		788		
36	043	126			143	109	2,942	63,354	22,178		141,847		
36	045	219			380	190	5,104	109,920	45,335		291,103	2,411	
36	047	4,510			10,278	3,912	105,326	2,268,297	408,786		8		90
36	049	54			71	47	1,267	27,289	8,641		179,696		
36	051	131			71	114	3,058	65,851	28,951		197,408	6,448	
36	053	141			357	123	3,303	71,127	23,850		185,924	387	
36	055	1,416			3,995	1,229	33,081	712,419	228,401		103,097	11,708	
36	057	100			357	87	2,339	50,369	22,933		134,940		
36	059	2,595			6,992	2,251	60,599	1,305,057	228,090		1,390		90

To calculate allocation proportion of national emissions to county, divide number of county unit within an industry category by total (national) number of units within that category

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Appendix E-2. County-level Allocation Values Used for Allocation Schemes 18, 22, and 27

State FIPS	County FIPS	A	B	C	D	E	F	G	H	I	J	K	L
		1000dollars	1000barrels	acres	beds	cremations	gallons	people	10E+6VMT	tires	acres	LTOs	%Red. Appl.
36	061	3,085			16,210	2,676	72,059	1,551,844	264,204				90
36	063	430			739	373	10,037	216,164	64,612		127,355	4,267	
36	065	457			1,063	396	10,667	229,714	84,962		216,094	6,433	
36	067	907			2,573	787	21,184	456,215	150,574		147,109	9,317	
36	069	198			715	172	4,634	99,791	38,689		185,924		
36	071	664			1,070	576	15,518	334,199	123,020		94,771	30,675	90
36	073	90			71	78	2,091	45,022	13,528		143,397		
36	075	246			143	214	5,752	123,875	45,449		102,537		
36	077	121			715	105	2,815	60,619	27,873		206,985	981	
36	079	189			143	164	4,404	94,844	25,715		3,433		
36	081	3,978			4,759	3,450	92,898	2,000,642	346,593			9,408	90
36	083	301			715	261	7,032	151,445	56,074		98,965		
36	085	822			1,913	713	19,190	413,280	67,210		29		90
36	087	565			715	490	13,188	284,022	46,678		561		90
36	089	224			415	195	5,240	112,853	31,406		396,406	1,878	
36	091	397			357	344	9,274	199,733	67,576		72,928	4,205	
36	093	286			715	248	6,681	143,871	56,294		18,168	8,971	
36	095	64			36	55	1,488	32,050	12,947		110,773		
36	097	38			71	33	893	19,229	6,960		65,281		
36	099	63				55	1,482	31,925	12,438		117,426		
36	101	194			532	168	4,537	97,699	47,024		348,971	1,682	
36	103	2,751			4,936	2,386	64,258	1,383,847	247,499		35,858	77,131	90
36	105	138			143	120	3,219	69,331	22,778		58,067	11,207	
36	107	104				90	2,425	52,216	16,769		109,356		
36	109	194			143	168	4,535	97,656	25,845		95,451	4,701	
36	111	333			393	289	7,768	167,293	62,391		68,989	140	
36	113	122			357	106	2,853	61,441	30,336		9,187	2,019	
36	115	120			71	104	2,793	60,141	19,072		194,962		
36	117	190			143	165	4,435	95,521	30,963		167,190		
36	119	1,800			4,702	1,562	42,049	905,572	149,153		7,528	34,071	90
36	121	88			143	76	2,052	44,189	12,329		194,902		
36	123	49			71	42	1,140	24,556	7,429		104,790		
37	001	354		107,801	376	156	8,271	121,100	52,094		107,801	4,766	
37	003	94		59,826	37	41	2,185	31,984	7,392		59,826		
37	005	29		85,964	37	13	673	9,850	2,306		85,964		

To calculate allocation proportion of national emissions to county, divide number of county unit within an industry category by total (national) number of units within that category

A = Asphalt Paving: Cutback; FHWA funding

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Appendix E-2. County-level Allocation Values Used for Allocation Schemes 18, 22, and 27

State FIPS	County FIPS	A	B	C	D	E	F	G	H	I	J	K	L
		1000dollars	1000barrels	acres	beds	cremations	gallons	people	10E+6VMT	tires	acres	LTOs	%Red. Appl.
37	007	71		81,984		31	1,655	24,238	7,076		81,984		
37	009	71		104,922	75	31	1,659	24,284	5,816		104,922		
37	011	46		27,037	75	20	1,082	15,844	5,208		27,037		
37	013	132		155,460	150	58	3,084	45,150	14,381		155,460	2,243	
37	015	60		154,338	37	26	1,393	20,392	6,734		154,338		
37	017	90		128,231	75	40	2,112	30,919	6,796		128,231	2,523	
37	019	208		36,770	75	92	4,864	71,214	23,571		36,770	3,645	
37	021	574		87,382	1,506	252	13,406	196,274	102,018		87,382	11,621	
37	023	243		29,373	376	107	5,676	83,101	36,671		29,373	7,490	
37	025	365		63,102	753	161	8,527	124,844	48,684		63,102		
37	027	224		37,050	150	98	5,220	76,429	24,196		37,050	1,822	
37	029	20		51,685		9	469	6,866	2,183		51,685		
37	031	176		59,869	150	77	4,100	60,031	19,368		59,869	561	
37	033	66		137,873		29	1,532	22,436	7,418		137,873		
37	035	393		72,264	376	173	9,173	134,307	67,945		72,264		
37	037	136		112,923	37	60	3,176	46,503	14,063		112,923	4,626	
37	039	68		24,533	150	30	1,583	23,173	6,920		24,533		
37	041	42		51,341	75	18	977	14,309	3,974		51,341	1,962	
37	043	26		18,288		11	597	8,745	2,038		18,288		
37	045	275		104,029	376	121	6,422	94,024	36,916		104,029	2,243	
37	047	155		169,945	150	68	3,616	52,946	17,353		169,945	1,121	
37	049	261		83,850	376	115	6,105	89,391	27,115		83,850	2,503	
37	051	830		103,182	1,664	365	19,373	283,650	107,459		103,182	6,688	
37	053	54		39,571		24	1,250	18,305	4,361		39,571		
37	055	87		4,961		38	2,024	29,640	8,463		4,961	7,850	
37	057	418		98,971	150	184	9,757	142,852	57,877		98,971	841	
37	059	96		70,579	37	42	2,233	32,693	15,719		70,579		
37	061	127		238,300	75	56	2,963	43,379	25,212		238,300	2,523	
37	063	597		22,238	1,506	262	13,940	204,097	84,876		22,238		
37	065	160		171,589	75	70	3,733	54,659	18,353		171,589	561	
37	067	845		51,091	3,765	371	19,726	288,810	127,176		51,091	10,752	
37	069	133		136,941	75	59	3,115	45,612	14,217		136,941		
37	071	542		34,860	376	238	12,647	185,169	78,336		34,860		
37	073	30		62,004		13	695	10,180	3,300		62,004		
37	075	22		7,194		10	520	7,609	1,764		7,194		

To calculate allocation proportion of national emissions to county, divide number of county unit within an industry category by total (national) number of units within that category

A = Asphalt Paving: Cutback; FHWA funding

B = Drum and Barrel Reclamation; 55-gallon barrels reclaimed

C = Grain Elevators; Acreage farms available

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E = Human Cremation; Number of cremations

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L = Gasoline Distribution Stage II; % Reduction applied; (see PageE2-92 for information on this reduction)

Appendix E-2. County-level Allocation Values Used for Allocation Schemes 18, 22, and 27

State FIPS	County FIPS	A	B	C	D	E	F	G	H	I	J	K	L
		1000dollars	1000barrels	acres	beds	cremations	gallons	people	10E+6VMT	tires	acres	LTOs	%Red. Appl.
37	077	130		161,818	75	57	3,043	44,546	24,402		161,818	2,523	
37	079	54		103,201		24	1,266	18,537	6,106		103,201		
37	081	1,145		111,882	1,592	503	26,731	391,380	172,412		111,882	14,172	
37	083	163		185,382	150	72	3,813	55,832	28,317		185,382	4,205	
37	085	247		116,004	150	109	5,771	84,501	31,963		116,004		
37	087	152		65,212	150	67	3,552	52,002	33,495		65,212		
37	089	241		44,511	376	106	5,619	82,264	32,972		44,511		
37	091	64		76,439	150	28	1,498	21,937	5,553		76,439	1,822	
37	093	92		66,920	37	40	2,139	31,324	9,241		66,920	841	
37	095	17		95,327		7	398	5,828	1,317		95,327	841	
37	097	344		156,748	376	151	8,027	117,519	63,065		156,748	3,925	
37	099	88		18,882	150	39	2,067	30,260	8,910		18,882		
37	101	324		211,011	150	143	7,571	110,850	61,078		211,011	1,962	
37	103	27		71,769		12	637	9,320	2,439		71,769		
37	105	145		45,205	150	64	3,378	49,452	16,413		45,205		
37	107	172		149,650	376	76	4,019	58,842	18,332		149,650	5,632	
37	109	172		63,177	150	76	4,023	58,895	19,245		63,177		
37	111	119		20,680	75	52	2,771	40,565	23,582		20,680		
37	113	85		22,784	150	37	1,974	28,906	8,715		22,784		
37	115	55		80,041		24	1,291	18,906	6,232		80,041		
37	117	76		115,202	75	34	1,785	26,133	8,344		115,202	1,402	
37	119	1,896		29,015	3,765	834	44,286	648,400	265,801		29,015	16,574	
37	121	43		25,170	37	19	1,008	14,763	4,844		25,170		
37	123	71		41,792		31	1,661	24,323	8,970		41,792		
37	125	213		100,668	753	94	4,978	72,885	24,286		100,668	4,205	
37	127	270		175,278	376	119	6,309	92,369	40,077		175,278	2,804	
37	129	441		5,435	753	194	10,306	150,895	53,728		5,435	8,564	
37	131	62		160,464		27	1,450	21,234	10,313		160,464		
37	133	417		63,419	301	183	9,731	142,480	35,741		63,419	2,804	
37	135	326		72,515	753	143	7,618	111,533	49,369		72,515		
37	137	36		50,232		16	841	12,314	2,146		50,232		
37	139	104		86,306	150	46	2,433	35,629	9,869		86,306	8,411	
37	141	118		68,861	75	52	2,752	40,293	24,724		68,861	1,402	
37	143	33		77,196		15	771	11,294	2,976		77,196		
37	145	99		120,470	75	44	2,312	33,856	10,826		120,470		

To calculate allocation proportion of national emissions to county, divide number of county unit within an industry category by total (national) number of units within that category

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L = Gasoline Distribution Stage II; % Reduction applied; (see PageE2-92 for information on this reduction)

Appendix E-2. County-level Allocation Values Used for Allocation Schemes 18, 22, and 27

State FIPS	County FIPS	A	B	C	D	E	F	G	H	I	J	K	L
		1000dollars	1000barrels	acres	beds	cremations	gallons	people	10E+6VMT	tires	acres	LTOs	%Red. Appl.
37	147	374		193,377	753	165	8,740	127,960	37,692		193,377	4,486	
37	149	49		30,701	75	22	1,154	16,893	10,279		30,701		
37	151	361		148,301	150	159	8,429	123,410	48,684		148,301		
37	153	134		54,498	150	59	3,123	45,718	15,161		54,498	1,402	
37	155	341		285,186	376	150	7,964	116,597	52,762		285,186	3,364	
37	157	264		133,842	376	116	6,167	90,287	30,135		133,842	841	
37	159	370		107,555	753	163	8,646	126,585	53,917		107,555		
37	161	180		61,147	150	79	4,201	61,507	19,768		61,147		
37	163	154		270,840	150	68	3,607	52,812	26,417		270,840	1,682	
37	165	105		53,501	150	46	2,451	35,882	11,854		53,501	1,962	
37	167	165		94,709	75	73	3,862	56,547	18,100		94,709		
37	169	128		110,003	75	56	2,998	43,894	13,431		110,003		
37	171	199		129,840	150	87	4,640	67,940	37,527		129,840	3,645	
37	173	36		6,624	37	16	843	12,341	4,022		6,624		
37	175	84		12,675	75	37	1,971	28,853	7,163		12,675		
37	177	12		54,838		5	269	3,940	963		54,838		
37	179	337		178,173	150	148	7,864	115,144	36,337		178,173	5,607	
37	181	124		66,584	150	55	2,902	42,496	20,067		66,584		
37	183	1,716		113,201	1,311	755	40,088	586,940	235,873		113,201	21,116	
37	185	55		80,155		24	1,287	18,848	9,695		80,155		
37	187	39		107,280	37	17	918	13,443	2,780		107,280	841	
37	189	121		56,508	150	53	2,829	41,419	13,092		56,508		
37	191	327		229,423	376	144	7,630	111,711	38,775		229,423	2,860	
37	193	186		127,428	150	82	4,347	63,640	20,103		127,428	1,402	
37	195	201		128,108	150	88	4,699	68,801	32,834		128,108		
37	197	103		101,838	37	45	2,407	35,245	17,006		101,838		
37	199	49		40,057		22	1,152	16,860	5,549		40,057		
38	001	140		629,677	42	3	3,259	2,644	1,338		629,677		
38	003	626		869,888	42	13	14,626	11,864	6,308		869,888	841	
38	005	358		758,199		8	8,360	6,781	3,598		758,199		
38	007	56		793,839		1	1,314	1,066	1,995		793,839		
38	009	382		959,734	42	8	8,927	7,241	2,626		959,734		
38	011	173		715,177	17	4	4,030	3,269	1,684		715,177		
38	013	116		615,294		2	2,699	2,189	1,093		615,294		
38	015	3,556		895,539	841	75	83,054	67,371	18,749		895,539	6,608	

To calculate allocation proportion of national emissions to county, divide number of county unit within an industry category by total (national) number of units within that category

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L = Gasoline Distribution Stage II; % Reduction applied; (see PageE2-92 for information on this reduction)

Appendix E-2. County-level Allocation Values Used for Allocation Schemes 18, 22, and 27

State FIPS	County FIPS	A	B	C	D	E	F	G	H	I	J	K	L
		1000dollars	1000barrels	acres	beds	cremations	gallons	people	10E+6VMT	tires	acres	LTOs	%Red. Appl.
38	017	6,250		1,067,667	905	131	145,968	118,405	33,631		1,067,667	9,082	
38	019	254		875,394	17	5	5,943	4,821	2,531		875,394		
38	021	299		580,205	42	6	6,980	5,662	2,993		580,205		
38	023	121		733,305	17	3	2,828	2,294	1,148		733,305		
38	025	182		1,335,601		4	4,262	3,457	1,785		1,335,601		
38	027	148		344,036		3	3,446	2,795	1,415		344,036		
38	029	227		823,946	42	5	5,303	4,302	2,252		823,946		
38	031	200		370,231	42	4	4,669	3,787	1,966		370,231		
38	033	94		578,700		2	2,197	1,782	2,077		578,700		
38	035	3,414		774,747	841	72	79,729	64,674	17,857		774,747	21,478	
38	037	151		969,501	17	3	3,518	2,854	1,451		969,501		
38	039	147		389,873	42	3	3,425	2,778	1,406		389,873		
38	041	150		707,231		3	3,500	2,839	1,444		707,231		
38	043	148		724,896		3	3,449	2,798	3,857		724,896		
38	045	248		670,681		5	5,794	4,700	2,462		670,681		
38	047	120		531,220		3	2,796	2,268	1,134		531,220		
38	049	315		1,067,049		7	7,350	5,962	3,156		1,067,049		
38	051	179		508,154	42	4	4,188	3,397	1,750		508,154		
38	053	292		1,169,652	17	6	6,831	5,541	2,922		1,169,652		
38	055	507		1,142,518	42	11	11,838	9,603	5,127		1,142,518		
38	057	486		551,195	42	10	11,354	9,210	1,931		551,195		
38	059	1,297		1,228,774	17	27	30,287	24,568	12,362		1,228,774		
38	061	344		997,139	17	7	8,033	6,516	3,455		997,139		
38	063	193		535,053	42	4	4,507	3,656	1,892		535,053		
38	065	114		400,248		2	2,660	2,158	1,074		400,248		
38	067	441		633,216	42	9	10,295	8,351	7,081		633,216	168	
38	069	242		567,042	42	5	5,663	4,594	1,015		567,042	196	
38	071	630		658,108	42	13	14,724	11,944	3,426		658,108	1,357	
38	073	303		515,104	42	6	7,065	5,731	1,791		515,104		
38	075	148		515,600		3	3,451	2,799	1,421		515,600	84	
38	077	946		809,410		20	22,097	17,924	10,052		809,410	1,391	
38	079	751		493,200	84	16	17,541	14,229	7,646		493,200		
38	081	226		476,735		5	5,286	4,288	2,245		476,735	112	
38	083	88		491,998		2	2,053	1,665	791		491,998		
38	085	219		704,872	17	5	5,123	4,156	2,172		704,872		

To calculate allocation proportion of national emissions to county, divide number of county unit within an industry category by total (national) number of units within that category

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Appendix E-2. County-level Allocation Values Used for Allocation Schemes 18, 22, and 27

State FIPS	County FIPS	A	B	C	D	E	F	G	H	I	J	K	L
		1000dollars	1000barrels	acres	beds	cremations	gallons	people	10E+6VMT	tires	acres	LTOs	%Red. Appl.
38	087	47		757,051		1	1,093	887	376		757,051		
38	089	1,187		805,909	84	25	27,725	22,490	10,230		805,909		
38	091	115		412,763		2	2,690	2,182	1,090		412,763		
38	093	1,113		1,264,518	84	23	26,000	21,090	9,321		1,264,518	841	
38	095	156		570,058	17	3	3,643	2,955	1,511		570,058		
38	097	452		494,484	42	9	10,547	8,555	7,047		494,484		
38	099	705		717,525	42	15	16,465	13,356	7,181		717,525		
38	101	3,080		1,207,702	420	65	71,946	58,360	13,046		1,207,702	2,539	
38	103	269		744,442	84	6	6,280	5,094	2,678		744,442		
38	105	1,043		1,205,246	168	22	24,365	19,764	5,740		1,205,246	1,023	
39	001	314		194,701	58	51	7,338	28,698	9,478		194,701	561	
39	003	1,170		189,906	577	190	27,334	106,898	39,599		189,906	1,682	
39	005	569		163,948	115	92	13,290	51,973	19,925		163,948	1,201	
39	007	1,131		149,319	289	184	26,425	103,344	36,313		149,319	56	86
39	009	674		82,873	58	109	15,751	61,599	16,360		82,873	2,804	
39	011	516		213,219	115	84	12,061	47,167	15,604		213,219	2,103	
39	013	780		148,287	205	127	18,221	71,259	35,510		148,287	673	
39	015	455		195,654	58	74	10,631	41,576	14,051		195,654	258	
39	017	3,651		134,506	740	593	85,273	333,486	85,732		134,506	14,946	86
39	019	321		113,338		52	7,488	29,286	6,501		113,338	2,944	
39	021	422		221,584	58	69	9,863	38,572	11,338		221,584	3,364	
39	023	1,587		172,026	289	258	37,067	144,962	49,345		172,026	5,747	86
39	025	1,957		88,298	115	318	45,706	178,749	55,589		88,298	2,804	86
39	027	446		222,922	115	72	10,407	40,701	14,334		222,922	2,243	
39	029	1,219		138,197	289	198	28,460	111,300	31,628		138,197	1,295	
39	031	396		170,087	115	64	9,257	36,204	10,363		170,087	1,177	
39	033	515		226,641	112	84	12,021	47,010	10,093		226,641	2,006	
39	035	15,018		4,268	8,251	2,437	350,751	1,371,717	403,965		4,268	34,986	86
39	037	592		329,475	115	96	13,824	54,063	17,264		329,475	477	
39	039	434		186,385	58	70	10,139	39,651	9,617		186,385	561	
39	041	1,135		160,770	115	184	26,511	103,679	36,752		160,770	925	
39	043	853		89,871	289	138	19,917	77,893	29,240		89,871		
39	045	1,387		196,930	289	225	32,403	126,723	35,998		196,930		
39	047	311		242,573	58	50	7,262	28,399	13,605		242,573	4,346	
39	049	11,253		79,620	3,633	1,826	262,816	1,027,821	320,466		79,620	35,272	

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Appendix E-2. County-level Allocation Values Used for Allocation Schemes 18, 22, and 27

State FIPS	County FIPS	A	B	C	D	E	F	G	H	I	J	K	L
		1000dollars	1000barrels	acres	beds	cremations	gallons	people	10E+6VMT	tires	acres	LTOs	%Red. Appl.
39	051	462		197,309	115	75	10,791	42,202	22,339		197,309	231	
39	053	364		117,180	115	59	8,502	33,248	9,001		117,180	1,466	
39	055	981		59,238	115	159	22,910	89,598	29,791		59,238	224	86
39	057	1,633		178,332	289	265	38,138	149,149	44,445		178,332	673	86
39	059	448		137,653	115	73	10,472	40,955	33,947		137,653	1,619	
39	061	9,201		29,153	4,922	1,493	214,903	840,443	282,954		29,153	21,584	86
39	063	760		277,209	289	123	17,746	69,401	25,101		277,209	9,252	
39	065	347		246,852	58	56	8,093	31,652	6,418		246,852	618	
39	067	176		109,685	29	29	4,109	16,070	4,719		109,685	493	
39	069	327		244,305	29	53	7,638	29,870	8,803		244,305		
39	071	450		242,450	58	73	10,507	41,091	12,045		242,450	1,766	
39	073	319		47,950	58	52	7,459	29,170	8,684		47,950		
39	075	419		171,732	29	68	9,792	38,295	9,435		171,732	1,402	
39	077	663		231,586	115	108	15,473	60,513	15,229		231,586		
39	079	358		74,035	29	58	8,351	32,660	9,137		74,035	154	
39	081	806		71,304	289	131	18,836	73,662	24,943		71,304		
39	083	590		206,255	115	96	13,783	53,903	16,014		206,255	1,962	
39	085	2,487		19,053	289	404	58,081	227,145	63,615		19,053	1,438	86
39	087	704		59,454	115	114	16,453	64,344	21,385		59,454		
39	089	1,494		237,014	289	243	34,899	136,485	48,758		237,014		
39	091	513		218,957	58	83	11,971	46,816	14,416		218,957	147	
39	093	3,089		130,631	663	501	72,134	282,100	82,825		130,631		86
39	095	4,888		79,583	3,120	793	114,166	446,482	144,231		79,583		
39	097	453		262,350	58	73	10,573	41,348	20,586		262,350	5,116	
39	099	2,766		73,415	888	449	64,590	252,597	87,173		73,415		
39	101	732		220,683	289	119	17,099	66,870	16,151		220,683	4,205	
39	103	1,612		104,060	256	262	37,659	147,277	53,625		104,060	9,762	86
39	105	263		84,761	29	43	6,140	24,012	6,737		84,761		
39	107	449		260,935	58	73	10,488	41,017	11,983		260,935	1,121	
39	109	1,081		192,376	289	175	25,243	98,721	28,817		192,376		86
39	111	169		109,650		27	3,952	15,454	4,706		109,650	168	
39	113	6,195		105,965	3,209	1,005	144,693	565,866	195,639		105,965	23,199	86
39	115	159		98,265		26	3,714	14,525	3,872		98,265		
39	117	352		161,202	29	57	8,220	32,146	16,212		161,202	645	
39	119	929		180,034	289	151	21,687	84,812	35,963		180,034	1,906	

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L = Gasoline Distribution Stage II; % Reduction applied; (see PageE2-92 for information on this reduction)

Appendix E-2. County-level Allocation Values Used for Allocation Schemes 18, 22, and 27

State FIPS	County FIPS	A	B	C	D	E	F	G	H	I	J	K	L
		1000dollars	1000barrels	acres	beds	cremations	gallons	people	10E+6VMT	tires	acres	LTOs	%Red. Appl.
39	121	162		99,003		26	3,787	14,810	11,897		99,003		
39	123	452		105,771	29	73	10,556	41,281	15,032		105,771	2,804	
39	125	220		209,983	29	36	5,133	20,073	6,562		209,983		
39	127	375		96,603		61	8,761	34,261	7,966		96,603	140	
39	129	585		267,300	58	95	13,662	53,431	18,334		267,300	2,299	
39	131	306		78,311	29	50	7,157	27,988	7,326		78,311		
39	133	1,660		87,453		269	38,759	151,579	60,416		87,453	1,332	86
39	135	476		197,141		77	11,116	43,472	17,955		197,141		
39	137	385		292,335		63	9,002	35,206	11,699		292,335	513	
39	139	1,419		155,516	289	230	33,141	129,607	42,535		155,516	7,133	
39	141	829		251,675	115	135	19,365	75,731	22,960		251,675	2,691	
39	143	677		199,446	115	110	15,805	61,810	27,066		199,446	4,205	
39	145	880		102,981	289	143	20,546	80,353	21,561		102,981	1,682	
39	147	654		292,662	58	106	15,283	59,768	14,979		292,662	4,958	
39	149	525		201,998	115	85	12,261	47,949	15,420		201,998	1,542	
39	151	4,086		136,737	1,216	663	95,421	373,174	107,040		136,737		
39	153	5,889		17,235	1,889	956	137,531	537,856	173,956		17,235	20,485	86
39	155	2,467		112,477	115	400	57,620	225,339	71,370		112,477	7,514	
39	157	972		141,358	115	158	22,699	88,773	38,027		141,358	3,032	
39	159	446		204,693	115	72	10,427	40,776	12,398		204,693	2,564	
39	161	329		237,244	58	53	7,695	30,092	7,679		237,244	1,009	
39	163	135		37,111		22	3,161	12,362	4,554		37,111		
39	165	1,678		118,430		272	39,197	153,292	44,808		118,430	883	86
39	167	690		146,504	289	112	16,117	63,029	24,746		146,504		
39	169	1,216		240,905	115	197	28,394	111,045	35,223		240,905	7,155	
39	171	413		203,201	115	67	9,654	37,755	20,211		203,201	561	
39	173	1,317		303,986	115	214	30,759	120,292	46,821		303,986	5,355	
39	175	251		209,012	29	41	5,861	22,921	5,975	4,000,000	209,012	505	
40	001	25		225,322	38	23	580	20,544	10,288				
40	003	7		502,045		6	166	5,887	2,248				
40	005	16		420,851	38	15	378	13,379	4,923				
40	007	7		1,047,970	15	7	170	6,016	3,412				
40	009	24		499,444	151	22	559	19,799	14,590			421	
40	011	12		546,677	38	11	290	10,284	4,262				
40	013	42		419,887	75	39	987	34,941	13,285			676	

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Appendix E-2. County-level Allocation Values Used for Allocation Schemes 18, 22, and 27

State FIPS	County FIPS	A	B	C	D	E	F	G	H	I	J	K	L
		1000dollars	1000barrels	acres	beds	cremations	gallons	people	10E+6VMT	tires	acres	LTOs	%Red. Appl.
40	015	37		726,629	38	34	866	30,664	15,806				
40	017	105		466,874	75	95	2,443	86,498	37,055			7,738	
40	019	54		382,391	151	49	1,258	44,533	18,709			8,112	
40	021	48		237,558	151	44	1,116	39,506	13,104			1,420	
40	023	18		337,961	38	17	424	15,025	6,349			561	
40	025	4		1,077,004	38	3	83	2,922	1,612			384	
40	027	246		162,308	377	224	5,746	203,449	72,432			12,515	
40	029	7		272,894	38	7	173	6,126	3,477				
40	031	129		434,526	567	118	3,011	106,621	40,112			1,334	
40	033	8		350,016		7	187	6,609	7,637				
40	035	17		418,352	75	16	409	14,468	10,395				
40	037	82		351,400	76	75	1,925	68,169	30,670			869	
40	039	31		624,729	102	28	722	25,577	13,625			2,248	
40	041	42		264,620	75	39	988	34,977	17,665			2,747	
40	043	6		619,270	15	5	137	4,859	2,737				
40	045	5		669,922	38	5	118	4,194	2,346				
40	047	69		614,690	377	63	1,609	56,954	15,730			3,193	
40	049	32		448,693	75	29	755	26,720	17,666			1,797	
40	051	56		608,870	75	51	1,302	46,084	27,199			10,233	
40	053	6		584,588		6	148	5,237	1,988				
40	055	8		314,416	15	7	180	6,387	1,312				
40	057	4		304,189	15	4	94	3,336	545				
40	059	4		579,644	15	4	101	3,580	1,996				
40	061	14		267,655	38	13	323	11,421	3,484				
40	063	17		355,192	38	16	397	14,064	3,676			421	
40	065	34		476,628	151	31	802	28,392	8,114			1,916	
40	067	8		441,324		7	184	6,518	3,706				
40	069	12		334,041	15	11	291	10,310	2,851				
40	071	56		469,493	151	51	1,312	46,448	20,681			8,971	
40	073	16		554,988	38	15	381	13,496	5,536				
40	075	13		595,283	38	12	297	10,498	3,891			785	
40	077	12		202,174	15	11	288	10,204	2,912				
40	079	57		407,359	151	52	1,321	46,770	20,916			336	
40	081	38		431,368	38	35	898	31,811	22,476			498	
40	083	37		380,529	38	34	860	30,437	14,256			1,887	

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Appendix E-2. County-level Allocation Values Used for Allocation Schemes 18, 22, and 27

State FIPS	County FIPS	A	B	C	D	E	F	G	H	I	J	K	L
		1000dollars	1000barrels	acres	beds	cremations	gallons	people	10E+6VMT	tires	acres	LTOs	%Red. Appl.
40	085	10		266,175		9	242	8,581	8,103				
40	087	32		268,034	38	29	754	26,706	14,617				
40	089	42		327,524	75	38	983	34,795	15,794			1,870	
40	091	23		253,667	15	21	544	19,269	13,314				
40	093	9		490,911	15	8	216	7,659	2,930			589	
40	095	15		163,584	15	14	350	12,377	5,252			458	
40	097	46		283,651	38	42	1,081	38,270	21,500			2,187	
40	099	15		203,486	15	14	352	12,477	5,371				
40	101	85		332,566	377	77	1,980	70,091	28,891			2,205	
40	103	14		412,829	38	13	320	11,334	10,693			280	
40	105	12		309,446	15	11	285	10,079	3,099				
40	107	14		282,167	75	12	318	11,242	8,018				
40	109	770		160,498	4,021	702	17,979	636,539	259,799			34,965	
40	111	47		302,155	75	43	1,096	38,788	17,754			4,926	
40	113	52		1,207,462	38	47	1,214	42,970	20,284			5,924	
40	115	37		214,870	151	34	872	30,881	17,029			1,037	
40	117	20		263,369	38	18	467	16,548	7,752				
40	119	79		339,359	151	72	1,848	65,418	22,853			8,890	
40	121	53		491,377	151	48	1,228	43,472	18,941			3,925	
40	123	42		335,463	377	38	980	34,686	14,322			1,402	
40	125	76		336,486	151	69	1,770	62,654	29,284			2,523	
40	127	14		256,438	38	13	326	11,542	5,248			799	
40	129	4		690,568	15	4	101	3,593	1,341				
40	131	85		312,870	151	78	1,993	70,567	39,735				
40	133	30		277,535		27	693	24,546	14,399			561	
40	135	46		293,366	38	42	1,070	37,886	26,047			437	
40	137	52		426,884	151	48	1,217	43,076	14,767			1,682	
40	139	22		1,086,667	38	20	518	18,329	7,198			2,826	
40	141	11		465,731	38	10	266	9,419	3,503			561	
40	143	663		142,978	2,798	605	15,486	548,296	233,995			59,827	
40	145	68		240,660	75	62	1,585	56,115	24,632				
40	147	58		237,661	377	53	1,347	47,674	13,391				
40	149	14		585,851	15	13	330	11,692	7,415			2,014	
40	151	10		804,637	38	9	231	8,171	2,107			785	
40	153	22		721,978	75	21	525	18,588	6,047			981	

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State FIPS	County FIPS	A	B	C	D	E	F	G	H	I	J	K	L
		1000dollars	1000barrels	acres	beds	cremations	gallons	people	10E+6VMT	tires	acres	LTOs	%Red. Appl.
41	001			1,007,737	59	80	251	16,259	21,442		1,007,737	1,869	
41	003			130,818	119	382	1,191	77,192	19,258		130,818	19,857	
41	005			179,650	376	1,673	5,219	338,251	116,954		179,650		
41	007	38		22,783	119	175	545	35,323	9,712		22,783	6,860	
41	009			65,567		224	700	45,368	17,206		65,567	8,195	
41	011	65		163,021	170	305	951	61,670	19,700		163,021	8,576	
41	013			916,451	30	87	273	17,686	6,355		916,451		
41	015			84,781	12	105	327	21,170	6,900		84,781		
41	017			124,395	298	548	1,710	110,810	41,328		124,395	14,709	
41	019	108		401,635	324	504	1,571	101,805	56,518		401,635	5,803	
41	021			742,728		10	32	2,074	9,725		742,728		
41	023	8		1,080,756	30	39	121	7,855	3,790		1,080,756		
41	025			1,358,883	12	36	113	7,295	2,130		1,358,883	1,021	
41	027			28,362	59	99	307	19,917	13,994		28,362		
41	029			246,101	506	870	2,713	175,822	66,035		246,101	7,029	
41	031	18		783,466	30	83	260	16,861	6,328		783,466		
41	033	80		34,565	298	371	1,156	74,919	34,955		34,565		
41	035	67		713,534	119	314	979	63,435	18,029		713,534	4,637	
41	037			736,694	30	35	111	7,173	2,288		736,694	718	
41	039	334		223,720	596	1,558	4,858	314,901	103,429		223,720	12,097	
41	041			31,935	119	223	694	44,985	15,426		31,935	3,932	
41	043			393,393	119	521	1,625	105,337	45,702		393,393	3,003	
41	045	30		1,257,201	59	141	439	28,445	16,191		1,257,201	3,545	
41	047	290		306,083	596	1,349	4,208	272,760	87,032		306,083	8,573	
41	049	11		1,118,226	12	52	162	10,513	12,391		1,118,226		
41	051	672		34,479	2,633	3,132	9,770	633,224	200,332		34,479	17,097	
41	053			171,423	30	309	963	62,396	16,658		171,423		
41	055			425,036		9	28	1,786	4,598		425,036		
41	057	26		35,580	59	121	377	24,420	9,972		35,580		
41	059			1,345,097	119	330	1,031	66,803	41,312		1,345,097	5,178	
41	061			531,990	59	123	383	24,807	18,918		531,990	2,831	
41	063	8		620,886	30	36	112	7,258	3,493		620,886		
41	065			1,135,198	59	115	360	23,346	13,426		1,135,198		
41	067	435		130,887	596	2,025	6,315	409,305	113,484		130,887	23,641	
41	069			679,912		8	24	1,559	646		679,912		

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State FIPS	County FIPS	A	B	C	D	E	F	G	H	I	J	K	L
		1000dollars	1000barrels	acres	beds	cremations	gallons	people	10E+6VMT	tires	acres	LTOs	%Red. Appl.
41	071			186,320	119	413	1,287	83,424	26,451		186,320	11,504	
42	001				152	183	1,427	87,697	25,254		178,780		
42	003		3,889		8,860	2,625	20,457	1,256,806	364,652		26,944	25,216	95
42	005				152	152	1,188	73,001	21,361		119,597		95
42	007				760	382	2,974	182,687	54,322		53,774	5,615	95
42	009				76	104	809	49,699	31,403		198,824		
42	011				760	748	5,831	358,211	111,057		221,511	17,655	
42	013				694	271	2,115	129,937	40,594		83,813		
42	015				380	130	1,012	62,146	16,902		306,737		
42	017				1,506	1,241	9,669	594,047	129,210		83,534	4,947	95
42	019				380	360	2,808	172,522	56,519		118,547	2,523	95
42	021				839	321	2,503	153,766	40,526		87,802	6,672	
42	023					12	91	5,571	649		4,121		
42	025				152	123	956	58,759	26,051		19,838	1,772	
42	027				380	276	2,152	132,190	43,425		135,982	5,112	
42	029				975	898	6,999	430,001	105,965		175,363	26,752	95
42	031				76	87	678	41,651	20,802		94,086		
42	033				380	169	1,314	80,732	35,790		52,630	280	
42	035				152	77	599	36,774	17,194		41,293		
42	037				380	133	1,036	63,674	21,988		110,408	2,347	
42	039				380	186	1,450	89,109	33,467	2,000	207,215		
42	041				380	440	3,429	210,663	89,078		143,163		
42	043				1,520	513	3,997	245,576	99,017		86,522	4,696	
42	045				1,836	1,131	8,814	541,502	117,604		4,841		95
42	047				152	72	559	34,344	7,743		17,094		
42	049				1,151	579	4,509	276,993	82,474		167,634	6,528	
42	051				376	300	2,340	143,775	39,548		108,612	1,402	95
42	053					10	80	4,938	1,412		5,362		
42	055				380	269	2,097	128,812	48,738		237,642	1,206	
42	057				76	31	238	14,616	16,798		94,285		
42	059				76	88	685	42,072	18,680		130,926		
42	061				152	93	728	44,753	13,153		124,857		
42	063				152	183	1,430	87,831	25,059		138,522	1,962	
42	065				152	96	750	46,086	19,735		79,973	1,249	
42	067					46	361	22,204	6,882		86,740		

To calculate allocation proportion of national emissions to county, divide number of county unit within an industry category by total (national) number of units within that category

A = Asphalt Paving: Cutback; FHWA funding

B = Drum and Barrel Reclamation; 55-gallon barrels reclaimed

C = Grain Elevators; Acreage farms available

D = Hospital Sterilizers; Number of beds

E = Human Cremation; Number of cremations

F = Surface Coating: Traffic Markings; Gallons of paint

G = Multiple; Number of people

H = Gasoline Distribution Stage I and II; Vehicle Miles Travelled (VMT)

I = Open Burning: Scrap Tires; Number of tires burned

J = Pesticide Application; Acreage farms available

K = Aviation Gasoline Distribution: Stage I and II; Landing-TakeOffs

L = Gasoline Distribution Stage II; % Reduction applied; (see PageE2-92 for information on this reduction)

Appendix E-2. County-level Allocation Values Used for Allocation Schemes 18, 22, and 27

State FIPS	County FIPS	A	B	C	D	E	F	G	H	I	J	K	L
		1000dollars	1000barrels	acres	beds	cremations	gallons	people	10E+6VMT	tires	acres	LTOs	%Red. Appl.
42	069				1,055	431	3,362	206,520	63,948		29,509		
42	071				1,319	961	7,488	460,035	136,562		391,836	17,760	
42	073				445	197	1,538	94,508	28,456		87,177		
42	075				380	246	1,918	117,856	39,345		110,638		
42	077				1,972	626	4,881	299,855	92,203	1,000	91,629	15,030	
42	079				1,467	652	5,078	312,000	102,072		57,317	9,244	
42	081				831	244	1,900	116,709	38,249		135,561	4,501	
42	083				152	96	749	45,987	12,461		39,045	1,962	
42	085				683	254	1,977	121,458	48,247		166,616	3,687	
42	087				152	98	762	46,793	13,290		79,400		
42	089				152	269	2,092	128,541	49,037		26,145	1,262	
42	091				3,039	1,513	11,786	724,087	157,132		41,552	8,413	95
42	093				380	37	286	17,571	7,822		39,957		
42	095				380	543	4,228	259,736	72,368		78,317		
42	097				152	195	1,516	93,163	27,855		114,936		
42	099					92	721	44,280	13,398		114,882		
42	101		3,889		11,757	2,961	23,074	1,417,601	342,452		285	46,377	95
42	103					86	673	41,357	24,099		5,566		
42	105				152	36	279	17,115	4,378		83,462		
42	107				521	311	2,422	148,788	50,797		90,331	1,542	
42	109					79	616	37,875	10,965		92,751		
42	111				235	167	1,303	80,028	31,507		206,298	673	
42	113					13	98	6,038	1,268		27,317		
42	115				76	88	687	42,190	18,179		168,514		
42	117				76	87	678	41,657	10,901		202,169	353	
42	119				152	85	660	40,546	16,092		63,247		
42	121				152	120	937	57,562	19,114		46,186	4,503	
42	123				152	91	708	43,505	11,872		64,498		
42	125				380	428	3,335	204,888	70,249		186,190	2,187	95
42	127				152	96	750	46,080	11,286		109,615		
42	129				1,128	774	6,033	370,658	110,998		147,823	6,493	95
42	131				76	61	477	29,298	9,124		61,001		
42	133				1,103	787	6,130	376,586	114,282		261,164	15,073	
44	001	107				163	2,488	49,102	9,363				86
44	003	352			273	537	8,213	162,120	49,962			12,572	86

To calculate allocation proportion of national emissions to county, divide number of county unit within an industry category by total (national) number of units within that category

A = Asphalt Paving: Cutback; FHWA funding

B = Drum and Barrel Reclamation; 55-gallon barrels reclaimed

C = Grain Elevators; Acreage farms available

D = Hospital Sterilizers; Number of beds

E = Human Cremation; Number of cremations

F = Surface Coating: Traffic Markings; Gallons of paint

G = Multiple; Number of people

H = Gasoline Distribution Stage I and II; Vehicle Miles Travelled (VMT)

I = Open Burning: Scrap Tires; Number of tires burned

J = Pesticide Application; Acreage farms available

K = Aviation Gasoline Distribution: Stage I and II; Landing-TakeOffs

L = Gasoline Distribution Stage II; % Reduction applied; (see PageE2-92 for information on this reduction)

Appendix E-2. County-level Allocation Values Used for Allocation Schemes 18, 22, and 27

State FIPS	County FIPS	A	B	C	D	E	F	G	H	I	J	K	L
		1000dollars	1000barrels	acres	beds	cremations	gallons	people	10E+6VMT	tires	acres	LTOs	%Red. Appl.
44	005	180			273	275	4,206	83,024	20,593				86
44	007	1,245			2,368	1,902	29,085	574,108	168,067			4,243	86
44	009	266			273	406	6,204	122,465	39,964			6,127	86
45	001	111			33	30	2,595	24,681	8,311		81,245		
45	003	609			132	163	14,235	135,401	59,207		134,069	4,542	
45	005	51			33	14	1,191	11,325	2,741		91,891	1,121	
45	007	733			660	197	17,115	162,793	67,700		165,896	8,018	
45	009	73			66	20	1,712	16,289	3,616		100,925		
45	011	98			33	26	2,290	21,784	4,990		97,084	2,243	
45	013	509			390	136	11,877	112,973	28,669		39,147		
45	015	641				172	14,960	142,300	49,586		51,426	280	
45	017	64				17	1,497	14,236	12,823		102,296		
45	019	1,440	3,889		3,082	386	33,634	319,921	92,328		44,082	12,797	
45	021	225			66	60	5,264	50,074	23,852		64,770		
45	023	157			66	42	3,672	34,927	19,947		80,691	617	
45	025	187			33	50	4,366	41,531	14,386		124,282	1,794	
45	027	139			132	37	3,249	30,901	24,664		142,216	2,944	
45	029	170			66	45	3,959	37,659	25,345		154,829	4,065	
45	031	299			132	80	6,990	66,488	27,558		158,132	841	
45	033	134			66	36	3,124	29,718	17,895		91,088		
45	035	408				109	9,523	90,582	36,400		65,333	2,804	
45	037	90			33	24	2,101	19,989	6,086		71,425		
45	039	102			33	27	2,373	22,573	14,613		46,609	1,934	
45	041	564			967	151	13,166	125,229	51,566		168,600	5,722	
45	043	247			132	66	5,775	54,934	18,761		53,168	2,804	
45	045	1,616			1,491	433	37,735	358,936	118,296		70,382		
45	047	287			330	77	6,699	63,717	20,451		68,065	4,233	
45	049	86			33	23	2,009	19,108	7,460		117,387		
45	051	804			456	216	18,771	178,550	66,720		183,590	11,355	
45	053	78				21	1,812	17,232	20,944		68,151		
45	055	222			132	60	5,182	49,291	25,940		72,625	5,131	
45	057	268			132	72	6,263	59,577	20,821		75,181	2,745	
45	059	285			66	76	6,661	63,360	36,742		126,761		
45	061	91				25	2,136	20,315	13,378		119,741		
45	063	941			330	252	21,970	208,972	83,364		93,408	16,332	

To calculate allocation proportion of national emissions to county, divide number of county unit within an industry category by total (national) number of units within that category

A = Asphalt Paving: Cutback; FHWA funding

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C = Grain Elevators; Acreage farms available

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K = Aviation Gasoline Distribution: Stage I and II; Landing-TakeOffs

L = Gasoline Distribution Stage II; % Reduction applied; (see PageE2-92 for information on this reduction)

Appendix E-2. County-level Allocation Values Used for Allocation Schemes 18, 22, and 27

State FIPS	County FIPS	A	B	C	D	E	F	G	H	I	J	K	L
		1000dollars	1000barrels	acres	beds	cremations	gallons	people	10E+6VMT	tires	acres	LTOs	%Red. Appl.
45	065	43				12	1,010	9,606	2,778		20,306		
45	067	155			132	42	3,624	34,475	10,601		80,158	1,402	
45	069	133			66	36	3,101	29,492	8,981		116,548	701	
45	071	155			66	42	3,615	34,385	22,799		94,597	1,962	
45	073	293			132	79	6,842	65,081	23,827		66,497	1,121	
45	075	394			330	106	9,201	87,519	47,175		271,709	3,645	
45	077	487			132	131	11,367	108,126	34,091		46,862	7,065	
45	079	1,383			1,828	371	32,305	307,279	115,394		56,579	6,869	
45	081	76				21	1,785	16,983	5,334		111,376		
45	083	1,124			1,520	301	26,245	249,636	113,937		106,937	14,559	
45	085	506			330	136	11,818	112,412	38,146		139,411	4,766	
45	087	137			66	37	3,191	30,356	9,789		53,142		
45	089	166				44	3,873	36,840	13,051		189,415		
45	091	712			330	191	16,630	158,180	58,220		115,420		
46	003	34		342,846		4	798	3,005	3,233		342,846		
46	005	189		707,461	62	20	4,418	16,637	3,669		707,461	5,441	
46	007	38		797,299	31	4	879	3,311	1,448		797,299		
46	009	82		310,703	31	9	1,908	7,185	3,263		310,703		
46	011	295		407,595	62	32	6,885	25,931	8,684		407,595	1,149	
46	013	401		1,069,597	313	43	9,355	35,231	7,741		1,069,597	5,570	
46	015	63		460,707	31	7	1,461	5,503	4,510		460,707		
46	017	20		302,077		2	471	1,773	389		302,077		
46	019	100		1,165,934		11	2,327	8,763	1,806		1,165,934	392	
46	021	21		395,572		2	490	1,847	754		395,572		
46	023	105		679,852	76	11	2,441	9,192	4,207		679,852		
46	025	49		514,048		5	1,139	4,291	1,911		514,048		
46	027	149		225,902	31	16	3,481	13,109	2,486		225,902	1,682	
46	029	288		384,527	125	31	6,732	25,353	7,718		384,527	841	
46	031	47		1,604,504		5	1,090	4,104	1,819		1,604,504		
46	033	80		476,498		9	1,865	7,025	3,189		476,498		
46	035	203		274,474	125	22	4,742	17,858	5,007		274,474	2,075	
46	037	70		536,160	12	8	1,639	6,171	2,791		536,160		
46	039	51		310,529	12	5	1,182	4,451	3,612		310,529		
46	041	68		1,850,727	12	7	1,594	6,002	2,703		1,850,727		
46	043	40		246,947	12	4	931	3,507	879		246,947		

To calculate allocation proportion of national emissions to county, divide number of county unit within an industry category by total (national) number of units within that category

A = Asphalt Paving: Cutback; FHWA funding

B = Drum and Barrel Reclamation; 55-gallon barrels reclaimed

C = Grain Elevators; Acreage farms available

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K = Aviation Gasoline Distribution: Stage I and II; Landing-TakeOffs

L = Gasoline Distribution Stage II; % Reduction applied; (see PageE2-92 for information on this reduction)

Appendix E-2. County-level Allocation Values Used for Allocation Schemes 18, 22, and 27

State FIPS	County FIPS	A	B	C	D	E	F	G	H	I	J	K	L
		1000dollars	1000barrels	acres	beds	cremations	gallons	people	10E+6VMT	tires	acres	LTOs	%Red. Appl.
46	045	48		635,324	12	5	1,113	4,191	1,862		635,324		
46	047	78		978,000	313	8	1,812	6,823	1,244		978,000		
46	049	28		571,356	12	3	664	2,500	1,060		571,356		
46	051	90		359,043	31	10	2,112	7,952	2,968		359,043		
46	053	56		565,516	31	6	1,303	4,909	2,199		565,516		
46	055	26		1,325,137	12	3	614	2,314	971		1,325,137	2,537	
46	057	62		278,763		7	1,438	5,414	3,004		278,763		
46	059	47		811,273	12	5	1,100	4,141	1,839		811,273	1,248	
46	061	34		231,423		4	800	3,014	2,652		231,423		
46	063	16		1,702,146		2	385	1,450	560		1,702,146		
46	065	176		391,370	62	19	4,103	15,453	2,365		391,370	4,766	
46	067	92		479,439	62	10	2,142	8,065	3,676		479,439		
46	069	18		532,207		2	421	1,585	616		532,207		
46	071	34		1,354,471		4	783	2,949	6,488		1,354,471		
46	073	24		346,432	12	3	565	2,127	489		346,432		
46	075	14		588,702		1	320	1,204	4,146		588,702		
46	077	65		480,507	12	7	1,523	5,735	2,578		480,507		
46	079	121		307,210	31	13	2,837	10,685	2,619		307,210	1,850	
46	081	243		171,380	62	26	5,674	21,369	8,757		171,380	2,495	
46	083	246		318,707	12	27	5,751	21,660	10,633		318,707		
46	085	43		943,644		5	1,005	3,783	7,094		943,644		
46	087	63		312,485		7	1,475	5,556	4,971		312,485		
46	089	31		569,047	12	3	715	2,693	648		569,047		
46	091	51		504,858	12	6	1,201	4,522	1,166		504,858	280	
46	093	243		2,074,294	313	26	5,684	21,405	9,063		2,074,294		
46	095	23		654,597		3	542	2,043	839		654,597		
46	097	31		280,289		3	713	2,684	1,143		280,289		
46	099	1,624		406,280	1,962	175	37,923	142,821	38,381		406,280	11,043	
46	101	73		283,783	12	8	1,708	6,432	5,414		283,783		
46	103	1,002		1,043,959	626	108	23,398	88,117	30,842		1,043,959	6,071	
46	105	39		1,705,233		4	920	3,466	1,520		1,705,233		
46	107	32		530,038	12	3	754	2,838	1,215		530,038		
46	109	111		570,758	31	12	2,603	9,804	9,327		570,758		
46	111	30		346,524		3	712	2,680	1,141		346,524		
46	113	142		1,474,029	31	15	3,311	12,468	4,241		1,474,029		

To calculate allocation proportion of national emissions to county, divide number of county unit within an industry category by total (national) number of units within that category

A = Asphalt Paving: Cutback; FHWA funding

B = Drum and Barrel Reclamation; 55-gallon barrels reclaimed

C = Grain Elevators; Acreage farms available

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K = Aviation Gasoline Distribution: Stage I and II; Landing-TakeOffs

L = Gasoline Distribution Stage II; % Reduction applied; (see PageE2-92 for information on this reduction)

Appendix E-2. County-level Allocation Values Used for Allocation Schemes 18, 22, and 27

State FIPS	County FIPS	A	B	C	D	E	F	G	H	I	J	K	L
		1000dollars	1000barrels	acres	beds	cremations	gallons	people	10E+6VMT	tires	acres	LTOs	%Red. Appl.
46	115	85		849,345	12	9	1,974	7,433	2,246		849,345		
46	117	33		895,781		4	769	2,895	1,216		895,781		
46	119	17		599,047		2	394	1,485	453		599,047		
46	121	108		1,084,351	31	12	2,521	9,496	3,390		1,084,351		
46	123	75		930,351	31	8	1,758	6,622	1,527		930,351		
46	125	98		352,353	31	11	2,299	8,660	2,295		352,353		
46	127	142		254,028		15	3,312	12,472	10,112		254,028		
46	129	64		437,312	31	7	1,491	5,614	920		437,312	2,047	
46	135	241		261,071	125	26	5,627	21,190	4,881		261,071	1,682	
46	137	25		1,499,058		3	575	2,165	900		1,499,058		
47	001				393	44	6,785	71,004	28,270		40,928		
47	003				78	22	3,335	34,905	10,745		207,434	875	
47	005				39	10	1,576	16,497	7,910		68,931	1,217	
47	007				39	7	1,046	10,945	3,520		95,876		
47	009				393	64	9,822	102,785	38,442		93,209	14,561	
47	011				393	52	8,039	84,126	35,242		90,067	614	
47	013				157	24	3,676	38,466	25,877		30,683	224	
47	015				39	8	1,170	12,248	3,954		102,762		
47	017				78	18	2,814	29,450	9,353		171,660		
47	019				78	33	5,093	53,299	17,308		38,894		
47	021					23	3,452	36,128	12,606		68,158		
47	023					9	1,420	14,859	3,198		73,112		
47	025				78	19	2,843	29,747	8,870		143,971		
47	027				39	5	695	7,268	2,302		71,606		
47	029				78	20	3,086	32,291	16,960		75,222		
47	031				78	29	4,430	46,355	26,842		135,615	813	
47	033					9	1,345	14,077	4,566		150,600		
47	035				157	28	4,331	45,326	29,469		100,352	4,194	
47	037				4,913	330	50,650	530,050	262,258		52,248	24,728	86
47	039				39	7	1,031	10,788	5,899		88,399	561	
47	041				39	10	1,546	16,174	2,844		99,160	561	
47	043				157	27	4,111	43,017	18,439		148,565	1,542	
47	045				78	23	3,509	36,725	18,686		234,181	3,084	
47	047				39	20	3,004	31,441	17,278		270,666	1,255	
47	049				78	10	1,563	16,357	5,327		70,174	757	

To calculate allocation proportion of national emissions to county, divide number of county unit within an industry category by total (national) number of units within that category

A = Asphalt Paving: Cutback; FHWA funding

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C = Grain Elevators; Acreage farms available

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F = Surface Coating: Traffic Markings; Gallons of paint

G = Multiple; Number of people

H = Gasoline Distribution Stage I and II; Vehicle Miles Travelled (VMT)

I = Open Burning: Scrap Tires; Number of tires burned

J = Pesticide Application; Acreage farms available

K = Aviation Gasoline Distribution: Stage I and II; Landing-TakeOffs

L = Gasoline Distribution Stage II; % Reduction applied; (see PageE2-92 for information on this reduction)

Appendix E-2. County-level Allocation Values Used for Allocation Schemes 18, 22, and 27

State FIPS	County FIPS	A	B	C	D	E	F	G	H	I	J	K	L
		1000dollars	1000barrels	acres	beds	cremations	gallons	people	10E+6VMT	tires	acres	LTOs	%Red. Appl.
47	051				78	24	3,615	37,826	11,969		131,976	505	
47	053					30	4,590	48,030	14,591		278,080	1,346	
47	055				39	18	2,775	29,036	18,669		249,257	617	
47	057					13	1,932	20,219	6,602		96,842		
47	059				157	38	5,819	60,900	33,210		225,676	4,486	
47	061					9	1,342	14,046	7,696		36,274		
47	063				393	34	5,179	54,201	20,901		51,996	6,061	
47	065	22,436			1,630	184	28,163	294,720	125,797		56,822	13,165	
47	067					4	647	6,767	1,483		67,844		
47	069				16	15	2,336	24,451	7,609		166,241	168	
47	071				78	16	2,413	25,247	7,823		115,598	1,065	
47	073				39	31	4,788	50,109	15,444		146,888	2,103	
47	075				39	12	1,855	19,416	15,174		211,984		
47	077				39	15	2,367	24,767	18,348		152,034	3,364	
47	079				78	19	2,875	30,091	9,281		185,304	2,243	
47	081				39	13	2,034	21,283	10,197		127,829	701	
47	083				16	5	754	7,888	1,752		48,735		
47	085				39	11	1,643	17,192	9,169		121,983	1,906	
47	087					6	921	9,643	2,168		83,243		
47	089				39	28	4,310	45,104	22,710		98,067		
47	091					10	1,599	16,736	5,451		49,475		
47	093				2,879	234	35,933	376,039	166,812		87,809	9,016	
47	095					5	777	8,131	1,812		89,635		
47	097				39	15	2,316	24,234	7,529		192,010		
47	099				39	25	3,787	39,626	12,377		214,001	2,422	
47	101					7	1,063	11,127	1,613		36,801		
47	103				78	19	2,845	29,773	9,329		276,119	2,145	
47	105				39	25	3,812	39,892	23,224		73,976		
47	107				157	29	4,433	46,395	25,168		127,322	3,364	
47	109				39	15	2,323	24,312	6,726		130,146	1,015	
47	111				39	12	1,772	18,542	4,788		135,028	1,535	
47	113				786	54	8,290	86,752	42,112		145,586	3,936	
47	115				39	17	2,571	26,907	20,791		51,060	2,321	
47	117				16	16	2,525	26,423	12,083		166,840	1,402	
47	119				393	44	6,731	70,440	30,942		242,575	3,140	

To calculate allocation proportion of national emissions to county, divide number of county unit within an industry category by total (national) number of units within that category

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K = Aviation Gasoline Distribution: Stage I and II; Landing-TakeOffs

L = Gasoline Distribution Stage II; % Reduction applied; (see PageE2-92 for information on this reduction)

Appendix E-2. County-level Allocation Values Used for Allocation Schemes 18, 22, and 27

State FIPS	County FIPS	A	B	C	D	E	F	G	H	I	J	K	L
		1000dollars	1000barrels	acres	beds	cremations	gallons	people	10E+6VMT	tires	acres	LTOs	%Red. Appl.
47	121					6	968	10,134	3,254		48,977		
47	123				78	22	3,400	35,576	14,282		96,929	2,888	
47	125				157	81	12,366	129,411	42,151		164,575	5,747	
47	127					3	491	5,140	982		52,065		
47	129					12	1,786	18,689	6,076		45,997	841	
47	131				78	20	3,081	32,240	9,825		242,251	3,308	
47	133				39	12	1,878	19,654	5,160		109,404	1,841	
47	135				16	5	722	7,560	1,676		54,390		
47	137					3	450	4,711	1,448		37,499		
47	139				39	9	1,442	15,094	4,905		32,122		
47	141				393	37	5,708	59,735	34,361		112,122		
47	143				39	18	2,687	28,116	8,803		56,049	1,430	
47	145				78	31	4,779	50,008	25,134		53,110		
47	147				78	34	5,242	54,861	29,170		236,385	1,514	
47	149				786	107	16,379	171,401	68,438		195,295	10,894	86
47	151				39	13	1,934	20,239	5,467		29,746	911	
47	153					7	1,036	10,846	2,137		25,557		
47	155				78	41	6,286	65,783	23,089		71,677		
47	157				4,933	544	83,422	873,000	291,740		128,132	20,722	86
47	159				78	10	1,603	16,771	11,236		138,256		
47	161				3	7	1,124	11,759	3,788		56,517		
47	163				786	94	14,356	150,231	62,429		86,402	11,381	
47	165				274	79	12,041	126,009	47,649		181,570	2,047	86
47	167				78	30	4,620	48,348	15,388		169,788	2,635	
47	169				16	4	666	6,971	2,197		51,638		
47	171				39	11	1,654	17,310	4,524		7,501		
47	173					10	1,585	16,584	3,785		51,290		
47	175					3	479	5,008	1,545		31,675		
47	177				78	23	3,480	36,421	11,276		162,041	2,159	
47	179				786	64	9,825	102,814	41,015		119,670		
47	181				3	10	1,568	16,413	5,345		130,012		
47	183				78	21	3,149	32,952	10,292		222,524		
47	185				39	14	2,185	22,864	5,911		119,077	1,166	
47	187				157	77	11,829	123,793	46,359		197,934		86
47	189				16	54	8,265	86,496	35,874		210,657	2,523	86

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Appendix E-2. County-level Allocation Values Used for Allocation Schemes 18, 22, and 27

State FIPS	County FIPS	A	B	C	D	E	F	G	H	I	J	K	L
		1000dollars	1000barrels	acres	beds	cremations	gallons	people	10E+6VMT	tires	acres	LTOs	%Red. Appl.
48	001	786		353,969	167	55	18,352	52,209	19,514		353,969	897	
48	003	207		828,859	42	15	4,829	13,738	3,307		828,859	561	
48	005	1,168		117,920	418	82	27,272	77,587	26,032		117,920	3,645	
48	007	348		18,758		25	8,130	23,129	6,174		18,758	9,252	
48	009	124		610,877		9	2,902	8,256	3,585		610,877		
48	011	33		560,412		2	772	2,196	749		560,412		
48	013	564		708,067	84	40	13,161	37,442	18,509		708,067	561	
48	015	359		367,432	42	25	8,381	23,843	9,676		367,432		
48	017	101		408,936	42	7	2,361	6,717	1,162		408,936		
48	019	250		364,190		18	5,839	16,611	5,250		364,190		
48	021	791		392,255	84	56	18,475	52,561	16,713		392,255		
48	023	62		377,871	42	4	1,437	4,088	473		377,871		
48	025	414		421,287	84	29	9,678	27,534	8,726		421,287	589	
48	027	3,351		406,772	2,844	236	78,275	222,687	76,455		406,772	15,269	
48	029	20,662		447,824	6,175	1,455	482,567	1,372,867	439,198		447,824	42,162	
48	031	128		381,412		9	2,992	8,511	4,138		381,412		
48	033	12		514,623		1	270	769	169		514,623		
48	035	251		548,359	42	18	5,870	16,699	6,586		548,359		
48	037	1,257		280,762	704	88	29,354	83,509	44,158		280,762		
48	039	3,526		566,809	249	248	82,358	234,303	73,788		566,809	6,308	95
48	041	2,020		265,163	418	142	47,176	134,213	42,593		265,163	10,510	
48	043	132		2,396,979	42	9	3,091	8,793	1,740		2,396,979	1,234	
48	045	27		533,084		2	641	1,825	494		533,084		
48	047	127		458,487		9	2,958	8,416	2,050		458,487	1,262	
48	049	555		516,058	167	39	12,952	36,847	11,788		516,058	901	
48	051	235		321,657	17	17	5,488	15,614	5,989		321,657		
48	053	514		537,198	3	36	11,993	34,120	11,769		537,198		
48	055	494		265,269	42	35	11,536	32,820	11,770		265,269	1,065	
48	057	307		213,390	84	22	7,180	20,426	6,507		213,390	841	
48	059	194		488,662		14	4,540	12,915	10,618		488,662		
48	061	4,953		368,528	1,123	349	115,691	329,131	81,841		368,528	9,665	
48	063	165		63,021	42	12	3,846	10,943	3,260		63,021		
48	065	102		467,605		7	2,374	6,754	10,939		467,605		
48	067	461		170,684	91	32	10,763	30,620	13,084		170,684	757	
48	069	124		558,662	42	9	2,905	8,264	2,125		558,662		

To calculate allocation proportion of national emissions to county, divide number of county unit within an industry category by total (national) number of units within that category

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Appendix E-2. County-level Allocation Values Used for Allocation Schemes 18, 22, and 27

State FIPS	County FIPS	A	B	C	D	E	F	G	H	I	J	K	L
		1000dollars	1000barrels	acres	beds	cremations	gallons	people	10E+6VMT	tires	acres	LTOs	%Red. Appl.
48	071	361		241,933	84	25	8,434	23,993	19,153		241,933	561	95
48	073	657		283,241	84	46	15,344	43,653	15,682		283,241	1,206	
48	075	114		393,162	42	8	2,651	7,543	1,456		393,162		
48	077	158		603,652	17	11	3,695	10,511	3,688		603,652		
48	079	57		402,071	17	4	1,329	3,781	309		402,071		
48	081	50		482,480		4	1,178	3,351	1,555		482,480		
48	083	142		736,739	42	10	3,319	9,443	2,787		736,739	729	
48	085	6,872		270,434	693	484	160,501	456,612	110,763		270,434	13,945	95
48	087	48		488,382	17	3	1,115	3,172	921		488,382		
48	089	287		520,627	100	20	6,697	19,052	11,833		520,627	336	
48	091	1,155		183,241	167	81	26,985	76,770	26,669		183,241		
48	093	204		535,278	42	14	4,775	13,584	4,718		535,278		
48	095	45		635,584	17	3	1,055	3,002	1,382		635,584		
48	097	503		478,860	84	35	11,737	33,391	14,394		478,860	1,598	
48	099	1,108		646,407	84	78	25,881	73,629	14,282		646,407		
48	101	28		506,868		2	664	1,889	510		506,868		
48	103	65		491,112	17	5	1,508	4,290	679		491,112		
48	105	66		1,935,171		5	1,545	4,396	13,324		1,935,171		
48	107	106		562,839	17	7	2,480	7,056	3,399		562,839		
48	109	45		1,569,227	17	3	1,061	3,018	10,967		1,569,227	56	
48	111	100		931,529		7	2,329	6,627	1,506		931,529		
48	113	31,035		148,862	10,273	2,185	724,835	2,062,100	849,210		148,862	91,926	95
48	115	217		605,260	42	15	5,076	14,442	3,443		605,260	1,346	
48	117	283		879,692	42	20	6,608	18,800	4,953		879,692	757	
48	119	75		120,136		5	1,748	4,973	2,374		120,136		
48	121	6,081		362,712	571	428	142,033	404,074	139,974		362,712	10,237	95
48	123	290		560,093	84	20	6,775	19,275	6,474		560,093		
48	125	33		532,948		2	765	2,176	971		532,948		
48	127	156		517,641	42	11	3,638	10,349	3,093		517,641	841	
48	129	58		643,151		4	1,345	3,827	2,834		643,151	224	
48	131	205		844,195		14	4,797	13,647	2,230		844,195		
48	133	263		497,171	42	19	6,147	17,489	13,861		497,171	785	
48	135	1,862		462,315	418	131	43,498	123,748	36,176		462,315		
48	137	55		1,141,833		4	1,289	3,668	1,714		1,141,833		
48	139	1,619		425,717	167	114	37,815	107,580	53,739		425,717	1,253	

To calculate allocation proportion of national emissions to county, divide number of county unit within an industry category by total (national) number of units within that category

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Appendix E-2. County-level Allocation Values Used for Allocation Schemes 18, 22, and 27

State FIPS	County FIPS	A	B	C	D	E	F	G	H	I	J	K	L
		1000dollars	1000barrels	acres	beds	cremations	gallons	people	10E+6VMT	tires	acres	LTOs	%Red. Appl.
48	141	10,564		243,684	2,253	744	246,723	701,908	170,136		243,684	15,093	95
48	143	474		613,323	84	33	11,061	31,469	10,829		613,323	673	
48	145	260		362,205	42	18	6,068	17,263	7,010		362,205		
48	147	432		444,661	167	30	10,080	28,677	11,626		444,661	533	
48	149	322		515,108	42	23	7,519	21,390	14,218		515,108	421	
48	151	63		575,095	17	4	1,473	4,190	1,253		575,095		
48	153	122		555,923	17	9	2,851	8,112	1,413		555,923		
48	155	25		307,730	3	2	573	1,631	432		307,730		
48	157	5,323		431,582	418	375	124,326	353,697	104,139		431,582	18,724	95
48	159	150		134,979	17	11	3,496	9,945	7,107		134,979		
48	161	266		422,548	17	19	6,203	17,647	13,203		422,548		
48	163	240		662,124	42	17	5,595	15,918	12,050		662,124		
48	165	222		772,172	42	16	5,191	14,767	4,994		772,172	1,346	
48	167	3,739		104,941	1,847	263	87,338	248,469	79,032		104,941	7,429	95
48	169	68		514,384		5	1,587	4,515	568		514,384		
48	171	307		693,933	84	22	7,169	20,396	8,759		693,933	841	
48	173	22		436,528		2	507	1,443	598		436,528		
48	175	107		433,568		8	2,504	7,125	3,447		433,568		
48	177	264		709,657	42	19	6,173	17,561	11,843		709,657		
48	179	351		560,796	42	25	8,190	23,299	11,568		560,796	987	
48	181	1,561		417,356	588	110	36,461	103,728	45,260		417,356	3,420	
48	183	1,703		51,388	630	120	39,774	113,155	41,667		51,388	10,319	
48	185	362		370,308	17	25	8,448	24,033	9,415		370,308		
48	187	1,246		347,763	167	88	29,107	82,808	37,876		347,763		
48	189	549		586,515	84	39	12,827	36,491	17,622		586,515	5,831	
48	191	54		447,833	17	4	1,263	3,594	1,678		447,833		
48	193	115		465,847	17	8	2,675	7,609	2,314		465,847	364	
48	195	81		582,092	42	6	1,898	5,399	758		582,092	729	
48	197	66		322,727	17	5	1,543	4,389	572		322,727		
48	199	748		65,442	42	53	17,464	49,684	20,208		65,442	336	95
48	201	48,919		311,005	11,147	3,444	1,142,527	3,250,404	1,128,229		311,005	106,776	95
48	203	900		214,495	167	63	21,019	59,797	32,440		214,495	1,093	
48	205	79		822,989	42	6	1,854	5,274	1,351		822,989	2,243	
48	207	90		468,937	17	6	2,098	5,970	1,464		468,937	785	
48	209	1,396		298,493	84	98	32,604	92,755	39,144		298,493		

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State FIPS	County FIPS	A	B	C	D	E	F	G	H	I	J	K	L
		1000dollars	1000barrels	acres	beds	cremations	gallons	people	10E+6VMT	tires	acres	LTOs	%Red. Appl.
48	211	52		623,614	17	4	1,220	3,471	1,612		623,614	449	
48	213	1,064		367,096	84	75	24,842	70,673	29,472		367,096	449	
48	215	8,050		635,884	1,292	567	188,022	534,907	157,161		635,884	13,160	
48	217	467		463,925	84	33	10,918	31,060	21,016		463,925		
48	219	352		571,521	42	25	8,216	23,374	7,054		571,521	1,738	
48	221	583		225,450	84	41	13,621	38,750	12,931		225,450	1,206	
48	223	461		386,460	84	32	10,761	30,614	15,190		386,460	897	
48	225	334		440,228	42	24	7,811	22,223	8,543		440,228		
48	227	477		543,576	167	34	11,138	31,687	16,726		543,576		
48	229	49		2,502,799		3	1,138	3,238	19,284		2,502,799		
48	231	1,079		353,410	167	76	25,209	71,717	32,973		353,410	2,538	
48	233	357		400,166	42	25	8,334	23,711	6,908		400,166	785	
48	235	25		651,708		2	595	1,693	445		651,708		
48	237	113		531,787	17	8	2,630	7,481	1,925		531,787		
48	239	205		462,927	42	14	4,797	13,648	4,787		462,927	1,093	
48	241	504		87,079	84	35	11,773	33,494	14,110		87,079	785	
48	243	36		1,481,660		3	849	2,415	2,385		1,481,660		
48	245	3,632		433,597	1,408	256	84,829	241,332	87,055		433,597	7,080	95
48	247	75		768,209		5	1,748	4,972	263		768,209		
48	249	605		496,317	84	43	14,135	40,212	11,677		496,317	3,050	
48	251	1,845		332,844	167	130	43,092	122,594	52,505		332,844	2,776	
48	253	284		459,379	86	20	6,624	18,846	5,030		459,379	1,458	
48	255	227		417,146	17	16	5,312	15,112	2,408		417,146	1,728	
48	257	1,024		388,830	167	72	23,925	68,065	33,347		388,830	2,383	
48	259	329		325,412		23	7,686	21,865	10,717		325,412		
48	261	7		562,932		1	153	436	64		562,932		
48	263	13		560,952		1	300	854	186		560,952		
48	265	651		547,882	418	46	15,197	43,234	21,384		547,882	5,439	
48	267	64		773,046	17	4	1,490	4,238	11,566		773,046	925	
48	269	5				1	112	318	97				
48	271	52		628,811		4	1,218	3,465	1,238		628,811		
48	273	447			167	31	10,433	29,680	6,505			869	
48	275	62		658,161	17	4	1,443	4,104	1,482		658,161		
48	277	693		431,136	418	49	16,187	46,050	12,049		431,136	2,103	
48	279	222		539,395	42	16	5,190	14,765	5,089		539,395	421	

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L = Gasoline Distribution Stage II; % Reduction applied; (see PageE2-92 for information on this reduction)

Appendix E-2. County-level Allocation Values Used for Allocation Schemes 18, 22, and 27

State FIPS	County FIPS	A	B	C	D	E	F	G	H	I	J	K	L
		1000dollars	1000barrels	acres	beds	cremations	gallons	people	10E+6VMT	tires	acres	LTOs	%Red. Appl.
48	281	266		434,737		19	6,222	17,700	5,898		434,737	561	
48	283	90		526,978		6	2,106	5,992	11,295		526,978	701	
48	285	285		526,067	84	20	6,648	18,912	4,970		526,067		
48	287	224		344,475		16	5,227	14,871	5,095		344,475		
48	289	224		514,724	3	16	5,227	14,870	14,365		514,724		
48	291	1,011		306,783	84	71	23,607	67,161	25,838		306,783	1,542	95
48	293	310		442,882	84	22	7,248	20,620	4,961		442,882		
48	295	45		528,762		3	1,063	3,023	1,391		528,762		
48	297	152		520,236		11	3,551	10,103	14,558		520,236		
48	299	208		532,277	42	15	4,866	13,843	2,293		532,277	673	
48	301	2		352,072		1	40	113	12		352,072		
48	303	3,430		540,880	1,673	241	80,104	227,890	82,575		540,880	9,077	
48	305	100		563,218	17	7	2,340	6,657	1,870		563,218		
48	307	132		640,593	42	9	3,094	8,802	2,222		640,593	336	
48	309	3,074		492,599	836	216	71,792	204,244	84,648		492,599	12,621	
48	311	12		520,992		1	282	801	284		520,992		
48	313	179		223,690	42	13	4,176	11,881	8,564		223,690		
48	315	166		61,981		12	3,866	10,998	5,403		61,981		
48	317	75		539,196	17	5	1,753	4,988	4,480		539,196		
48	319	55		595,265		4	1,282	3,646	1,072		595,265		
48	321	569		550,642	84	40	13,297	37,828	8,512		550,642	1,612	
48	323	732		470,270	84	52	17,097	48,639	15,074		470,270		
48	325	567		749,653	84	40	13,251	37,698	17,255		749,653	3,953	
48	327	34		495,873		2	795	2,262	627		495,873		
48	329	1,783		863,073	418	126	41,650	118,490	38,655		863,073	5,097	
48	331	366		544,780	42	26	8,542	24,302	8,222		544,780		
48	333	71		425,370		5	1,661	4,726	2,248		425,370		
48	335	132		541,253	84	9	3,087	8,782	9,712		541,253		
48	337	282		493,542	84	20	6,592	18,753	5,273		493,542	421	
48	339	4,329		193,375	418	305	101,108	287,644	126,708		193,375	6,224	95
48	341	297		555,471	84	21	6,937	19,734	4,988		555,471	308	
48	343	198		66,486		14	4,619	13,140	5,142		66,486		
48	345	20		589,947		1	463	1,317	335		589,947		
48	347	845		372,451	418	59	19,736	56,147	17,494		372,451	2,103	
48	349	630		516,395	84	44	14,718	41,872	21,111		516,395	729	

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Appendix E-2. County-level Allocation Values Used for Allocation Schemes 18, 22, and 27

State FIPS	County FIPS	A	B	C	D	E	F	G	H	I	J	K	L
		1000dollars	1000barrels	acres	beds	cremations	gallons	people	10E+6VMT	tires	acres	LTOs	%Red. Appl.
48	351	216		62,108		15	5,043	14,346	7,088		62,108		
48	353	245		520,001	84	17	5,713	16,253	11,676		520,001	1,121	
48	355	4,748		438,242	1,111	334	110,888	315,469	104,781		438,242	8,404	
48	357	131		564,316	42	9	3,052	8,683	1,519		564,316	1,290	
48	359	33		841,907		2	777	2,210	12,768		841,907		
48	361	1,283		87,871	84	90	29,962	85,240	32,747		87,871	813	95
48	363	394		524,449	84	28	9,194	26,156	11,067		524,449	2,187	
48	365	346		202,258	42	24	8,077	22,978	9,095		202,258	4,388	
48	367	1,286		479,807	84	91	30,028	85,427	43,950		479,807		
48	369	156		546,870	17	11	3,638	10,351	3,214		546,870		
48	371	242		2,943,214	42	17	5,647	16,066	29,139		2,943,214	757	
48	373	790		135,988	42	56	18,461	52,520	23,294		135,988		
48	375	1,642		449,859	1,311	116	38,351	109,107	40,690		449,859	8,491	
48	377	135		1,690,096		9	3,147	8,954	1,538		1,690,096	561	
48	379	135		94,427		9	3,148	8,957	4,367		94,427		
48	381	1,499		460,114	3	106	35,004	99,584	40,861		460,114	4,458	
48	383	58		623,807	17	4	1,359	3,865	245		623,807		
48	385	41		377,890		3	959	2,727	770		377,890		
48	387	206		444,611	42	14	4,810	13,685	3,717		444,611		
48	389	211		1,013,803	42	15	4,928	14,020	25,494		1,013,803	841	
48	391	116		550,165	17	8	2,719	7,735	2,303		550,165		
48	393	14		566,057		1	325	924	265		566,057		
48	395	237		424,700		17	5,540	15,762	5,982		424,700		
48	397	594		46,015		42	13,881	39,489	12,922		46,015	2,243	
48	399	171		581,139	42	12	3,985	11,337	2,309		581,139		
48	401	690		267,448	84	49	16,106	45,819	17,931		267,448	841	
48	403	159		25,103	17	11	3,709	10,553	5,176		25,103		
48	405	122		65,250	17	9	2,840	8,079	3,926		65,250		
48	407	339		84,620		24	7,928	22,554	11,189		84,620		
48	409	1,078		405,507	42	76	25,180	71,636	28,088		405,507	897	
48	411	87		732,874		6	2,043	5,812	1,423		732,874		
48	413	44		738,704	17	3	1,033	2,938	1,040		738,704		
48	415	266		478,576	84	19	6,204	17,649	5,122		478,576	729	
48	417	48		515,842		3	1,132	3,220	938		515,842		
48	419	341		201,427	42	24	7,974	22,685	8,855		201,427	701	

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Appendix E-2. County-level Allocation Values Used for Allocation Schemes 18, 22, and 27

State FIPS	County FIPS	A	B	C	D	E	F	G	H	I	J	K	L
		1000dollars	1000barrels	acres	beds	cremations	gallons	people	10E+6VMT	tires	acres	LTOs	%Red. Appl.
48	421	44		607,148		3	1,019	2,898	1,024		607,148		
48	423	2,554		250,855	1,398	180	59,648	169,693	80,346		250,855	13,788	
48	425	100		71,694	42	7	2,325	6,615	2,451		71,694		
48	427	851		636,083	42	60	19,887	56,577	19,892		636,083		
48	429	147		464,737	42	10	3,423	9,737	2,022		464,737	1,850	
48	431	20		705,614		1	467	1,328	526		705,614		
48	433	26		483,523	17	2	603	1,715	459		483,523		
48	435	65		924,748	17	5	1,515	4,309	13,779		924,748		
48	437	124		515,910	17	9	2,904	8,262	8,878		515,910		
48	439	20,806		184,081	5,398	1,465	485,933	1,382,442	535,764	40	184,081	85,129	95
48	441	1,843		491,840	873	130	43,051	122,478	47,407		491,840	6,979	
48	443	18		1,290,770		1	423	1,202	480		1,290,770		
48	445	192		468,016	42	14	4,494	12,786	3,162		468,016	1,177	
48	447	26		562,070	17	2	596	1,695	732		562,070		
48	449	381		174,394	167	27	8,908	25,343	13,558		174,394	785	
48	451	1,540		958,722	418	108	35,959	102,300	27,047		958,722	6,367	
48	453	10,942		396,165	1,673	770	255,551	727,022	249,754		396,165	32,389	
48	455	191		98,748	42	13	4,469	12,713	3,091		98,748		
48	457	308		53,225	42	22	7,204	20,495	8,626		53,225		
48	459	550		175,297		39	12,844	36,541	14,774		175,297	617	
48	461	53		746,269	42	4	1,249	3,552	1,043		746,269		
48	463	391		942,604	84	28	9,140	26,002	7,422		942,604	2,531	
48	465	665		1,748,028	84	47	15,532	44,188	9,768		1,748,028	1,962	
48	467	676		360,888	17	48	15,784	44,905	19,024		360,888		
48	469	1,235		458,111	502	87	28,854	82,087	26,074		458,111	4,487	
48	471	828		183,988	84	58	19,328	54,988	22,648		183,988		
48	473	422		238,110		30	9,867	28,070	11,150		238,110		95
48	475	173		363,034	42	12	4,042	11,498	11,711		363,034		
48	477	438		336,197	84	31	10,226	29,091	10,376		336,197	673	
48	479	2,907		2,176,046	533	205	67,903	193,180	45,239		2,176,046	6,566	
48	481	606		679,275	42	43	14,160	40,285	13,524		679,275	813	
48	483	80		514,280	42	6	1,870	5,320	9,112		514,280		
48	485	1,930		338,624	769	136	45,076	128,237	39,801		338,624	7,396	
48	487	211		883,781	42	15	4,933	14,035	3,453		883,781	981	
48	489	296		286,352		21	6,907	19,650	6,631		286,352		

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Appendix E-2. County-level Allocation Values Used for Allocation Schemes 18, 22, and 27

State FIPS	County FIPS	A	B	C	D	E	F	G	H	I	J	K	L
		1000dollars	1000barrels	acres	beds	cremations	gallons	people	10E+6VMT	tires	acres	LTOs	%Red. Appl.
48	491	3,625		538,130	256	255	84,674	240,892	79,262		538,130	869	
48	493	489		445,798	42	34	11,425	32,504	13,619		445,798		
48	495	117		487,734	17	8	2,725	7,752	1,366		487,734	645	
48	497	703		411,737	84	49	16,418	46,709	13,739		411,737	2,327	
48	499	518		214,656	42	36	12,107	34,443	13,579		214,656	280	
48	501	118		343,095	17	8	2,745	7,809	1,299		343,095		
48	503	264		553,406	84	19	6,169	17,551	4,593		553,406	2,411	
48	505	172		403,273		12	4,020	11,436	2,605		403,273		
48	507	179		590,746		13	4,179	11,889	2,442		590,746		
49	001	93			30	6	2,162	6,006	7,123			1,262	
49	003	659			61	43	15,398	42,782	30,242			2,103	
49	005	1,346			122	87	31,431	87,328	26,314			3,252	
49	007	322			30	21	7,522	20,898	11,812			2,804	
49	009	11				1	258	717	725				
49	011	3,689			205	239	86,152	239,364	70,665				95
49	013	227			61	15	5,312	14,759	6,252			1,121	
49	015	170				11	3,978	11,052	11,835				
49	017	66			12	4	1,543	4,286	4,470				
49	019	126			30	8	2,949	8,193	9,475				
49	021	454			61	29	10,599	29,449	18,967			4,346	
49	023	120			12	8	2,805	7,794	11,485				
49	025	95			30	6	2,215	6,154	4,205				
49	027	191			30	12	4,470	12,420	14,196			561	
49	029	111				7	2,593	7,204	3,883				
49	031	23				1	534	1,484	972				
49	033	30				2	690	1,918	1,490				
49	035	13,103			2,721	848	306,019	850,243	251,418			21,717	95
49	037	210			30	14	4,896	13,603	8,818			2,355	
49	039	340			61	22	7,939	22,059	7,918				
49	041	287			30	19	6,711	18,645	12,871				
49	043	427				28	9,967	27,692	20,306				
49	045	552			30	36	12,885	35,801	21,877			3,673	
49	047	400			30	26	9,343	25,959	9,289			4,009	
49	049	5,347			657	346	124,891	346,997	101,948			14,018	
49	051	212			12	14	4,955	13,767	8,291				

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		1000dollars	1000barrels	acres	beds	cremations	gallons	people	10E+6VMT	tires	acres	LTOs	%Red. Appl.
49	053	1,316			122	85	30,739	85,406	28,690			4,205	
49	055	37				2	859	2,387	1,326				
49	057	2,858			612	185	66,754	185,469	51,606			11,233	
50	001	1,042			65	121	24,328	35,440	11,321				
50	003	1,057			129	123	24,689	35,965	11,666			56	
50	005	847			65	98	19,785	28,821	16,656			280	
50	007	4,231			647	491	98,814	143,947	59,193			9,101	
50	009	195				23	4,561	6,644	1,924				
50	011	1,306			65	152	30,500	44,431	17,142			785	
50	013	187				22	4,373	6,370	1,844				
50	015	645			65	75	15,058	21,935	4,826			701	
50	017	819			65	95	19,132	27,871	13,465				
50	019	749			65	87	17,502	25,496	9,022			409	
50	021	1,834			323	213	42,840	62,407	20,548			3,856	
50	023	1,654			129	192	38,640	56,289	22,831			3,645	
50	025	1,254			65	146	29,291	42,670	19,855				
50	027	1,630			265	189	38,067	55,454	26,260			701	
51	001	151		92,452		46	3,533	32,121	9,459			1,303	
51	003	377		172,251		114	8,815	80,145	30,874			9,810	
51	005	57		31,063	82	17	1,337	12,152	20,448				
51	007	50		78,483		15	1,166	10,601	3,422				
51	009	143		92,720		43	3,338	30,351	11,404				
51	011	63		76,643		19	1,465	13,317	5,626				
51	013	823			643	249	19,231	174,848	62,856			16,763	95
51	015	288		282,152	411	87	6,727	61,166	29,996			2,267	
51	017	23		58,271	16	7	542	4,926	1,265			1,121	
51	019	271		194,946		82	6,328	57,537	21,750				
51	021	32		83,387		10	747	6,795	11,188				
51	023	137		90,502		41	3,210	29,184	21,866				
51	025	86		79,163		26	2,017	18,340	16,863				
51	027	134		6,303	82	40	3,132	28,477	12,180				
51	029	69		75,854		21	1,623	14,754	3,954				
51	031	237		140,671		72	5,537	50,345	10,599			6,357	
51	033	104		55,403		31	2,428	22,075	16,183				
51	035	131		110,201		40	3,059	27,808	17,111			2,523	

To calculate allocation proportion of national emissions to county, divide number of county unit within an industry category by total (national) number of units within that category

A = Asphalt Paving: Cutback; FHWA funding

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K = Aviation Gasoline Distribution: Stage I and II; Landing-TakeOffs

L = Gasoline Distribution Stage II; % Reduction applied; (see PageE2-92 for information on this reduction)

Appendix E-2. County-level Allocation Values Used for Allocation Schemes 18, 22, and 27

State FIPS	County FIPS	A	B	C	D	E	F	G	H	I	J	K	L
		1000dollars	1000barrels	acres	beds	cremations	gallons	people	10E+6VMT	tires	acres	LTOs	%Red. Appl.
51	036	34				10	796	7,240	1,944				95
51	037	58		131,587		18	1,365	12,414	5,239				
51	041	1,193		20,151		360	27,867	253,365	94,713			2,804	95
51	043	60		71,423		18	1,412	12,838	4,067				
51	045	23		45,684		7	544	4,942	763				
51	047	158		114,926	164	48	3,691	33,562	11,868			87	
51	049	37		61,048		11	866	7,876	1,977			701	
51	051	79		9,056	41	24	1,839	16,716	4,489				
51	053	121		89,260		36	2,823	25,663	14,739			4,486	
51	057	43		61,538	82	13	1,003	9,121	2,934				
51	059	4,454		12,313	411	1,344	104,017	945,717	295,526				95
51	061	260		239,034	164	78	6,072	55,206	31,068			3,084	
51	063	62		122,613		19	1,458	13,260	3,534				
51	065	92		58,911		28	2,158	19,622	5,925				
51	067	213		158,735		64	4,974	45,220	18,118				
51	069	266		99,926		80	6,220	56,555	28,626			10,219	
51	071	77		67,245	41	23	1,794	16,315	6,928				
51	073	167		23,211	82	50	3,900	35,463	11,998				
51	075	83		46,789		25	1,941	17,651	17,151				
51	077	77		136,312		23	1,809	16,451	4,417				
51	079	69		33,679		21	1,615	14,685	6,224				
51	081	53		58,342		16	1,246	11,332	9,097			1,402	
51	083	174		227,816	164	52	4,061	36,920	14,155			1,402	
51	085	402		98,201	164	121	9,394	85,410	36,994			3,925	95
51	087	1,152		26,403	941	348	26,909	244,652	79,939			9,422	95
51	089	262		48,430		79	6,119	55,634	19,654			1,962	
51	091	12		91,342		4	273	2,480	584				
51	093	140		88,030		42	3,259	29,632	10,807			981	
51	095	216		8,861		65	5,053	45,945	14,571			1,721	
51	097	31		50,823		9	719	6,540	2,706			421	
51	099	83		34,180		25	1,945	17,681	7,513				
51	101	61		56,169		19	1,435	13,048	4,066				
51	103	53		17,199	82	16	1,248	11,349	3,002				
51	105	112		127,420	164	34	2,620	23,821	10,168			421	
51	107	736		184,988	164	222	17,189	156,284	39,145			19,492	95

To calculate allocation proportion of national emissions to county, divide number of county unit within an industry category by total (national) number of units within that category

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L = Gasoline Distribution Stage II; % Reduction applied; (see PageE2-92 for information on this reduction)

Appendix E-2. County-level Allocation Values Used for Allocation Schemes 18, 22, and 27

State FIPS	County FIPS	A	B	C	D	E	F	G	H	I	J	K	L
		1000dollars	1000barrels	acres	beds	cremations	gallons	people	10E+6VMT	tires	acres	LTOs	%Red. Appl.
51	109	118		79,019		36	2,753	25,029	15,895				
51	111	56		77,762		17	1,297	11,789	3,126				
51	113	59		100,016		18	1,389	12,627	5,329				
51	115	44		8,421		13	1,018	9,255	2,438				
51	117	146		166,821	164	44	3,409	30,991	20,259			634	
51	119	46		18,263		14	1,075	9,771	4,087				
51	121	363		93,074	164	109	8,469	76,997	33,339			2,271	
51	125	67		73,200		20	1,560	14,186	6,575				
51	127	62		16,392	41	19	1,454	13,218	12,279			645	
51	131	60		56,435	82	18	1,409	12,810	4,160				
51	133	55		38,151		17	1,283	11,668	4,907				
51	135	72		69,190		22	1,682	15,291	5,008			336	
51	137	121		101,455		37	2,833	25,759	6,386				
51	139	109		67,829	41	33	2,548	23,165	7,888			1,121	
51	141	87		74,190	41	26	2,038	18,529	4,984				
51	143	267		266,879		81	6,243	56,760	12,407				
51	145	106		43,088		32	2,465	22,409	6,053				
51	147	91		72,927	82	27	2,117	19,245	6,643				
51	149	136		44,981	41	41	3,169	28,812	15,937				
51	153	1,275		35,936	164	385	29,789	270,841	84,388				95
51	155	162		80,406	82	49	3,784	34,401	16,144			1,009	
51	157	36		72,141		11	843	7,664	3,186				
51	159	41		36,360		12	962	8,745	3,655				
51	161	382		26,688		115	8,927	81,163	22,570				
51	163	92		140,110		28	2,149	19,542	24,775				
51	165	297		230,409		90	6,938	63,078	27,928				
51	167	135		153,111	82	41	3,160	28,728	10,724				
51	169	106		137,535		32	2,475	22,506	10,649				
51	171	165		126,844	82	50	3,865	35,141	27,238				
51	173	154		125,116	164	46	3,596	32,692	17,890			2,804	
51	175	83		185,496		25	1,944	17,678	5,734				
51	177	411		47,947		124	9,609	87,361	27,938			897	
51	179	439		19,896		132	10,246	93,160	41,499				95
51	181	31		44,901		9	713	6,484	1,688				
51	183	58		81,505		18	1,358	12,345	12,880				

To calculate allocation proportion of national emissions to county, divide number of county unit within an industry category by total (national) number of units within that category

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Appendix E-2. County-level Allocation Values Used for Allocation Schemes 18, 22, and 27

State FIPS	County FIPS	A	B	C	D	E	F	G	H	I	J	K	L
		1000dollars	1000barrels	acres	beds	cremations	gallons	people	10E+6VMT	tires	acres	LTOs	%Red. Appl.
51	185	218		133,601	164	66	5,097	46,343	15,046				
51	187	144		44,784	41	44	3,368	30,620	16,721				
51	191	234		178,496	164	71	5,476	49,791	23,443			1,962	
51	193	77		62,642		23	1,788	16,259	3,550				
51	195	189		16,159	41	57	4,421	40,194	12,720			1,126	
51	197	125		139,554	82	38	2,916	26,511	23,310				
51	199	275		1,976		83	6,427	58,433	16,799			17,413	
51	510	553			411	167	12,911	117,390	40,838				95
51	515	31			82	9	734	6,676	380				
51	520	79				24	1,838	16,709	10,598				
51	530	30				9	711	6,467	643				
51	540	173			1,645	52	4,049	36,815	10,001				
51	550	955		60,667	411	288	22,301	202,759	51,843			23,101	
51	560	20				6	462	4,205	1,418				
51	570	76				23	1,786	16,235	11,087				95
51	580	32				10	753	6,846	66				
51	590	239			411	72	5,587	50,795	15,089			3,364	
51	595	27			82	8	623	5,662	1,166				
51	600	97				29	2,276	20,697	4,031				95
51	610	47			822	14	1,094	9,944	1,935				95
51	620	38			164	12	895	8,139	716				
51	630	89			411	27	2,071	18,826	6,240				
51	640	31			164	9	713	6,484	954				
51	650	646			605	195	15,090	137,193	46,904				
51	660	161			411	49	3,754	34,129	7,798				
51	670	107			164	32	2,493	22,663	15,984				95
51	678	35			82	10	809	7,359	738				
51	680	301			822	91	7,031	63,926	22,207				
51	683	158			164	48	3,684	33,498	5,756			25,611	95
51	685	37				11	868	7,891	1,310				95
51	690	71			164	21	1,649	14,996	1,439				
51	700	844			1,042	255	19,703	179,138	56,146				
51	710	1,064			1,966	321	24,843	225,875	91,853			15,311	
51	720	19			164	6	441	4,008	1,132				
51	730	162			411	49	3,783	34,398	25,916				

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State FIPS	County FIPS	A	B	C	D	E	F	G	H	I	J	K	L
		1000dollars	1000barrels	acres	beds	cremations	gallons	people	10E+6VMT	tires	acres	LTOs	%Red. Appl.
51	735	54				16	1,273	11,571	1,814				
51	740	463			822	140	10,812	98,305	36,370				
51	750	74			164	22	1,723	15,668	2,403				
51	760	893			2,956	270	20,865	189,700	75,411				95
51	770	440			822	133	10,268	93,357	33,343			7,803	
51	775	113			822	34	2,644	24,037	7,689				
51	790	115			41	35	2,694	24,496	3,250				
51	800	305		76,222	411	92	7,128	64,805	20,693			1,458	
51	810	2,041		29,958	411	616	47,675	433,461	137,825				
51	820	91				27	2,120	19,274	3,992				
51	830	59			164	18	1,374	12,495	2,875				
51	840	106			822	32	2,472	22,477	6,510				
53	001			1,096,447	29	65	707	15,235	17,052		1,096,447		
53	003			304,471	29	90	984	21,206	3,197		304,471		
53	005			611,903	269	585	6,394	137,844	53,577		611,903	2,629	
53	007			123,731	293	258	2,822	60,835	13,559		123,731		
53	009			21,034	117	275	3,001	64,690	12,889		21,034	8,411	
53	011	7,530		72,841	585	1,428	15,597	336,268	96,404		72,841		86
53	013			310,189		18	193	4,155	967		310,189		
53	015	2,059		31,103	117	390	4,265	91,949	34,493		31,103	4,975	86
53	017			906,433		145	1,586	34,191	7,183		906,433	4,205	
53	019			809,816	12	31	333	7,188	2,181		809,816		
53	021			563,716	117	199	2,170	46,782	11,606		563,716	8,073	
53	023			325,220	12	10	108	2,339	510		325,220		
53	025			1,095,099	138	306	3,341	72,019	34,231		1,095,099	11,116	
53	027			42,350	117	285	3,112	67,102	14,842		42,350	3,321	
53	029			15,900	117	312	3,409	73,490	14,992		15,900		
53	031			13,091	58	114	1,241	26,748	5,130		13,091		
53	033			41,653	5,638	7,070	77,222	1,664,846	575,265		41,653	56,203	
53	035			19,129	293	1,005	10,973	236,560	66,584		19,129	11,775	
53	037			177,815	58	136	1,485	32,021	39,089		177,815	3,504	
53	039			588,732	29	83	906	19,530	4,927		588,732	1,179	
53	041	1,537		117,677	117	291	3,183	68,621	23,060		117,677		
53	043			1,375,869	71	41	453	9,759	8,006		1,375,869		
53	045			19,986	58	214	2,336	50,357	13,895		19,986	4,372	

To calculate allocation proportion of national emissions to county, divide number of county unit within an industry category by total (national) number of units within that category

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Appendix E-2. County-level Allocation Values Used for Allocation Schemes 18, 22, and 27

State FIPS	County FIPS	A	B	C	D	E	F	G	H	I	J	K	L
		1000dollars	1000barrels	acres	beds	cremations	gallons	people	10E+6VMT	tires	acres	LTOs	%Red. Appl.
53	047			1,178,850	87	163	1,783	38,432	10,696		1,178,850		
53	049			40,228	29	88	963	20,768	5,543		40,228		
53	051			63,123	29	49	538	11,604	3,585		63,123		
53	053			50,868	1,760	2,925	31,950	688,807	206,417		50,868	12,778	86
53	055			16,887		55	598	12,898	1,805		16,887	12,476	
53	057			93,495	293	430	4,693	101,180	31,799		93,495	8,448	
53	059	220		4,220		42	456	9,831	2,427		4,220		
53	061			60,588	746	2,534	27,673	596,598	178,757		60,588	40,230	
53	063			589,843	1,210	1,740	19,005	409,736	118,282		589,843	16,681	
53	065			525,121	58	170	1,862	40,137	10,961		525,121		
53	067			56,300	293	873	9,530	205,459	71,393		56,300	9,289	86
53	069	86		13,379		16	178	3,841	885		13,379		
53	071			714,777	281	229	2,498	53,854	9,921		714,777	5,172	
53	073			103,600	293	681	7,436	160,310	49,369		103,600	9,934	
53	075			1,301,265	58	163	1,781	38,386	5,924		1,301,265	8,727	
53	077			1,682,961	293	938	10,241	220,785	70,415		1,682,961	5,178	
54	001	311			43	10	7,258	15,979	4,088				
54	003	1,417			428	47	33,087	72,846	30,778			4,205	
54	005	512			43	17	11,947	26,302	7,504				
54	007	257			43	9	6,001	13,211	13,977				
54	009	504			171	17	11,759	25,890	6,765				
54	011	1,820			856	61	42,497	93,562	32,410				
54	013	155			43	5	3,626	7,982	1,752				
54	015	206				7	4,819	10,609	3,950				
54	017	145				5	3,383	7,447	1,765				
54	019	910			171	30	21,250	46,785	18,780				
54	021	139				5	3,244	7,143	1,644				
54	023	217			85	7	5,060	11,140	3,510			1,542	
54	025	687			85	23	16,038	35,310	19,564			3,975	
54	027	378			43	13	8,820	19,418	4,408				
54	029	656				22	15,325	33,740	8,505				
54	031	233				8	5,446	11,989	3,791				
54	033	1,368			428	46	31,944	70,329	27,503			5,483	
54	035	550			85	18	12,851	28,294	17,707				
54	037	822			85	27	19,200	42,271	11,471				

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State FIPS	County FIPS	A	B	C	D	E	F	G	H	I	J	K	L
		1000dollars	1000barrels	acres	beds	cremations	gallons	people	10E+6VMT	tires	acres	LTOs	%Red. Appl.
54	039	3,875			1,571	129	90,507	199,263	87,273			9,481	
54	041	340			85	11	7,932	17,463	10,358				
54	043	435				14	10,150	22,346	7,191				
54	045	781			428	26	18,252	40,183	12,030				
54	047	570			85	19	13,311	29,306	8,652				
54	049	1,088			171	36	25,408	55,939	15,089			280	
54	051	680			171	23	15,883	34,968	7,932			210	
54	053	506			171	17	11,818	26,018	6,771			280	
54	055	1,247			428	42	29,129	64,132	27,259			3,925	
54	057	526			43	18	12,295	27,069	7,814			701	
54	059	612			85	20	14,299	31,480	6,847				
54	061	1,498			910	50	34,977	77,006	34,613			4,983	
54	063	259				9	6,039	13,296	4,220				
54	065	270			43	9	6,311	13,895	3,380				
54	067	535			171	18	12,503	27,526	7,094				
54	069	928			856	31	21,674	47,719	14,665			4,422	
54	071	156				5	3,652	8,040	1,765				
54	073	146				5	3,415	7,518	1,782				
54	075	176			17	6	4,117	9,065	2,838				
54	077	580			43	19	13,542	29,814	13,412				
54	079	1,010			85	34	23,590	51,936	17,583				
54	081	1,535			512	51	35,859	78,947	37,305			219	
54	083	557			171	19	13,015	28,654	8,762			1,121	
54	085	204				7	4,760	10,480	2,510				
54	087	300			43	10	7,001	15,413	7,567				
54	089	270			43	9	6,297	13,863	5,032				
54	091	299			43	10	6,980	15,367	3,295				
54	093	146				5	3,412	7,513	2,336				
54	095	189			43	6	4,414	9,717	2,108				
54	097	458			85	15	10,694	23,544	7,170				
54	099	814			171	27	19,013	41,860	11,098	1,000		7,062	
54	101	195			17	7	4,558	10,036	1,473				
54	103	354			43	12	8,276	18,220	5,299				
54	105	112				4	2,617	5,761	824				
54	107	1,679			428	56	39,215	86,337	32,597			5,637	

To calculate allocation proportion of national emissions to county, divide number of county unit within an industry category by total (national) number of units within that category

A = Asphalt Paving: Cutback; FHWA funding

B = Drum and Barrel Reclamation; 55-gallon barrels reclaimed

C = Grain Elevators; Acreage farms available

D = Hospital Sterilizers; Number of beds

E = Human Cremation; Number of cremations

F = Surface Coating: Traffic Markings; Gallons of paint

G = Multiple; Number of people

H = Gasoline Distribution Stage I and II; Vehicle Miles Travelled (VMT)

I = Open Burning: Scrap Tires; Number of tires burned

J = Pesticide Application; Acreage farms available

K = Aviation Gasoline Distribution: Stage I and II; Landing-TakeOffs

L = Gasoline Distribution Stage II; % Reduction applied; (see PageE2-92 for information on this reduction)

Appendix E-2. County-level Allocation Values Used for Allocation Schemes 18, 22, and 27

State FIPS	County FIPS	A	B	C	D	E	F	G	H	I	J	K	L
		1000dollars	1000barrels	acres	beds	cremations	gallons	people	10E+6VMT	tires	acres	LTOs	%Red. Appl.
54	109	525				17	12,258	26,987	8,701			56	
55	001	37		121,572	40	40	861	18,741	8,607		121,572		
55	003	32		46,503	80	35	753	16,390	4,722		46,503	1,402	
55	005	87		325,009	172	95	2,026	44,093	16,900		325,009		
55	007	30		84,222		33	706	15,358	7,027		84,222	1,682	
55	009	426		195,966	800	467	9,947	216,522	78,062		195,966	6,664	
55	011	28		308,581		31	656	14,284	6,524		308,581		
55	013	29		82,742	40	32	685	14,913	6,818		82,742	1,710	
55	015	77		143,579	40	84	1,793	39,029	12,637		143,579	981	
55	017	108		372,844	160	118	2,514	54,722	21,632		372,844	7,992	
55	019	66		413,901	80	72	1,535	33,411	14,201		413,901	1,121	
55	021	102		325,723	160	112	2,379	51,788	30,829		325,723	2,383	
55	023	33		233,481	80	36	759	16,524	5,651		233,481	1,276	
55	025	843		512,971	2,066	925	19,688	428,563	146,203		512,971	20,070	
55	027	164		391,959	256	180	3,836	83,494	26,747		391,959	3,364	
55	029	53		121,879		58	1,244	27,079	9,376		121,879	5,257	
55	031	85		70,806	40	93	1,974	42,967	13,186		70,806	2,663	
55	033	77		368,618	40	85	1,801	39,208	21,470		368,618		
55	035	177		191,367	400	194	4,123	89,741	42,041		191,367		
55	037	10		19,371		11	236	5,136	2,288		19,371		
55	039	186		324,893	400	205	4,355	94,795	28,210		324,893	6,925	
55	041	19		26,150		21	444	9,667	4,370		26,150		
55	043	97		599,617	107	106	2,266	49,328	17,537		599,617	1,402	
55	045	67		304,963	160	73	1,555	33,847	10,872		304,963		
55	047	38		134,271	80	42	899	19,561	7,159		134,271		
55	049	45		366,709	80	49	1,043	22,708	8,573		366,709		
55	051	12		9,633		14	289	6,298	2,816		9,633		
55	053	35		243,923	40	38	819	17,833	21,704		243,923	1,696	
55	055	146		242,301	160	160	3,402	74,052	30,284		242,301	5,551	
55	057	47		169,188	80	52	1,107	24,091	21,966		169,188		
55	059	288		84,744	400	316	6,722	146,315	43,056		84,744	15,127	86
55	061	39		161,268	16	43	917	19,966	6,397		161,268		86
55	063	201		169,543	800	221	4,706	102,438	38,215		169,543	5,263	
55	065	32		338,376	16	35	736	16,020	7,335		338,376		
55	067	40		123,892	80	44	945	20,563	6,636		123,892	2,523	

To calculate allocation proportion of national emissions to county, divide number of county unit within an industry category by total (national) number of units within that category

A = Asphalt Paving: Cutback; FHWA funding

B = Drum and Barrel Reclamation; 55-gallon barrels reclaimed

C = Grain Elevators; Acreage farms available

D = Hospital Sterilizers; Number of beds

E = Human Cremation; Number of cremations

F = Surface Coating: Traffic Markings; Gallons of paint

G = Multiple; Number of people

H = Gasoline Distribution Stage I and II; Vehicle Miles Travelled (VMT)

I = Open Burning: Scrap Tires; Number of tires burned

J = Pesticide Application; Acreage farms available

K = Aviation Gasoline Distribution: Stage I and II; Landing-TakeOffs

L = Gasoline Distribution Stage II; % Reduction applied; (see PageE2-92 for information on this reduction)

Appendix E-2. County-level Allocation Values Used for Allocation Schemes 18, 22, and 27

State FIPS	County FIPS	A	B	C	D	E	F	G	H	I	J	K	L
		1000dollars	1000barrels	acres	beds	cremations	gallons	people	10E+6VMT	tires	acres	LTOs	%Red. Appl.
55	069	59		83,918	80	65	1,376	29,949	9,547		83,918	2,804	
55	071	163		244,864	400	179	3,800	82,726	36,033		244,864	376	86
55	073	243		515,888	400	267	5,677	123,584	49,129		515,888	2,718	
55	075	85		131,641	160	93	1,976	43,019	14,835		131,641		
55	077	30		124,804		33	705	15,344	15,801		124,804		
55	078	10		387		11	231	5,033	1,407		387		
55	079	1,783		6,334	4,911	1,956	41,633	906,248	314,877		6,334	28,731	86
55	081	78		329,561	80	86	1,825	39,725	29,764		329,561	168	
55	083	68		203,866	40	74	1,579	34,382	12,451		203,866	1,822	
55	085	71		39,036	400	78	1,656	36,052	13,929		39,036	4,065	
55	087	312		252,471	540	342	7,280	158,480	51,460		252,471		
55	089	161		69,930	160	177	3,768	82,015	31,935		69,930		86
55	091	14		104,044	40	16	336	7,307	3,277		104,044		
55	093	71		267,586		78	1,656	36,052	11,486		267,586		
55	095	77		267,639	143	85	1,808	39,363	16,892		267,639	3,392	
55	097	128		262,799	160	140	2,987	65,022	28,452		262,799	3,294	
55	099	31		92,599	40	34	715	15,559	5,776		92,599	2,019	
55	101	365		123,012	400	401	8,535	185,777	46,893		123,012	6,729	86
55	103	35		238,266	80	38	815	17,748	6,462		238,266	1,121	
55	105	297		351,013	509	326	6,942	151,121	55,132		351,013	12,896	
55	107	30		159,104	40	33	694	15,098	5,201		159,104	771	
55	109	119		312,076	152	130	2,769	60,273	32,873		312,076	4,906	
55	111	107		332,878	219	117	2,494	54,282	24,177		332,878	2,005	
55	113	32		48,463	40	35	746	16,230	7,436		48,463	3,420	
55	115	77		270,478	80	85	1,800	39,183	15,523		270,478		
55	117	217		182,460	400	238	5,060	110,136	38,593		182,460	10,822	86
55	119	38		223,587	40	42	885	19,255	6,964		223,587	981	
55	121	52		340,536	110	58	1,226	26,679	13,868		340,536		
55	123	54		344,172	80	60	1,273	27,707	10,955		344,172		
55	125	43		7,578	16	47	997	21,703	9,979		7,578	10,121	
55	127	170		220,089	160	187	3,976	86,548	41,226		220,089	6,729	
55	129	31		97,839	80	34	724	15,770	7,219		97,839	3,364	
55	131	228		127,127	160	250	5,316	115,717	36,408		127,127	5,607	86
55	133	705		105,608	975	774	16,467	358,442	118,008		105,608	14,157	86
55	135	100		226,746	80	110	2,335	50,832	18,399		226,746	4,410	

To calculate allocation proportion of national emissions to county, divide number of county unit within an industry category by total (national) number of units within that category

A = Asphalt Paving: Cutback; FHWA funding

B = Drum and Barrel Reclamation; 55-gallon barrels reclaimed

C = Grain Elevators; Acreage farms available

D = Hospital Sterilizers; Number of beds

E = Human Cremation; Number of cremations

F = Surface Coating: Traffic Markings; Gallons of paint

G = Multiple; Number of people

H = Gasoline Distribution Stage I and II; Vehicle Miles Travelled (VMT)

I = Open Burning: Scrap Tires; Number of tires burned

J = Pesticide Application; Acreage farms available

K = Aviation Gasoline Distribution: Stage I and II; Landing-TakeOffs

L = Gasoline Distribution Stage II; % Reduction applied; (see PageE2-92 for information on this reduction)

Appendix E-2. County-level Allocation Values Used for Allocation Schemes 18, 22, and 27

State FIPS	County FIPS	A	B	C	D	E	F	G	H	I	J	K	L
		1000dollars	1000barrels	acres	beds	cremations	gallons	people	10E+6VMT	tires	acres	LTOs	%Red. Appl.
55	137	43		174,524	16	47	1,003	21,824	16,956		174,524		
55	139	296		167,459	400	325	6,918	150,591	44,601		167,459	14,647	
55	141	150		219,258	800	165	3,502	76,225	22,363		219,258	5,136	
56	001	1,304			91	62	30,450	29,060	13,261			1,402	
56	003	503			46	24	11,751	11,214	8,133			168	
56	005	1,468			91	70	34,293	32,727	18,266			2,208	
56	007	693			46	33	16,176	15,437	14,214			1,808	
56	009	556			46	27	12,989	12,396	10,118			734	
56	011	259			18	12	6,054	5,778	9,845				
56	013	1,624			91	78	37,922	36,191	16,978			694	
56	015	568			46	27	13,256	12,651	5,256			729	
56	017	201			46	10	4,689	4,475	896				
56	019	308			46	15	7,186	6,858	13,790			280	
56	021	3,539			467	169	82,651	78,877	34,648			3,667	
56	023	628			46	30	14,668	13,998	7,827				
56	025	2,834			457	135	66,179	63,157	24,342			5,261	
56	027	120			18	6	2,812	2,684	1,590				
56	029	1,144			183	55	26,720	25,500	10,670			4,766	
56	031	386			46	18	9,024	8,612	10,827				
56	033	1,126			91	54	26,290	25,090	14,061			3,589	
56	035	261				12	6,089	5,811	4,174			1,121	
56	037	1,764			91	84	41,203	39,322	25,302			2,998	
56	039	652			183	31	15,227	14,532	6,528			2,813	
56	041	910			46	44	21,259	20,288	11,364			2,804	
56	043	383			46	18	8,950	8,541	2,618			645	
56	045	287			46	14	6,709	6,403	2,478			614	
Total		**1,316,424**	**35,000**	**753,872,025**	**1,006,807**	**595,611**	**35,309,000**	**272,690,813**	**93,427,667**	**16,179,540**	**714,076,756**	**10,529,386**	

To calculate allocation proportion of national emissions to county, divide number of county unit within an industry category by total (national) number of units within that category

A = Asphalt Paving: Cutback; FHWA funding

B = Drum and Barrel Reclamation; 55-gallon barrels reclaimed

C = Grain Elevators; Acreage farms available

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K = Aviation Gasoline Distribution: Stage I and II; Landing-TakeOffs

L = Gasoline Distribution Stage II; % Reduction applied; (see PageE2-92 for information on this reduction)

Stage II Gasoline Distribution Vapor Recovery Reduction Percentage List for 1999 Nonpoint NEI

Stage II Gasoline Distribution encompasses the refueling of a vehicle at a gasoline service station. According to the Clean Air Act, Section 182, areas with ozone nonattainment classifications greater than Moderate, were required to install vapor recovery systems at these service stations. If installed and inspected annually, a minimum of 86% reduction percentage can be applied to estimated calculated emissions using uncontrolled emission factors. The default emissions percentage is from the Control Techniques Guidance for Stage II Vapor Recovery.[1]

To properly account for these emission reductions for the 1999 Nonpoint NEI for HAPs A list of counties that were expected to require vapor recovery systems at service stations was developed for base year 2006. This list is found in Table IV-6 of the *Procedures for Developing Base Year and Future Year Mass and Modeling Inventories for the Heavy Duty Engine and Vehicle Standards and Highway Diesel Fuel (HDD) Rulemaking*[2] (referred to as the "Projections" list).

The Projections list identified 227 counties that for future base years of interest (2006, 2020, and 2030) will receive a default emissions reduction percentage. However, that list is not entirely correct for the 1999 base year. For instance, although several counties in Michigan are identified as to have vapor recovery systems in place by 2006, the state does not have any for 1999.[3] Similarly, two counties in Ohio (Lucas and Wood) do not have vapor recovery systems in place for 1999.[4]

To better represent the 1999 base year, a list of counties classified as moderate, serious, severe, or extreme for ozone nonattainment was obtained from EPA.[5] Counties not on the Projections list were evaluated via a literature search of their state regulations. For example, Utah had no counties identified on the Projections list; however, two of its counties, Davis and Salt Lake, are currently in ozone nonattainment areas.[6] After evaluating state regulations for Utah, it was determined that Stage II controls are in place for these two counties. In total, sixty-three additional counties not on the Projections list, were identified as having vapor recovery systems in place prior to and including 1999.[4, 6-14] A total of 279 counties across twenty-nine states have vapor recovery systems at gasoline service stations.

While compiling the list of applicable counties for 1999, fourteen states listed vapor recovery emission reduction percentages in their state regulations greater than the default value. New York provided a 90% reduction for ten counties, while the remaining thirteen states provided a 95% reduction for 153 counties.[15-22] The remaining 116 counties that have Stage II controls either listed 86% as their reduction percentage or did not provide a reduction percentage (in which case the 86% reduction was used as a default).

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Appendix E-3

Residential Heating County Allocations

Appendix E-3. Residential Heating County Allocations

State FIPS	County FIPS	A	B	C	D	E	F	G	H	I	J	K
		tons coal	tons coal	MMBTU	MMBTU	tons wood	tons wood	tons wood	tons wood	tons wood	tons wood	tons wood
01	001		2.89E+01	1.03E+00	4.16E+02	3.43E+02	6.90E+02	4.27E+01	1.72E+01	5.88E+02	1.47E+01	3.65E+01
01	003			4.27E+00	5.76E+02	6.53E+02	2.79E+03	1.73E+02	6.99E+01	5.31E+03	1.33E+02	3.29E+02
01	005			1.13E+00	1.09E+02	1.35E+02	2.71E+02	1.68E+01	6.79E+00	2.32E+02	5.79E+00	1.43E+01
01	007		1.73E+01	9.71E-01	1.44E+02	1.66E+02	7.11E+02	4.40E+01	1.78E+01	1.35E+03	3.37E+01	8.36E+01
01	009		1.95E+02	4.68E+00	1.82E+02	4.27E+02	1.83E+03	1.13E+02	4.57E+01	3.47E+03	8.67E+01	2.15E+02
01	011			6.52E-01	5.70E+01	6.11E+01	2.61E+02	1.62E+01	6.53E+00	4.96E+02	1.24E+01	3.07E+01
01	013			7.53E-01	1.41E+02	1.29E+02	5.50E+02	3.41E+01	1.38E+01	1.05E+03	2.61E+01	6.48E+01
01	015		5.78E+00	5.55E+00	1.68E+03	1.30E+03	5.56E+03	3.44E+02	1.39E+02	1.06E+04	2.64E+02	6.54E+02
01	017			2.43E+00	4.58E+02	4.33E+02	8.73E+02	5.41E+01	2.18E+01	7.44E+02	1.86E+01	4.61E+01
01	019			1.80E+00	4.47E+01	2.41E+02	1.03E+03	6.38E+01	2.57E+01	1.96E+03	4.89E+01	1.21E+02
01	021			3.13E+00	1.83E+02	3.84E+02	1.64E+03	1.02E+02	4.11E+01	3.12E+03	7.81E+01	1.94E+02
01	023		1.16E+01	6.09E-01	3.91E+01	1.83E+02	7.83E+02	4.85E+01	1.96E+01	1.49E+03	3.72E+01	9.21E+01
01	025			6.95E-01	2.04E+02	1.66E+02	7.08E+02	4.39E+01	1.77E+01	1.34E+03	3.36E+01	8.33E+01
01	027		1.54E+01	7.53E-01	8.73E+01	1.58E+02	6.74E+02	4.18E+01	1.69E+01	1.28E+03	3.20E+01	7.93E+01
01	029		3.85E+00	4.20E-01	4.37E+01	1.39E+02	5.96E+02	3.69E+01	1.49E+01	1.13E+03	2.83E+01	7.01E+01
01	031			2.46E+00	2.08E+02	2.45E+02	4.94E+02	3.06E+01	1.23E+01	4.21E+02	1.05E+01	2.61E+01
01	033		1.25E+02	1.24E+01	4.36E+02	6.26E+02	1.26E+03	7.81E+01	3.15E+01	1.08E+03	2.69E+01	6.66E+01
01	035			6.95E-01	8.07E+01	9.55E+01	4.09E+02	2.53E+01	1.02E+01	7.76E+02	1.94E+01	4.81E+01
01	037		5.78E+00	1.19E+00	4.29E+01	1.39E+02	5.96E+02	3.69E+01	1.49E+01	1.13E+03	2.83E+01	7.01E+01
01	039			1.39E+00	3.29E+02	2.50E+02	5.03E+02	3.12E+01	1.26E+01	4.29E+02	1.07E+01	2.66E+01
01	041			7.10E-01	7.54E+01	8.77E+01	3.75E+02	2.33E+01	9.39E+00	7.13E+02	1.78E+01	4.42E+01
01	043		5.84E+02	1.29E+01	1.59E+02	7.78E+02	3.33E+03	2.06E+02	8.33E+01	6.32E+03	1.58E+02	3.92E+02
01	045		1.16E+01	2.97E+00	2.85E+02	2.27E+02	4.58E+02	2.83E+01	1.14E+01	3.90E+02	9.76E+00	2.42E+01
01	047			1.68E+00	7.20E+02	2.56E+02	1.10E+03	6.79E+01	2.74E+01	2.08E+03	5.20E+01	1.29E+02
01	049		9.25E+01	1.19E+01	1.49E+02	6.68E+02	2.86E+03	1.77E+02	7.15E+01	5.43E+03	1.36E+02	3.36E+02
01	051		1.16E+01	2.77E+00	3.69E+02	5.78E+02	2.47E+03	1.53E+02	6.19E+01	4.70E+03	1.17E+02	2.91E+02
01	053			4.27E+00	2.47E+02	2.06E+02	4.14E+02	2.57E+01	1.04E+01	3.53E+02	8.83E+00	2.19E+01
01	055		3.08E+01	3.33E+00	1.60E+03	1.19E+03	2.39E+03	1.48E+02	5.97E+01	2.04E+03	5.09E+01	1.26E+02
01	057		4.35E+02	1.32E+00	1.34E+02	2.10E+02	8.98E+02	5.56E+01	2.24E+01	1.70E+03	4.26E+01	1.06E+02
01	059		2.06E+02	3.39E+00	2.50E+02	3.46E+02	1.48E+03	9.18E+01	3.71E+01	2.81E+03	7.04E+01	1.74E+02
01	061		1.54E+01	1.98E+00	1.26E+02	1.52E+02	3.06E+02	1.90E+01	7.66E+00	2.61E+02	6.53E+00	1.62E+01
01	063		5.78E+00	2.90E-01	5.45E+01	5.71E+01	2.44E+02	1.51E+01	6.10E+00	4.64E+02	1.16E+01	2.87E+01
01	065		7.71E+00	7.24E-01	1.19E+02	8.78E+01	3.76E+02	2.33E+01	9.39E+00	7.13E+02	1.78E+01	4.42E+01
01	067			1.13E+00	6.83E+01	1.05E+02	4.50E+02	2.79E+01	1.12E+01	8.54E+02	2.14E+01	5.29E+01
01	069			1.00E+01	3.81E+02	8.61E+02	1.73E+03	1.07E+02	4.33E+01	1.48E+03	3.70E+01	9.16E+01
01	071		1.25E+02	9.65E+00	1.31E+02	5.48E+02	2.34E+03	1.45E+02	5.86E+01	4.45E+03	1.11E+02	2.76E+02
01	073		1.05E+03	1.05E+01	1.22E+04	6.84E+03	1.38E+04	8.53E+02	3.44E+02	1.17E+04	2.94E+02	7.28E+02
01	075		8.86E+01	7.10E-01	1.16E+02	1.80E+02	7.72E+02	4.78E+01	1.93E+01	1.47E+03	3.67E+01	9.08E+01
01	077		1.77E+02	1.17E+01	6.41E+02	9.39E+02	1.89E+03	1.17E+02	4.73E+01	1.61E+03	4.03E+01	1.00E+02
01	079		4.62E+01	7.42E+00	8.20E+01	3.29E+02	1.41E+03	8.73E+01	3.52E+01	2.68E+03	6.69E+01	1.66E+02
01	081		2.89E+01	3.69E+00	8.79E+02	6.54E+02	1.32E+03	8.16E+01	3.29E+01	1.12E+03	2.81E+01	6.96E+01
01	083		1.00E+02	9.56E+00	9.16E+01	6.12E+02	2.62E+03	1.62E+02	6.54E+01	4.97E+03	1.24E+02	3.08E+02
01	085		3.66E+01	6.66E-01	2.61E+01	1.25E+02	5.36E+02	3.32E+01	1.34E+01	1.02E+03	2.54E+01	6.30E+01
01	087		1.93E+00	6.81E-01	3.04E+02	1.35E+02	2.72E+02	1.68E+01	6.79E+00	2.32E+02	5.79E+00	1.44E+01
01	089		1.16E+02	1.71E+01	1.70E+03	2.34E+03	4.71E+03	2.92E+02	1.18E+02	4.02E+03	1.00E+02	2.49E+02
01	091			7.97E-01	1.78E+02	1.29E+02	5.54E+02	3.43E+01	1.38E+01	1.05E+03	2.63E+01	6.52E+01
01	093		1.14E+03	1.64E+00	2.86E+02	3.18E+02	6.41E+02	3.97E+01	1.60E+01	5.47E+02	1.37E+01	3.39E+01
01	095		6.36E+01	9.07E+00	4.79E+02	8.11E+02	1.63E+03	1.01E+02	4.08E+01	1.39E+03	3.48E+01	8.63E+01

To calculate allocation proportion of national emissions to county, divide number of county unit within an industry category by total (national) number of units within that category

A = Residential Heating: Anthracite Coal; SCC 2104001000

B = Residential Heating: Bituminous Lignite; SCC 2104002000

C = Residential Heating: Distillate Oil; SCC 2104004000

D = Residential Heating: Natural Gas; 2104006000

E = Fireplaces; SCC 2104008001

F = Fireplaces: Inserts; SCC 2104008002

G = Fireplaces: Inserts; non catalytic, EPA certified; SCC 2104008003

H = Fireplaces: Inserts; catalytic, EPA certified; SCC 2104008004

I = Conventional Woodstoves; SCC 2104008010

J = Catalytic Woodstoves; SCC 2104008030

K = Non-Catalytic Woodstoves; SCC 2104008050

Appendix E-3. Residential Heating County Allocations

State FIPS	County FIPS	A	B	C	D	E	F	G	H	I	J	K
		tons coal	tons coal	MMBTU	MMBTU	tons wood	tons wood	tons wood	tons wood	tons wood	tons wood	tons wood
01	097		1.35E+01	3.54E+00	5.66E+03	2.13E+03	4.29E+03	2.66E+02	1.07E+02	3.66E+03	9.15E+01	2.27E+02
01	099			1.64E+00	1.06E+02	1.41E+02	6.02E+02	3.73E+01	1.51E+01	1.14E+03	2.86E+01	7.08E+01
01	101			2.17E+00	3.59E+03	1.10E+03	2.21E+03	1.37E+02	5.53E+01	1.89E+03	4.72E+01	1.17E+02
01	103		9.63E+01	1.72E+01	3.56E+02	1.05E+03	2.11E+03	1.31E+02	5.28E+01	1.80E+03	4.51E+01	1.12E+02
01	105		3.47E+01	7.53E-01	1.19E+02	1.35E+02	5.78E+02	3.58E+01	1.44E+01	1.10E+03	2.74E+01	6.80E+01
01	107		1.16E+01	2.64E+00	1.38E+02	1.23E+02	5.28E+02	3.27E+01	1.32E+01	1.00E+03	2.50E+01	6.21E+01
01	109			1.83E+00	1.57E+02	1.39E+02	2.80E+02	1.74E+01	7.01E+00	2.39E+02	5.98E+00	1.48E+01
01	111			3.62E-01	1.08E+02	2.55E+02	1.09E+03	6.76E+01	2.73E+01	2.07E+03	5.18E+01	1.28E+02
01	113		1.93E+01	2.10E+00	4.80E+02	4.62E+02	9.30E+02	5.76E+01	2.32E+01	7.93E+02	1.98E+01	4.91E+01
01	115		4.82E+01	2.58E+00	4.19E+02	4.81E+02	9.69E+02	6.01E+01	2.42E+01	8.27E+02	2.07E+01	5.12E+01
01	117		1.60E+02	3.40E+00	9.59E+02	9.18E+02	1.85E+03	1.14E+02	4.62E+01	1.58E+03	3.94E+01	9.77E+01
01	119		5.78E+00	9.42E-01	8.97E+01	8.77E+01	3.75E+02	2.32E+01	9.38E+00	7.13E+02	1.78E+01	4.41E+01
01	121		5.78E+00	4.33E+00	7.37E+02	7.42E+02	1.50E+03	9.26E+01	3.74E+01	1.28E+03	3.19E+01	7.90E+01
01	123		2.70E+01	2.23E+00	3.50E+02	4.77E+02	9.60E+02	5.95E+01	2.40E+01	8.19E+02	2.05E+01	5.08E+01
01	125		8.48E+01	3.38E+00	1.84E+03	7.07E+02	1.42E+03	8.82E+01	3.56E+01	1.21E+03	3.04E+01	7.52E+01
01	127		2.21E+03	8.59E+00	4.01E+02	7.59E+02	3.25E+03	2.01E+02	8.12E+01	6.17E+03	1.54E+02	3.82E+02
01	129			7.68E-01	5.51E+01	1.01E+02	4.32E+02	2.67E+01	1.08E+01	8.19E+02	2.05E+01	5.08E+01
01	131		3.85E+00	9.85E-01	3.91E+01	7.45E+01	3.19E+02	1.97E+01	7.97E+00	6.05E+02	1.51E+01	3.75E+01
01	133		5.49E+02	2.98E+00	1.19E+02	2.57E+02	1.10E+03	6.82E+01	2.75E+01	2.09E+03	5.23E+01	1.29E+02
02	013		1.21E+02	4.29E+02	4.46E-01	5.74E+01	1.16E+02	7.16E+00	2.89E+00	9.85E+01	2.46E+00	6.11E+00
02	016			6.14E+02	5.33E+01	6.81E+01	1.37E+02	8.49E+00	3.43E+00	1.17E+02	2.92E+00	7.24E+00
02	020		4.90E+03	7.01E+02	1.50E+04	4.94E+03	9.96E+03	6.17E+02	2.49E+02	8.49E+03	2.12E+02	5.26E+02
02	050		1.21E+02	2.51E+03	8.91E-01	4.36E+02	8.78E+02	5.44E+01	2.19E+01	7.49E+02	1.87E+01	4.64E+01
02	060			3.22E+02		2.72E+01	1.17E+02	7.22E+00	2.91E+00	2.21E+02	5.53E+00	1.37E+01
02	070			8.96E+02	6.69E-01	1.70E+02	3.42E+02	2.12E+01	8.55E+00	2.92E+02	7.29E+00	1.81E+01
02	090		1.56E+05	1.63E+04	9.96E+01	1.00E+03	4.30E+03	2.66E+02	1.07E+02	8.16E+03	2.04E+02	5.06E+02
02	100			3.65E+02		8.89E+01	1.79E+02	1.11E+01	4.48E+00	1.53E+02	3.82E+00	9.47E+00
02	110			5.04E+03	3.12E+00	5.72E+02	1.15E+03	7.14E+01	2.88E+01	9.84E+02	2.46E+01	6.09E+01
02	122		2.34E+04	2.65E+03	1.34E+03	8.62E+02	3.69E+03	2.29E+02	9.22E+01	7.01E+03	1.75E+02	4.34E+02
02	130		4.84E+02	2.65E+03	1.78E+00	3.10E+02	6.25E+02	3.87E+01	1.56E+01	5.33E+02	1.33E+01	3.30E+01
02	150		1.21E+02	3.07E+03		3.23E+02	6.51E+02	4.04E+01	1.63E+01	5.56E+02	1.39E+01	3.44E+01
02	164			3.49E+02		1.12E+02	2.26E+02	1.40E+01	5.65E+00	1.93E+02	4.82E+00	1.19E+01
02	170		2.54E+03	1.91E+03	1.22E+03	1.07E+03	4.58E+03	2.84E+02	1.15E+02	8.70E+03	2.18E+02	5.39E+02
02	180		1.21E+02	1.70E+03		3.61E+02	7.27E+02	4.50E+01	1.82E+01	6.20E+02	1.55E+01	3.84E+01
02	185		6.05E+02	5.01E+02	2.32E+02	1.88E+02	3.79E+02	2.35E+01	9.47E+00	3.23E+02	8.08E+00	2.00E+01
02	188			1.01E+03	2.45E+00	1.90E+02	3.83E+02	2.37E+01	9.56E+00	3.26E+02	8.16E+00	2.02E+01
02	201			7.94E+02	4.46E-01	1.57E+02	3.17E+02	1.96E+01	7.92E+00	2.70E+02	6.75E+00	1.67E+01
02	220			1.47E+03		1.75E+02	3.53E+02	2.19E+01	8.83E+00	3.01E+02	7.53E+00	1.87E+01
02	232			5.52E+02	4.46E-01							
02	240		3.03E+02	1.01E+03	4.46E-01	1.37E+02	5.85E+02	3.63E+01	1.46E+01	1.11E+03	2.78E+01	6.89E+01
02	261		2.42E+02	2.16E+03	7.80E+00	3.58E+02	7.20E+02	4.46E+01	1.80E+01	6.14E+02	1.54E+01	3.81E+01
02	270			8.73E+02		1.86E+02	3.74E+02	2.31E+01	9.34E+00	3.19E+02	7.97E+00	1.97E+01
02	280		1.21E+02	1.38E+03		2.17E+02	4.37E+02	2.71E+01	1.09E+01	3.73E+02	9.33E+00	2.31E+01
02	282			2.76E+02	2.23E-01							
02	290		4.84E+03	9.98E+02	6.69E-01	5.32E+02	1.07E+03	6.64E+01	2.68E+01	9.14E+02	2.29E+01	5.66E+01
04	001			9.39E+00	1.36E+02	6.57E+02	2.81E+03	1.74E+02	7.03E+01	5.34E+03	1.33E+02	3.31E+02
04	003			3.16E+00	1.38E+03	8.66E+02	1.74E+03	1.08E+02	4.36E+01	1.49E+03	3.72E+01	9.22E+01
04	005			8.76E+00	8.90E+02	2.10E+03	4.22E+03	2.61E+02	1.06E+02	3.60E+03	9.00E+01	2.23E+02

To calculate allocation proportion of national emissions to county, divide number of county unit within an industry category by total (national) number of units within that category

A = Residential Heating: Anthracite Coal; SCC 2104001000

B = Residential Heating: Bituminous Lignite; SCC 2104002000

C = Residential Heating: Distillate Oil; SCC 2104004000

D = Residential Heating: Natural Gas; 2104006000

E = Fireplaces; SCC 2104008001

F = Fireplaces: Inserts; SCC 2104008002

G = Fireplaces: Inserts; non catalytic, EPA certified; SCC 2104008003

H = Fireplaces: Inserts; catalytic, EPA certified; SCC 2104008004

I = Conventional Woodstoves; SCC 2104008010

J = Catalytic Woodstoves; SCC 2104008030

K = Non-Catalytic Woodstoves; SCC 2104008050

Appendix E-3. Residential Heating County Allocations

State FIPS	County FIPS	A	B	C	D	E	F	G	H	I	J	K
		tons coal	tons coal	MMBTU	MMBTU	tons wood	tons wood	tons wood	tons wood	tons wood	tons wood	tons wood
04	007			1.96E+00	4.45E+02	5.63E+02	1.13E+03	7.03E+01	2.84E+01	9.68E+02	2.42E+01	6.00E+01
04	009			2.71E-01	3.26E+02	2.30E+02	9.83E+02	6.09E+01	2.46E+01	1.87E+03	4.67E+01	1.16E+02
04	011			3.01E-02	1.22E+02	9.11E+01	3.90E+02	2.41E+01	9.74E+00	7.40E+02	1.85E+01	4.58E+01
04	012			3.61E-01	7.63E+01	6.00E+01	2.57E+02	1.59E+01	6.42E+00	4.87E+02	1.22E+01	3.02E+01
04	013			2.39E+01	1.54E+04	9.99E+03	2.01E+04	1.25E+03	5.03E+02	1.72E+04	4.29E+02	1.06E+03
04	015			5.18E+00	9.81E+02	4.53E+02	9.12E+02	5.65E+01	2.28E+01	7.78E+02	1.94E+01	4.82E+01
04	017			3.64E+00	3.83E+02	9.26E+02	3.96E+03	2.45E+02	9.90E+01	7.52E+03	1.88E+02	4.66E+02
04	019			1.22E+01	9.67E+03	2.87E+03	5.79E+03	3.59E+02	1.45E+02	4.94E+03	1.23E+02	3.06E+02
04	021			4.79E+00	1.14E+03	4.90E+02	9.87E+02	6.11E+01	2.47E+01	8.42E+02	2.10E+01	5.22E+01
04	023			5.42E-01	2.85E+02	2.27E+02	4.57E+02	2.83E+01	1.14E+01	3.90E+02	9.75E+00	2.42E+01
04	025			6.59E+00	1.14E+03	1.17E+03	2.36E+03	1.46E+02	5.91E+01	2.02E+03	5.04E+01	1.25E+02
04	027			3.16E+00	6.11E+02	3.74E+02	7.54E+02	4.67E+01	1.89E+01	6.43E+02	1.61E+01	3.99E+01
05	001			4.53E-01	3.53E+02	1.45E+02	2.92E+02	1.81E+01	7.30E+00	2.49E+02	6.23E+00	1.54E+01
05	003			5.03E-01	3.49E+02	1.46E+02	2.94E+02	1.82E+01	7.36E+00	2.51E+02	6.28E+00	1.56E+01
05	005			7.05E-01	3.12E+02	4.32E+02	1.85E+03	1.14E+02	4.62E+01	3.51E+03	8.77E+01	2.17E+02
05	007			6.79E-01	1.57E+03	2.71E+03	5.46E+03	3.38E+02	1.36E+02	4.66E+03	1.16E+02	2.88E+02
05	009			1.16E+00	3.71E+02	3.69E+02	1.58E+03	9.78E+01	3.95E+01	3.00E+03	7.49E+01	1.86E+02
05	011				1.45E+02	1.46E+02	2.95E+02	1.83E+01	7.37E+00	2.52E+02	6.29E+00	1.56E+01
05	013			7.55E-02	6.35E+01	3.78E+01	1.62E+02	1.00E+01	4.04E+00	3.07E+02	7.68E+00	1.90E+01
05	015			4.53E-01	2.23E+02	2.41E+02	1.03E+03	6.39E+01	2.58E+01	1.96E+03	4.90E+01	1.21E+02
05	017				2.19E+02	9.33E+01	1.88E+02	1.16E+01	4.70E+00	1.60E+02	4.01E+00	9.93E+00
05	019			2.26E-01	3.38E+02	1.25E+02	2.52E+02	1.56E+01	6.31E+00	2.15E+02	5.38E+00	1.33E+01
05	021			4.53E-01	2.80E+02	2.54E+02	5.12E+02	3.17E+01	1.28E+01	4.37E+02	1.09E+01	2.71E+01
05	023				1.55E+02	2.97E+02	1.27E+03	7.87E+01	3.17E+01	2.41E+03	6.03E+01	1.49E+02
05	025			7.55E-02	4.54E+01	5.20E+01	2.22E+02	1.38E+01	5.56E+00	4.22E+02	1.06E+01	2.62E+01
05	027			1.03E+00	4.55E+02	1.64E+02	3.30E+02	2.05E+01	8.26E+00	2.82E+02	7.05E+00	1.75E+01
05	029			7.30E-01	2.32E+02	1.24E+02	5.32E+02	3.29E+01	1.33E+01	1.01E+03	2.52E+01	6.26E+01
05	031			7.30E-01	1.19E+03	7.29E+02	1.47E+03	9.10E+01	3.67E+01	1.25E+03	3.13E+01	7.76E+01
05	033			8.81E-01	4.90E+02	4.69E+02	9.45E+02	5.85E+01	2.36E+01	8.06E+02	2.02E+01	4.99E+01
05	035			1.86E+00	7.80E+02	2.59E+02	5.21E+02	3.23E+01	1.30E+01	4.45E+02	1.11E+01	2.76E+01
05	037			5.03E-01	1.82E+02	1.92E+02	3.87E+02	2.40E+01	9.68E+00	3.30E+02	8.26E+00	2.05E+01
05	039				1.14E+02	6.23E+01	1.26E+02	7.78E+00	3.14E+00	1.07E+02	2.68E+00	6.64E+00
05	041			2.77E-01	2.35E+02	9.71E+01	1.95E+02	1.21E+01	4.89E+00	1.67E+02	4.17E+00	1.03E+01
05	043				2.20E+02	1.90E+02	3.83E+02	2.37E+01	9.57E+00	3.27E+02	8.16E+00	2.02E+01
05	045			2.44E+00	7.37E+02	5.70E+02	1.15E+03	7.11E+01	2.87E+01	9.79E+02	2.45E+01	6.06E+01
05	047			2.52E-01	2.40E+02	1.84E+02	7.88E+02	4.88E+01	1.97E+01	1.50E+03	3.74E+01	9.27E+01
05	049			6.04E-01	4.06E+00	1.38E+02	5.92E+02	3.67E+01	1.48E+01	1.12E+03	2.81E+01	6.97E+01
05	051			2.29E+00	1.23E+03	9.79E+02	4.19E+03	2.60E+02	1.05E+02	7.96E+03	1.99E+02	4.93E+02
05	053				1.77E+02	1.55E+02	6.63E+02	4.10E+01	1.66E+01	1.26E+03	3.15E+01	7.79E+01
05	055			1.23E+00	3.35E+02	3.77E+02	7.59E+02	4.70E+01	1.90E+01	6.47E+02	1.62E+01	4.01E+01
05	057			8.81E-01	3.69E+02	2.70E+02	5.44E+02	3.37E+01	1.36E+01	4.64E+02	1.16E+01	2.87E+01
05	059			6.79E-01	3.80E+02	3.31E+02	1.42E+03	8.78E+01	3.54E+01	2.69E+03	6.73E+01	1.67E+02
05	061			5.03E-02	2.18E+02	8.18E+01	1.65E+02	1.02E+01	4.12E+00	1.41E+02	3.51E+00	8.71E+00
05	063			5.03E-01	3.25E+02	3.76E+02	1.61E+03	9.97E+01	4.02E+01	3.06E+03	7.64E+01	1.89E+02
05	065			1.51E-01	2.53E+00	1.55E+02	3.12E+02	1.93E+01	7.81E+00	2.66E+02	6.66E+00	1.65E+01
05	067			2.77E-01	3.10E+02	1.24E+02	2.49E+02	1.54E+01	6.22E+00	2.12E+02	5.31E+00	1.32E+01
05	069			4.78E-01	1.47E+03	4.87E+02	9.80E+02	6.07E+01	2.45E+01	8.36E+02	2.09E+01	5.18E+01
05	071			2.52E-01	2.39E+02	2.33E+02	9.99E+02	6.19E+01	2.50E+01	1.90E+03	4.74E+01	1.18E+02

To calculate allocation proportion of national emissions to county, divide number of county unit within an industry category by total (national) number of units within that category

A = Residential Heating: Anthracite Coal; SCC 2104001000

B = Residential Heating: Bituminous Lignite; SCC 2104002000

C = Residential Heating: Distillate Oil; SCC 2104004000

D = Residential Heating: Natural Gas; 2104006000

E = Fireplaces; SCC 2104008001

F = Fireplaces: Inserts; SCC 2104008002

G = Fireplaces: Inserts; non catalytic, EPA certified; SCC 2104008003

H = Fireplaces: Inserts; catalytic, EPA certified; SCC 2104008004

I = Conventional Woodstoves; SCC 2104008010

J = Catalytic Woodstoves; SCC 2104008030

K = Non-Catalytic Woodstoves; SCC 2104008050

Appendix E-3. Residential Heating County Allocations

State FIPS	County FIPS	A	B	C	D	E	F	G	H	I	J	K
		tons coal	tons coal	MMBTU	MMBTU	tons wood	tons wood	tons wood	tons wood	tons wood	tons wood	tons wood
05	073				1.68E+02	7.04E+01	1.42E+02	8.79E+00	3.55E+00	1.21E+02	3.03E+00	7.50E+00
05	075			2.26E-01	2.64E+02	1.25E+02	2.51E+02	1.56E+01	6.28E+00	2.14E+02	5.36E+00	1.33E+01
05	077			5.54E-01	1.61E+02	7.70E+01	3.30E+02	2.04E+01	8.24E+00	6.26E+02	1.56E+01	3.88E+01
05	079			5.03E-02	1.05E+02	6.40E+01	2.74E+02	1.70E+01	6.85E+00	5.20E+02	1.30E+01	3.22E+01
05	081				1.77E+02	1.60E+02	3.22E+02	2.00E+01	8.06E+00	2.75E+02	6.88E+00	1.70E+01
05	083			1.26E-01	2.99E+02	1.43E+02	6.10E+02	3.78E+01	1.53E+01	1.16E+03	2.90E+01	7.18E+01
05	085			2.37E+00	4.20E+02	2.10E+02	4.22E+02	2.62E+01	1.06E+01	3.60E+02	9.01E+00	2.23E+01
05	087				8.01E+01	1.56E+02	6.69E+02	4.15E+01	1.67E+01	1.27E+03	3.18E+01	7.87E+01
05	089			9.06E-01	5.63E+01	1.70E+02	7.27E+02	4.50E+01	1.82E+01	1.38E+03	3.45E+01	8.55E+01
05	091			5.28E-01	6.68E+02	2.26E+02	4.55E+02	2.82E+01	1.14E+01	3.88E+02	9.71E+00	2.41E+01
05	093			6.54E-01	1.01E+03	5.53E+02	1.11E+03	6.90E+01	2.79E+01	9.51E+02	2.38E+01	5.89E+01
05	095			3.02E-01	1.55E+02	1.41E+02	2.85E+02	1.76E+01	7.11E+00	2.43E+02	6.07E+00	1.50E+01
05	097			1.76E-01	4.22E+01	1.07E+02	4.58E+02	2.84E+01	1.15E+01	8.70E+02	2.18E+01	5.39E+01
05	099			7.55E-02	1.50E+02	6.63E+01	2.84E+02	1.76E+01	7.10E+00	5.39E+02	1.35E+01	3.34E+01
05	101			2.26E-01	1.15E+00	1.05E+02	4.50E+02	2.79E+01	1.13E+01	8.55E+02	2.14E+01	5.29E+01
05	103			4.78E-01	5.84E+02	3.58E+02	7.22E+02	4.47E+01	1.80E+01	6.16E+02	1.54E+01	3.82E+01
05	105			1.51E-01	3.11E+01	1.09E+02	4.66E+02	2.88E+01	1.16E+01	8.84E+02	2.21E+01	5.48E+01
05	107			2.01E-01	5.00E+02	1.55E+02	3.13E+02	1.94E+01	7.83E+00	2.67E+02	6.68E+00	1.65E+01
05	109				1.07E+02	1.29E+02	5.51E+02	3.41E+01	1.38E+01	1.05E+03	2.62E+01	6.48E+01
05	111			3.27E-01	3.50E+02	1.45E+02	2.91E+02	1.80E+01	7.28E+00	2.49E+02	6.21E+00	1.54E+01
05	113			6.29E-01	1.67E+02	2.32E+02	9.91E+02	6.14E+01	2.48E+01	1.88E+03	4.71E+01	1.17E+02
05	115			1.01E+00	6.36E+02	4.85E+02	9.76E+02	6.05E+01	2.44E+01	8.33E+02	2.08E+01	5.16E+01
05	117			5.03E-01	8.86E+01	6.56E+01	1.32E+02	8.18E+00	3.30E+00	1.13E+02	2.82E+00	6.98E+00
05	119			2.97E+00	7.51E+03	1.94E+03	3.90E+03	2.41E+02	9.74E+01	3.32E+03	8.31E+01	2.06E+02
05	121			2.77E-01	1.67E+02	2.21E+02	9.45E+02	5.85E+01	2.36E+01	1.79E+03	4.49E+01	1.11E+02
05	123			7.80E-01	3.51E+02	2.82E+02	5.67E+02	3.51E+01	1.42E+01	4.84E+02	1.21E+01	3.00E+01
05	125			1.38E+00	1.06E+03	6.60E+02	2.82E+03	1.75E+02	7.06E+01	5.36E+03	1.34E+02	3.32E+02
05	127			3.27E-01	9.23E+01	1.36E+02	5.81E+02	3.60E+01	1.45E+01	1.10E+03	2.76E+01	6.84E+01
05	129			2.26E-01	2.07E+00	1.17E+02	5.00E+02	3.10E+01	1.25E+01	9.49E+02	2.37E+01	5.88E+01
05	131			1.33E+00	1.95E+03	5.95E+02	1.20E+03	7.42E+01	3.00E+01	1.02E+03	2.56E+01	6.33E+01
05	133			2.52E-02	1.57E+02	9.07E+01	3.88E+02	2.40E+01	9.70E+00	7.37E+02	1.84E+01	4.57E+01
05	135			5.79E-01	1.46E+01	2.43E+02	1.04E+03	6.45E+01	2.60E+01	1.98E+03	4.95E+01	1.23E+02
05	137				5.20E+00	1.30E+02	5.56E+02	3.44E+01	1.39E+01	1.06E+03	2.64E+01	6.54E+01
05	139			8.81E-01	9.11E+02	2.96E+02	5.97E+02	3.70E+01	1.49E+01	5.09E+02	1.27E+01	3.15E+01
05	141			8.05E-01	7.15E+01	2.05E+02	8.79E+02	5.45E+01	2.20E+01	1.67E+03	4.17E+01	1.03E+02
05	143			6.54E-01	2.17E+03	2.69E+03	5.41E+03	3.35E+02	1.35E+02	4.61E+03	1.15E+02	2.86E+02
05	145			1.16E+00	6.43E+02	3.06E+02	6.17E+02	3.82E+01	1.54E+01	5.26E+02	1.32E+01	3.26E+01
05	147				1.31E+02	6.30E+01	1.27E+02	7.87E+00	3.17E+00	1.08E+02	2.71E+00	6.71E+00
05	149			2.26E-01	2.01E+02	2.25E+02	9.61E+02	5.96E+01	2.40E+01	1.83E+03	4.56E+01	1.13E+02
06	001			1.30E+02	2.75E+04	9.87E+03	1.99E+04	1.23E+03	4.97E+02	1.70E+04	4.24E+02	1.05E+03
06	003			4.17E+00	4.48E-01	4.75E+01	2.03E+02	1.26E+01	5.08E+00	3.86E+02	9.65E+00	2.39E+01
06	005			1.36E+01	1.64E+02	3.95E+02	1.69E+03	1.05E+02	4.22E+01	3.21E+03	8.02E+01	1.99E+02
06	007			2.49E+01	2.95E+03	1.72E+03	7.36E+03	4.56E+02	1.84E+02	1.40E+04	3.49E+02	8.65E+02
06	009		2.62E+02	1.09E+01	6.58E+01	5.91E+02	2.53E+03	1.57E+02	6.32E+01	4.80E+03	1.20E+02	2.98E+02
06	011			1.16E+01	2.32E+02	1.80E+02	7.69E+02	4.76E+01	1.92E+01	1.46E+03	3.65E+01	9.04E+01
06	013		2.29E+02	6.29E+01	1.77E+04	7.51E+03	1.51E+04	9.37E+02	3.78E+02	1.29E+04	3.23E+02	7.99E+02
06	015			6.31E+01	5.61E+00	1.94E+02	8.28E+02	5.13E+01	2.07E+01	1.57E+03	3.93E+01	9.74E+01
06	017		2.46E+02	1.22E+02	7.08E+02	1.57E+03	6.74E+03	4.17E+02	1.68E+02	1.28E+04	3.20E+02	7.93E+02

To calculate allocation proportion of national emissions to county, divide number of county unit within an industry category by total (national) number of units within that category

A = Residential Heating: Anthracite Coal; SCC 2104001000

B = Residential Heating: Bituminous Lignite; SCC 2104002000

C = Residential Heating: Distillate Oil; SCC 2104004000

D = Residential Heating: Natural Gas; 2104006000

E = Fireplaces; SCC 2104008001

F = Fireplaces: Inserts; SCC 2104008002

G = Fireplaces: Inserts; non catalytic, EPA certified; SCC 2104008003

H = Fireplaces: Inserts; catalytic, EPA certified; SCC 2104008004

I = Conventional Woodstoves; SCC 2104008010

J = Catalytic Woodstoves; SCC 2104008030

K = Non-Catalytic Woodstoves; SCC 2104008050

Appendix E-3. Residential Heating County Allocations

State FIPS	County FIPS	A	B	C	D	E	F	G	H	I	J	K
		tons coal	tons coal	MMBTU	MMBTU	tons wood	tons wood	tons wood	tons wood	tons wood	tons wood	tons wood
06	019			4.72E+01	1.01E+04	5.45E+03	1.10E+04	6.80E+02	2.74E+02	9.37E+03	2.34E+02	5.80E+02
06	021			1.09E+01	3.18E+02	2.51E+02	1.08E+03	6.66E+01	2.69E+01	2.04E+03	5.10E+01	1.26E+02
06	023			9.66E+01	2.00E+03	1.33E+03	5.69E+03	3.53E+02	1.42E+02	1.08E+04	2.70E+02	6.70E+02
06	025			8.67E+00	8.30E+02	4.11E+02	8.27E+02	5.12E+01	2.07E+01	7.06E+02	1.76E+01	4.37E+01
06	027		6.56E+01	9.95E+00	4.13E+01	1.81E+02	7.74E+02	4.80E+01	1.94E+01	1.47E+03	3.68E+01	9.11E+01
06	029		1.15E+02	2.66E+01	9.84E+03	4.71E+03	9.49E+03	5.88E+02	2.37E+02	8.10E+03	2.02E+02	5.02E+02
06	031			2.41E+00	1.60E+03	7.72E+02	1.55E+03	9.63E+01	3.88E+01	1.33E+03	3.31E+01	8.21E+01
06	033		6.56E+01	1.76E+02	2.92E+01	6.42E+02	2.75E+03	1.70E+02	6.87E+01	5.22E+03	1.30E+02	3.23E+02
06	035			1.22E+02	1.38E+01	2.42E+02	4.88E+02	3.02E+01	1.22E+01	4.16E+02	1.04E+01	2.58E+01
06	037		3.08E+03	3.03E+02	1.82E+05	5.71E+04	1.15E+05	7.12E+03	2.87E+03	9.80E+04	2.45E+03	6.07E+03
06	039			1.69E+01	6.97E+02	9.07E+02	3.88E+03	2.41E+02	9.71E+01	7.37E+03	1.84E+02	4.57E+02
06	041			4.86E+01	5.39E+03	2.22E+03	4.47E+03	2.77E+02	1.12E+02	3.81E+03	9.54E+01	2.36E+02
06	043			5.94E+00	7.55E+00	1.92E+02	8.20E+02	5.08E+01	2.05E+01	1.56E+03	3.89E+01	9.65E+01
06	045		3.93E+02	2.89E+02	6.39E+02	8.86E+02	3.79E+03	2.35E+02	9.47E+01	7.20E+03	1.80E+02	4.46E+02
06	047			1.83E+01	2.43E+03	1.47E+03	2.97E+03	1.84E+02	7.42E+01	2.53E+03	6.33E+01	1.57E+02
06	049		4.92E+01	4.01E+01	1.27E+00	1.11E+02	4.74E+02	2.93E+01	1.18E+01	8.99E+02	2.25E+01	5.57E+01
06	051			8.99E+00	1.35E+01	2.56E+02	1.10E+03	6.79E+01	2.74E+01	2.08E+03	5.20E+01	1.29E+02
06	053		1.97E+02	7.95E+01	5.94E+03	2.59E+03	5.22E+03	3.23E+02	1.30E+02	4.45E+03	1.11E+02	2.76E+02
06	055			2.20E+01	2.30E+03	1.09E+03	2.20E+03	1.36E+02	5.49E+01	1.87E+03	4.68E+01	1.16E+02
06	057		3.11E+02	1.47E+02	4.32E+02	1.01E+03	4.31E+03	2.67E+02	1.08E+02	8.18E+03	2.05E+02	5.07E+02
06	059		2.62E+02	2.34E+01	4.94E+04	1.60E+04	3.23E+04	2.00E+03	8.08E+02	2.76E+04	6.89E+02	1.71E+03
06	061			1.10E+02	2.39E+03	5.04E+03	1.01E+04	6.28E+02	2.54E+02	8.65E+03	2.16E+02	5.36E+02
06	063		9.83E+01	6.39E+01	1.12E+01	2.94E+02	1.26E+03	7.81E+01	3.15E+01	2.39E+03	5.98E+01	1.48E+02
06	065		4.26E+02	5.87E+01	2.35E+04	5.47E+03	1.10E+04	6.82E+02	2.75E+02	9.40E+03	2.35E+02	5.82E+02
06	067			5.92E+01	1.77E+04	9.60E+03	4.11E+04	2.55E+03	1.03E+03	7.80E+04	1.95E+03	4.84E+03
06	069			1.20E+01	5.75E+02	3.20E+02	6.45E+02	4.00E+01	1.61E+01	5.50E+02	1.38E+01	3.41E+01
06	071		4.92E+02	8.48E+01	2.83E+04	7.18E+03	1.45E+04	8.95E+02	3.61E+02	1.23E+04	3.08E+02	7.64E+02
06	073		1.07E+03	5.39E+02	4.39E+04	1.74E+04	3.51E+04	2.17E+03	8.76E+02	2.99E+04	7.48E+02	1.85E+03
06	075		8.36E+02	2.37E+02	1.63E+04	2.04E+03	4.11E+03	2.55E+02	1.03E+02	3.51E+03	8.76E+01	2.17E+02
06	077		1.31E+02	5.30E+01	8.06E+03	3.95E+03	7.96E+03	4.93E+02	1.99E+02	6.79E+03	1.70E+02	4.21E+02
06	079			1.44E+01	4.28E+03	2.07E+03	4.16E+03	2.58E+02	1.04E+02	3.55E+03	8.88E+01	2.20E+02
06	081			7.82E+01	1.35E+04	5.34E+03	1.07E+04	6.66E+02	2.69E+02	9.17E+03	2.29E+02	5.68E+02
06	083			2.31E+01	7.84E+03	2.91E+03	5.86E+03	3.63E+02	1.46E+02	5.00E+03	1.25E+02	3.10E+02
06	085		9.83E+01	1.95E+02	2.82E+04	1.13E+04	2.27E+04	1.40E+03	5.67E+02	1.93E+04	4.83E+02	1.20E+03
06	087			1.38E+02	4.06E+03	2.27E+03	9.70E+03	6.01E+02	2.42E+02	1.84E+04	4.60E+02	1.14E+03
06	089			4.96E+01	1.56E+03	1.41E+03	2.84E+03	1.76E+02	7.10E+01	2.42E+03	6.06E+01	1.50E+02
06	091			1.43E+01		5.81E+01	2.49E+02	1.54E+01	6.22E+00	4.72E+02	1.18E+01	2.93E+01
06	093		2.13E+02	2.33E+02	2.79E+01	4.70E+02	2.01E+03	1.25E+02	5.03E+01	3.82E+03	9.56E+01	2.37E+02
06	095		1.80E+02	3.56E+01	6.27E+03	3.01E+03	6.06E+03	3.76E+02	1.52E+02	5.17E+03	1.29E+02	3.20E+02
06	097		2.29E+02	9.23E+01	7.70E+03	4.03E+03	8.11E+03	5.03E+02	2.03E+02	6.92E+03	1.73E+02	4.29E+02
06	099			2.89E+01	6.43E+03	3.41E+03	6.87E+03	4.26E+02	1.72E+02	5.86E+03	1.47E+02	3.63E+02
06	101			1.44E+01	1.13E+03	5.81E+02	1.17E+03	7.25E+01	2.93E+01	9.99E+02	2.50E+01	6.19E+01
06	103		2.13E+02	2.81E+01	5.21E+02	4.71E+02	2.01E+03	1.25E+02	5.03E+01	3.82E+03	9.56E+01	2.37E+02
06	105			1.83E+01	2.09E+00	1.84E+02	7.87E+02	4.87E+01	1.97E+01	1.49E+03	3.73E+01	9.25E+01
06	107		1.15E+02	1.64E+01	5.30E+03	6.62E+03	1.33E+04	8.26E+02	3.33E+02	1.14E+04	2.84E+02	7.05E+02
06	109		9.83E+01	3.77E+01	2.76E+01	7.08E+02	3.03E+03	1.88E+02	7.57E+01	5.75E+03	1.44E+02	3.56E+02
06	111		1.97E+02	1.96E+01	1.39E+04	5.30E+03	1.07E+04	6.61E+02	2.67E+02	9.11E+03	2.28E+02	5.64E+02
06	113		4.92E+01	2.65E+01	2.60E+03	1.05E+03	2.11E+03	1.30E+02	5.26E+01	1.80E+03	4.49E+01	1.11E+02

To calculate allocation proportion of national emissions to county, divide number of county unit within an industry category by total (national) number of units within that category

A = Residential Heating: Anthracite Coal; SCC 2104001000

B = Residential Heating: Bituminous Lignite; SCC 2104002000

C = Residential Heating: Distillate Oil; SCC 2104004000

D = Residential Heating: Natural Gas; 2104006000

E = Fireplaces; SCC 2104008001

F = Fireplaces: Inserts; SCC 2104008002

G = Fireplaces: Inserts; non catalytic, EPA certified; SCC 2104008003

H = Fireplaces: Inserts; catalytic, EPA certified; SCC 2104008004

I = Conventional Woodstoves; SCC 2104008010

J = Catalytic Woodstoves; SCC 2104008030

K = Non-Catalytic Woodstoves; SCC 2104008050

Appendix E-3. Residential Heating County Allocations

State FIPS	County FIPS	A	B	C	D	E	F	G	H	I	J	K
		tons coal	tons coal	MMBTU	MMBTU	tons wood	tons wood	tons wood	tons wood	tons wood	tons wood	tons wood
06	115		8.19E+01	1.46E+01	7.73E+02	4.87E+02	2.08E+03	1.29E+02	5.21E+01	3.96E+03	9.89E+01	2.45E+02
08	001		2.14E+02	8.20E+00	9.30E+03	2.25E+03	4.53E+03	2.81E+02	1.13E+02	3.86E+03	9.66E+01	2.39E+02
08	003		6.03E+01	6.25E+00	2.97E+02	4.06E+02	8.18E+02	5.07E+01	2.04E+01	6.98E+02	1.74E+01	4.32E+01
08	005		3.95E+02	2.51E+01	1.49E+04	3.36E+03	6.77E+03	4.20E+02	1.69E+02	5.78E+03	1.44E+02	3.58E+02
08	007		2.48E+02	2.92E+00	4.24E+01	1.63E+02	6.98E+02	4.33E+01	1.75E+01	1.33E+03	3.31E+01	8.21E+01
08	009				1.39E+02	1.66E+02	3.33E+02	2.07E+01	8.33E+00	2.84E+02	7.11E+00	1.76E+01
08	011			1.67E+00	1.44E+02	1.61E+02	3.24E+02	2.01E+01	8.11E+00	2.77E+02	6.92E+00	1.71E+01
08	013		4.75E+02	4.35E+01	8.07E+03	7.11E+03	1.43E+04	8.88E+02	3.58E+02	1.22E+04	3.06E+02	7.57E+02
08	015		3.28E+02	1.11E+00	2.76E+02	5.78E+02	1.16E+03	7.21E+01	2.91E+01	9.93E+02	2.48E+01	6.15E+01
08	017		6.70E+00	9.72E-01	5.37E+01	2.67E+01	5.37E+01	3.33E+00	1.34E+00	4.58E+01	1.15E+00	2.84E+00
08	019		1.34E+02	2.92E+00	1.86E+02	2.38E+02	1.02E+03	6.30E+01	2.54E+01	1.93E+03	4.83E+01	1.20E+02
08	021		1.07E+02	4.44E+00	1.06E+02	3.39E+02	6.83E+02	4.23E+01	1.71E+01	5.83E+02	1.46E+01	3.61E+01
08	023		4.69E+01		1.47E+00	8.76E+01	3.75E+02	2.32E+01	9.37E+00	7.11E+02	1.78E+01	4.41E+01
08	025		2.01E+01	9.72E-01	8.82E+01	3.55E+01	1.52E+02	9.40E+00	3.79E+00	2.88E+02	7.21E+00	1.79E+01
08	027		2.61E+02	1.67E+00	3.40E-01	1.14E+02	4.87E+02	3.02E+01	1.22E+01	9.24E+02	2.31E+01	5.73E+01
08	029		8.65E+03	5.83E+00	3.70E+02	2.74E+02	5.52E+02	3.42E+01	1.38E+01	4.71E+02	1.18E+01	2.92E+01
08	031		2.34E+02	4.99E+01	1.94E+04	4.08E+03	8.22E+03	5.09E+02	2.06E+02	7.01E+03	1.75E+02	4.35E+02
08	033		1.00E+02		2.13E+01	8.47E+01	1.70E+02	1.06E+01	4.26E+00	1.45E+02	3.64E+00	9.01E+00
08	035		1.47E+02	8.33E+00	1.84E+03	6.32E+02	2.71E+03	1.68E+02	6.77E+01	5.14E+03	1.28E+02	3.18E+02
08	037		4.42E+02	4.86E+00	4.57E+02	2.26E+02	9.65E+02	5.98E+01	2.41E+01	1.83E+03	4.58E+01	1.14E+02
08	039		2.34E+02	4.72E+00	6.62E+01	1.16E+02	4.94E+02	3.06E+01	1.24E+01	9.39E+02	2.35E+01	5.82E+01
08	041		7.30E+02	3.11E+01	1.36E+04	1.25E+04	2.51E+04	1.55E+03	6.27E+02	2.14E+04	5.35E+02	1.33E+03
08	043		7.77E+02	3.06E+00	9.81E+02	3.10E+02	1.33E+03	8.22E+01	3.32E+01	2.52E+03	6.30E+01	1.56E+02
08	045		1.17E+03	5.42E+00	8.06E+02	2.29E+02	4.60E+02	2.85E+01	1.15E+01	3.93E+02	9.82E+00	2.43E+01
08	047		2.68E+01		2.70E+01	1.44E+02	6.17E+02	3.82E+01	1.54E+01	1.17E+03	2.93E+01	7.26E+01
08	049		1.67E+02	5.14E+00	1.26E+02	6.10E+02	1.23E+03	7.61E+01	3.07E+01	1.05E+03	2.62E+01	6.49E+01
08	051		9.11E+02	1.14E+01	1.39E+02	5.25E+02	1.06E+03	6.55E+01	2.64E+01	9.02E+02	2.25E+01	5.59E+01
08	053		1.07E+02		2.27E-01	1.28E+02	2.58E+02	1.60E+01	6.45E+00	2.20E+02	5.50E+00	1.36E+01
08	055		6.16E+02	3.19E+00	1.18E+02	1.03E+02	2.08E+02	1.29E+01	5.20E+00	1.77E+02	4.43E+00	1.10E+01
08	057		6.70E+01		5.03E+01	1.23E+02	2.47E+02	1.53E+01	6.17E+00	2.11E+02	5.27E+00	1.31E+01
08	059		8.77E+02	4.65E+01	1.58E+04	4.25E+03	8.56E+03	5.30E+02	2.14E+02	7.30E+03	1.83E+02	4.53E+02
08	061			2.78E-01	4.50E+01	2.50E+01	5.03E+01	3.12E+00	1.26E+00	4.29E+01	1.07E+00	2.66E+00
08	063			9.72E-01	2.12E+02	8.79E+01	1.77E+02	1.10E+01	4.42E+00	1.51E+02	3.77E+00	9.35E+00
08	065		4.02E+02	6.11E+00	1.49E+02	1.67E+02	7.13E+02	4.42E+01	1.78E+01	1.35E+03	3.38E+01	8.39E+01
08	067		1.97E+03	1.06E+01	5.29E+02	5.94E+02	2.54E+03	1.57E+02	6.35E+01	4.82E+03	1.21E+02	2.99E+02
08	069		1.54E+02	2.14E+01	5.95E+03	6.28E+03	1.27E+04	7.84E+02	3.16E+02	1.08E+04	2.70E+02	6.69E+02
08	071		6.50E+02	2.36E+00	3.84E+02	1.78E+02	3.58E+02	2.22E+01	8.94E+00	3.05E+02	7.63E+00	1.89E+01
08	073		3.35E+01	2.92E+00	1.27E+02	5.96E+01	1.20E+02	7.44E+00	3.00E+00	1.02E+02	2.56E+00	6.35E+00
08	075		5.36E+01	5.28E+00	5.70E+02	2.14E+02	4.30E+02	2.67E+01	1.08E+01	3.67E+02	9.18E+00	2.27E+01
08	077		1.23E+03	1.00E+01	3.34E+03	8.68E+02	3.72E+03	2.30E+02	9.29E+01	7.06E+03	1.76E+02	4.37E+02
08	079					1.19E+02	2.40E+02	1.48E+01	5.99E+00	2.04E+02	5.11E+00	1.27E+01
08	081		1.78E+03	9.72E-01	2.96E+02	3.86E+02	7.78E+02	4.82E+01	1.94E+01	6.64E+02	1.66E+01	4.11E+01
08	083		1.21E+03	2.50E+00	2.17E+02	1.92E+02	3.87E+02	2.40E+01	9.67E+00	3.30E+02	8.25E+00	2.04E+01
08	085		3.22E+03	8.61E+00	4.53E+02	2.26E+02	9.68E+02	6.00E+01	2.42E+01	1.84E+03	4.60E+01	1.14E+02
08	087		2.41E+02	5.56E+00	5.72E+02	2.34E+02	4.72E+02	2.92E+01	1.18E+01	4.02E+02	1.01E+01	2.49E+01
08	089		1.47E+02	4.03E+00	7.11E+02	6.01E+02	1.21E+03	7.50E+01	3.03E+01	1.03E+03	2.58E+01	6.40E+01
08	091		4.55E+02	2.08E+00	3.40E-01	7.18E+01	3.07E+02	1.90E+01	7.68E+00	5.84E+02	1.46E+01	3.62E+01
08	093		2.21E+02	3.61E+00	4.54E-01	4.09E+02	1.75E+03	1.08E+02	4.38E+01	3.32E+03	8.31E+01	2.06E+02

To calculate allocation proportion of national emissions to county, divide number of county unit within an industry category by total (national) number of units within that category

A = Residential Heating: Anthracite Coal; SCC 2104001000

B = Residential Heating: Bituminous Lignite; SCC 2104002000

C = Residential Heating: Distillate Oil; SCC 2104004000

D = Residential Heating: Natural Gas; 2104006000

E = Fireplaces; SCC 2104008001

F = Fireplaces: Inserts; SCC 2104008002

G = Fireplaces: Inserts; non catalytic, EPA certified; SCC 2104008003

H = Fireplaces: Inserts; catalytic, EPA certified; SCC 2104008004

I = Conventional Woodstoves; SCC 2104008010

J = Catalytic Woodstoves; SCC 2104008030

K = Non-Catalytic Woodstoves; SCC 2104008050

Appendix E-3. Residential Heating County Allocations

State FIPS	County FIPS	A	B	C	D	E	F	G	H	I	J	K
		tons coal	tons coal	MMBTU	MMBTU	tons wood	tons wood	tons wood	tons wood	tons wood	tons wood	tons wood
08	095		2.01E+01	1.22E+01	1.19E+02	5.70E+01	1.15E+02	7.11E+00	2.87E+00	9.78E+01	2.45E+00	6.06E+00
08	097		2.68E+01	1.25E+00	3.18E+02	4.45E+02	8.97E+02	5.56E+01	2.24E+01	7.65E+02	1.91E+01	4.74E+01
08	099			1.11E+00	4.61E+02	3.68E+02	7.41E+02	4.59E+01	1.85E+01	6.32E+02	1.58E+01	3.92E+01
08	101		3.68E+02	9.31E+00	4.49E+03	1.32E+03	2.66E+03	1.65E+02	6.66E+01	2.27E+03	5.68E+01	1.41E+02
08	103		6.70E+02	8.33E-01	1.57E+02	2.27E+02	4.57E+02	2.83E+01	1.14E+01	3.90E+02	9.76E+00	2.42E+01
08	105		1.41E+02	1.18E+01	1.87E+02	4.85E+02	9.77E+02	6.05E+01	2.44E+01	8.34E+02	2.08E+01	5.17E+01
08	107		4.11E+03	8.33E-01	1.87E+02	5.22E+02	1.05E+03	6.51E+01	2.63E+01	8.97E+02	2.24E+01	5.56E+01
08	109			4.31E+00	6.36E+01	1.96E+02	3.95E+02	2.45E+01	9.88E+00	3.37E+02	8.43E+00	2.09E+01
08	111		3.68E+02	4.17E-01		4.43E+01	8.92E+01	5.52E+00	2.23E+00	7.61E+01	1.90E+00	4.71E+00
08	113		4.02E+01	6.95E-01	4.30E+01	1.80E+02	3.63E+02	2.25E+01	9.07E+00	3.09E+02	7.74E+00	1.92E+01
08	115		2.01E+01	5.14E+00	8.10E+01	4.27E+01	8.60E+01	5.33E+00	2.15E+00	7.33E+01	1.83E+00	4.54E+00
08	117		4.02E+01	4.17E+00	2.42E+02	2.88E+02	1.23E+03	7.63E+01	3.08E+01	2.34E+03	5.85E+01	1.45E+02
08	119		1.34E+02	3.47E+00	1.71E+02	3.87E+02	1.66E+03	1.03E+02	4.14E+01	3.14E+03	7.86E+01	1.95E+02
08	121			1.67E+00	8.64E+01	6.21E+01	2.66E+02	1.65E+01	6.64E+00	5.04E+02	1.26E+01	3.12E+01
08	123		4.49E+02	3.40E+01	4.16E+03	1.13E+03	2.28E+03	1.42E+02	5.71E+01	1.95E+03	4.87E+01	1.21E+02
08	125		6.70E+00	4.31E+00	2.38E+02	1.17E+02	2.36E+02	1.46E+01	5.90E+00	2.01E+02	5.03E+00	1.25E+01
09	001	2.49E+02		1.35E+05	1.04E+04	6.76E+03	1.36E+04	8.43E+02	3.40E+02	1.16E+04	2.90E+02	7.20E+02
09	003	8.44E+02		1.25E+05	1.40E+04	5.98E+03	2.56E+04	1.59E+03	6.40E+02	4.86E+04	1.22E+03	3.01E+03
09	005	3.18E+02		3.32E+04	9.79E+02	1.73E+03	7.39E+03	4.58E+02	1.85E+02	1.40E+04	3.51E+02	8.69E+02
09	007	3.46E+02		2.86E+04	5.32E+02	1.38E+03	5.89E+03	3.65E+02	1.47E+02	1.12E+04	2.79E+02	6.93E+02
09	009	4.80E+02		1.32E+05	1.02E+04	5.95E+03	1.20E+04	7.43E+02	3.00E+02	1.02E+04	2.56E+02	6.34E+02
09	011	3.25E+02		4.81E+04	1.13E+03	2.15E+03	9.21E+03	5.71E+02	2.30E+02	1.75E+04	4.37E+02	1.08E+03
09	013	2.46E+02		2.41E+04	3.97E+02	1.14E+03	2.29E+03	1.42E+02	5.72E+01	1.95E+03	4.88E+01	1.21E+02
09	015	1.92E+02		1.91E+04	4.70E+02	8.39E+02	3.59E+03	2.22E+02	8.97E+01	6.81E+03	1.70E+02	4.22E+02
10	001	1.52E+02		9.78E+03	1.01E+03	9.07E+02	3.88E+03	2.41E+02	9.71E+01	7.37E+03	1.84E+02	4.57E+02
10	003	3.79E+02		2.43E+04	7.77E+03	3.37E+03	1.44E+04	8.95E+02	3.61E+02	2.74E+04	6.86E+02	1.70E+03
10	005	6.86E+01		4.41E+03	2.14E+02	1.61E+03	6.88E+03	4.26E+02	1.72E+02	1.31E+04	3.27E+02	8.09E+02
11	001		2.10E+03	8.82E+03	1.40E+04	3.04E+03	6.13E+03	3.80E+02	1.53E+02	5.23E+03	1.31E+02	3.24E+02
12	001		2.66E+01	7.24E+01	6.30E+02	7.56E+02	1.52E+03	9.43E+01	3.81E+01	1.30E+03	3.25E+01	8.05E+01
12	003			7.74E+00	2.99E+00	6.34E+01	2.71E+02	1.68E+01	6.78E+00	5.15E+02	1.29E+01	3.19E+01
12	005		6.20E+01	2.05E+01	4.11E+02	6.76E+02	1.36E+03	8.44E+01	3.40E+01	1.16E+03	2.90E+01	7.20E+01
12	007		2.66E+01	1.37E+01	3.56E+01	1.10E+02	4.73E+02	2.93E+01	1.18E+01	8.98E+02	2.24E+01	5.56E+01
12	009			1.46E+02	7.37E+02	2.10E+03	4.23E+03	2.62E+02	1.06E+02	3.61E+03	9.02E+01	2.23E+02
12	011		2.22E+02	5.13E+01	9.11E+02	4.66E+03	9.38E+03	5.81E+02	2.35E+02	8.01E+03	2.00E+02	4.96E+02
12	013			8.87E-01	2.73E+01	6.32E+01	2.71E+02	1.68E+01	6.76E+00	5.14E+02	1.28E+01	3.18E+01
12	015			9.51E+00	3.08E+01	8.72E+02	3.73E+03	2.31E+02	9.32E+01	7.08E+03	1.77E+02	4.39E+02
12	017			1.81E+01	2.49E+01	6.27E+02	2.68E+03	1.66E+02	6.70E+01	5.09E+03	1.27E+02	3.16E+02
12	019			6.16E+01	6.66E+00	5.47E+02	2.34E+03	1.45E+02	5.86E+01	4.45E+03	1.11E+02	2.76E+02
12	021		4.43E+01	8.67E+00	3.21E+01	7.67E+02	3.28E+03	2.03E+02	8.20E+01	6.23E+03	1.56E+02	3.86E+02
12	023			1.66E+01	1.07E+02	2.10E+02	8.97E+02	5.56E+01	2.24E+01	1.70E+03	4.26E+01	1.06E+02
12	027		7.09E+01	8.06E+00	5.02E+00	1.12E+02	4.79E+02	2.97E+01	1.20E+01	9.10E+02	2.28E+01	5.64E+01
12	029			5.14E+00	5.46E+00	5.98E+01	2.56E+02	1.59E+01	6.40E+00	4.86E+02	1.22E+01	3.01E+01
12	031		1.95E+02	8.43E+02	6.60E+02	3.27E+03	6.59E+03	4.08E+02	1.65E+02	5.62E+03	1.41E+02	3.48E+02
12	033			9.75E+00	1.42E+03	1.54E+03	6.57E+03	4.07E+02	1.64E+02	1.25E+04	3.12E+02	7.73E+02
12	035		7.09E+01	9.59E+00	1.78E+00	2.20E+02	9.43E+02	5.85E+01	2.36E+01	1.79E+03	4.48E+01	1.11E+02
12	037			3.28E+00	7.25E+00	7.85E+01	3.36E+02	2.08E+01	8.40E+00	6.38E+02	1.60E+01	3.95E+01
12	039			8.63E+00	1.12E+02	1.99E+02	8.52E+02	5.28E+01	2.13E+01	1.62E+03	4.04E+01	1.00E+02
12	041			5.58E+00	2.40E+00	4.13E+01	1.77E+02	1.10E+01	4.42E+00	3.36E+02	8.40E+00	2.08E+01

To calculate allocation proportion of national emissions to county, divide number of county unit within an industry category by total (national) number of units within that category

A = Residential Heating: Anthracite Coal; SCC 2104001000

B = Residential Heating: Bituminous Lignite; SCC 2104002000

C = Residential Heating: Distillate Oil; SCC 2104004000

D = Residential Heating: Natural Gas; 2104006000

E = Fireplaces; SCC 2104008001

F = Fireplaces: Inserts; SCC 2104008002

G = Fireplaces: Inserts; non catalytic, EPA certified; SCC 2104008003

H = Fireplaces: Inserts; catalytic, EPA certified; SCC 2104008004

I = Conventional Woodstoves; SCC 2104008010

J = Catalytic Woodstoves; SCC 2104008030

K = Non-Catalytic Woodstoves; SCC 2104008050

Appendix E-3. Residential Heating County Allocations

State FIPS	County FIPS	A	B	C	D	E	F	G	H	I	J	K
		tons coal	tons coal	MMBTU	MMBTU	tons wood	tons wood	tons wood	tons wood	tons wood	tons wood	tons wood
12	043			1.49E+00	5.10E-01	3.64E+01	1.56E+02	9.65E+00	3.89E+00	2.96E+02	7.39E+00	1.83E+01
12	045			9.47E-01	6.50E+01	8.57E+01	3.67E+02	2.27E+01	9.17E+00	6.97E+02	1.74E+01	4.32E+01
12	047			2.88E+00	1.97E+01	4.84E+01	2.07E+02	1.28E+01	5.18E+00	3.93E+02	9.83E+00	2.44E+01
12	049			5.78E+00	5.64E+00	1.01E+02	4.32E+02	2.68E+01	1.08E+01	8.21E+02	2.05E+01	5.09E+01
12	051			5.70E+00	1.60E+00	1.03E+02	4.41E+02	2.73E+01	1.10E+01	8.37E+02	2.09E+01	5.19E+01
12	053			1.37E+01	8.08E+01	7.07E+02	3.02E+03	1.87E+02	7.56E+01	5.74E+03	1.44E+02	3.56E+02
12	055			1.33E+01	4.56E+01	4.62E+02	1.98E+03	1.22E+02	4.94E+01	3.75E+03	9.38E+01	2.32E+02
12	057			2.90E+02	4.73E+02	4.20E+03	1.80E+04	1.11E+03	4.49E+02	3.41E+04	8.53E+02	2.11E+03
12	059			2.26E+00	4.66E+00	9.81E+01	4.20E+02	2.60E+01	1.05E+01	7.97E+02	1.99E+01	4.94E+01
12	061			2.81E+01	1.17E+01	5.47E+02	2.34E+03	1.45E+02	5.85E+01	4.44E+03	1.11E+02	2.75E+02
12	063			8.73E+00	6.41E+01	2.32E+02	9.93E+02	6.15E+01	2.48E+01	1.89E+03	4.71E+01	1.17E+02
12	065			8.83E+00	6.34E+00	6.01E+01	2.57E+02	1.59E+01	6.43E+00	4.88E+02	1.22E+01	3.03E+01
12	067			1.29E+00	1.57E+00	2.77E+01	1.18E+02	7.34E+00	2.96E+00	2.25E+02	5.62E+00	1.39E+01
12	069			5.47E+01	3.27E+02	8.02E+02	3.43E+03	2.13E+02	8.58E+01	6.52E+03	1.63E+02	4.04E+02
12	071			2.77E+01	6.40E+01	1.89E+03	8.10E+03	5.02E+02	2.02E+02	1.54E+04	3.84E+02	9.53E+02
12	073			1.07E+02	2.76E+02	8.10E+02	1.63E+03	1.01E+02	4.08E+01	1.39E+03	3.48E+01	8.63E+01
12	075		3.54E+01	1.43E+01	2.00E+01	1.30E+02	5.58E+02	3.46E+01	1.40E+01	1.06E+03	2.65E+01	6.57E+01
12	077			7.05E-01	2.18E+00	2.34E+01	1.00E+02	6.20E+00	2.50E+00	1.90E+02	4.75E+00	1.18E+01
12	079			3.87E+00	3.72E+01	8.32E+01	3.56E+02	2.21E+01	8.90E+00	6.76E+02	1.69E+01	4.19E+01
12	081			6.87E+01	9.88E+01	1.02E+03	4.36E+03	2.70E+02	1.09E+02	8.28E+03	2.07E+02	5.13E+02
12	083			1.06E+02	3.41E+02	1.09E+03	4.66E+03	2.89E+02	1.17E+02	8.86E+03	2.21E+02	5.49E+02
12	085			8.52E+00	3.27E+01	5.36E+02	2.29E+03	1.42E+02	5.74E+01	4.36E+03	1.09E+02	2.70E+02
12	086		3.01E+02	1.23E+02	1.64E+03	6.48E+03	2.77E+04	1.72E+03	6.93E+02	5.27E+04	1.32E+03	3.26E+03
12	087			8.75E+00	1.78E+01	4.18E+02	1.79E+03	1.11E+02	4.47E+01	3.39E+03	8.48E+01	2.10E+02
12	089			2.17E+01	5.86E+00	1.99E+02	8.53E+02	5.28E+01	2.13E+01	1.62E+03	4.05E+01	1.00E+02
12	091		3.54E+01	3.10E+00	7.03E+02	7.59E+02	3.25E+03	2.01E+02	8.12E+01	6.17E+03	1.54E+02	3.82E+02
12	093			6.81E+00	2.77E+00	1.17E+02	5.01E+02	3.10E+01	1.25E+01	9.51E+02	2.38E+01	5.89E+01
12	095		1.86E+02	3.67E+02	7.09E+02	3.27E+03	1.40E+04	8.67E+02	3.50E+02	2.66E+04	6.64E+02	1.65E+03
12	097			2.35E+01	4.53E+01	5.26E+02	2.25E+03	1.39E+02	5.63E+01	4.27E+03	1.07E+02	2.65E+02
12	099		2.57E+02	6.00E+01	5.24E+02	3.61E+03	7.27E+03	4.50E+02	1.82E+02	6.20E+03	1.55E+02	3.84E+02
12	101		9.75E+01	4.33E+01	3.32E+01	1.78E+03	7.63E+03	4.73E+02	1.91E+02	1.45E+04	3.62E+02	8.98E+02
12	103		1.15E+02	6.38E+02	1.13E+03	4.40E+03	8.86E+03	5.49E+02	2.21E+02	7.56E+03	1.89E+02	4.68E+02
12	105		3.54E+01	1.68E+02	3.85E+02	2.09E+03	8.93E+03	5.53E+02	2.23E+02	1.70E+04	4.24E+02	1.05E+03
12	107			3.49E+01	1.68E+02	3.36E+02	1.44E+03	8.90E+01	3.59E+01	2.73E+03	6.82E+01	1.69E+02
12	109			6.40E+01	1.16E+01	4.68E+02	2.00E+03	1.24E+02	5.00E+01	3.80E+03	9.50E+01	2.36E+02
12	111			1.85E+01	1.49E+02	8.72E+02	1.76E+03	1.09E+02	4.39E+01	1.50E+03	3.75E+01	9.29E+01
12	113			5.24E+00	2.21E+02	4.74E+02	2.03E+03	1.26E+02	5.08E+01	3.86E+03	9.64E+01	2.39E+02
12	115		1.24E+02	1.19E+02	1.08E+02	1.76E+03	7.53E+03	4.67E+02	1.88E+02	1.43E+04	3.58E+02	8.86E+02
12	117		4.43E+01	1.16E+02	3.35E+02	1.54E+03	6.59E+03	4.08E+02	1.65E+02	1.25E+04	3.13E+02	7.75E+02
12	119			1.44E+01	6.04E+00	1.49E+02	6.37E+02	3.95E+01	1.59E+01	1.21E+03	3.02E+01	7.50E+01
12	121			1.03E+01	4.90E+01	1.28E+02	5.49E+02	3.40E+01	1.37E+01	1.04E+03	2.61E+01	6.46E+01
12	123			2.26E+00	6.24E+01	1.01E+02	4.31E+02	2.67E+01	1.08E+01	8.19E+02	2.05E+01	5.08E+01
12	125			4.88E+00	3.57E+00	3.23E+01	1.38E+02	8.56E+00	3.45E+00	2.62E+02	6.56E+00	1.63E+01
12	127		1.51E+02	2.88E+02	4.68E+02	2.15E+03	4.32E+03	2.68E+02	1.08E+02	3.69E+03	9.22E+01	2.28E+02
12	129			3.95E+00	3.68E+00	6.99E+01	2.99E+02	1.85E+01	7.47E+00	5.68E+02	1.42E+01	3.52E+01
12	131			2.02E+00	4.03E+01	2.19E+02	9.37E+02	5.80E+01	2.34E+01	1.78E+03	4.45E+01	1.10E+02
12	133			2.94E+00	3.56E+01	1.13E+02	4.82E+02	2.99E+01	1.21E+01	9.16E+02	2.29E+01	5.68E+01
13	001			8.46E+00	8.19E+01	9.13E+01	3.91E+02	2.42E+01	9.76E+00	7.42E+02	1.85E+01	4.59E+01

To calculate allocation proportion of national emissions to county, divide number of county unit within an industry category by total (national) number of units within that category

A = Residential Heating: Anthracite Coal; SCC 2104001000

B = Residential Heating: Bituminous Lignite; SCC 2104002000

C = Residential Heating: Distillate Oil; SCC 2104004000

D = Residential Heating: Natural Gas; 2104006000

E = Fireplaces; SCC 2104008001

F = Fireplaces: Inserts; SCC 2104008002

G = Fireplaces: Inserts; non catalytic, EPA certified; SCC 2104008003

H = Fireplaces: Inserts; catalytic, EPA certified; SCC 2104008004

I = Conventional Woodstoves; SCC 2104008010

J = Catalytic Woodstoves; SCC 2104008030

K = Non-Catalytic Woodstoves; SCC 2104008050

Appendix E-3. Residential Heating County Allocations

State FIPS	County FIPS	A	B	C	D	E	F	G	H	I	J	K
		tons coal	tons coal	MMBTU	MMBTU	tons wood	tons wood	tons wood	tons wood	tons wood	tons wood	tons wood
13	003			3.19E+00	6.12E+00	3.05E+01	1.31E+02	8.10E+00	3.27E+00	2.48E+02	6.21E+00	1.54E+01
13	005			2.47E+00	8.25E+01	5.21E+01	2.23E+02	1.38E+01	5.57E+00	4.23E+02	1.06E+01	2.62E+01
13	007			1.50E+00	3.69E+00	2.02E+01	8.64E+01	5.36E+00	2.16E+00	1.64E+02	4.10E+00	1.02E+01
13	009			3.38E+00	4.65E+02	1.89E+02	8.11E+02	5.02E+01	2.03E+01	1.54E+03	3.85E+01	9.54E+01
13	011			7.22E+00	3.60E+01	1.07E+02	4.56E+02	2.83E+01	1.14E+01	8.67E+02	2.17E+01	5.37E+01
13	013			2.21E+01	2.45E+02	3.05E+02	1.30E+03	8.08E+01	3.26E+01	2.48E+03	6.19E+01	1.53E+02
13	015		2.60E+02	2.56E+01	6.92E+02	5.31E+02	2.27E+03	1.41E+02	5.68E+01	4.31E+03	1.08E+02	2.67E+02
13	017			4.69E+00	1.36E+02	9.01E+01	1.82E+02	1.12E+01	4.54E+00	1.55E+02	3.87E+00	9.59E+00
13	019			1.03E+01	8.78E+01	7.85E+01	3.36E+02	2.08E+01	8.39E+00	6.37E+02	1.59E+01	3.95E+01
13	021		9.57E+01	1.39E+01	3.06E+03	7.92E+02	1.59E+03	9.88E+01	3.99E+01	1.36E+03	3.40E+01	8.43E+01
13	023			4.82E+00	1.10E+02	6.53E+01	2.80E+02	1.73E+01	6.99E+00	5.31E+02	1.33E+01	3.29E+01
13	025			6.51E+00	3.77E+00	4.85E+01	2.07E+02	1.29E+01	5.19E+00	3.94E+02	9.85E+00	2.44E+01
13	027			4.95E+00	8.22E+01	8.27E+01	3.54E+02	2.19E+01	8.85E+00	6.72E+02	1.68E+01	4.17E+01
13	029			9.63E+00	6.49E+01	7.22E+01	3.09E+02	1.91E+01	7.73E+00	5.87E+02	1.47E+01	3.64E+01
13	031		1.09E+02	2.90E+01	1.74E+02	1.87E+02	8.02E+02	4.97E+01	2.00E+01	1.52E+03	3.81E+01	9.43E+01
13	033			1.47E+01	1.12E+02	1.04E+02	4.45E+02	2.76E+01	1.11E+01	8.45E+02	2.11E+01	5.23E+01
13	035		8.21E+01	7.74E+00	9.67E+01	1.57E+02	6.73E+02	4.17E+01	1.68E+01	1.28E+03	3.20E+01	7.92E+01
13	037			2.73E+00	2.09E+01	5.58E+01	1.12E+02	6.96E+00	2.81E+00	9.59E+01	2.40E+00	5.94E+00
13	039			8.72E+00	9.48E+01	1.19E+02	2.40E+02	1.49E+01	6.01E+00	2.05E+02	5.12E+00	1.27E+01
13	043			7.16E+00	6.75E+00	4.04E+01	8.14E+01	5.05E+00	2.04E+00	6.95E+01	1.74E+00	4.30E+00
13	045		1.78E+02	2.11E+01	9.51E+02	6.87E+02	2.94E+03	1.82E+02	7.35E+01	5.58E+03	1.40E+02	3.46E+02
13	047		6.16E+02	5.99E+01	1.26E+02	4.56E+02	1.95E+03	1.21E+02	4.88E+01	3.71E+03	9.27E+01	2.30E+02
13	049			5.86E+00	4.60E+01	3.71E+01	1.59E+02	9.82E+00	3.96E+00	3.01E+02	7.53E+00	1.87E+01
13	051		2.05E+02	9.93E+01	3.93E+03	1.06E+03	2.14E+03	1.33E+02	5.36E+01	1.83E+03	4.57E+01	1.13E+02
13	053			1.63E+00	1.04E+02	1.73E+01	7.39E+01	4.58E+00	1.85E+00	1.40E+02	3.51E+00	8.70E+00
13	055		5.47E+01	2.27E+01	3.09E+02	2.53E+02	1.08E+03	6.71E+01	2.71E+01	2.06E+03	5.15E+01	1.28E+02
13	057		3.01E+02	3.72E+01	1.62E+03	1.08E+03	4.61E+03	2.86E+02	1.15E+02	8.76E+03	2.19E+02	5.43E+02
13	059			3.07E+01	1.40E+03	6.13E+02	1.23E+03	7.65E+01	3.09E+01	1.05E+03	2.63E+01	6.52E+01
13	061			1.56E+00	2.35E+01	2.25E+01	9.64E+01	5.97E+00	2.41E+00	1.83E+02	4.57E+00	1.13E+01
13	063		2.19E+02	1.63E+01	3.71E+03	8.86E+02	3.79E+03	2.35E+02	9.47E+01	7.20E+03	1.80E+02	4.46E+02
13	065			5.53E+00	2.90E+01	3.08E+01	6.21E+01	3.84E+00	1.55E+00	5.29E+01	1.32E+00	3.28E+00
13	067		2.05E+02	3.43E+01	1.07E+04	4.47E+03	1.91E+04	1.19E+03	4.78E+02	3.63E+04	9.08E+02	2.25E+03
13	069			5.08E+00	1.38E+02	1.48E+02	6.33E+02	3.92E+01	1.58E+01	1.20E+03	3.01E+01	7.45E+01
13	071			2.38E+01	2.41E+02	2.00E+02	8.56E+02	5.30E+01	2.14E+01	1.63E+03	4.06E+01	1.01E+02
13	073			1.54E+01	9.24E+02	7.05E+02	3.02E+03	1.87E+02	7.54E+01	5.73E+03	1.43E+02	3.55E+02
13	075			1.21E+01	7.18E+01	7.33E+01	1.48E+02	9.14E+00	3.69E+00	1.26E+02	3.15E+00	7.80E+00
13	077			2.63E+01	7.27E+02	5.98E+02	2.56E+03	1.58E+02	6.40E+01	4.86E+03	1.21E+02	3.01E+02
13	079			2.54E+00	3.29E+01	7.63E+01	3.27E+02	2.02E+01	8.17E+00	6.20E+02	1.55E+01	3.84E+01
13	081			6.77E+00	1.98E+02	1.01E+02	2.04E+02	1.27E+01	5.11E+00	1.74E+02	4.36E+00	1.08E+01
13	083		1.37E+02	1.37E+01	6.21E+01	1.30E+02	5.57E+02	3.45E+01	1.39E+01	1.06E+03	2.64E+01	6.55E+01
13	085			1.65E+01	6.43E+00	1.10E+02	4.70E+02	2.91E+01	1.17E+01	8.92E+02	2.23E+01	5.52E+01
13	087			1.09E+01	1.08E+02	1.45E+02	6.20E+02	3.84E+01	1.55E+01	1.18E+03	2.94E+01	7.30E+01
13	089			2.79E+01	1.24E+04	4.99E+03	2.13E+04	1.32E+03	5.33E+02	4.05E+04	1.01E+03	2.51E+03
13	091			4.30E+00	1.57E+02	1.03E+02	4.42E+02	2.74E+01	1.10E+01	8.39E+02	2.10E+01	5.20E+01
13	093			3.19E+00	9.02E+01	5.20E+01	1.05E+02	6.49E+00	2.62E+00	8.93E+01	2.23E+00	5.53E+00
13	095		2.74E+02	1.42E+01	1.19E+03	4.32E+02	8.71E+02	5.39E+01	2.18E+01	7.43E+02	1.86E+01	4.60E+01
13	097			1.38E+01	1.25E+03	7.52E+02	3.22E+03	1.99E+02	8.05E+01	6.11E+03	1.53E+02	3.79E+02
13	099			4.75E+00	6.42E+01	6.74E+01	1.36E+02	8.41E+00	3.39E+00	1.16E+02	2.90E+00	7.18E+00

To calculate allocation proportion of national emissions to county, divide number of county unit within an industry category by total (national) number of units within that category

A = Residential Heating: Anthracite Coal; SCC 2104001000

B = Residential Heating: Bituminous Lignite; SCC 2104002000

C = Residential Heating: Distillate Oil; SCC 2104004000

D = Residential Heating: Natural Gas; 2104006000

E = Fireplaces; SCC 2104008001

F = Fireplaces: Inserts; SCC 2104008002

G = Fireplaces: Inserts; non catalytic, EPA certified; SCC 2104008003

H = Fireplaces: Inserts; catalytic, EPA certified; SCC 2104008004

I = Conventional Woodstoves; SCC 2104008010

J = Catalytic Woodstoves; SCC 2104008030

K = Non-Catalytic Woodstoves; SCC 2104008050

Appendix E-3. Residential Heating County Allocations

State FIPS	County FIPS	A	B	C	D	E	F	G	H	I	J	K
		tons coal	tons coal	MMBTU	MMBTU	tons wood	tons wood	tons wood	tons wood	tons wood	tons wood	tons wood
13	101			7.81E-01	1.49E+00	1.11E+01	4.76E+01	2.95E+00	1.19E+00	9.04E+01	2.26E+00	5.60E+00
13	103			1.75E+01	1.21E+02	1.11E+02	4.75E+02	2.94E+01	1.19E+01	9.02E+02	2.25E+01	5.59E+01
13	105			1.76E+01	2.53E+02	2.08E+02	8.88E+02	5.50E+01	2.22E+01	1.69E+03	4.22E+01	1.04E+02
13	107			1.30E+01	1.97E+02	1.14E+02	2.30E+02	1.42E+01	5.75E+00	1.96E+02	4.90E+00	1.22E+01
13	109			4.56E+00	5.22E+01	4.68E+01	2.00E+02	1.24E+01	5.00E+00	3.80E+02	9.50E+00	2.35E+01
13	111		9.57E+01	9.87E+01	2.35E+00	2.50E+02	1.07E+03	6.64E+01	2.68E+01	2.04E+03	5.09E+01	1.26E+02
13	113			1.41E+01	1.17E+03	6.86E+02	1.38E+03	8.55E+01	3.45E+01	1.18E+03	2.94E+01	7.30E+01
13	115			1.85E+01	1.62E+03	9.15E+02	3.92E+03	2.43E+02	9.79E+01	7.44E+03	1.86E+02	4.61E+02
13	117			5.50E+01	4.28E+02	5.14E+02	2.20E+03	1.36E+02	5.50E+01	4.18E+03	1.04E+02	2.59E+02
13	119			1.21E+01	1.02E+02	2.00E+02	8.55E+02	5.30E+01	2.14E+01	1.62E+03	4.06E+01	1.01E+02
13	121		4.51E+02	9.34E+01	1.51E+04	5.12E+03	1.03E+04	6.39E+02	2.58E+02	8.80E+03	2.20E+02	5.45E+02
13	123			5.37E+01	4.71E+01	1.88E+02	8.05E+02	4.99E+01	2.01E+01	1.53E+03	3.82E+01	9.47E+01
13	125			8.46E-01	1.75E+01	2.65E+01	1.13E+02	7.03E+00	2.84E+00	2.15E+02	5.38E+00	1.33E+01
13	127			2.71E+01	7.93E+02	3.57E+02	1.53E+03	9.46E+01	3.82E+01	2.90E+03	7.25E+01	1.80E+02
13	129		5.47E+01	2.25E+01	3.56E+02	3.77E+02	1.61E+03	9.99E+01	4.03E+01	3.06E+03	7.65E+01	1.90E+02
13	131		9.57E+01	9.05E+00	1.43E+02	2.08E+02	8.89E+02	5.51E+01	2.22E+01	1.69E+03	4.22E+01	1.05E+02
13	133			1.22E+01	1.05E+02	1.33E+02	5.70E+02	3.53E+01	1.42E+01	1.08E+03	2.71E+01	6.70E+01
13	135		3.83E+02	3.34E+01	7.70E+03	3.55E+03	1.52E+04	9.41E+02	3.80E+02	2.88E+04	7.21E+02	1.79E+03
13	137			2.51E+01	2.19E+02	3.07E+02	1.31E+03	8.14E+01	3.28E+01	2.49E+03	6.23E+01	1.55E+02
13	139		9.57E+01	6.80E+01	1.19E+03	9.62E+02	4.12E+03	2.55E+02	1.03E+02	7.82E+03	1.95E+02	4.84E+02
13	141			2.99E+00	5.44E+01	4.71E+01	2.02E+02	1.25E+01	5.04E+00	3.83E+02	9.57E+00	2.37E+01
13	143			4.49E+00	2.45E+02	2.28E+02	9.75E+02	6.04E+01	2.44E+01	1.85E+03	4.63E+01	1.15E+02
13	145			4.17E+00	3.02E+01	2.19E+02	9.36E+02	5.80E+01	2.34E+01	1.78E+03	4.44E+01	1.10E+02
13	147			2.21E+01	1.54E+02	2.42E+02	1.04E+03	6.42E+01	2.59E+01	1.97E+03	4.92E+01	1.22E+02
13	149			2.80E+00	2.49E+01	7.98E+01	3.41E+02	2.11E+01	8.53E+00	6.48E+02	1.62E+01	4.02E+01
13	151			2.63E+01	8.83E+02	6.50E+02	2.78E+03	1.72E+02	6.96E+01	5.28E+03	1.32E+02	3.27E+02
13	153			9.50E+00	9.38E+02	4.39E+02	8.84E+02	5.48E+01	2.21E+01	7.54E+02	1.89E+01	4.67E+01
13	155			3.84E+00	3.66E+01	4.81E+01	2.06E+02	1.28E+01	5.15E+00	3.91E+02	9.78E+00	2.42E+01
13	157			1.25E+01	2.51E+02	2.90E+02	1.24E+03	7.68E+01	3.10E+01	2.35E+03	5.88E+01	1.46E+02
13	159			5.21E+00	6.28E+01	5.48E+01	2.35E+02	1.45E+01	5.86E+00	4.45E+02	1.11E+01	2.76E+01
13	161			2.60E+00	1.04E+02	6.53E+01	2.79E+02	1.73E+01	6.98E+00	5.30E+02	1.33E+01	3.29E+01
13	163			7.22E+00	1.51E+02	9.66E+01	4.14E+02	2.56E+01	1.03E+01	7.85E+02	1.96E+01	4.87E+01
13	165			5.34E+00	7.17E+01	4.59E+01	1.96E+02	1.22E+01	4.91E+00	3.73E+02	9.32E+00	2.31E+01
13	167			4.10E+00	5.48E+01	9.03E+01	3.86E+02	2.39E+01	9.66E+00	7.34E+02	1.83E+01	4.54E+01
13	169			7.22E+00	1.88E+02	1.88E+02	8.03E+02	4.97E+01	2.01E+01	1.52E+03	3.81E+01	9.44E+01
13	171			1.69E+00	1.66E+02	1.37E+02	5.87E+02	3.63E+01	1.47E+01	1.11E+03	2.78E+01	6.90E+01
13	173			1.89E+00	3.47E+01	2.73E+01	1.17E+02	7.23E+00	2.92E+00	2.22E+02	5.54E+00	1.37E+01
13	175			1.99E+01	2.85E+02	2.25E+02	9.61E+02	5.95E+01	2.40E+01	1.82E+03	4.56E+01	1.13E+02
13	177			1.63E+00	2.22E+01	7.40E+01	3.17E+02	1.96E+01	7.92E+00	6.01E+02	1.50E+01	3.73E+01
13	179			2.00E+01	3.37E+02	1.37E+02	2.75E+02	1.70E+01	6.88E+00	2.35E+02	5.87E+00	1.45E+01
13	181			2.08E+01	7.45E+00	9.54E+01	4.08E+02	2.53E+01	1.02E+01	7.75E+02	1.94E+01	4.80E+01
13	183			1.30E+00	3.70E+01	2.40E+01	1.03E+02	6.37E+00	2.57E+00	1.95E+02	4.88E+00	1.21E+01
13	185			1.00E+01	7.65E+02	3.63E+02	7.31E+02	4.53E+01	1.83E+01	6.24E+02	1.56E+01	3.86E+01
13	187		9.57E+01	1.45E+01	5.05E+01	1.33E+02	5.69E+02	3.52E+01	1.42E+01	1.08E+03	2.70E+01	6.69E+01
13	189			1.31E+01	2.10E+02	1.98E+02	8.49E+02	5.26E+01	2.12E+01	1.61E+03	4.03E+01	9.98E+01
13	191			7.29E+00	3.45E+01	5.06E+01	2.17E+02	1.34E+01	5.42E+00	4.11E+02	1.03E+01	2.55E+01
13	193			7.16E+00	1.00E+02	6.64E+01	1.34E+02	8.28E+00	3.34E+00	1.14E+02	2.85E+00	7.06E+00
13	195		1.37E+01	1.16E+01	1.37E+02	2.04E+02	8.75E+02	5.42E+01	2.19E+01	1.66E+03	4.15E+01	1.03E+02

To calculate allocation proportion of national emissions to county, divide number of county unit within an industry category by total (national) number of units within that category

A = Residential Heating: Anthracite Coal; SCC 2104001000

B = Residential Heating: Bituminous Lignite; SCC 2104002000

C = Residential Heating: Distillate Oil; SCC 2104004000

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E = Fireplaces; SCC 2104008001

F = Fireplaces: Inserts; SCC 2104008002

G = Fireplaces: Inserts; non catalytic, EPA certified; SCC 2104008003

H = Fireplaces: Inserts; catalytic, EPA certified; SCC 2104008004

I = Conventional Woodstoves; SCC 2104008010

J = Catalytic Woodstoves; SCC 2104008030

K = Non-Catalytic Woodstoves; SCC 2104008050

Appendix E-3. Residential Heating County Allocations

State FIPS	County FIPS	A	B	C	D	E	F	G	H	I	J	K
		tons coal	tons coal	MMBTU	MMBTU	tons wood	tons wood	tons wood	tons wood	tons wood	tons wood	tons wood
13	197			2.47E+00	1.11E+01	5.28E+01	2.26E+02	1.40E+01	5.65E+00	4.29E+02	1.07E+01	2.66E+01
13	199		4.10E+01	8.53E+00	1.41E+02	2.24E+02	9.57E+02	5.93E+01	2.39E+01	1.82E+03	4.54E+01	1.13E+02
13	201			2.86E+00	1.64E+01	4.06E+01	1.74E+02	1.08E+01	4.34E+00	3.30E+02	8.24E+00	2.04E+01
13	205			5.66E+00	1.31E+02	1.03E+02	4.41E+02	2.73E+01	1.10E+01	8.37E+02	2.09E+01	5.19E+01
13	207			3.58E+00	1.37E+02	1.68E+02	7.20E+02	4.46E+01	1.80E+01	1.37E+03	3.42E+01	8.47E+01
13	209			5.66E+00	3.68E+01	3.85E+01	1.65E+02	1.02E+01	4.12E+00	3.13E+02	7.82E+00	1.94E+01
13	211		2.74E+01	1.10E+01	6.96E+01	1.34E+02	5.72E+02	3.54E+01	1.43E+01	1.09E+03	2.72E+01	6.73E+01
13	213		1.09E+02	2.95E+01	1.29E+02	2.31E+02	9.89E+02	6.13E+01	2.47E+01	1.88E+03	4.70E+01	1.16E+02
13	215			1.13E+01	3.89E+03	8.88E+02	1.79E+03	1.11E+02	4.47E+01	1.53E+03	3.81E+01	9.45E+01
13	217			1.65E+01	5.53E+02	4.42E+02	1.89E+03	1.17E+02	4.72E+01	3.59E+03	8.97E+01	2.22E+02
13	219			4.88E+00	1.81E+02	1.91E+02	8.17E+02	5.06E+01	2.04E+01	1.55E+03	3.88E+01	9.61E+01
13	221			8.33E+00	5.90E+01	1.02E+02	4.35E+02	2.70E+01	1.09E+01	8.26E+02	2.07E+01	5.12E+01
13	223		1.23E+02	1.25E+01	3.73E+02	4.69E+02	2.01E+03	1.24E+02	5.02E+01	3.81E+03	9.53E+01	2.36E+02
13	225			1.50E+00	2.48E+02	1.08E+02	4.61E+02	2.86E+01	1.15E+01	8.76E+02	2.19E+01	5.42E+01
13	227		8.21E+01	3.93E+01	1.11E+02	1.74E+02	7.45E+02	4.61E+01	1.86E+01	1.41E+03	3.53E+01	8.76E+01
13	229			2.73E+00	5.48E+01	7.28E+01	3.12E+02	1.93E+01	7.79E+00	5.92E+02	1.48E+01	3.67E+01
13	231			1.30E+00	3.33E+01	1.04E+02	4.47E+02	2.77E+01	1.12E+01	8.48E+02	2.12E+01	5.26E+01
13	233			8.72E+00	5.37E+02	4.02E+02	1.72E+03	1.06E+02	4.30E+01	3.26E+03	8.16E+01	2.02E+02
13	235			3.84E+00	9.27E+01	5.22E+01	2.24E+02	1.38E+01	5.59E+00	4.24E+02	1.06E+01	2.63E+01
13	237			3.45E+00	1.02E+02	1.60E+02	6.85E+02	4.24E+01	1.71E+01	1.30E+03	3.25E+01	8.06E+01
13	239			1.37E+00	4.63E+00	1.31E+01	5.62E+01	3.48E+00	1.40E+00	1.07E+02	2.67E+00	6.61E+00
13	241			2.46E+01	4.00E+00	2.37E+02	1.01E+03	6.28E+01	2.53E+01	1.92E+03	4.81E+01	1.19E+02
13	243			3.58E+00	7.07E+01	5.00E+01	1.01E+02	6.24E+00	2.52E+00	8.59E+01	2.15E+00	5.32E+00
13	245		1.09E+02	2.40E+01	3.39E+03	9.16E+02	1.84E+03	1.14E+02	4.61E+01	1.57E+03	3.93E+01	9.74E+01
13	247			1.69E+01	9.98E+02	5.80E+02	2.48E+03	1.54E+02	6.21E+01	4.72E+03	1.18E+02	2.92E+02
13	249			2.60E+00	4.24E+00	1.88E+01	8.03E+01	4.98E+00	2.01E+00	1.53E+02	3.81E+00	9.45E+00
13	251			1.43E+01	5.31E+01	7.89E+01	3.38E+02	2.09E+01	8.44E+00	6.41E+02	1.60E+01	3.97E+01
13	253			5.34E+00	1.99E+01	5.69E+01	2.44E+02	1.51E+01	6.09E+00	4.63E+02	1.16E+01	2.87E+01
13	255		1.50E+02	1.46E+01	9.45E+02	5.48E+02	2.34E+03	1.45E+02	5.86E+01	4.45E+03	1.11E+02	2.76E+02
13	257			1.60E+01	2.57E+02	2.71E+02	1.16E+03	7.17E+01	2.89E+01	2.20E+03	5.50E+01	1.36E+02
13	259			1.76E+00	5.51E+01	2.86E+01	5.77E+01	3.57E+00	1.44E+00	4.92E+01	1.23E+00	3.05E+00
13	261			1.29E+01	2.07E+02	1.45E+02	2.93E+02	1.81E+01	7.31E+00	2.50E+02	6.24E+00	1.55E+01
13	263			2.73E+00	2.59E+01	6.64E+01	2.84E+02	1.76E+01	7.10E+00	5.39E+02	1.35E+01	3.34E+01
13	265		2.74E+01	1.17E+00	1.82E+01	2.44E+01	1.05E+02	6.48E+00	2.62E+00	1.99E+02	4.97E+00	1.23E+01
13	267		2.74E+01	1.41E+01	9.84E+01	9.14E+01	3.91E+02	2.42E+01	9.78E+00	7.43E+02	1.86E+01	4.60E+01
13	269			1.24E+00	1.40E+01	8.27E+01	3.54E+02	2.19E+01	8.85E+00	6.72E+02	1.68E+01	4.16E+01
13	271			3.12E+00	9.88E+01	6.80E+01	1.37E+02	8.49E+00	3.43E+00	1.17E+02	2.92E+00	7.24E+00
13	273			1.00E+01	5.56E+01	6.09E+01	1.23E+02	7.60E+00	3.07E+00	1.05E+02	2.62E+00	6.48E+00
13	275			1.35E+01	2.79E+02	2.14E+02	4.32E+02	2.68E+01	1.08E+01	3.68E+02	9.21E+00	2.28E+01
13	277			1.51E+01	1.89E+02	1.71E+02	7.32E+02	4.53E+01	1.83E+01	1.39E+03	3.47E+01	8.61E+01
13	279			1.52E+01	1.67E+02	1.31E+02	2.64E+02	1.63E+01	6.60E+00	2.25E+02	5.63E+00	1.39E+01
13	281			1.29E+01	4.47E+00	1.21E+02	5.19E+02	3.21E+01	1.30E+01	9.85E+02	2.46E+01	6.10E+01
13	283			1.50E+00	4.10E+01	3.38E+01	1.45E+02	8.96E+00	3.62E+00	2.75E+02	6.87E+00	1.70E+01
13	285		1.37E+02	8.40E+00	6.48E+02	6.05E+02	1.22E+03	7.55E+01	3.04E+01	1.04E+03	2.60E+01	6.44E+01
13	287			6.51E-01	7.05E+01	4.44E+01	8.94E+01	5.54E+00	2.23E+00	7.62E+01	1.91E+00	4.72E+00
13	289			2.21E+00	5.12E+01	9.03E+01	3.86E+02	2.39E+01	9.66E+00	7.34E+02	1.83E+01	4.55E+01
13	291			3.44E+01	3.22E+00	1.94E+02	8.32E+02	5.16E+01	2.08E+01	1.58E+03	3.95E+01	9.79E+01
13	293			3.90E+00	4.17E+02	1.62E+02	6.93E+02	4.30E+01	1.73E+01	1.32E+03	3.29E+01	8.16E+01

To calculate allocation proportion of national emissions to county, divide number of county unit within an industry category by total (national) number of units within that category

A = Residential Heating: Anthracite Coal; SCC 2104001000

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C = Residential Heating: Distillate Oil; SCC 2104004000

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E = Fireplaces; SCC 2104008001

F = Fireplaces: Inserts; SCC 2104008002

G = Fireplaces: Inserts; non catalytic, EPA certified; SCC 2104008003

H = Fireplaces: Inserts; catalytic, EPA certified; SCC 2104008004

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J = Catalytic Woodstoves; SCC 2104008030

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Appendix E-3. Residential Heating County Allocations

State FIPS	County FIPS	A	B	C	D	E	F	G	H	I	J	K
		tons coal	tons coal	MMBTU	MMBTU	tons wood	tons wood	tons wood	tons wood	tons wood	tons wood	tons wood
13	295		1.01E+03	9.85E+01	3.82E+02	6.75E+02	2.89E+03	1.79E+02	7.22E+01	5.48E+03	1.37E+02	3.40E+02
13	297			1.95E+01	3.47E+02	4.04E+02	1.73E+03	1.07E+02	4.32E+01	3.28E+03	8.20E+01	2.03E+02
13	299			6.90E+00	4.21E+02	2.12E+02	9.07E+02	5.62E+01	2.27E+01	1.72E+03	4.30E+01	1.07E+02
13	301			3.77E+00	5.29E+01	6.13E+01	2.62E+02	1.62E+01	6.55E+00	4.98E+02	1.24E+01	3.08E+01
13	303			4.49E+00	2.37E+02	1.99E+02	8.51E+02	5.27E+01	2.13E+01	1.62E+03	4.04E+01	1.00E+02
13	305			6.70E+00	2.40E+02	1.23E+02	5.24E+02	3.25E+01	1.31E+01	9.95E+02	2.49E+01	6.17E+01
13	307			9.11E-01	1.49E+00	1.19E+01	5.08E+01	3.15E+00	1.27E+00	9.65E+01	2.41E+00	5.98E+00
13	309			5.86E-01	2.64E+01	2.94E+01	1.26E+02	7.81E+00	3.15E+00	2.39E+02	5.98E+00	1.48E+01
13	311			1.91E+01	3.22E+00	1.73E+02	7.42E+02	4.60E+01	1.85E+01	1.41E+03	3.52E+01	8.73E+01
13	313		8.21E+01	7.85E+01	4.69E+02	7.23E+02	3.09E+03	1.92E+02	7.74E+01	5.88E+03	1.47E+02	3.64E+02
13	315			3.12E+00	7.14E+00	4.17E+01	1.79E+02	1.11E+01	4.46E+00	3.39E+02	8.47E+00	2.10E+01
13	317			1.29E+01	1.49E+02	1.28E+02	5.47E+02	3.39E+01	1.37E+01	1.04E+03	2.60E+01	6.44E+01
13	319			2.67E+00	9.49E+01	5.41E+01	1.09E+02	6.75E+00	2.73E+00	9.30E+01	2.32E+00	5.76E+00
13	321			5.99E+00	7.14E+01	9.29E+01	3.97E+02	2.46E+01	9.94E+00	7.55E+02	1.89E+01	4.68E+01
15	001				5.17E+01							
15	003				9.04E+02							
15	007				2.34E+01							
15	009				2.12E+01							
16	001		1.01E+03	3.39E+03	6.44E+03	1.96E+03	3.96E+03	2.45E+02	9.89E+01	3.38E+03	8.44E+01	2.09E+02
16	003		4.65E+01	1.13E+02	1.24E+00	4.29E+01	1.84E+02	1.14E+01	4.59E+00	3.49E+02	8.72E+00	2.16E+01
16	005		2.60E+03	1.15E+03	1.60E+03	2.11E+03	4.24E+03	2.63E+02	1.06E+02	3.62E+03	9.05E+01	2.24E+02
16	007		4.65E+02	1.08E+02	1.18E+02	3.06E+02	6.16E+02	3.82E+01	1.54E+01	5.26E+02	1.31E+01	3.26E+01
16	009		1.69E+01	2.96E+02		8.73E+01	3.74E+02	2.32E+01	9.34E+00	7.10E+02	1.77E+01	4.40E+01
16	011		1.35E+03	8.56E+02	4.97E+02	5.84E+02	2.50E+03	1.55E+02	6.25E+01	4.75E+03	1.19E+02	2.94E+02
16	013		8.02E+01	1.83E+02	2.55E+02	5.98E+02	1.20E+03	7.46E+01	3.01E+01	1.03E+03	2.57E+01	6.37E+01
16	015		2.11E+01	4.07E+01		1.36E+02	5.82E+02	3.60E+01	1.45E+01	1.10E+03	2.76E+01	6.84E+01
16	017		3.38E+01	3.94E+02	1.35E+02	6.98E+02	2.99E+03	1.85E+02	7.47E+01	5.68E+03	1.42E+02	3.52E+02
16	019		2.41E+03	1.14E+03	1.25E+03	2.32E+03	4.66E+03	2.89E+02	1.17E+02	3.98E+03	9.95E+01	2.47E+02
16	021			9.61E+01	4.82E+01	1.57E+02	6.73E+02	4.17E+01	1.68E+01	1.28E+03	3.20E+01	7.92E+01
16	023		1.27E+02	6.73E+01		5.99E+01	2.56E+02	1.59E+01	6.41E+00	4.87E+02	1.22E+01	3.02E+01
16	025		4.22E+01	4.49E+01		2.44E+01	1.05E+02	6.48E+00	2.61E+00	1.99E+02	4.96E+00	1.23E+01
16	027		1.73E+03	2.84E+03	1.46E+03	8.44E+02	1.70E+03	1.05E+02	4.25E+01	1.45E+03	3.63E+01	8.99E+01
16	029		2.11E+02	1.72E+02	1.86E+02	2.73E+02	5.50E+02	3.41E+01	1.37E+01	4.69E+02	1.17E+01	2.91E+01
16	031		4.01E+02	3.95E+02	2.63E+02	1.78E+02	7.60E+02	4.71E+01	1.90E+01	1.44E+03	3.61E+01	8.94E+01
16	033			4.21E+01	5.32E-01	3.60E+01	7.24E+01	4.49E+00	1.81E+00	6.18E+01	1.55E+00	3.83E+00
16	035		1.69E+01	2.33E+02		3.19E+02	6.43E+02	3.98E+01	1.61E+01	5.48E+02	1.37E+01	3.40E+01
16	037		2.11E+01	3.93E+01	8.86E-01	1.02E+02	4.37E+02	2.71E+01	1.09E+01	8.29E+02	2.07E+01	5.14E+01
16	039		3.25E+02	1.40E+02	5.31E+02	1.58E+02	6.77E+02	4.19E+01	1.69E+01	1.29E+03	3.21E+01	7.96E+01
16	041		9.42E+02	7.44E+02		3.60E+02	7.25E+02	4.49E+01	1.81E+01	6.19E+02	1.55E+01	3.83E+01
16	043		7.64E+02	3.55E+02	5.21E+01	3.01E+02	1.29E+03	7.97E+01	3.22E+01	2.44E+03	6.11E+01	1.51E+02
16	045		1.22E+02	2.58E+02	1.65E+02	1.25E+02	5.37E+02	3.32E+01	1.34E+01	1.02E+03	2.55E+01	6.31E+01
16	047		3.80E+02	1.92E+02	1.50E+02	1.20E+02	5.15E+02	3.19E+01	1.29E+01	9.78E+02	2.45E+01	6.06E+01
16	049		8.87E+01	3.80E+02		3.05E+02	1.31E+03	8.09E+01	3.26E+01	2.48E+03	6.20E+01	1.54E+02
16	051		7.77E+02	4.64E+02	1.14E+02	2.58E+02	1.10E+03	6.83E+01	2.76E+01	2.09E+03	5.24E+01	1.30E+02
16	053		5.87E+02	5.35E+02	1.74E+02	1.53E+02	6.56E+02	4.06E+01	1.64E+01	1.25E+03	3.11E+01	7.72E+01
16	055		9.71E+01	9.49E+02	1.01E+03	7.77E+02	1.56E+03	9.69E+01	3.91E+01	1.33E+03	3.34E+01	8.27E+01
16	057		1.73E+02	5.27E+02	3.81E+02	2.22E+02	4.46E+02	2.76E+01	1.12E+01	3.81E+02	9.52E+00	2.36E+01
16	059		2.96E+01	9.75E+01		1.73E+02	7.39E+02	4.58E+01	1.85E+01	1.40E+03	3.51E+01	8.69E+01

To calculate allocation proportion of national emissions to county, divide number of county unit within an industry category by total (national) number of units within that category

A = Residential Heating: Anthracite Coal; SCC 2104001000

B = Residential Heating: Bituminous Lignite; SCC 2104002000

C = Residential Heating: Distillate Oil; SCC 2104004000

D = Residential Heating: Natural Gas; 2104006000

E = Fireplaces; SCC 2104008001

F = Fireplaces: Inserts; SCC 2104008002

G = Fireplaces: Inserts; non catalytic, EPA certified; SCC 2104008003

H = Fireplaces: Inserts; catalytic, EPA certified; SCC 2104008004

I = Conventional Woodstoves; SCC 2104008010

J = Catalytic Woodstoves; SCC 2104008030

K = Non-Catalytic Woodstoves; SCC 2104008050

Appendix E-3. Residential Heating County Allocations

State FIPS	County FIPS	A	B	C	D	E	F	G	H	I	J	K
		tons coal	tons coal	MMBTU	MMBTU	tons wood	tons wood	tons wood	tons wood	tons wood	tons wood	tons wood
16	061		8.45E+00	2.10E+02		1.60E+02	3.23E+02	2.00E+01	8.07E+00	2.76E+02	6.89E+00	1.71E+01
16	063		2.62E+02	1.35E+02	3.65E+01	1.30E+02	2.62E+02	1.62E+01	6.55E+00	2.23E+02	5.59E+00	1.38E+01
16	065		2.83E+02	2.99E+02	2.00E+02	4.19E+02	8.43E+02	5.22E+01	2.11E+01	7.19E+02	1.80E+01	4.45E+01
16	067		2.62E+02	4.17E+02	1.41E+02	6.81E+02	1.37E+03	8.49E+01	3.43E+01	1.17E+03	2.92E+01	7.25E+01
16	069		2.96E+01	1.33E+03	7.82E+02	8.83E+02	1.78E+03	1.10E+02	4.45E+01	1.52E+03	3.79E+01	9.40E+01
16	071		3.84E+02	2.20E+02	1.77E+00	1.60E+02	3.23E+02	2.00E+01	8.07E+00	2.76E+02	6.89E+00	1.71E+01
16	073		4.22E+01	4.14E+02	1.22E+01	7.53E+01	3.22E+02	2.00E+01	8.05E+00	6.12E+02	1.53E+01	3.79E+01
16	075		2.75E+02	4.95E+02	3.04E+02	1.68E+02	3.38E+02	2.09E+01	8.44E+00	2.88E+02	7.20E+00	1.78E+01
16	077		1.56E+02	9.33E+01	1.13E+02	5.93E+01	1.19E+02	7.39E+00	2.98E+00	1.02E+02	2.54E+00	6.31E+00
16	079		5.91E+01	4.44E+02	3.14E+02	6.02E+02	1.21E+03	7.51E+01	3.03E+01	1.03E+03	2.58E+01	6.40E+01
16	081		1.18E+02	8.28E+01	5.32E-01	8.44E+01	3.61E+02	2.24E+01	9.03E+00	6.86E+02	1.71E+01	4.25E+01
16	083		2.37E+03	2.03E+03	1.10E+03	5.78E+02	1.16E+03	7.21E+01	2.91E+01	9.92E+02	2.48E+01	6.15E+01
16	085			1.12E+02		6.05E+02	1.22E+03	7.55E+01	3.04E+01	1.04E+03	2.60E+01	6.44E+01
16	087		1.31E+02	2.12E+02	1.52E+02	1.01E+02	2.04E+02	1.26E+01	5.10E+00	1.74E+02	4.35E+00	1.08E+01
17	001		5.61E+01	9.05E+01	2.42E+03	7.14E+02	1.44E+03	8.91E+01	3.59E+01	1.23E+03	3.07E+01	7.60E+01
17	003		1.68E+02	3.88E+00	2.86E+02	2.91E+02	5.85E+02	3.63E+01	1.46E+01	4.99E+02	1.25E+01	3.09E+01
17	005		9.82E+01	1.26E+02	3.59E+02	4.12E+02	8.29E+02	5.14E+01	2.07E+01	7.08E+02	1.77E+01	4.38E+01
17	007			1.78E+02	9.82E+02	2.93E+02	5.89E+02	3.65E+01	1.47E+01	5.03E+02	1.26E+01	3.11E+01
17	009		2.81E+01	2.82E+01	1.50E+02	6.27E+01	2.68E+02	1.66E+01	6.71E+00	5.10E+02	1.27E+01	3.16E+01
17	011		1.82E+02	2.92E+02	1.34E+03	4.48E+02	9.02E+02	5.59E+01	2.25E+01	7.69E+02	1.92E+01	4.77E+01
17	013			1.16E+01	6.45E+01	9.07E+01	3.88E+02	2.40E+01	9.70E+00	7.37E+02	1.84E+01	4.57E+01
17	015			1.85E+02	5.13E+02	7.69E+02	1.55E+03	9.59E+01	3.87E+01	1.32E+03	3.30E+01	8.18E+01
17	017		8.42E+01	1.94E+01	4.62E+02	1.59E+02	3.21E+02	1.99E+01	8.03E+00	2.74E+02	6.85E+00	1.70E+01
17	019		1.40E+02	2.48E+02	6.21E+03	1.31E+03	2.64E+03	1.64E+02	6.60E+01	2.25E+03	5.63E+01	1.40E+02
17	021		2.39E+02	5.77E+01	1.31E+03	4.19E+02	8.44E+02	5.23E+01	2.11E+01	7.20E+02	1.80E+01	4.46E+01
17	023		1.12E+02	4.55E+01	4.07E+02	4.97E+02	1.00E+03	6.20E+01	2.50E+01	8.54E+02	2.13E+01	5.29E+01
17	025			1.91E+01	3.89E+02	4.27E+02	8.59E+02	5.32E+01	2.15E+01	7.33E+02	1.83E+01	4.54E+01
17	027		1.12E+02	6.67E+01	9.26E+02	8.41E+02	1.69E+03	1.05E+02	4.23E+01	1.44E+03	3.61E+01	8.95E+01
17	029			5.69E+01	1.62E+03	1.23E+03	2.48E+03	1.54E+02	6.21E+01	2.12E+03	5.30E+01	1.31E+02
17	031		2.27E+04	6.17E+03	2.14E+05	2.79E+04	5.62E+04	3.48E+03	1.41E+03	4.80E+04	1.20E+03	2.97E+03
17	033		7.02E+01	1.42E+01	6.87E+02	6.12E+02	1.23E+03	7.64E+01	3.08E+01	1.05E+03	2.63E+01	6.52E+01
17	035		1.40E+02	1.89E+01	2.10E+02	1.35E+02	5.77E+02	3.57E+01	1.44E+01	1.10E+03	2.74E+01	6.78E+01
17	037			4.11E+02	2.37E+03	5.89E+02	1.19E+03	7.35E+01	2.97E+01	1.01E+03	2.53E+01	6.27E+01
17	039			4.68E+01	6.11E+02	1.96E+02	3.94E+02	2.44E+01	9.85E+00	3.36E+02	8.40E+00	2.08E+01
17	041		2.81E+02	3.90E+01	6.23E+02	5.47E+02	1.10E+03	6.83E+01	2.76E+01	9.40E+02	2.35E+01	5.83E+01
17	043		1.26E+02	3.13E+02	3.24E+04	6.54E+03	1.32E+04	8.16E+02	3.29E+02	1.12E+04	2.81E+02	6.96E+02
17	045		9.82E+01	7.34E+01	6.39E+02	6.18E+02	1.24E+03	7.71E+01	3.11E+01	1.06E+03	2.65E+01	6.58E+01
17	047		5.61E+01	1.68E+01	2.10E+02	2.25E+02	4.54E+02	2.81E+01	1.14E+01	3.87E+02	9.68E+00	2.40E+01
17	049			4.91E+01	7.89E+02	8.29E+02	1.67E+03	1.03E+02	4.17E+01	1.42E+03	3.56E+01	8.82E+01
17	051		4.77E+02	4.86E+01	5.27E+02	2.47E+02	1.06E+03	6.55E+01	2.64E+01	2.01E+03	5.02E+01	1.24E+02
17	053		3.93E+02	1.09E+02	5.03E+02	1.87E+02	3.77E+02	2.33E+01	9.42E+00	3.21E+02	8.04E+00	1.99E+01
17	055		6.32E+03	4.73E+01	1.15E+03	1.29E+03	2.61E+03	1.61E+02	6.51E+01	2.22E+03	5.56E+01	1.38E+02
17	057		7.44E+02	9.85E+01	1.35E+03	1.21E+03	2.45E+03	1.52E+02	6.12E+01	2.09E+03	5.22E+01	1.29E+02
17	059		2.39E+02	1.32E+01	2.14E+02	2.04E+02	4.11E+02	2.55E+01	1.03E+01	3.51E+02	8.77E+00	2.17E+01
17	061		2.81E+01	3.90E+01	4.91E+02	4.74E+02	9.55E+02	5.92E+01	2.39E+01	8.15E+02	2.04E+01	5.05E+01
17	063		2.81E+01	6.77E+01	1.12E+03	3.30E+02	6.65E+02	4.12E+01	1.66E+01	5.67E+02	1.42E+01	3.52E+01
17	065		4.07E+02	9.05E+00	2.20E+02	1.18E+02	5.06E+02	3.13E+01	1.26E+01	9.61E+02	2.40E+01	5.95E+01
17	067			1.28E+02	5.70E+02	2.84E+02	5.72E+02	3.55E+01	1.43E+01	4.88E+02	1.22E+01	3.02E+01

To calculate allocation proportion of national emissions to county, divide number of county unit within an industry category by total (national) number of units within that category

A = Residential Heating: Anthracite Coal; SCC 2104001000

B = Residential Heating: Bituminous Lignite; SCC 2104002000

C = Residential Heating: Distillate Oil; SCC 2104004000

D = Residential Heating: Natural Gas; 2104006000

E = Fireplaces; SCC 2104008001

F = Fireplaces: Inserts; SCC 2104008002

G = Fireplaces: Inserts; non catalytic, EPA certified; SCC 2104008003

H = Fireplaces: Inserts; catalytic, EPA certified; SCC 2104008004

I = Conventional Woodstoves; SCC 2104008010

J = Catalytic Woodstoves; SCC 2104008030

K = Non-Catalytic Woodstoves; SCC 2104008050

Appendix E-3. Residential Heating County Allocations

State FIPS	County FIPS	A	B	C	D	E	F	G	H	I	J	K
		tons coal	tons coal	MMBTU	MMBTU	tons wood	tons wood	tons wood	tons wood	tons wood	tons wood	tons wood
17	069		4.07E+02	1.55E+01	1.34E+02	6.44E+01	2.76E+02	1.71E+01	6.89E+00	5.24E+02	1.31E+01	3.24E+01
17	071			4.71E+01	2.65E+02	1.03E+02	4.43E+02	2.74E+01	1.11E+01	8.41E+02	2.10E+01	5.21E+01
17	073		7.58E+02	1.53E+02	1.97E+03	6.36E+02	1.28E+03	7.93E+01	3.20E+01	1.09E+03	2.73E+01	6.77E+01
17	075		8.42E+01	2.52E+02	9.47E+02	3.90E+02	7.85E+02	4.86E+01	1.96E+01	6.69E+02	1.67E+01	4.15E+01
17	077		1.95E+03	1.18E+02	1.40E+03	1.20E+03	2.42E+03	1.50E+02	6.06E+01	2.07E+03	5.17E+01	1.28E+02
17	079		2.81E+01	2.25E+01	1.90E+02	1.31E+02	5.62E+02	3.48E+01	1.41E+01	1.07E+03	2.67E+01	6.62E+01
17	081		3.79E+02	8.53E+01	9.40E+02	1.01E+03	2.03E+03	1.26E+02	5.08E+01	1.73E+03	4.33E+01	1.07E+02
17	083		5.61E+01	8.17E+01	4.31E+02	2.45E+02	1.05E+03	6.50E+01	2.62E+01	1.99E+03	4.98E+01	1.23E+02
17	085		2.81E+01	3.49E+02	5.69E+02	1.05E+03	2.11E+03	1.31E+02	5.27E+01	1.80E+03	4.50E+01	1.11E+02
17	087		8.28E+02	2.35E+01	9.03E+01	1.25E+02	5.37E+02	3.33E+01	1.34E+01	1.02E+03	2.55E+01	6.31E+01
17	089			3.44E+02	1.24E+04	2.71E+03	5.45E+03	3.37E+02	1.36E+02	4.65E+03	1.16E+02	2.88E+02
17	091		1.82E+02	1.77E+02	3.51E+03	9.43E+02	1.90E+03	1.18E+02	4.75E+01	1.62E+03	4.05E+01	1.00E+02
17	093			1.18E+02	1.37E+03	3.81E+02	1.63E+03	1.01E+02	4.08E+01	3.10E+03	7.74E+01	1.92E+02
17	095		6.46E+02	1.05E+02	2.25E+03	6.42E+02	1.29E+03	8.01E+01	3.23E+01	1.10E+03	2.76E+01	6.83E+01
17	097			5.12E+02	2.00E+04	1.56E+04	3.13E+04	1.94E+03	7.83E+02	2.67E+04	6.68E+02	1.66E+03
17	099		2.95E+02	3.84E+02	4.45E+03	1.21E+03	2.44E+03	1.51E+02	6.09E+01	2.08E+03	5.20E+01	1.29E+02
17	101		2.11E+02	2.74E+01	5.36E+02	4.80E+02	9.66E+02	5.99E+01	2.42E+01	8.24E+02	2.06E+01	5.11E+01
17	103			2.55E+02	1.10E+03	3.75E+02	7.55E+02	4.68E+01	1.89E+01	6.45E+02	1.61E+01	3.99E+01
17	105		1.82E+02	2.01E+02	1.27E+03	3.98E+02	8.02E+02	4.97E+01	2.01E+01	6.84E+02	1.71E+01	4.24E+01
17	107		1.40E+02	9.98E+01	1.02E+03	3.31E+02	6.66E+02	4.12E+01	1.66E+01	5.68E+02	1.42E+01	3.52E+01
17	109		1.77E+03	1.04E+02	1.01E+03	8.05E+02	1.62E+03	1.00E+02	4.05E+01	1.38E+03	3.46E+01	8.57E+01
17	111			2.82E+02	7.11E+03	1.92E+03	3.87E+03	2.40E+02	9.67E+01	3.30E+03	8.25E+01	2.04E+02
17	113		1.12E+02	3.45E+02	4.90E+03	1.11E+03	2.23E+03	1.38E+02	5.57E+01	1.90E+03	4.75E+01	1.18E+02
17	115		2.53E+02	9.96E+01	4.99E+03	1.36E+03	2.74E+03	1.70E+02	6.86E+01	2.34E+03	5.85E+01	1.45E+02
17	117		5.61E+02	1.15E+02	1.54E+03	1.44E+03	2.90E+03	1.79E+02	7.24E+01	2.47E+03	6.18E+01	1.53E+02
17	119		1.07E+03	8.05E+02	9.12E+03	2.80E+03	5.65E+03	3.50E+02	1.41E+02	4.82E+03	1.20E+02	2.98E+02
17	121		1.40E+01	7.71E+01	1.40E+03	1.17E+03	2.35E+03	1.46E+02	5.87E+01	2.00E+03	5.01E+01	1.24E+02
17	123		7.02E+01	9.18E+01	3.84E+02	1.67E+02	3.37E+02	2.09E+01	8.42E+00	2.87E+02	7.19E+00	1.78E+01
17	125			5.46E+01	4.90E+02	2.19E+02	4.41E+02	2.73E+01	1.10E+01	3.77E+02	9.41E+00	2.33E+01
17	127		4.35E+02	3.39E+01	4.48E+02	4.31E+02	8.67E+02	5.37E+01	2.17E+01	7.40E+02	1.85E+01	4.58E+01
17	129			1.73E+01	3.50E+02	1.26E+02	5.39E+02	3.34E+01	1.35E+01	1.02E+03	2.56E+01	6.34E+01
17	131		1.26E+02	1.39E+02	5.17E+02	2.24E+02	4.52E+02	2.80E+01	1.13E+01	3.85E+02	9.64E+00	2.39E+01
17	133		8.42E+01	9.26E+01	4.52E+02	6.12E+02	1.23E+03	7.64E+01	3.08E+01	1.05E+03	2.63E+01	6.52E+01
17	135		1.26E+02	8.53E+01	9.92E+02	8.89E+02	1.79E+03	1.11E+02	4.48E+01	1.53E+03	3.82E+01	9.46E+01
17	137		2.81E+01	6.23E+01	1.21E+03	3.72E+02	7.50E+02	4.65E+01	1.87E+01	6.40E+02	1.60E+01	3.96E+01
17	139		1.68E+02	4.78E+01	4.56E+02	4.00E+02	8.05E+02	4.98E+01	2.01E+01	6.86E+02	1.72E+01	4.25E+01
17	141		3.51E+02	3.66E+02	1.42E+03	4.95E+02	9.97E+02	6.18E+01	2.49E+01	8.51E+02	2.13E+01	5.27E+01
17	143		2.67E+02	9.49E+01	7.23E+03	1.93E+03	3.88E+03	2.40E+02	9.70E+01	3.31E+03	8.28E+01	2.05E+02
17	145		2.62E+03	3.39E+01	6.14E+02	6.22E+02	1.25E+03	7.76E+01	3.13E+01	1.07E+03	2.67E+01	6.62E+01
17	147			5.15E+01	5.80E+02	1.91E+02	3.85E+02	2.38E+01	9.62E+00	3.28E+02	8.21E+00	2.03E+01
17	149			5.04E+01	5.52E+02	2.31E+02	4.65E+02	2.88E+01	1.16E+01	3.96E+02	9.91E+00	2.46E+01
17	151		4.21E+01	1.84E+01	5.57E+01	5.85E+01	2.50E+02	1.55E+01	6.26E+00	4.75E+02	1.19E+01	2.94E+01
17	153		6.03E+02	1.53E+01	1.57E+02	2.25E+02	4.54E+02	2.81E+01	1.13E+01	3.87E+02	9.68E+00	2.40E+01
17	155			3.62E+01	1.85E+02	7.93E+01	1.60E+02	9.90E+00	3.99E+00	1.36E+02	3.41E+00	8.44E+00
17	157		8.00E+02	1.93E+02	8.02E+02	8.53E+02	1.72E+03	1.06E+02	4.29E+01	1.46E+03	3.66E+01	9.08E+01
17	159		7.02E+01	1.24E+01	5.21E+02	5.06E+02	1.02E+03	6.31E+01	2.55E+01	8.69E+02	2.17E+01	5.38E+01
17	161		8.42E+01	9.15E+01	6.99E+03	1.58E+03	3.17E+03	1.97E+02	7.94E+01	2.71E+03	6.77E+01	1.68E+02
17	163		1.91E+03	5.91E+02	9.11E+03	6.04E+03	1.22E+04	7.53E+02	3.04E+02	1.04E+04	2.59E+02	6.43E+02

To calculate allocation proportion of national emissions to county, divide number of county unit within an industry category by total (national) number of units within that category

A = Residential Heating: Anthracite Coal; SCC 2104001000

B = Residential Heating: Bituminous Lignite; SCC 2104002000

C = Residential Heating: Distillate Oil; SCC 2104004000

D = Residential Heating: Natural Gas; 2104006000

E = Fireplaces; SCC 2104008001

F = Fireplaces: Inserts; SCC 2104008002

G = Fireplaces: Inserts; non catalytic, EPA certified; SCC 2104008003

H = Fireplaces: Inserts; catalytic, EPA certified; SCC 2104008004

I = Conventional Woodstoves; SCC 2104008010

J = Catalytic Woodstoves; SCC 2104008030

K = Non-Catalytic Woodstoves; SCC 2104008050

Appendix E-3. Residential Heating County Allocations

State FIPS	County FIPS	A	B	C	D	E	F	G	H	I	J	K
		tons coal	tons coal	MMBTU	MMBTU	tons wood	tons wood	tons wood	tons wood	tons wood	tons wood	tons wood
17	165		2.43E+03	4.06E+01	8.85E+02	8.30E+02	1.67E+03	1.04E+02	4.18E+01	1.43E+03	3.57E+01	8.84E+01
17	167		3.09E+02	1.03E+02	7.08E+03	1.85E+03	3.73E+03	2.31E+02	9.34E+01	3.19E+03	7.96E+01	1.97E+02
17	169		4.21E+01	7.19E+01	1.81E+02	9.31E+01	1.88E+02	1.16E+01	4.69E+00	1.60E+02	4.00E+00	9.91E+00
17	171			1.50E+01	1.61E+02	7.09E+01	1.43E+02	8.85E+00	3.57E+00	1.22E+02	3.05E+00	7.55E+00
17	173		1.12E+02	5.09E+01	5.82E+02	6.78E+02	1.36E+03	8.46E+01	3.41E+01	1.16E+03	2.91E+01	7.21E+01
17	175		2.39E+02	5.79E+01	1.79E+02	8.54E+01	1.72E+02	1.07E+01	4.30E+00	1.47E+02	3.67E+00	9.09E+00
17	177			3.59E+02	1.68E+03	1.82E+03	3.67E+03	2.28E+02	9.18E+01	3.13E+03	7.83E+01	1.94E+02
17	179		1.82E+02	1.38E+02	4.77E+03	1.40E+03	2.83E+03	1.75E+02	7.07E+01	2.41E+03	6.03E+01	1.50E+02
17	181		7.72E+02	3.03E+01	3.79E+02	4.71E+02	9.49E+02	5.88E+01	2.37E+01	8.10E+02	2.03E+01	5.02E+01
17	183		4.21E+02	1.76E+02	3.36E+03	9.91E+02	2.00E+03	1.24E+02	4.99E+01	1.70E+03	4.26E+01	1.06E+02
17	185		4.07E+02	2.08E+02	3.24E+02	3.56E+02	7.17E+02	4.44E+01	1.79E+01	6.11E+02	1.53E+01	3.79E+01
17	187		8.42E+01	1.17E+02	6.53E+02	2.42E+02	4.87E+02	3.02E+01	1.22E+01	4.16E+02	1.04E+01	2.58E+01
17	189		1.82E+02	6.18E+01	3.33E+02	4.58E+02	9.22E+02	5.71E+01	2.30E+01	7.86E+02	1.97E+01	4.87E+01
17	191			1.89E+01	4.13E+02	2.10E+02	8.97E+02	5.56E+01	2.24E+01	1.70E+03	4.26E+01	1.05E+02
17	193		2.95E+02	2.28E+01	5.49E+02	5.32E+02	1.07E+03	6.64E+01	2.68E+01	9.14E+02	2.29E+01	5.67E+01
17	195			2.62E+02	2.19E+03	6.90E+02	1.39E+03	8.60E+01	3.47E+01	1.18E+03	2.96E+01	7.34E+01
17	197			3.05E+02	1.35E+04	3.28E+03	6.60E+03	4.09E+02	1.65E+02	5.63E+03	1.41E+02	3.49E+02
17	199		6.74E+03	8.74E+01	1.41E+03	1.65E+03	3.32E+03	2.06E+02	8.30E+01	2.83E+03	7.08E+01	1.75E+02
17	201		9.82E+01	6.53E+02	1.10E+04	2.48E+03	5.00E+03	3.10E+02	1.25E+02	4.27E+03	1.07E+02	2.64E+02
17	203		2.81E+01	1.09E+02	1.02E+03	3.57E+02	7.20E+02	4.46E+01	1.80E+01	6.14E+02	1.54E+01	3.81E+01
18	001	8.93E+01	3.52E+03	3.76E+02	5.69E+02	5.64E+02	2.41E+03	1.50E+02	6.03E+01	4.58E+03	1.15E+02	2.84E+02
18	003	1.31E+02	5.16E+03	1.02E+03	9.66E+03	1.07E+04	2.16E+04	1.34E+03	5.40E+02	1.84E+04	4.61E+02	1.14E+03
18	005	1.38E+01	5.46E+02	4.44E+02	1.60E+03	2.39E+03	4.81E+03	2.98E+02	1.20E+02	4.10E+03	1.03E+02	2.54E+02
18	007	4.62E+00	1.82E+02	1.44E+02	2.30E+02	4.20E+02	8.46E+02	5.24E+01	2.12E+01	7.22E+02	1.80E+01	4.47E+01
18	009	3.85E+00	1.52E+02	1.42E+02	2.89E+02	5.88E+02	1.18E+03	7.34E+01	2.96E+01	1.01E+03	2.53E+01	6.26E+01
18	011	4.62E+00	1.82E+02	6.22E+02	7.27E+02	1.45E+03	2.91E+03	1.80E+02	7.28E+01	2.48E+03	6.21E+01	1.54E+02
18	013			2.23E+02	4.40E+01	3.73E+02	1.60E+03	9.89E+01	3.99E+01	3.03E+03	7.58E+01	1.88E+02
18	015	5.39E+00	2.12E+02	2.30E+02	3.71E+02	4.47E+02	1.91E+03	1.19E+02	4.79E+01	3.63E+03	9.09E+01	2.25E+02
18	017	9.23E+00	3.64E+02	2.82E+02	1.17E+03	1.54E+03	3.11E+03	1.93E+02	7.77E+01	2.65E+03	6.63E+01	1.64E+02
18	019	2.31E+01	9.10E+02	6.20E+02	2.19E+03	3.00E+03	6.03E+03	3.74E+02	1.51E+02	5.15E+03	1.29E+02	3.19E+02
18	021	7.23E+01	2.85E+03	5.29E+02	4.23E+02	5.41E+02	2.31E+03	1.43E+02	5.78E+01	4.39E+03	1.10E+02	2.72E+02
18	023	6.16E+00	2.43E+02	4.65E+02	7.33E+02	1.22E+03	2.45E+03	1.52E+02	6.12E+01	2.09E+03	5.22E+01	1.29E+02
18	025	3.08E+00	1.21E+02	1.47E+02	5.30E+01	1.98E+02	8.46E+02	5.24E+01	2.12E+01	1.61E+03	4.02E+01	9.95E+01
18	027	1.41E+02	5.55E+03	4.04E+02	5.71E+02	1.11E+03	2.23E+03	1.38E+02	5.59E+01	1.91E+03	4.77E+01	1.18E+02
18	029	5.16E+01	2.03E+03	7.21E+02	5.29E+02	7.19E+02	3.08E+03	1.91E+02	7.70E+01	5.84E+03	1.46E+02	3.62E+02
18	031	1.15E+01	4.55E+02	1.83E+02	3.86E+02	9.36E+02	1.89E+03	1.17E+02	4.71E+01	1.61E+03	4.02E+01	9.97E+01
18	033	4.85E+01	1.91E+03	4.07E+02	7.39E+02	1.30E+03	2.61E+03	1.62E+02	6.54E+01	2.23E+03	5.58E+01	1.38E+02
18	035	3.92E+01	1.55E+03	6.38E+02	3.40E+03	4.41E+03	8.88E+03	5.50E+02	2.22E+02	7.58E+03	1.89E+02	4.70E+02
18	037	1.07E+02	4.22E+03	2.37E+02	6.60E+02	1.31E+03	2.65E+03	1.64E+02	6.62E+01	2.26E+03	5.65E+01	1.40E+02
18	039	1.02E+02	4.01E+03	6.71E+02	5.29E+03	2.74E+03	1.17E+04	7.26E+02	2.93E+02	2.22E+04	5.56E+02	1.38E+03
18	041			4.68E+02	6.31E+02	9.89E+02	1.99E+03	1.23E+02	4.98E+01	1.70E+03	4.25E+01	1.05E+02
18	043	1.23E+01	4.85E+02	4.28E+02	1.47E+03	2.37E+03	4.77E+03	2.96E+02	1.19E+02	4.07E+03	1.02E+02	2.52E+02
18	045	6.92E+00	2.73E+02	2.19E+02	3.74E+02	7.34E+02	1.48E+03	9.15E+01	3.69E+01	1.26E+03	3.15E+01	7.81E+01
18	047			4.96E+02	1.27E+02	3.49E+02	1.49E+03	9.25E+01	3.73E+01	2.84E+03	7.09E+01	1.76E+02
18	049			2.16E+02	4.35E+02	4.29E+02	1.84E+03	1.14E+02	4.59E+01	3.49E+03	8.72E+01	2.16E+02
18	051	8.31E+01	3.28E+03	2.56E+02	7.48E+02	1.28E+03	2.58E+03	1.60E+02	6.45E+01	2.20E+03	5.50E+01	1.36E+02
18	053	1.23E+01	4.85E+02	4.92E+02	1.90E+03	2.76E+03	5.56E+03	3.45E+02	1.39E+02	4.75E+03	1.19E+02	2.94E+02
18	055	8.93E+01	3.52E+03	3.73E+02	5.95E+02	6.37E+02	2.73E+03	1.69E+02	6.82E+01	5.18E+03	1.29E+02	3.21E+02

To calculate allocation proportion of national emissions to county, divide number of county unit within an industry category by total (national) number of units within that category

A = Residential Heating: Anthracite Coal; SCC 2104001000

B = Residential Heating: Bituminous Lignite; SCC 2104002000

C = Residential Heating: Distillate Oil; SCC 2104004000

D = Residential Heating: Natural Gas; 2104006000

E = Fireplaces; SCC 2104008001

F = Fireplaces: Inserts; SCC 2104008002

G = Fireplaces: Inserts; non catalytic, EPA certified; SCC 2104008003

H = Fireplaces: Inserts; catalytic, EPA certified; SCC 2104008004

I = Conventional Woodstoves; SCC 2104008010

J = Catalytic Woodstoves; SCC 2104008030

K = Non-Catalytic Woodstoves; SCC 2104008050

Appendix E-3. Residential Heating County Allocations

State FIPS	County FIPS	A	B	C	D	E	F	G	H	I	J	K
		tons coal	tons coal	MMBTU	MMBTU	tons wood	tons wood	tons wood	tons wood	tons wood	tons wood	tons wood
18	057	3.85E+00	1.52E+02	1.05E+03	2.38E+03	3.85E+03	7.76E+03	4.81E+02	1.94E+02	6.62E+03	1.66E+02	4.10E+02
18	059	1.00E+01	3.94E+02	4.81E+02	1.06E+03	8.97E+02	3.84E+03	2.38E+02	9.60E+01	7.29E+03	1.82E+02	4.52E+02
18	061	3.54E+01	1.40E+03	3.61E+02	1.61E+02	5.72E+02	2.45E+03	1.52E+02	6.12E+01	4.65E+03	1.16E+02	2.88E+02
18	063	2.31E+00	9.10E+01	1.28E+03	1.28E+03	1.41E+03	6.05E+03	3.75E+02	1.51E+02	1.15E+04	2.87E+02	7.12E+02
18	065	1.77E+01	6.98E+02	7.41E+02	1.28E+03	1.98E+03	4.00E+03	2.48E+02	9.99E+01	3.41E+03	8.52E+01	2.11E+02
18	067			2.04E+02	2.82E+03	3.22E+03	6.48E+03	4.01E+02	1.62E+02	5.53E+03	1.38E+02	3.42E+02
18	069	7.69E+00	3.03E+02	5.11E+02	8.01E+02	1.33E+03	2.68E+03	1.66E+02	6.70E+01	2.29E+03	5.72E+01	1.42E+02
18	071	6.92E+00	2.73E+02	4.14E+02	6.19E+02	1.42E+03	2.86E+03	1.77E+02	7.16E+01	2.44E+03	6.11E+01	1.51E+02
18	073	6.92E+00	2.73E+02	1.68E+02	4.56E+02	4.73E+02	2.02E+03	1.25E+02	5.06E+01	3.84E+03	9.60E+01	2.38E+02
18	075	2.85E+01	1.12E+03	1.97E+02	4.49E+02	9.12E+02	1.84E+03	1.14E+02	4.59E+01	1.57E+03	3.92E+01	9.71E+01
18	077	7.69E+00	3.03E+02	3.23E+02	4.33E+02	1.05E+03	2.11E+03	1.30E+02	5.26E+01	1.80E+03	4.49E+01	1.11E+02
18	079	8.46E+00	3.34E+02	4.50E+02	1.64E+02	4.18E+02	1.79E+03	1.11E+02	4.47E+01	3.40E+03	8.49E+01	2.10E+02
18	081			4.85E+02	2.48E+03	2.98E+03	5.99E+03	3.71E+02	1.50E+02	5.11E+03	1.28E+02	3.17E+02
18	083	5.62E+01	2.21E+03	2.00E+02	1.09E+03	1.59E+03	3.20E+03	1.98E+02	8.01E+01	2.73E+03	6.83E+01	1.69E+02
18	085	4.15E+01	1.64E+03	3.80E+02	1.86E+03	1.44E+03	6.18E+03	3.83E+02	1.54E+02	1.17E+04	2.93E+02	7.27E+02
18	087	3.96E+02	1.56E+04	3.41E+02	4.14E+02	5.73E+02	2.45E+03	1.52E+02	6.13E+01	4.65E+03	1.16E+02	2.88E+02
18	089	8.46E+00	3.34E+02	1.30E+03	1.75E+04	1.57E+04	3.15E+04	1.95E+03	7.88E+02	2.69E+04	6.72E+02	1.67E+03
18	091	1.31E+01	5.16E+02	4.22E+02	3.78E+03	3.90E+03	7.84E+03	4.86E+02	1.96E+02	6.69E+03	1.67E+02	4.15E+02
18	093	1.77E+01	6.98E+02	1.60E+02	8.57E+02	8.77E+02	3.75E+03	2.33E+02	9.38E+01	7.13E+03	1.78E+02	4.42E+02
18	095	1.23E+01	4.85E+02	6.61E+02	4.06E+03	5.12E+03	1.03E+04	6.38E+02	2.58E+02	8.79E+03	2.20E+02	5.44E+02
18	097	6.54E+01	2.58E+03	3.00E+03	2.64E+04	2.42E+04	4.87E+04	3.02E+03	1.22E+03	4.16E+04	1.04E+03	2.58E+03
18	099	3.15E+01	1.24E+03	3.00E+02	1.18E+03	8.53E+02	3.65E+03	2.26E+02	9.12E+01	6.93E+03	1.73E+02	4.29E+02
18	101	1.15E+01	4.55E+02	1.33E+02	1.43E+02	1.90E+02	8.13E+02	5.04E+01	2.03E+01	1.54E+03	3.86E+01	9.56E+01
18	103	6.16E+00	2.43E+02	3.22E+02	9.95E+02	6.54E+02	2.80E+03	1.74E+02	7.00E+01	5.32E+03	1.33E+02	3.30E+02
18	105	1.75E+02	6.92E+03	5.20E+02	2.28E+03	2.73E+03	5.50E+03	3.41E+02	1.37E+02	4.69E+03	1.17E+02	2.91E+02
18	107	7.69E+00	3.03E+02	6.39E+02	7.21E+02	1.33E+03	2.68E+03	1.66E+02	6.69E+01	2.28E+03	5.71E+01	1.42E+02
18	109	3.08E+01	1.21E+03	8.60E+02	8.34E+02	1.03E+03	4.41E+03	2.73E+02	1.10E+02	8.37E+03	2.09E+02	5.19E+02
18	111			1.29E+02	2.75E+02	2.91E+02	1.24E+03	7.71E+01	3.11E+01	2.36E+03	5.91E+01	1.46E+02
18	113	5.23E+01	2.06E+03	2.83E+02	6.52E+02	7.48E+02	3.20E+03	1.98E+02	8.00E+01	6.08E+03	1.52E+02	3.76E+02
18	115	5.39E+00	2.12E+02	1.68E+02	5.12E+01	9.44E+01	4.04E+02	2.50E+01	1.01E+01	7.67E+02	1.92E+01	4.75E+01
18	117	7.69E-01	3.03E+01	2.09E+02	2.75E+02	3.56E+02	1.52E+03	9.44E+01	3.81E+01	2.89E+03	7.24E+01	1.79E+02
18	119	2.08E+01	8.19E+02	3.01E+02	1.22E+02	3.46E+02	1.48E+03	9.17E+01	3.70E+01	2.81E+03	7.02E+01	1.74E+02
18	121	1.69E+01	6.68E+02	1.22E+02	2.85E+02	3.54E+02	1.51E+03	9.39E+01	3.79E+01	2.88E+03	7.19E+01	1.78E+02
18	123	1.92E+01	7.59E+02	8.89E+01	4.39E+02	7.09E+02	1.43E+03	8.84E+01	3.57E+01	1.22E+03	3.04E+01	7.54E+01
18	125	8.00E+01	3.16E+03	2.03E+02	1.94E+02	2.74E+02	1.17E+03	7.27E+01	2.93E+01	2.23E+03	5.57E+01	1.38E+02
18	127			2.48E+02	4.61E+03	4.32E+03	8.69E+03	5.38E+02	2.17E+02	7.41E+03	1.85E+02	4.59E+02
18	129	1.69E+01	6.68E+02	1.76E+02	5.72E+02	5.19E+02	2.22E+03	1.38E+02	5.55E+01	4.22E+03	1.05E+02	2.61E+02
18	131	1.54E+00	6.07E+01	1.04E+02	2.61E+02	2.82E+02	1.21E+03	7.47E+01	3.02E+01	2.29E+03	5.73E+01	1.42E+02
18	133	2.15E+01	8.50E+02	4.65E+02	4.02E+02	5.26E+02	2.25E+03	1.39E+02	5.63E+01	4.27E+03	1.07E+02	2.65E+02
18	135	1.08E+01	4.25E+02	3.26E+02	5.10E+02	1.15E+03	2.31E+03	1.43E+02	5.77E+01	1.97E+03	4.93E+01	1.22E+02
18	137	4.62E+00	1.82E+02	4.22E+02	2.70E+02	4.63E+02	1.98E+03	1.23E+02	4.95E+01	3.76E+03	9.40E+01	2.33E+02
18	139	1.85E+01	7.28E+02	4.06E+02	2.77E+02	3.78E+02	1.62E+03	1.00E+02	4.04E+01	3.07E+03	7.67E+01	1.90E+02
18	141	1.46E+01	5.76E+02	9.51E+02	9.10E+03	9.22E+03	1.86E+04	1.15E+03	4.64E+02	1.58E+04	3.96E+02	9.81E+02
18	143	9.23E+00	3.64E+02	2.90E+02	2.77E+02	3.80E+02	1.63E+03	1.01E+02	4.07E+01	3.09E+03	7.72E+01	1.91E+02
18	145	9.23E+00	3.64E+02	7.64E+02	7.33E+02	8.20E+02	3.51E+03	2.17E+02	8.77E+01	6.66E+03	1.67E+02	4.13E+02
18	147	8.85E+01	3.49E+03	9.05E+01	3.48E+02	3.83E+02	1.64E+03	1.02E+02	4.10E+01	3.11E+03	7.79E+01	1.93E+02
18	149			1.18E+02	6.18E+02	5.30E+02	2.27E+03	1.41E+02	5.67E+01	4.31E+03	1.08E+02	2.67E+02
18	151	2.23E+01	8.80E+02	3.65E+02	5.67E+02	7.16E+02	3.06E+03	1.90E+02	7.66E+01	5.82E+03	1.45E+02	3.60E+02

To calculate allocation proportion of national emissions to county, divide number of county unit within an industry category by total (national) number of units within that category

A = Residential Heating: Anthracite Coal; SCC 2104001000

B = Residential Heating: Bituminous Lignite; SCC 2104002000

C = Residential Heating: Distillate Oil; SCC 2104004000

D = Residential Heating: Natural Gas; 2104006000

E = Fireplaces; SCC 2104008001

F = Fireplaces: Inserts; SCC 2104008002

G = Fireplaces: Inserts; non catalytic, EPA certified; SCC 2104008003

H = Fireplaces: Inserts; catalytic, EPA certified; SCC 2104008004

I = Conventional Woodstoves; SCC 2104008010

J = Catalytic Woodstoves; SCC 2104008030

K = Non-Catalytic Woodstoves; SCC 2104008050

Appendix E-3. Residential Heating County Allocations

State FIPS	County FIPS	A	B	C	D	E	F	G	H	I	J	K
		tons coal	tons coal	MMBTU	MMBTU	tons wood	tons wood	tons wood	tons wood	tons wood	tons wood	tons wood
18	153	6.85E+01	2.70E+03	2.05E+02	4.03E+02	8.45E+02	1.70E+03	1.05E+02	4.25E+01	1.45E+03	3.63E+01	9.00E+01
18	155			2.05E+02	5.11E+01	1.61E+02	6.91E+02	4.28E+01	1.73E+01	1.31E+03	3.28E+01	8.13E+01
18	157	1.48E+02	5.86E+03	6.34E+02	3.29E+03	3.51E+03	7.07E+03	4.38E+02	1.77E+02	6.03E+03	1.51E+02	3.74E+02
18	159	2.31E+00	9.10E+01	1.97E+02	3.46E+02	3.33E+02	1.42E+03	8.82E+01	3.56E+01	2.70E+03	6.76E+01	1.67E+02
18	161	2.31E+00	9.10E+01	4.35E+02	5.71E+00	1.41E+02	6.02E+02	3.73E+01	1.50E+01	1.14E+03	2.86E+01	7.08E+01
18	163	1.15E+01	4.55E+02	1.20E+02	5.88E+03	6.24E+03	1.26E+04	7.78E+02	3.14E+02	1.07E+04	2.68E+02	6.64E+02
18	165	3.85E+01	1.52E+03	1.23E+02	3.80E+02	7.29E+02	1.47E+03	9.09E+01	3.67E+01	1.25E+03	3.13E+01	7.76E+01
18	167	9.85E+01	3.88E+03	1.09E+03	2.79E+03	3.98E+03	8.01E+03	4.96E+02	2.00E+02	6.83E+03	1.71E+02	4.23E+02
18	169			3.56E+02	8.66E+02	1.26E+03	2.54E+03	1.57E+02	6.35E+01	2.17E+03	5.42E+01	1.34E+02
18	171			1.22E+02	8.00E+01	1.79E+02	7.67E+02	4.75E+01	1.92E+01	1.46E+03	3.64E+01	9.02E+01
18	173	7.77E+01	3.06E+03	1.41E+02	1.04E+03	8.52E+02	3.65E+03	2.26E+02	9.11E+01	6.92E+03	1.73E+02	4.29E+02
18	175	1.77E+01	6.98E+02	3.09E+02	2.13E+02	4.55E+02	1.95E+03	1.21E+02	4.87E+01	3.70E+03	9.24E+01	2.29E+02
18	177	1.54E+01	6.07E+02	1.84E+03	1.60E+03	2.63E+03	5.29E+03	3.28E+02	1.32E+02	4.51E+03	1.13E+02	2.80E+02
18	179	1.62E+01	6.37E+02	3.31E+02	5.42E+02	9.84E+02	1.98E+03	1.23E+02	4.95E+01	1.69E+03	4.23E+01	1.05E+02
18	181			1.41E+02	7.31E+02	5.91E+02	2.53E+03	1.57E+02	6.32E+01	4.80E+03	1.20E+02	2.97E+02
18	183	1.00E+01	3.94E+02	2.39E+02	5.08E+02	5.62E+02	2.40E+03	1.49E+02	6.01E+01	4.57E+03	1.14E+02	2.83E+02
19	001			8.32E+01	1.73E+02	1.15E+02	2.32E+02	1.44E+01	5.80E+00	1.98E+02	4.95E+00	1.23E+01
19	003			7.22E+01	8.93E+01	6.30E+01	2.69E+02	1.67E+01	6.74E+00	5.12E+02	1.28E+01	3.17E+01
19	005		7.32E+02	3.32E+02	1.73E+02	5.72E+02	1.15E+03	7.14E+01	2.88E+01	9.83E+02	2.46E+01	6.09E+01
19	007		4.76E+03	2.18E+01	2.75E+02	1.82E+02	3.66E+02	2.27E+01	9.15E+00	3.12E+02	7.81E+00	1.94E+01
19	009			1.25E+02	1.70E+02	1.06E+02	2.13E+02	1.32E+01	5.33E+00	1.82E+02	4.55E+00	1.13E+01
19	011			7.47E+02	2.80E+02	2.71E+02	5.46E+02	3.38E+01	1.36E+01	4.66E+02	1.16E+01	2.88E+01
19	013		6.59E+03	5.52E+02	3.66E+03	4.53E+03	9.11E+03	5.65E+02	2.28E+02	7.78E+03	1.94E+02	4.82E+02
19	015		4.76E+03	8.70E+01	6.79E+02	2.91E+02	5.86E+02	3.63E+01	1.46E+01	5.00E+02	1.25E+01	3.10E+01
19	017			3.17E+02	5.10E+02	9.09E+02	1.83E+03	1.13E+02	4.58E+01	1.56E+03	3.90E+01	9.68E+01
19	019			2.10E+02	3.88E+02	8.40E+02	1.69E+03	1.05E+02	4.23E+01	1.44E+03	3.61E+01	8.94E+01
19	021			1.55E+02	5.09E+02	8.14E+02	1.64E+03	1.02E+02	4.10E+01	1.40E+03	3.50E+01	8.66E+01
19	023			1.79E+02	3.28E+02	7.33E+02	1.48E+03	9.14E+01	3.69E+01	1.26E+03	3.15E+01	7.80E+01
19	025			1.09E+02	2.67E+02	1.67E+02	3.36E+02	2.08E+01	8.39E+00	2.86E+02	7.16E+00	1.77E+01
19	027			3.17E+02	4.63E+02	8.76E+02	1.76E+03	1.09E+02	4.41E+01	1.50E+03	3.76E+01	9.32E+01
19	029			5.11E+01	4.00E+02	1.97E+02	3.96E+02	2.46E+01	9.91E+00	3.38E+02	8.46E+00	2.10E+01
19	031		2.93E+03	3.78E+02	3.07E+02	2.10E+02	4.23E+02	2.62E+01	1.06E+01	3.61E+02	9.03E+00	2.24E+01
19	033			7.33E+01	1.54E+03	2.00E+03	4.02E+03	2.49E+02	1.01E+02	3.43E+03	8.58E+01	2.13E+02
19	035			1.31E+02	3.33E+02	6.37E+02	1.28E+03	7.95E+01	3.21E+01	1.09E+03	2.74E+01	6.78E+01
19	037			2.63E+02	2.41E+02	5.92E+02	1.19E+03	7.39E+01	2.98E+01	1.02E+03	2.54E+01	6.31E+01
19	039		3.29E+03	8.49E+01	1.48E+02	1.03E+02	2.07E+02	1.28E+01	5.17E+00	1.76E+02	4.41E+00	1.09E+01
19	041			1.03E+02	4.19E+02	7.33E+02	1.48E+03	9.15E+01	3.69E+01	1.26E+03	3.15E+01	7.81E+01
19	043		2.20E+03	4.01E+02	2.55E+02	8.36E+02	1.68E+03	1.04E+02	4.21E+01	1.44E+03	3.59E+01	8.90E+01
19	045		2.20E+03	8.02E+02	1.29E+03	5.76E+02	1.16E+03	7.18E+01	2.90E+01	9.89E+02	2.47E+01	6.13E+01
19	047		2.20E+03	3.55E+02	2.21E+02	2.04E+02	4.11E+02	2.54E+01	1.03E+01	3.50E+02	8.76E+00	2.17E+01
19	049		2.20E+03	1.17E+02	6.56E+02	3.32E+02	6.68E+02	4.14E+01	1.67E+01	5.70E+02	1.42E+01	3.53E+01
19	051		1.83E+03	2.61E+01	8.78E+01	9.35E+01	4.00E+02	2.48E+01	1.00E+01	7.60E+02	1.90E+01	4.71E+01
19	053		7.32E+02	5.22E+01	1.40E+02	1.02E+02	2.04E+02	1.27E+01	5.11E+00	1.74E+02	4.36E+00	1.08E+01
19	055		7.32E+02	2.42E+02	2.94E+02	7.55E+02	1.52E+03	9.42E+01	3.80E+01	1.30E+03	3.24E+01	8.03E+01
19	057			7.75E+01	1.34E+03	4.77E+02	9.60E+02	5.95E+01	2.40E+01	8.19E+02	2.05E+01	5.07E+01
19	059			5.11E+01	3.43E+02	9.56E+02	1.92E+03	1.19E+02	4.81E+01	1.64E+03	4.11E+01	1.02E+02
19	061			1.29E+03	2.08E+03	2.74E+03	5.51E+03	3.41E+02	1.38E+02	4.70E+03	1.18E+02	2.91E+02
19	063			1.38E+02	2.81E+02	5.14E+02	1.04E+03	6.42E+01	2.59E+01	8.83E+02	2.21E+01	5.47E+01

To calculate allocation proportion of national emissions to county, divide number of county unit within an industry category by total (national) number of units within that category

A = Residential Heating: Anthracite Coal; SCC 2104001000

B = Residential Heating: Bituminous Lignite; SCC 2104002000

C = Residential Heating: Distillate Oil; SCC 2104004000

D = Residential Heating: Natural Gas; 2104006000

E = Fireplaces; SCC 2104008001

F = Fireplaces: Inserts; SCC 2104008002

G = Fireplaces: Inserts; non catalytic, EPA certified; SCC 2104008003

H = Fireplaces: Inserts; catalytic, EPA certified; SCC 2104008004

I = Conventional Woodstoves; SCC 2104008010

J = Catalytic Woodstoves; SCC 2104008030

K = Non-Catalytic Woodstoves; SCC 2104008050

Appendix E-3. Residential Heating County Allocations

State FIPS	County FIPS	A	B	C	D	E	F	G	H	I	J	K
		tons coal	tons coal	MMBTU	MMBTU	tons wood	tons wood	tons wood	tons wood	tons wood	tons wood	tons wood
19	065		2.20E+03	4.39E+02	4.40E+02	9.90E+02	1.99E+03	1.23E+02	4.98E+01	1.70E+03	4.25E+01	1.05E+02
19	067		5.12E+03	1.91E+02	4.39E+02	7.72E+02	1.55E+03	9.63E+01	3.89E+01	1.33E+03	3.31E+01	8.21E+01
19	069			3.28E+02	2.13E+02	5.52E+02	1.11E+03	6.89E+01	2.78E+01	9.49E+02	2.37E+01	5.88E+01
19	071			1.18E+02	1.39E+02	1.07E+02	2.15E+02	1.33E+01	5.39E+00	1.84E+02	4.59E+00	1.14E+01
19	073			8.46E+01	2.40E+02	1.46E+02	2.94E+02	1.82E+01	7.34E+00	2.51E+02	6.26E+00	1.55E+01
19	075			2.44E+02	2.56E+02	5.75E+02	1.16E+03	7.17E+01	2.89E+01	9.88E+02	2.47E+01	6.12E+01
19	077		2.93E+03	1.02E+02	1.93E+02	1.59E+02	3.20E+02	1.98E+01	7.99E+00	2.73E+02	6.82E+00	1.69E+01
19	079			7.86E+01	3.96E+02	7.28E+02	1.47E+03	9.09E+01	3.67E+01	1.25E+03	3.13E+01	7.75E+01
19	081			1.28E+02	2.81E+02	5.62E+02	1.13E+03	7.01E+01	2.83E+01	9.65E+02	2.41E+01	5.98E+01
19	083			2.18E+02	4.70E+02	8.76E+02	1.76E+03	1.09E+02	4.41E+01	1.50E+03	3.76E+01	9.32E+01
19	085			2.35E+02	2.34E+02	1.86E+02	3.74E+02	2.32E+01	9.35E+00	3.19E+02	7.98E+00	1.98E+01
19	087		2.20E+03	6.73E+01	3.95E+02	2.07E+02	4.17E+02	2.59E+01	1.04E+01	3.56E+02	8.90E+00	2.21E+01
19	089			1.93E+02	1.40E+02	4.47E+02	9.00E+02	5.58E+01	2.25E+01	7.68E+02	1.92E+01	4.76E+01
19	091			1.15E+02	2.21E+02	4.95E+02	9.96E+02	6.17E+01	2.49E+01	8.50E+02	2.12E+01	5.26E+01
19	093			1.43E+02	1.72E+02	3.70E+02	7.46E+02	4.62E+01	1.86E+01	6.36E+02	1.59E+01	3.94E+01
19	095		2.56E+03	3.46E+02	2.89E+02	1.64E+02	7.03E+02	4.36E+01	1.76E+01	1.33E+03	3.34E+01	8.27E+01
19	097			4.77E+02	3.52E+02	2.32E+02	4.68E+02	2.90E+01	1.17E+01	3.99E+02	9.98E+00	2.47E+01
19	099		7.32E+02	3.13E+02	8.02E+02	4.16E+02	8.38E+02	5.19E+01	2.10E+01	7.15E+02	1.79E+01	4.43E+01
19	101			6.98E+01	3.63E+02	1.69E+02	3.40E+02	2.11E+01	8.51E+00	2.90E+02	7.26E+00	1.80E+01
19	103		8.05E+03	2.32E+02	2.69E+03	6.50E+02	1.31E+03	8.11E+01	3.27E+01	1.12E+03	2.79E+01	6.92E+01
19	105			2.65E+02	2.97E+02	2.05E+02	4.13E+02	2.56E+01	1.03E+01	3.52E+02	8.81E+00	2.18E+01
19	107		7.32E+02	2.05E+02	1.54E+02	1.58E+02	3.18E+02	1.97E+01	7.94E+00	2.71E+02	6.77E+00	1.68E+01
19	109			4.78E+02	3.18E+02	8.41E+02	1.69E+03	1.05E+02	4.24E+01	1.45E+03	3.61E+01	8.96E+01
19	111		1.83E+03	9.34E+01	8.98E+02	4.32E+02	8.71E+02	5.40E+01	2.18E+01	7.43E+02	1.86E+01	4.60E+01
19	113			6.02E+02	5.35E+03	1.71E+03	3.45E+03	2.14E+02	8.63E+01	2.95E+03	7.36E+01	1.83E+02
19	115			5.50E+01	2.10E+02	1.33E+02	2.68E+02	1.66E+01	6.70E+00	2.29E+02	5.72E+00	1.42E+01
19	117		1.32E+04	8.11E+01	1.67E+02	1.20E+02	2.42E+02	1.50E+01	6.04E+00	2.06E+02	5.16E+00	1.28E+01
19	119			3.03E+02	1.87E+02	5.13E+02	1.03E+03	6.40E+01	2.58E+01	8.82E+02	2.20E+01	5.46E+01
19	121			6.70E+01	2.21E+02	1.49E+02	3.00E+02	1.86E+01	7.50E+00	2.56E+02	6.40E+00	1.58E+01
19	123		2.93E+03	1.13E+02	5.00E+02	2.52E+02	5.08E+02	3.15E+01	1.27E+01	4.34E+02	1.08E+01	2.69E+01
19	125		1.83E+03	1.03E+02	7.49E+02	3.15E+02	6.34E+02	3.93E+01	1.59E+01	5.41E+02	1.35E+01	3.35E+01
19	127		7.32E+02	3.75E+02	9.79E+02	1.55E+03	3.13E+03	1.94E+02	7.82E+01	2.67E+03	6.67E+01	1.65E+02
19	129		7.32E+02	9.59E+01	2.54E+02	1.42E+02	2.86E+02	1.77E+01	7.15E+00	2.44E+02	6.10E+00	1.51E+01
19	131			2.33E+02	1.77E+02	4.97E+02	1.00E+03	6.20E+01	2.50E+01	8.53E+02	2.13E+01	5.29E+01
19	133			2.74E+02	1.77E+02	1.38E+02	2.78E+02	1.72E+01	6.95E+00	2.37E+02	5.93E+00	1.47E+01
19	135		9.52E+03	1.62E+01	1.60E+02	1.04E+02	2.10E+02	1.30E+01	5.26E+00	1.80E+02	4.49E+00	1.11E+01
19	137			4.30E+01	3.20E+02	1.55E+02	3.13E+02	1.94E+01	7.82E+00	2.67E+02	6.67E+00	1.65E+01
19	139			6.73E+01	1.13E+03	4.22E+02	8.49E+02	5.26E+01	2.12E+01	7.25E+02	1.81E+01	4.49E+01
19	141		7.32E+02	8.46E+01	3.97E+02	6.99E+02	1.41E+03	8.73E+01	3.52E+01	1.20E+03	3.00E+01	7.44E+01
19	143		3.29E+03	1.73E+02	1.14E+02	3.47E+02	6.99E+02	4.33E+01	1.75E+01	5.96E+02	1.49E+01	3.69E+01
19	145			1.31E+02	4.19E+02	2.15E+02	4.34E+02	2.69E+01	1.08E+01	3.70E+02	9.25E+00	2.29E+01
19	147			1.25E+02	2.34E+02	4.99E+02	1.01E+03	6.23E+01	2.51E+01	8.58E+02	2.14E+01	5.32E+01
19	149			2.09E+02	4.50E+02	9.29E+02	1.87E+03	1.16E+02	4.68E+01	1.60E+03	3.99E+01	9.89E+01
19	151			2.30E+02	1.71E+02	4.66E+02	9.38E+02	5.81E+01	2.34E+01	8.00E+02	2.00E+01	4.96E+01
19	153		1.21E+04	2.69E+02	1.05E+04	3.16E+03	6.37E+03	3.95E+02	1.59E+02	5.43E+03	1.36E+02	3.37E+02
19	155			1.81E+02	2.53E+03	9.00E+02	1.81E+03	1.12E+02	4.53E+01	1.55E+03	3.86E+01	9.58E+01
19	157		4.76E+03	2.98E+02	3.57E+02	7.60E+02	1.53E+03	9.49E+01	3.83E+01	1.31E+03	3.27E+01	8.09E+01
19	159			1.09E+02	6.10E+01	7.99E+01	1.61E+02	9.97E+00	4.02E+00	1.37E+02	3.43E+00	8.51E+00

To calculate allocation proportion of national emissions to county, divide number of county unit within an industry category by total (national) number of units within that category

A = Residential Heating: Anthracite Coal; SCC 2104001000

B = Residential Heating: Bituminous Lignite; SCC 2104002000

C = Residential Heating: Distillate Oil; SCC 2104004000

D = Residential Heating: Natural Gas; 2104006000

E = Fireplaces; SCC 2104008001

F = Fireplaces: Inserts; SCC 2104008002

G = Fireplaces: Inserts; non catalytic, EPA certified; SCC 2104008003

H = Fireplaces: Inserts; catalytic, EPA certified; SCC 2104008004

I = Conventional Woodstoves; SCC 2104008010

J = Catalytic Woodstoves; SCC 2104008030

K = Non-Catalytic Woodstoves; SCC 2104008050

Appendix E-3. Residential Heating County Allocations

State FIPS	County FIPS	A	B	C	D	E	F	G	H	I	J	K
		tons coal	tons coal	MMBTU	MMBTU	tons wood	tons wood	tons wood	tons wood	tons wood	tons wood	tons wood
19	161			3.46E+02	1.77E+02	6.30E+02	1.27E+03	7.86E+01	3.17E+01	1.08E+03	2.71E+01	6.70E+01
19	163			1.78E+02	5.07E+03	1.47E+03	2.96E+03	1.83E+02	7.40E+01	2.52E+03	6.31E+01	1.56E+02
19	165			2.09E+02	2.59E+02	1.66E+02	3.33E+02	2.07E+01	8.33E+00	2.84E+02	7.11E+00	1.76E+01
19	167			3.10E+02	5.56E+02	1.10E+03	2.22E+03	1.38E+02	5.56E+01	1.90E+03	4.74E+01	1.18E+02
19	169		3.66E+03	1.90E+02	1.98E+03	1.88E+03	3.78E+03	2.34E+02	9.45E+01	3.22E+03	8.06E+01	2.00E+02
19	171		1.10E+03	3.42E+02	3.20E+02	8.04E+02	1.62E+03	1.00E+02	4.05E+01	1.38E+03	3.45E+01	8.56E+01
19	173			1.01E+02	1.03E+02	1.06E+02	2.14E+02	1.33E+01	5.36E+00	1.83E+02	4.57E+00	1.13E+01
19	175			3.59E+01	3.45E+02	1.61E+02	3.24E+02	2.01E+01	8.09E+00	2.76E+02	6.91E+00	1.71E+01
19	177			9.34E+01	5.33E+01	9.66E+01	4.13E+02	2.56E+01	1.03E+01	7.85E+02	1.96E+01	4.86E+01
19	179			7.65E+01	1.03E+03	4.48E+02	9.02E+02	5.59E+01	2.26E+01	7.70E+02	1.92E+01	4.77E+01
19	181			7.51E+01	7.65E+02	3.60E+02	7.25E+02	4.49E+01	1.81E+01	6.19E+02	1.55E+01	3.83E+01
19	183		1.02E+04	9.48E+01	4.32E+02	2.23E+02	4.48E+02	2.78E+01	1.12E+01	3.82E+02	9.56E+00	2.37E+01
19	185		3.29E+03	3.45E+01	1.23E+02	1.02E+02	2.06E+02	1.28E+01	5.15E+00	1.76E+02	4.40E+00	1.09E+01
19	187			4.37E+01	1.29E+03	1.61E+03	3.25E+03	2.01E+02	8.13E+01	2.77E+03	6.93E+01	1.72E+02
19	189		7.32E+02	2.35E+02	2.22E+02	5.31E+02	1.07E+03	6.63E+01	2.67E+01	9.13E+02	2.28E+01	5.65E+01
19	191			2.76E+02	2.96E+02	7.56E+02	1.52E+03	9.43E+01	3.81E+01	1.30E+03	3.25E+01	8.05E+01
19	193		5.86E+03	3.66E+02	2.92E+03	1.01E+03	2.03E+03	1.26E+02	5.08E+01	1.73E+03	4.34E+01	1.07E+02
19	195			4.19E+01	1.89E+02	3.73E+02	7.51E+02	4.65E+01	1.88E+01	6.41E+02	1.60E+01	3.97E+01
19	197			1.42E+02	3.68E+02	7.11E+02	1.43E+03	8.88E+01	3.58E+01	1.22E+03	3.06E+01	7.57E+01
20	001			1.01E+00	3.80E+02	4.61E+02	9.28E+02	5.75E+01	2.32E+01	7.92E+02	1.98E+01	4.91E+01
20	003			4.04E-01	1.73E+02	2.59E+02	5.21E+02	3.23E+01	1.30E+01	4.45E+02	1.11E+01	2.75E+01
20	005			1.74E+01	4.08E+02	4.71E+02	9.49E+02	5.88E+01	2.37E+01	8.10E+02	2.03E+01	5.02E+01
20	007			2.02E-01	1.77E+02	2.18E+02	4.39E+02	2.72E+01	1.10E+01	3.75E+02	9.37E+00	2.32E+01
20	009			9.69E+00	9.09E+02	9.15E+02	1.84E+03	1.14E+02	4.61E+01	1.57E+03	3.93E+01	9.74E+01
20	011			6.66E+00	3.58E+02	4.69E+02	9.45E+02	5.86E+01	2.36E+01	8.06E+02	2.02E+01	5.00E+01
20	013			1.96E+01	2.70E+02	3.61E+02	7.28E+02	4.51E+01	1.82E+01	6.21E+02	1.55E+01	3.85E+01
20	015			2.22E+00	1.11E+03	1.39E+03	2.80E+03	1.74E+02	7.01E+01	2.39E+03	5.98E+01	1.48E+02
20	017			4.04E-01	6.07E+01	1.16E+02	2.33E+02	1.44E+01	5.82E+00	1.99E+02	4.97E+00	1.23E+01
20	019			4.04E-01	1.24E+02	1.66E+02	3.33E+02	2.07E+01	8.33E+00	2.84E+02	7.11E+00	1.76E+01
20	021		2.14E+02	8.68E+00	5.09E+02	6.88E+02	1.39E+03	8.59E+01	3.46E+01	1.18E+03	2.96E+01	7.33E+01
20	023		1.84E+02	4.04E-01	1.01E+02	5.21E+01	1.05E+02	6.50E+00	2.62E+00	8.96E+01	2.24E+00	5.55E+00
20	025				7.35E+01	1.02E+02	2.05E+02	1.27E+01	5.11E+00	1.75E+02	4.36E+00	1.08E+01
20	027			7.26E+00	2.30E+02	3.17E+02	6.38E+02	3.95E+01	1.60E+01	5.44E+02	1.36E+01	3.37E+01
20	029			7.26E+00	3.23E+02	1.53E+02	3.08E+02	1.91E+01	7.71E+00	2.63E+02	6.58E+00	1.63E+01
20	031			7.47E+00	1.63E+02	2.59E+02	5.21E+02	3.23E+01	1.30E+01	4.44E+02	1.11E+01	2.75E+01
20	033				5.85E+01	9.74E+01	1.96E+02	1.22E+01	4.91E+00	1.67E+02	4.19E+00	1.04E+01
20	035			1.21E+00	1.00E+03	1.08E+03	2.17E+03	1.35E+02	5.43E+01	1.85E+03	4.64E+01	1.15E+02
20	037		5.51E+02	5.04E+00	1.04E+03	1.16E+03	2.33E+03	1.44E+02	5.83E+01	1.99E+03	4.97E+01	1.23E+02
20	039			8.07E-01	9.46E+01	6.20E+01	1.25E+02	7.74E+00	3.12E+00	1.07E+02	2.66E+00	6.60E+00
20	041			7.47E+00	4.98E+02	6.21E+02	1.25E+03	7.75E+01	3.13E+01	1.07E+03	2.67E+01	6.61E+01
20	043			2.54E+01	1.54E+02	2.32E+02	4.67E+02	2.89E+01	1.17E+01	3.98E+02	9.96E+00	2.47E+01
20	045			2.40E+01	2.25E+03	1.48E+03	2.98E+03	1.85E+02	7.46E+01	2.54E+03	6.36E+01	1.58E+02
20	047			1.01E+00	1.14E+02	1.43E+02	2.87E+02	1.78E+01	7.18E+00	2.45E+02	6.12E+00	1.52E+01
20	049			4.04E-01	8.95E+01	1.30E+02	2.62E+02	1.63E+01	6.56E+00	2.24E+02	5.59E+00	1.39E+01
20	051				7.58E+02	2.80E+02	5.64E+02	3.50E+01	1.41E+01	4.82E+02	1.20E+01	2.98E+01
20	053			2.02E+00	1.77E+02	2.45E+02	4.94E+02	3.06E+01	1.24E+01	4.22E+02	1.05E+01	2.61E+01
20	055		2.14E+02		9.14E+02	6.60E+02	1.33E+03	8.23E+01	3.32E+01	1.13E+03	2.83E+01	7.03E+01
20	057				7.86E+02	6.67E+02	1.34E+03	8.33E+01	3.36E+01	1.15E+03	2.87E+01	7.10E+01

To calculate allocation proportion of national emissions to county, divide number of county unit within an industry category by total (national) number of units within that category

A = Residential Heating: Anthracite Coal; SCC 2104001000

B = Residential Heating: Bituminous Lignite; SCC 2104002000

C = Residential Heating: Distillate Oil; SCC 2104004000

D = Residential Heating: Natural Gas; 2104006000

E = Fireplaces; SCC 2104008001

F = Fireplaces: Inserts; SCC 2104008002

G = Fireplaces: Inserts; non catalytic, EPA certified; SCC 2104008003

H = Fireplaces: Inserts; catalytic, EPA certified; SCC 2104008004

I = Conventional Woodstoves; SCC 2104008010

J = Catalytic Woodstoves; SCC 2104008030

K = Non-Catalytic Woodstoves; SCC 2104008050

Appendix E-3. Residential Heating County Allocations

State FIPS	County FIPS	A	B	C	D	E	F	G	H	I	J	K
		tons coal	tons coal	MMBTU	MMBTU	tons wood	tons wood	tons wood	tons wood	tons wood	tons wood	tons wood
20	059			1.03E+01	5.40E+02	6.09E+02	1.23E+03	7.60E+01	3.07E+01	1.05E+03	2.62E+01	6.48E+01
20	061			6.05E+00	7.64E+02	5.36E+02	1.08E+03	6.69E+01	2.70E+01	9.21E+02	2.30E+01	5.70E+01
20	063			2.62E+00	7.72E+01	4.67E+01	9.40E+01	5.82E+00	2.35E+00	8.02E+01	2.00E+00	4.97E+00
20	065				8.96E+01	5.42E+01	1.09E+02	6.76E+00	2.73E+00	9.31E+01	2.33E+00	5.77E+00
20	067				2.04E+02	1.63E+02	3.28E+02	2.03E+01	8.20E+00	2.80E+02	6.99E+00	1.73E+01
20	069			1.01E+00	1.53E+02	1.51E+02	3.04E+02	1.89E+01	7.61E+00	2.60E+02	6.49E+00	1.61E+01
20	071			1.61E+00	4.72E+01	2.13E+01	4.30E+01	2.66E+00	1.07E+00	3.67E+01	9.17E-01	2.27E+00
20	073			9.08E+00	1.82E+02	3.14E+02	6.32E+02	3.91E+01	1.58E+01	5.39E+02	1.35E+01	3.34E+01
20	075				7.24E+01	8.17E+01	1.65E+02	1.02E+01	4.11E+00	1.40E+02	3.51E+00	8.70E+00
20	077			4.04E-01	2.08E+02	2.51E+02	5.05E+02	3.13E+01	1.26E+01	4.31E+02	1.08E+01	2.67E+01
20	079			1.01E+01	7.65E+02	8.41E+02	1.69E+03	1.05E+02	4.23E+01	1.44E+03	3.61E+01	8.95E+01
20	081				1.12E+02	1.06E+02	2.14E+02	1.33E+01	5.36E+00	1.83E+02	4.57E+00	1.13E+01
20	083			3.63E+00	2.90E+01	7.76E+01	1.56E+02	9.69E+00	3.91E+00	1.33E+02	3.33E+00	8.26E+00
20	085			8.07E+00	1.48E+02	1.43E+02	6.11E+02	3.78E+01	1.53E+01	1.16E+03	2.90E+01	7.19E+01
20	087			1.59E+01	2.45E+02	1.89E+02	8.10E+02	5.02E+01	2.02E+01	1.54E+03	3.84E+01	9.53E+01
20	089			1.41E+00	9.17E+01	7.40E+01	1.49E+02	9.23E+00	3.72E+00	1.27E+02	3.18E+00	7.87E+00
20	091			2.54E+01	1.10E+04	8.52E+03	1.72E+04	1.06E+03	4.29E+02	1.46E+04	3.66E+02	9.07E+02
20	093				1.25E+02	9.21E+01	1.85E+02	1.15E+01	4.63E+00	1.58E+02	3.95E+00	9.80E+00
20	095			1.01E+00	1.79E+02	2.81E+02	5.66E+02	3.50E+01	1.41E+01	4.83E+02	1.21E+01	2.99E+01
20	097				1.10E+02	1.27E+02	2.56E+02	1.58E+01	6.39E+00	2.18E+02	5.45E+00	1.35E+01
20	099			1.41E+00	6.34E+02	7.61E+02	1.53E+03	9.50E+01	3.83E+01	1.31E+03	3.27E+01	8.10E+01
20	101				6.62E+01	7.91E+01	1.59E+02	9.87E+00	3.98E+00	1.36E+02	3.40E+00	8.42E+00
20	103			1.69E+01	1.38E+03	1.35E+03	2.73E+03	1.69E+02	6.82E+01	2.33E+03	5.82E+01	1.44E+02
20	105			4.24E+00	8.28E+01	1.49E+02	3.00E+02	1.86E+01	7.50E+00	2.56E+02	6.40E+00	1.58E+01
20	107		1.53E+02	3.83E+00	1.15E+02	1.19E+02	5.11E+02	3.17E+01	1.28E+01	9.70E+02	2.43E+01	6.01E+01
20	109				8.56E+01	4.43E+01	8.93E+01	5.53E+00	2.23E+00	7.62E+01	1.90E+00	4.72E+00
20	111			9.08E+00	8.11E+02	8.14E+02	1.64E+03	1.02E+02	4.10E+01	1.40E+03	3.50E+01	8.67E+01
20	113			1.57E+01	7.29E+02	7.60E+02	1.53E+03	9.48E+01	3.82E+01	1.30E+03	3.26E+01	8.08E+01
20	115			6.05E+00	3.04E+02	4.14E+02	8.34E+02	5.17E+01	2.09E+01	7.12E+02	1.78E+01	4.41E+01
20	117			8.88E+00	2.87E+02	1.62E+02	3.27E+02	2.03E+01	8.18E+00	2.79E+02	6.98E+00	1.73E+01
20	119				1.24E+02	1.53E+02	3.08E+02	1.91E+01	7.69E+00	2.62E+02	6.56E+00	1.63E+01
20	121		6.13E+02	7.87E+00	4.10E+02	2.64E+02	1.13E+03	6.99E+01	2.82E+01	2.14E+03	5.35E+01	1.33E+02
20	123			2.02E+00	1.92E+02	1.02E+02	2.05E+02	1.27E+01	5.12E+00	1.75E+02	4.36E+00	1.08E+01
20	125		1.84E+02	1.21E+00	1.18E+03	1.30E+03	2.61E+03	1.62E+02	6.53E+01	2.23E+03	5.57E+01	1.38E+02
20	127			4.04E+00	1.40E+02	2.24E+02	4.52E+02	2.80E+01	1.13E+01	3.86E+02	9.64E+00	2.39E+01
20	129				1.07E+02	9.99E+01	2.01E+02	1.25E+01	5.03E+00	1.72E+02	4.29E+00	1.06E+01
20	131			1.07E+01	2.14E+02	1.31E+02	2.64E+02	1.64E+01	6.60E+00	2.25E+02	5.63E+00	1.40E+01
20	133		6.13E+01	3.23E+00	4.70E+02	5.56E+02	1.12E+03	6.94E+01	2.80E+01	9.56E+02	2.39E+01	5.92E+01
20	135			1.61E+00	8.03E+01	1.54E+02	3.09E+02	1.92E+01	7.73E+00	2.64E+02	6.60E+00	1.63E+01
20	137			4.04E-01	1.44E+02	8.64E+01	1.74E+02	1.08E+01	4.35E+00	1.48E+02	3.71E+00	9.20E+00
20	139			2.82E+00	3.16E+02	4.29E+02	8.65E+02	5.36E+01	2.16E+01	7.38E+02	1.84E+01	4.57E+01
20	141			2.02E+00	1.29E+02	1.90E+02	3.82E+02	2.37E+01	9.56E+00	3.26E+02	8.16E+00	2.02E+01
20	143			1.09E+01	9.95E+01	1.94E+02	3.92E+02	2.43E+01	9.79E+00	3.34E+02	8.35E+00	2.07E+01
20	145			3.23E+00	2.00E+02	2.49E+02	5.02E+02	3.11E+01	1.25E+01	4.28E+02	1.07E+01	2.65E+01
20	147			1.21E+00	1.85E+02	9.97E+01	2.01E+02	1.24E+01	5.02E+00	1.71E+02	4.28E+00	1.06E+01
20	149			5.65E+00	3.33E+02	4.41E+02	8.88E+02	5.50E+01	2.22E+01	7.57E+02	1.89E+01	4.69E+01
20	151			1.61E+00	2.91E+02	3.32E+02	6.69E+02	4.14E+01	1.67E+01	5.71E+02	1.43E+01	3.54E+01
20	153			7.06E+00	8.02E+01	5.35E+01	1.08E+02	6.67E+00	2.69E+00	9.19E+01	2.30E+00	5.69E+00

To calculate allocation proportion of national emissions to county, divide number of county unit within an industry category by total (national) number of units within that category

A = Residential Heating: Anthracite Coal; SCC 2104001000

B = Residential Heating: Bituminous Lignite; SCC 2104002000

C = Residential Heating: Distillate Oil; SCC 2104004000

D = Residential Heating: Natural Gas; 2104006000

E = Fireplaces; SCC 2104008001

F = Fireplaces: Inserts; SCC 2104008002

G = Fireplaces: Inserts; non catalytic, EPA certified; SCC 2104008003

H = Fireplaces: Inserts; catalytic, EPA certified; SCC 2104008004

I = Conventional Woodstoves; SCC 2104008010

J = Catalytic Woodstoves; SCC 2104008030

K = Non-Catalytic Woodstoves; SCC 2104008050

Appendix E-3. Residential Heating County Allocations

State FIPS	County FIPS	A	B	C	D	E	F	G	H	I	J	K
		tons coal	tons coal	MMBTU	MMBTU	tons wood	tons wood	tons wood	tons wood	tons wood	tons wood	tons wood
20	155			1.01E+01	1.76E+03	1.81E+03	3.65E+03	2.26E+02	9.13E+01	3.12E+03	7.79E+01	1.93E+02
20	157		6.13E+01	3.23E+00	1.68E+02	1.05E+02	2.11E+02	1.31E+01	5.28E+00	1.80E+02	4.51E+00	1.12E+01
20	159		6.13E+01	3.43E+00	3.12E+02	3.71E+02	7.47E+02	4.63E+01	1.87E+01	6.37E+02	1.59E+01	3.95E+01
20	161			2.22E+01	1.32E+03	9.19E+02	1.85E+03	1.15E+02	4.62E+01	1.58E+03	3.95E+01	9.78E+01
20	163		9.19E+01	4.04E-01	1.78E+02	9.47E+01	1.91E+02	1.18E+01	4.77E+00	1.63E+02	4.07E+00	1.01E+01
20	165		6.13E+01		1.18E+02	1.60E+02	3.23E+02	2.00E+01	8.07E+00	2.75E+02	6.89E+00	1.71E+01
20	167			1.21E+00	2.47E+02	3.08E+02	6.20E+02	3.84E+01	1.55E+01	5.29E+02	1.32E+01	3.28E+01
20	169			1.05E+01	1.43E+03	1.34E+03	2.70E+03	1.67E+02	6.74E+01	2.30E+03	5.75E+01	1.43E+02
20	171				1.71E+02	1.66E+02	3.35E+02	2.07E+01	8.36E+00	2.85E+02	7.14E+00	1.77E+01
20	173			1.84E+01	1.17E+04	9.76E+03	1.97E+04	1.22E+03	4.92E+02	1.68E+04	4.19E+02	1.04E+03
20	175				5.55E+02	4.51E+02	9.09E+02	5.63E+01	2.27E+01	7.75E+02	1.94E+01	4.80E+01
20	177			4.24E+01	4.74E+03	4.15E+03	8.36E+03	5.18E+02	2.09E+02	7.13E+03	1.78E+02	4.42E+02
20	179				7.11E+01	9.98E+01	2.01E+02	1.25E+01	5.03E+00	1.72E+02	4.29E+00	1.06E+01
20	181			2.02E+00	2.35E+02	8.93E+01	1.80E+02	1.11E+01	4.50E+00	1.53E+02	3.84E+00	9.51E+00
20	183			2.02E+00	1.31E+02	2.03E+02	4.10E+02	2.54E+01	1.02E+01	3.50E+02	8.74E+00	2.17E+01
20	185			6.86E+00	1.46E+02	1.99E+02	4.01E+02	2.48E+01	1.00E+01	3.42E+02	8.55E+00	2.12E+01
20	187				7.18E+01	5.81E+01	1.17E+02	7.25E+00	2.92E+00	9.98E+01	2.50E+00	6.18E+00
20	189				1.71E+02	1.42E+02	2.85E+02	1.77E+01	7.13E+00	2.43E+02	6.08E+00	1.51E+01
20	191			6.46E+00	6.11E+02	7.65E+02	1.54E+03	9.55E+01	3.85E+01	1.31E+03	3.29E+01	8.15E+01
20	193				2.57E+02	9.75E+01	1.96E+02	1.22E+01	4.91E+00	1.67E+02	4.19E+00	1.04E+01
20	195			2.02E+00	9.47E+01	5.73E+01	1.15E+02	7.15E+00	2.89E+00	9.85E+01	2.46E+00	6.10E+00
20	197			7.47E+00	9.16E+01	9.23E+01	3.95E+02	2.45E+01	9.88E+00	7.50E+02	1.88E+01	4.65E+01
20	199			1.82E+00	3.87E+01	6.05E+01	1.22E+02	7.55E+00	3.04E+00	1.04E+02	2.60E+00	6.44E+00
20	201			4.84E+00	1.75E+02	2.64E+02	5.32E+02	3.29E+01	1.33E+01	4.54E+02	1.13E+01	2.81E+01
20	203				7.68E+01	3.34E+01	6.73E+01	4.17E+00	1.68E+00	5.74E+01	1.44E+00	3.56E+00
20	205			3.83E+00	2.70E+02	3.64E+02	7.33E+02	4.54E+01	1.83E+01	6.25E+02	1.56E+01	3.87E+01
20	207				8.80E+01	1.60E+02	3.22E+02	1.99E+01	8.05E+00	2.75E+02	6.87E+00	1.70E+01
20	209			1.21E+01	5.14E+03	4.12E+03	8.30E+03	5.15E+02	2.08E+02	7.09E+03	1.77E+02	4.39E+02
21	001		3.86E+01	1.52E+02	8.37E+01	1.85E+02	7.92E+02	4.91E+01	1.98E+01	1.50E+03	3.76E+01	9.32E+01
21	003		5.79E+01	7.11E+01	1.00E+02	1.70E+02	7.28E+02	4.51E+01	1.82E+01	1.38E+03	3.45E+01	8.56E+01
21	005		4.50E+01	7.90E+01	1.78E+02	1.70E+02	7.30E+02	4.52E+01	1.82E+01	1.39E+03	3.46E+01	8.58E+01
21	007		1.61E+01	3.83E+01	1.04E+02	9.83E+01	4.21E+02	2.61E+01	1.05E+01	7.99E+02	2.00E+01	4.95E+01
21	009		1.13E+02	1.50E+02	4.47E+02	4.05E+02	1.73E+03	1.07E+02	4.33E+01	3.29E+03	8.23E+01	2.04E+02
21	011		2.90E+02	2.50E+01	8.61E+01	1.05E+02	4.50E+02	2.79E+01	1.12E+01	8.54E+02	2.13E+01	5.29E+01
21	013		7.00E+03	2.75E+02	3.02E+02	2.93E+02	1.25E+03	7.76E+01	3.13E+01	2.38E+03	5.94E+01	1.47E+02
21	015		7.72E+01	8.41E+02	5.87E+02	5.26E+02	2.25E+03	1.39E+02	5.63E+01	4.27E+03	1.07E+02	2.65E+02
21	017		2.57E+02	2.33E+02	3.03E+02	5.02E+02	1.01E+03	6.27E+01	2.53E+01	8.63E+02	2.16E+01	5.35E+01
21	019		4.25E+02	1.18E+02	1.13E+03	5.97E+02	2.56E+03	1.58E+02	6.39E+01	4.85E+03	1.21E+02	3.01E+02
21	021		3.06E+02	9.95E+01	5.42E+02	6.45E+02	1.30E+03	8.05E+01	3.25E+01	1.11E+03	2.77E+01	6.87E+01
21	023		4.83E+01	1.13E+02	8.86E+01	8.52E+01	3.64E+02	2.26E+01	9.11E+00	6.92E+02	1.73E+01	4.29E+01
21	025		5.15E+03	6.06E+01	4.92E+01	1.44E+02	6.14E+02	3.81E+01	1.54E+01	1.17E+03	2.92E+01	7.23E+01
21	027		7.40E+01	5.18E+01	1.66E+02	2.11E+02	9.01E+02	5.59E+01	2.25E+01	1.71E+03	4.28E+01	1.06E+02
21	029		1.61E+02	3.88E+02	4.75E+02	4.84E+02	2.07E+03	1.28E+02	5.18E+01	3.93E+03	9.83E+01	2.44E+02
21	031		4.31E+02	4.52E+01	5.18E+01	1.27E+02	5.42E+02	3.36E+01	1.36E+01	1.03E+03	2.57E+01	6.38E+01
21	033		1.67E+02	3.56E+01	2.51E+02	4.10E+02	8.26E+02	5.12E+01	2.07E+01	7.05E+02	1.76E+01	4.37E+01
21	035		3.22E+01	1.46E+02	2.58E+02	7.92E+02	1.59E+03	9.88E+01	3.99E+01	1.36E+03	3.40E+01	8.43E+01
21	037		1.09E+02	6.89E+02	1.86E+03	1.86E+03	3.75E+03	2.32E+02	9.37E+01	3.20E+03	7.99E+01	1.98E+02
21	039			1.75E+01	7.01E+01	6.91E+01	2.96E+02	1.83E+01	7.39E+00	5.61E+02	1.40E+01	3.48E+01

To calculate allocation proportion of national emissions to county, divide number of county unit within an industry category by total (national) number of units within that category

A = Residential Heating: Anthracite Coal; SCC 2104001000

B = Residential Heating: Bituminous Lignite; SCC 2104002000

C = Residential Heating: Distillate Oil; SCC 2104004000

D = Residential Heating: Natural Gas; 2104006000

E = Fireplaces; SCC 2104008001

F = Fireplaces: Inserts; SCC 2104008002

G = Fireplaces: Inserts; non catalytic, EPA certified; SCC 2104008003

H = Fireplaces: Inserts; catalytic, EPA certified; SCC 2104008004

I = Conventional Woodstoves; SCC 2104008010

J = Catalytic Woodstoves; SCC 2104008030

K = Non-Catalytic Woodstoves; SCC 2104008050

Appendix E-3. Residential Heating County Allocations

State FIPS	County FIPS	A	B	C	D	E	F	G	H	I	J	K
		tons coal	tons coal	MMBTU	MMBTU	tons wood	tons wood	tons wood	tons wood	tons wood	tons wood	tons wood
21	041		6.44E+00	1.08E+02	1.47E+02	9.53E+01	4.08E+02	2.53E+01	1.02E+01	7.74E+02	1.94E+01	4.80E+01
21	043		2.03E+03	1.08E+02	1.32E+02	2.33E+02	9.98E+02	6.18E+01	2.50E+01	1.90E+03	4.74E+01	1.17E+02
21	045		2.45E+02	1.67E+02	5.10E+01	1.69E+02	7.21E+02	4.47E+01	1.80E+01	1.37E+03	3.42E+01	8.49E+01
21	047		8.85E+02	9.10E+01	9.08E+02	1.24E+03	2.50E+03	1.55E+02	6.25E+01	2.13E+03	5.33E+01	1.32E+02
21	049		3.80E+02	6.33E+01	5.61E+02	2.97E+02	1.27E+03	7.86E+01	3.17E+01	2.41E+03	6.02E+01	1.49E+02
21	051		6.24E+03	7.69E+01	1.96E+02	2.06E+02	8.82E+02	5.46E+01	2.21E+01	1.67E+03	4.19E+01	1.04E+02
21	053		4.57E+02	2.32E+02	1.32E+01	1.11E+02	4.74E+02	2.94E+01	1.18E+01	9.00E+02	2.25E+01	5.58E+01
21	055		7.72E+01	1.90E+01	1.01E+02	1.18E+02	5.05E+02	3.13E+01	1.26E+01	9.60E+02	2.40E+01	5.95E+01
21	057		1.61E+01	7.51E+01	6.56E+00	9.19E+01	3.93E+02	2.44E+01	9.83E+00	7.46E+02	1.87E+01	4.62E+01
21	059		8.98E+02	5.06E+01	2.27E+03	2.23E+03	4.48E+03	2.78E+02	1.12E+02	3.82E+03	9.56E+01	2.37E+02
21	061		3.09E+02	6.15E+01	4.97E+00	1.28E+02	5.47E+02	3.39E+01	1.37E+01	1.04E+03	2.60E+01	6.44E+01
21	063		8.37E+02	1.39E+01	1.04E+01	6.60E+01	2.82E+02	1.75E+01	7.06E+00	5.36E+02	1.34E+01	3.32E+01
21	065		4.99E+02	6.54E+01	1.79E+02	1.55E+02	6.63E+02	4.11E+01	1.66E+01	1.26E+03	3.15E+01	7.80E+01
21	067		4.09E+02	2.25E+02	5.03E+03	4.67E+03	9.40E+03	5.82E+02	2.35E+02	8.02E+03	2.00E+02	4.97E+02
21	069		2.45E+02	9.28E+01	6.15E+01	1.43E+02	6.14E+02	3.80E+01	1.53E+01	1.17E+03	2.91E+01	7.22E+01
21	071		4.08E+03	5.55E+01	7.98E+02	4.40E+02	1.88E+03	1.17E+02	4.71E+01	3.57E+03	8.94E+01	2.21E+02
21	073		1.67E+02	1.48E+02	8.64E+02	1.01E+03	2.04E+03	1.27E+02	5.11E+01	1.74E+03	4.36E+01	1.08E+02
21	075		4.18E+01	2.29E+01	1.53E+02	2.37E+02	4.78E+02	2.96E+01	1.19E+01	4.08E+02	1.02E+01	2.53E+01
21	077		4.83E+01	1.24E+02	2.62E+01	5.17E+01	2.21E+02	1.37E+01	5.53E+00	4.20E+02	1.05E+01	2.60E+01
21	079		8.40E+02	7.48E+01	1.12E+02	1.43E+02	6.12E+02	3.79E+01	1.53E+01	1.16E+03	2.90E+01	7.20E+01
21	081		2.09E+02	5.50E+02	3.85E+01	1.54E+02	6.58E+02	4.07E+01	1.64E+01	1.25E+03	3.12E+01	7.74E+01
21	083		3.86E+01	9.77E+01	5.44E+02	4.26E+02	1.82E+03	1.13E+02	4.56E+01	3.46E+03	8.66E+01	2.15E+02
21	085		5.47E+01	1.37E+02	8.78E+01	2.76E+02	1.18E+03	7.32E+01	2.95E+01	2.24E+03	5.61E+01	1.39E+02
21	087			5.12E+01	1.01E+02	1.37E+02	5.86E+02	3.63E+01	1.46E+01	1.11E+03	2.78E+01	6.89E+01
21	089		1.60E+03	1.12E+02	6.26E+02	1.03E+03	2.07E+03	1.28E+02	5.16E+01	1.76E+03	4.41E+01	1.09E+02
21	091		1.54E+02	4.52E+00	1.05E+02	8.01E+01	3.43E+02	2.12E+01	8.56E+00	6.51E+02	1.63E+01	4.03E+01
21	093		2.19E+02	5.74E+02	9.68E+02	1.71E+03	3.43E+03	2.13E+02	8.58E+01	2.93E+03	7.32E+01	1.81E+02
21	095		1.18E+04	8.83E+02	1.43E+01	3.78E+02	1.62E+03	1.00E+02	4.04E+01	3.07E+03	7.68E+01	1.90E+02
21	097		3.22E+01	2.34E+02	1.97E+02	1.82E+02	7.78E+02	4.82E+01	1.95E+01	1.48E+03	3.70E+01	9.16E+01
21	099		7.40E+01	6.78E+01	1.36E+02	1.84E+02	7.88E+02	4.88E+01	1.97E+01	1.50E+03	3.74E+01	9.27E+01
21	101		3.99E+02	5.58E+01	8.80E+02	1.03E+03	2.07E+03	1.28E+02	5.18E+01	1.77E+03	4.42E+01	1.10E+02
21	103		1.32E+02	1.30E+02	1.29E+02	1.52E+02	6.49E+02	4.02E+01	1.62E+01	1.23E+03	3.08E+01	7.64E+01
21	105			2.08E+01	6.06E+01	7.08E+01	3.03E+02	1.88E+01	7.57E+00	5.75E+02	1.44E+01	3.56E+01
21	107		1.22E+03	4.55E+01	9.60E+02	1.23E+03	2.48E+03	1.54E+02	6.21E+01	2.12E+03	5.29E+01	1.31E+02
21	109		2.18E+03	1.18E+02	5.63E+00	1.38E+02	5.91E+02	3.66E+01	1.48E+01	1.12E+03	2.80E+01	6.95E+01
21	111		5.44E+02	1.10E+03	1.89E+04	1.63E+04	3.28E+04	2.03E+03	8.20E+02	2.80E+04	7.00E+02	1.73E+03
21	113		5.05E+02	1.63E+02	3.83E+02	6.82E+02	1.37E+03	8.51E+01	3.44E+01	1.17E+03	2.93E+01	7.26E+01
21	115		3.61E+03	1.19E+02	2.59E+02	2.29E+02	9.81E+02	6.08E+01	2.45E+01	1.86E+03	4.66E+01	1.15E+02
21	117		2.06E+02	1.17E+03	2.98E+03	3.07E+03	6.17E+03	3.82E+02	1.54E+02	5.27E+03	1.32E+02	3.26E+02
21	119		3.22E+03	1.78E+01	2.55E+02	1.73E+02	7.39E+02	4.58E+01	1.85E+01	1.40E+03	3.51E+01	8.70E+01
21	121		5.29E+03	1.98E+02	3.90E+02	2.84E+02	1.22E+03	7.53E+01	3.04E+01	2.31E+03	5.77E+01	1.43E+02
21	123		6.76E+01	1.97E+02	1.05E+02	1.42E+02	6.08E+02	3.77E+01	1.52E+01	1.15E+03	2.88E+01	7.15E+01
21	125		3.66E+03	5.74E+02	2.22E+02	4.33E+02	1.85E+03	1.15E+02	4.63E+01	3.52E+03	8.79E+01	2.18E+02
21	127		2.13E+03	6.63E+01	1.23E+02	1.40E+02	5.99E+02	3.71E+01	1.50E+01	1.14E+03	2.85E+01	7.05E+01
21	129		1.40E+03	5.85E+01	6.66E+00	7.62E+01	3.26E+02	2.02E+01	8.15E+00	6.19E+02	1.55E+01	3.84E+01
21	131		5.54E+03	6.06E+01	1.06E+01	1.24E+02	5.29E+02	3.28E+01	1.32E+01	1.01E+03	2.51E+01	6.23E+01
21	133		9.72E+03	3.95E+02	1.49E+01	2.81E+02	1.20E+03	7.46E+01	3.01E+01	2.29E+03	5.71E+01	1.42E+02
21	135		2.19E+02	3.68E+01	6.66E+01	1.47E+02	6.30E+02	3.90E+01	1.57E+01	1.20E+03	2.99E+01	7.41E+01

To calculate allocation proportion of national emissions to county, divide number of county unit within an industry category by total (national) number of units within that category

A = Residential Heating: Anthracite Coal; SCC 2104001000

B = Residential Heating: Bituminous Lignite; SCC 2104002000

C = Residential Heating: Distillate Oil; SCC 2104004000

D = Residential Heating: Natural Gas; 2104006000

E = Fireplaces; SCC 2104008001

F = Fireplaces: Inserts; SCC 2104008002

G = Fireplaces: Inserts; non catalytic, EPA certified; SCC 2104008003

H = Fireplaces: Inserts; catalytic, EPA certified; SCC 2104008004

I = Conventional Woodstoves; SCC 2104008010

J = Catalytic Woodstoves; SCC 2104008030

K = Non-Catalytic Woodstoves; SCC 2104008050

Appendix E-3. Residential Heating County Allocations

State FIPS	County FIPS	A	B	C	D	E	F	G	H	I	J	K
		tons coal	tons coal	MMBTU	MMBTU	tons wood	tons wood	tons wood	tons wood	tons wood	tons wood	tons wood
21	137		1.07E+03	2.58E+02	1.20E+02	2.29E+02	9.78E+02	6.06E+01	2.44E+01	1.86E+03	4.64E+01	1.15E+02
21	139		6.44E+00	4.16E+01	3.01E+01	1.17E+02	5.00E+02	3.10E+01	1.25E+01	9.50E+02	2.37E+01	5.88E+01
21	141		2.41E+02	1.08E+02	2.98E+02	2.84E+02	1.21E+03	7.52E+01	3.03E+01	2.30E+03	5.76E+01	1.43E+02
21	143		2.25E+01	1.02E+01	7.22E+01	7.39E+01	3.16E+02	1.96E+01	7.91E+00	6.00E+02	1.50E+01	3.72E+01
21	145		2.25E+01	8.74E+01	1.46E+03	7.22E+02	3.09E+03	1.91E+02	7.73E+01	5.87E+03	1.47E+02	3.64E+02
21	147		1.86E+03	3.72E+02		1.51E+02	6.45E+02	4.00E+01	1.61E+01	1.23E+03	3.06E+01	7.59E+01
21	149		3.54E+02	2.38E+01	1.25E+02	1.11E+02	4.75E+02	2.94E+01	1.19E+01	9.02E+02	2.25E+01	5.59E+01
21	151		1.92E+03	2.03E+02	6.53E+02	1.16E+03	2.35E+03	1.45E+02	5.86E+01	2.00E+03	5.00E+01	1.24E+02
21	153		3.00E+03	7.11E+01	5.82E+01	1.05E+02	4.48E+02	2.78E+01	1.12E+01	8.51E+02	2.13E+01	5.27E+01
21	155		4.83E+01	6.54E+01	1.94E+02	1.75E+02	7.50E+02	4.65E+01	1.87E+01	1.42E+03	3.56E+01	8.82E+01
21	157		3.86E+01	8.35E+01	2.59E+02	3.48E+02	1.49E+03	9.23E+01	3.72E+01	2.83E+03	7.07E+01	1.75E+02
21	159		1.11E+03	2.50E+01	1.89E+02	1.07E+02	4.58E+02	2.84E+01	1.14E+01	8.69E+02	2.17E+01	5.38E+01
21	161		7.40E+01	7.57E+01	3.29E+02	4.43E+02	8.92E+02	5.53E+01	2.23E+01	7.61E+02	1.90E+01	4.72E+01
21	163		1.29E+01	1.06E+02	2.29E+02	1.73E+02	7.40E+02	4.59E+01	1.85E+01	1.41E+03	3.51E+01	8.71E+01
21	165		1.13E+02	1.66E+01	2.55E+01	6.99E+01	2.99E+02	1.85E+01	7.47E+00	5.68E+02	1.42E+01	3.52E+01
21	167		2.35E+02	1.33E+02	2.88E+02	2.45E+02	1.05E+03	6.51E+01	2.63E+01	1.99E+03	4.99E+01	1.24E+02
21	169			3.71E+01	3.98E+01	1.06E+02	4.55E+02	2.82E+01	1.14E+01	8.64E+02	2.16E+01	5.36E+01
21	171		2.25E+01	3.65E+01	3.88E+01	1.42E+02	6.09E+02	3.77E+01	1.52E+01	1.16E+03	2.89E+01	7.16E+01
21	173		2.03E+02	7.60E+01	3.33E+02	2.02E+02	8.65E+02	5.36E+01	2.16E+01	1.64E+03	4.11E+01	1.02E+02
21	175		2.46E+03	5.64E+01	3.03E+01	1.19E+02	5.10E+02	3.16E+01	1.28E+01	9.69E+02	2.42E+01	6.01E+01
21	177		1.69E+03	4.97E+01	4.61E+02	3.51E+02	1.50E+03	9.32E+01	3.76E+01	2.86E+03	7.14E+01	1.77E+02
21	179		1.29E+02	5.24E+02	1.67E+02	3.23E+02	1.38E+03	8.56E+01	3.45E+01	2.62E+03	6.56E+01	1.63E+02
21	181		5.79E+01	6.48E+01	7.05E+01	7.73E+01	3.31E+02	2.05E+01	8.27E+00	6.28E+02	1.57E+01	3.89E+01
21	183		1.40E+03	4.76E+01	2.36E+02	2.40E+02	1.02E+03	6.35E+01	2.56E+01	1.95E+03	4.87E+01	1.21E+02
21	185		3.22E+01	1.85E+02	2.87E+02	3.69E+02	1.58E+03	9.78E+01	3.95E+01	3.00E+03	7.49E+01	1.86E+02
21	187		7.72E+01	1.50E+02	1.88E+00	1.19E+02	5.10E+02	3.16E+01	1.28E+01	9.69E+02	2.42E+01	6.00E+01
21	189		1.71E+03	2.86E+01	2.25E+00	5.78E+01	2.47E+02	1.53E+01	6.19E+00	4.70E+02	1.17E+01	2.91E+01
21	191		1.35E+02	2.79E+02	1.15E+02	1.30E+02	5.57E+02	3.45E+01	1.39E+01	1.06E+03	2.64E+01	6.55E+01
21	193		8.25E+03	7.11E+01	2.12E+02	2.75E+02	1.18E+03	7.29E+01	2.94E+01	2.23E+03	5.58E+01	1.38E+02
21	195		1.07E+04	4.63E+02	6.88E+02	6.73E+02	2.88E+03	1.79E+02	7.20E+01	5.47E+03	1.37E+02	3.39E+02
21	197		5.95E+02	6.81E+01	1.18E+02	1.15E+02	4.94E+02	3.06E+01	1.23E+01	9.38E+02	2.34E+01	5.81E+01
21	199		2.01E+03	8.03E+02	2.77E+02	5.68E+02	2.43E+03	1.51E+02	6.08E+01	4.62E+03	1.15E+02	2.86E+02
21	201		3.54E+01	2.38E+01	2.10E+01	2.75E+01	1.18E+02	7.29E+00	2.94E+00	2.23E+02	5.58E+00	1.38E+01
21	203		1.45E+03	4.26E+02	3.56E+00	1.57E+02	6.70E+02	4.15E+01	1.67E+01	1.27E+03	3.18E+01	7.88E+01
21	205		2.80E+02	3.56E+01	2.21E+02	1.68E+02	7.17E+02	4.44E+01	1.79E+01	1.36E+03	3.40E+01	8.43E+01
21	207		9.33E+01	4.49E+02	3.47E+00	1.89E+02	8.10E+02	5.02E+01	2.03E+01	1.54E+03	3.85E+01	9.53E+01
21	209		2.03E+02	1.37E+02	2.72E+02	5.56E+02	1.12E+03	6.93E+01	2.80E+01	9.55E+02	2.39E+01	5.92E+01
21	211		1.42E+02	1.94E+02	3.09E+02	2.90E+02	1.24E+03	7.68E+01	3.10E+01	2.35E+03	5.89E+01	1.46E+02
21	213			5.03E+01	2.34E+02	1.78E+02	7.63E+02	4.73E+01	1.91E+01	1.45E+03	3.62E+01	8.97E+01
21	215		2.25E+01	7.60E+01	5.53E+00	7.26E+01	3.11E+02	1.93E+01	7.77E+00	5.90E+02	1.48E+01	3.66E+01
21	217			9.80E+01	3.69E+02	2.60E+02	1.11E+03	6.90E+01	2.78E+01	2.11E+03	5.29E+01	1.31E+02
21	219		3.89E+02	5.82E+01	5.45E+01	1.31E+02	5.61E+02	3.47E+01	1.40E+01	1.06E+03	2.66E+01	6.60E+01
21	221		2.25E+02	4.28E+01	5.66E+01	1.42E+02	6.08E+02	3.77E+01	1.52E+01	1.15E+03	2.89E+01	7.15E+01
21	223		4.50E+01	1.38E+02	2.63E+01	6.85E+01	2.93E+02	1.81E+01	7.32E+00	5.56E+02	1.39E+01	3.45E+01
21	225		1.87E+02	4.19E+01	2.28E+02	1.65E+02	7.05E+02	4.37E+01	1.76E+01	1.34E+03	3.35E+01	8.30E+01
21	227		1.87E+02	1.71E+02	1.35E+03	1.75E+03	3.53E+03	2.19E+02	8.83E+01	3.01E+03	7.53E+01	1.87E+02
21	229		3.54E+01	9.28E+01	9.10E+01	1.19E+02	5.11E+02	3.17E+01	1.28E+01	9.71E+02	2.43E+01	6.02E+01
21	231		1.23E+03	3.02E+02	6.56E-01	2.13E+02	9.10E+02	5.64E+01	2.28E+01	1.73E+03	4.32E+01	1.07E+02

To calculate allocation proportion of national emissions to county, divide number of county unit within an industry category by total (national) number of units within that category

A = Residential Heating: Anthracite Coal; SCC 2104001000

B = Residential Heating: Bituminous Lignite; SCC 2104002000

C = Residential Heating: Distillate Oil; SCC 2104004000

D = Residential Heating: Natural Gas; 2104006000

E = Fireplaces; SCC 2104008001

F = Fireplaces: Inserts; SCC 2104008002

G = Fireplaces: Inserts; non catalytic, EPA certified; SCC 2104008003

H = Fireplaces: Inserts; catalytic, EPA certified; SCC 2104008004

I = Conventional Woodstoves; SCC 2104008010

J = Catalytic Woodstoves; SCC 2104008030

K = Non-Catalytic Woodstoves; SCC 2104008050

Appendix E-3. Residential Heating County Allocations

State FIPS	County FIPS	A	B	C	D	E	F	G	H	I	J	K
		tons coal	tons coal	MMBTU	MMBTU	tons wood	tons wood	tons wood	tons wood	tons wood	tons wood	tons wood
21	233		5.34E+02	1.84E+01	2.42E+02	3.98E+02	8.02E+02	4.97E+01	2.00E+01	6.84E+02	1.71E+01	4.24E+01
21	235		6.47E+03	1.64E+02	4.33E+02	3.38E+02	1.45E+03	8.96E+01	3.62E+01	2.75E+03	6.87E+01	1.70E+02
21	237		1.37E+03	2.65E+01	1.48E+01	6.89E+01	2.95E+02	1.83E+01	7.37E+00	5.60E+02	1.40E+01	3.47E+01
21	239		1.06E+02	8.44E+01	3.05E+02	2.32E+02	9.93E+02	6.15E+01	2.48E+01	1.89E+03	4.71E+01	1.17E+02
22	001			6.08E+00	6.14E+02	3.24E+02	6.53E+02	4.05E+01	1.63E+01	5.57E+02	1.39E+01	3.45E+01
22	003			1.82E+00	2.04E+02	1.27E+02	2.56E+02	1.59E+01	6.41E+00	2.19E+02	5.47E+00	1.36E+01
22	005			3.20E+00	5.43E+02	2.94E+02	1.26E+03	7.81E+01	3.15E+01	2.39E+03	5.98E+01	1.48E+02
22	007			4.16E-01	2.18E+02	1.19E+02	5.11E+02	3.16E+01	1.28E+01	9.70E+02	2.42E+01	6.01E+01
22	009			9.36E-01	4.92E+02	2.59E+02	1.11E+03	6.87E+01	2.77E+01	2.11E+03	5.26E+01	1.30E+02
22	011			4.73E+00	1.95E+02	1.77E+02	7.59E+02	4.70E+01	1.90E+01	1.44E+03	3.60E+01	8.93E+01
22	013			2.86E-01	1.63E+02	1.07E+02	4.59E+02	2.84E+01	1.15E+01	8.71E+02	2.18E+01	5.40E+01
22	015			8.58E-01	1.03E+03	4.44E+02	8.94E+02	5.54E+01	2.23E+01	7.62E+02	1.91E+01	4.72E+01
22	017			1.20E+00	3.47E+03	1.45E+03	2.93E+03	1.81E+02	7.32E+01	2.50E+03	6.24E+01	1.55E+02
22	019			8.21E+00	1.98E+03	9.09E+02	1.83E+03	1.13E+02	4.57E+01	1.56E+03	3.90E+01	9.67E+01
22	021				5.76E+01	6.76E+01	2.89E+02	1.79E+01	7.23E+00	5.49E+02	1.37E+01	3.40E+01
22	023			2.70E+00	7.88E+01	6.84E+01	2.93E+02	1.81E+01	7.32E+00	5.56E+02	1.39E+01	3.44E+01
22	025			7.28E-01	8.53E+01	7.27E+01	3.11E+02	1.93E+01	7.77E+00	5.90E+02	1.48E+01	3.66E+01
22	027				1.78E+02	1.20E+02	5.15E+02	3.19E+01	1.29E+01	9.78E+02	2.44E+01	6.06E+01
22	029			1.04E+00	2.22E+02	1.27E+02	2.55E+02	1.58E+01	6.37E+00	2.17E+02	5.43E+00	1.35E+01
22	031			3.12E-01	2.29E+02	1.52E+02	6.52E+02	4.04E+01	1.63E+01	1.24E+03	3.09E+01	7.67E+01
22	033			4.99E+00	3.88E+03	1.96E+03	3.95E+03	2.45E+02	9.88E+01	3.37E+03	8.43E+01	2.09E+02
22	035			7.80E-01	9.33E+01	5.51E+01	1.11E+02	6.87E+00	2.77E+00	9.46E+01	2.36E+00	5.86E+00
22	037			2.86E+00	1.12E+02	9.05E+01	3.87E+02	2.40E+01	9.68E+00	7.36E+02	1.84E+01	4.56E+01
22	039			8.32E-01	4.08E+02	2.24E+02	9.60E+02	5.95E+01	2.40E+01	1.82E+03	4.56E+01	1.13E+02
22	041			1.74E+00	1.53E+02	1.44E+02	6.14E+02	3.80E+01	1.54E+01	1.17E+03	2.92E+01	7.22E+01
22	043			1.17E+00	1.51E+02	1.12E+02	4.77E+02	2.96E+01	1.19E+01	9.06E+02	2.27E+01	5.62E+01
22	045			1.30E+00	8.21E+02	3.47E+02	6.99E+02	4.33E+01	1.75E+01	5.96E+02	1.49E+01	3.69E+01
22	047			1.20E+00	2.90E+02	1.69E+02	7.24E+02	4.48E+01	1.81E+01	1.37E+03	3.44E+01	8.52E+01
22	049			3.90E-01	1.77E+02	1.09E+02	4.66E+02	2.89E+01	1.17E+01	8.85E+02	2.21E+01	5.49E+01
22	051			1.40E+00	5.20E+03	2.38E+03	1.02E+04	6.32E+02	2.55E+02	1.94E+04	4.84E+02	1.20E+03
22	053			2.26E+00	3.45E+02	1.90E+02	3.82E+02	2.37E+01	9.55E+00	3.26E+02	8.14E+00	2.02E+01
22	055			2.16E+00	1.36E+03	8.35E+02	1.68E+03	1.04E+02	4.21E+01	1.44E+03	3.59E+01	8.89E+01
22	057			2.44E+00	8.65E+02	4.56E+02	1.95E+03	1.21E+02	4.88E+01	3.71E+03	9.27E+01	2.30E+02
22	059			9.36E-01	9.78E+01	9.23E+01	3.95E+02	2.45E+01	9.87E+00	7.50E+02	1.87E+01	4.64E+01
22	061			4.16E-01	4.98E+02	1.92E+02	3.87E+02	2.40E+01	9.68E+00	3.30E+02	8.26E+00	2.05E+01
22	063			1.07E+01	3.93E+02	3.64E+02	1.56E+03	9.66E+01	3.90E+01	2.96E+03	7.40E+01	1.83E+02
22	065			3.64E-01	1.38E+02	7.50E+01	1.51E+02	9.36E+00	3.78E+00	1.29E+02	3.22E+00	7.99E+00
22	067			1.87E+00	3.51E+02	2.05E+02	8.79E+02	5.44E+01	2.20E+01	1.67E+03	4.17E+01	1.03E+02
22	069			9.62E-01	3.32E+02	2.02E+02	4.08E+02	2.53E+01	1.02E+01	3.48E+02	8.70E+00	2.16E+01
22	071			4.00E+00	7.06E+03	1.64E+03	3.30E+03	2.04E+02	8.24E+01	2.81E+03	7.03E+01	1.74E+02
22	073			2.18E+00	1.48E+03	8.05E+02	3.45E+03	2.13E+02	8.61E+01	6.54E+03	1.64E+02	4.05E+02
22	075			8.06E-01	2.39E+02	9.99E+01	2.01E+02	1.25E+01	5.03E+00	1.72E+02	4.29E+00	1.06E+01
22	077			9.62E-01	2.86E+02	1.51E+02	6.47E+02	4.01E+01	1.62E+01	1.23E+03	3.07E+01	7.61E+01
22	079			3.40E+00	1.32E+03	7.12E+02	1.43E+03	8.88E+01	3.58E+01	1.22E+03	3.06E+01	7.58E+01
22	081			5.20E-02	6.33E+01	5.64E+01	2.41E+02	1.49E+01	6.03E+00	4.58E+02	1.15E+01	2.84E+01
22	083			1.20E+00	1.49E+02	1.27E+02	5.43E+02	3.36E+01	1.36E+01	1.03E+03	2.58E+01	6.38E+01
22	085			2.31E+00	1.41E+02	1.42E+02	6.09E+02	3.78E+01	1.52E+01	1.16E+03	2.89E+01	7.17E+01
22	087			2.08E-01	9.10E+02	3.40E+02	6.85E+02	4.24E+01	1.71E+01	5.84E+02	1.46E+01	3.62E+01

To calculate allocation proportion of national emissions to county, divide number of county unit within an industry category by total (national) number of units within that category

A = Residential Heating: Anthracite Coal; SCC 2104001000

B = Residential Heating: Bituminous Lignite; SCC 2104002000

C = Residential Heating: Distillate Oil; SCC 2104004000

D = Residential Heating: Natural Gas; 2104006000

E = Fireplaces; SCC 2104008001

F = Fireplaces: Inserts; SCC 2104008002

G = Fireplaces: Inserts; non catalytic, EPA certified; SCC 2104008003

H = Fireplaces: Inserts; catalytic, EPA certified; SCC 2104008004

I = Conventional Woodstoves; SCC 2104008010

J = Catalytic Woodstoves; SCC 2104008030

K = Non-Catalytic Woodstoves; SCC 2104008050

Appendix E-3. Residential Heating County Allocations

State FIPS	County FIPS	A	B	C	D	E	F	G	H	I	J	K
		tons coal	tons coal	MMBTU	MMBTU	tons wood	tons wood	tons wood	tons wood	tons wood	tons wood	tons wood
22	089			1.30E-01	4.08E+02	2.27E+02	4.57E+02	2.83E+01	1.14E+01	3.90E+02	9.74E+00	2.41E+01
22	091			1.98E+00	2.77E+01	5.47E+01	2.34E+02	1.45E+01	5.85E+00	4.44E+02	1.11E+01	2.75E+01
22	093				2.07E+02	1.06E+02	4.53E+02	2.81E+01	1.13E+01	8.60E+02	2.15E+01	5.33E+01
22	095				2.67E+02	2.08E+02	4.19E+02	2.60E+01	1.05E+01	3.58E+02	8.95E+00	2.22E+01
22	097			2.50E+00	8.66E+02	4.57E+02	9.21E+02	5.70E+01	2.30E+01	7.85E+02	1.96E+01	4.87E+01
22	099			2.26E+00	3.24E+02	2.51E+02	1.07E+03	6.66E+01	2.69E+01	2.04E+03	5.10E+01	1.26E+02
22	101			9.88E-01	7.10E+02	2.71E+02	5.46E+02	3.39E+01	1.37E+01	4.66E+02	1.17E+01	2.89E+01
22	103			4.42E+00	1.04E+03	8.59E+02	3.68E+03	2.28E+02	9.19E+01	6.98E+03	1.75E+02	4.33E+02
22	105			8.19E+00	5.11E+02	4.67E+02	2.00E+03	1.24E+02	5.00E+01	3.80E+03	9.50E+01	2.35E+02
22	107			1.30E-01	7.13E+01	5.58E+01	1.12E+02	6.96E+00	2.81E+00	9.58E+01	2.40E+00	5.94E+00
22	109			1.46E+00	1.08E+03	4.95E+02	2.12E+03	1.31E+02	5.30E+01	4.02E+03	1.01E+02	2.49E+02
22	111			7.54E-01	2.07E+02	1.38E+02	5.91E+02	3.66E+01	1.48E+01	1.12E+03	2.81E+01	6.96E+01
22	113			5.33E+00	4.41E+02	3.11E+02	1.33E+03	8.25E+01	3.33E+01	2.53E+03	6.32E+01	1.57E+02
22	115			4.44E+00	2.65E+02	1.96E+02	8.38E+02	5.19E+01	2.10E+01	1.59E+03	3.98E+01	9.86E+01
22	117			2.57E+00	4.43E+02	2.83E+02	1.21E+03	7.49E+01	3.02E+01	2.30E+03	5.74E+01	1.42E+02
22	119				6.15E+02	2.70E+02	5.43E+02	3.37E+01	1.36E+01	4.63E+02	1.16E+01	2.87E+01
22	121			9.88E-01	2.12E+02	1.01E+02	4.32E+02	2.68E+01	1.08E+01	8.21E+02	2.05E+01	5.09E+01
22	123			1.56E+00	6.55E+01	7.63E+01	3.26E+02	2.02E+01	8.16E+00	6.20E+02	1.55E+01	3.84E+01
22	125			1.25E+00	4.30E+01	4.05E+01	1.73E+02	1.07E+01	4.33E+00	3.29E+02	8.23E+00	2.04E+01
22	127			7.02E-01	1.29E+02	1.09E+02	4.68E+02	2.90E+01	1.17E+01	8.89E+02	2.22E+01	5.51E+01
23	001	5.64E+01		2.88E+04	2.88E+02	2.72E+03	5.47E+03	3.39E+02	1.37E+02	4.67E+03	1.17E+02	2.89E+02
23	003	1.57E+02		2.24E+04	1.22E+00	1.58E+03	6.75E+03	4.18E+02	1.69E+02	1.28E+04	3.21E+02	7.94E+02
23	005	5.71E+02		6.22E+04	6.56E+02	4.32E+03	1.85E+04	1.15E+03	4.62E+02	3.51E+04	8.77E+02	2.17E+03
23	007	1.26E+01		5.99E+03	7.33E-01	7.66E+02	3.28E+03	2.03E+02	8.20E+01	6.23E+03	1.56E+02	3.86E+02
23	009	4.49E+01		1.17E+04	7.33E-01	1.49E+03	6.39E+03	3.96E+02	1.60E+02	1.21E+04	3.03E+02	7.52E+02
23	011	1.64E+02		3.03E+04	1.34E+00	2.06E+03	8.83E+03	5.47E+02	2.21E+02	1.68E+04	4.19E+02	1.04E+03
23	013	3.67E+01		9.42E+03	3.54E+00	9.14E+02	3.91E+03	2.42E+02	9.77E+01	7.42E+03	1.86E+02	4.60E+02
23	015	1.03E+02		7.67E+03		9.00E+02	3.85E+03	2.39E+02	9.62E+01	7.31E+03	1.83E+02	4.53E+02
23	017	2.96E+01		1.28E+04	2.08E+00	1.31E+03	5.59E+03	3.47E+02	1.40E+02	1.06E+04	2.66E+02	6.58E+02
23	019	8.82E+01		4.02E+04	1.27E+01	2.33E+03	9.99E+03	6.19E+02	2.50E+02	1.90E+04	4.74E+02	1.18E+03
23	021	1.59E+01		4.52E+03		6.97E+02	2.98E+03	1.85E+02	7.46E+01	5.67E+03	1.42E+02	3.51E+02
23	023	6.85E+01		8.50E+03	8.80E+00	6.22E+02	2.66E+03	1.65E+02	6.65E+01	5.05E+03	1.26E+02	3.13E+02
23	025	4.60E+01		1.17E+04	4.89E-01	1.12E+03	4.79E+03	2.97E+02	1.20E+02	9.10E+03	2.27E+02	5.64E+02
23	027	2.25E+01		7.44E+03	1.59E+00	7.61E+02	3.26E+03	2.02E+02	8.14E+01	6.19E+03	1.55E+02	3.83E+02
23	029	1.48E+01		9.42E+03	4.89E-01	9.28E+02	3.97E+03	2.46E+02	9.92E+01	7.54E+03	1.88E+02	4.67E+02
23	031	3.69E+02		4.12E+04	2.26E+01	3.42E+03	1.47E+04	9.08E+02	3.66E+02	2.78E+04	6.95E+02	1.72E+03
24	001	5.31E+02	6.82E+03	2.29E+03	1.59E+03	1.93E+03	3.89E+03	2.41E+02	9.73E+01	3.32E+03	8.30E+01	2.06E+02
24	003	2.87E+01	3.68E+02	1.96E+04	4.89E+03	3.92E+03	1.68E+04	1.04E+03	4.19E+02	3.18E+04	7.96E+02	1.97E+03
24	005	3.03E+01	3.89E+02	2.56E+04	1.47E+04	5.05E+03	2.16E+04	1.34E+03	5.41E+02	4.11E+04	1.03E+03	2.54E+03
24	009	2.19E+00	2.81E+01	3.06E+03	5.66E+00	6.57E+02	2.81E+03	1.74E+02	7.03E+01	5.34E+03	1.34E+02	3.31E+02
24	011	5.18E+00	6.65E+01	2.50E+03	8.35E+00	3.07E+02	1.32E+03	8.15E+01	3.29E+01	2.50E+03	6.25E+01	1.55E+02
24	013	4.16E+01	5.34E+02	8.23E+03	3.17E+02	1.24E+03	5.31E+03	3.29E+02	1.33E+02	1.01E+04	2.52E+02	6.25E+02
24	015	2.07E+01	2.66E+02	6.19E+03	1.82E+02	7.45E+02	3.19E+03	1.97E+02	7.97E+01	6.05E+03	1.51E+02	3.75E+02
24	017	3.99E+00	5.11E+01	6.19E+03	2.41E+02	9.27E+02	3.97E+03	2.46E+02	9.92E+01	7.53E+03	1.88E+02	4.67E+02
24	019	2.39E+00	3.07E+01	3.07E+03	9.21E+01	3.87E+02	1.66E+03	1.03E+02	4.14E+01	3.14E+03	7.86E+01	1.95E+02
24	021	2.69E+01	3.45E+02	7.92E+03	5.39E+02	1.35E+03	5.78E+03	3.58E+02	1.45E+02	1.10E+04	2.75E+02	6.80E+02
24	023	3.08E+02	3.96E+03	1.91E+03	1.16E+02	3.51E+02	1.50E+03	9.30E+01	3.75E+01	2.85E+03	7.13E+01	1.77E+02
24	025	3.47E+01	4.45E+02	9.20E+03	1.61E+03	1.56E+03	6.68E+03	4.14E+02	1.67E+02	1.27E+04	3.17E+02	7.86E+02

To calculate allocation proportion of national emissions to county, divide number of county unit within an industry category by total (national) number of units within that category

A = Residential Heating: Anthracite Coal; SCC 2104001000

B = Residential Heating: Bituminous Lignite; SCC 2104002000

C = Residential Heating: Distillate Oil; SCC 2104004000

D = Residential Heating: Natural Gas; 2104006000

E = Fireplaces; SCC 2104008001

F = Fireplaces: Inserts; SCC 2104008002

G = Fireplaces: Inserts; non catalytic, EPA certified; SCC 2104008003

H = Fireplaces: Inserts; catalytic, EPA certified; SCC 2104008004

I = Conventional Woodstoves; SCC 2104008010

J = Catalytic Woodstoves; SCC 2104008030

K = Non-Catalytic Woodstoves; SCC 2104008050

Appendix E-3. Residential Heating County Allocations

State FIPS	County FIPS	A	B	C	D	E	F	G	H	I	J	K
		tons coal	tons coal	MMBTU	MMBTU	tons wood	tons wood	tons wood	tons wood	tons wood	tons wood	tons wood
24	027	4.58E+00	5.88E+01	4.91E+03	1.96E+03	3.34E+03	6.73E+03	4.17E+02	1.68E+02	5.74E+03	1.43E+02	3.56E+02
24	029	8.57E+00	1.10E+02	1.69E+03	1.08E+01	2.52E+02	1.08E+03	6.68E+01	2.70E+01	2.05E+03	5.12E+01	1.27E+02
24	031	5.58E+00	7.16E+01	1.47E+04	1.60E+04	5.79E+03	2.48E+04	1.54E+03	6.20E+02	4.71E+04	1.18E+03	2.92E+03
24	033	2.27E+01	2.92E+02	1.55E+04	1.48E+04	4.97E+03	2.13E+04	1.32E+03	5.32E+02	4.04E+04	1.01E+03	2.50E+03
24	035	5.78E+00	7.42E+01	2.29E+03	8.05E+00	4.43E+02	1.90E+03	1.18E+02	4.74E+01	3.60E+03	9.01E+01	2.23E+02
24	037	4.38E+00	5.63E+01	6.54E+03	1.94E+01	7.36E+02	3.15E+03	1.95E+02	7.88E+01	5.98E+03	1.50E+02	3.71E+02
24	039	3.39E+00	4.35E+01	1.76E+03	2.70E+01	2.50E+02	1.07E+03	6.64E+01	2.68E+01	2.03E+03	5.08E+01	1.26E+02
24	041	7.17E+00	9.21E+01	2.53E+03	8.91E+01	4.21E+02	1.80E+03	1.12E+02	4.51E+01	3.42E+03	8.56E+01	2.12E+02
24	043	4.92E+01	6.32E+02	9.64E+03	8.02E+02	1.05E+03	4.51E+03	2.79E+02	1.13E+02	8.57E+03	2.14E+02	5.31E+02
24	045	1.20E+00	1.53E+01	5.08E+03	4.40E+02	8.23E+02	3.52E+03	2.18E+02	8.80E+01	6.68E+03	1.67E+02	4.14E+02
24	047	1.79E+00	2.30E+01	2.18E+03	1.06E+02	5.45E+02	2.33E+03	1.44E+02	5.83E+01	4.43E+03	1.11E+02	2.74E+02
24	510	4.90E+01	6.29E+02	3.46E+04	1.64E+04	3.05E+03	6.13E+03	3.80E+02	1.53E+02	5.23E+03	1.31E+02	3.24E+02
25	001	8.35E+02	1.31E+03	2.59E+04	3.25E+03	3.66E+03	1.57E+04	9.70E+02	3.91E+02	2.97E+04	7.43E+02	1.84E+03
25	003	1.19E+02	1.87E+02	2.08E+04	1.95E+03	1.28E+03	5.47E+03	3.39E+02	1.37E+02	1.04E+04	2.60E+02	6.44E+02
25	005	6.11E+02	9.63E+02	5.33E+04	1.16E+04	3.49E+03	7.02E+03	4.35E+02	1.76E+02	5.99E+03	1.50E+02	3.71E+02
25	007	3.11E+01	4.89E+01	2.00E+03	4.97E-01	3.56E+02	1.52E+03	9.43E+01	3.80E+01	2.89E+03	7.22E+01	1.79E+02
25	009	3.86E+02	6.08E+02	8.47E+04	1.29E+04	4.84E+03	9.75E+03	6.04E+02	2.44E+02	8.32E+03	2.08E+02	5.15E+02
25	011	1.04E+02	1.64E+02	1.15E+04	3.40E+02	6.70E+02	1.35E+03	8.36E+01	3.37E+01	1.15E+03	2.88E+01	7.13E+01
25	013	3.89E+02	6.13E+02	5.09E+04	7.82E+03	3.39E+03	6.84E+03	4.23E+02	1.71E+02	5.83E+03	1.46E+02	3.61E+02
25	015	1.81E+02	2.85E+02	1.73E+04	1.25E+03	1.02E+03	4.36E+03	2.70E+02	1.09E+02	8.29E+03	2.07E+02	5.13E+02
25	017	5.41E+02	8.52E+02	1.70E+05	2.80E+04	8.58E+03	3.67E+04	2.27E+03	9.18E+02	6.97E+04	1.74E+03	4.32E+03
25	019	4.58E+01	7.21E+01	8.73E+02	4.10E+00	1.95E+02	8.35E+02	5.17E+01	2.09E+01	1.59E+03	3.96E+01	9.82E+01
25	021	4.42E+02	6.97E+02	8.56E+04	9.99E+03	4.63E+03	1.98E+04	1.23E+03	4.95E+02	3.76E+04	9.40E+02	2.33E+03
25	023	8.59E+02	1.35E+03	5.74E+04	6.12E+03	3.94E+03	1.69E+04	1.05E+03	4.22E+02	3.20E+04	8.01E+02	1.98E+03
25	025	2.21E+02	3.48E+02	7.62E+04	1.33E+04	1.31E+03	2.63E+03	1.63E+02	6.57E+01	2.24E+03	5.61E+01	1.39E+02
25	027	1.24E+03	1.95E+03	9.66E+04	9.54E+03	4.87E+03	2.08E+04	1.29E+03	5.21E+02	3.96E+04	9.90E+02	2.45E+03
26	001			3.80E+02	1.32E+02	5.59E+02	2.39E+03	1.48E+02	5.98E+01	4.54E+03	1.13E+02	2.81E+02
26	003			1.39E+02	1.86E+02	2.94E+02	1.26E+03	7.80E+01	3.15E+01	2.39E+03	5.98E+01	1.48E+02
26	005	8.90E+00	9.86E+01	3.30E+03	2.20E+03	8.81E+02	3.77E+03	2.34E+02	9.43E+01	7.16E+03	1.79E+02	4.44E+02
26	007	6.85E-01	7.59E+00	8.71E+02	9.21E+02	7.28E+02	3.11E+03	1.93E+02	7.79E+01	5.91E+03	1.48E+02	3.66E+02
26	009	6.85E-01	7.59E+00	5.00E+02	2.92E+02	6.68E+02	2.86E+03	1.77E+02	7.14E+01	5.42E+03	1.36E+02	3.36E+02
26	011	6.85E-01	7.59E+00	5.48E+02	2.48E+02	4.25E+02	1.82E+03	1.13E+02	4.55E+01	3.45E+03	8.63E+01	2.14E+02
26	013			2.63E+02	1.56E+02	2.34E+02	1.00E+03	6.21E+01	2.51E+01	1.90E+03	4.76E+01	1.18E+02
26	015	2.74E+00	3.03E+01	1.80E+03	1.01E+03	5.76E+02	2.46E+03	1.53E+02	6.16E+01	4.68E+03	1.17E+02	2.90E+02
26	017	1.61E+01	1.78E+02	1.40E+03	4.47E+03	2.15E+03	9.20E+03	5.70E+02	2.30E+02	1.75E+04	4.37E+02	1.08E+03
26	019			4.48E+02	1.87E+02	4.46E+02	1.91E+03	1.18E+02	4.78E+01	3.63E+03	9.07E+01	2.25E+02
26	021	1.30E+01	1.44E+02	3.94E+03	5.09E+03	1.72E+03	7.38E+03	4.57E+02	1.84E+02	1.40E+04	3.50E+02	8.68E+02
26	023	2.05E+00	2.28E+01	1.41E+03	9.82E+02	4.45E+02	1.91E+03	1.18E+02	4.76E+01	3.62E+03	9.05E+01	2.24E+02
26	025	8.90E+00	9.86E+01	2.80E+03	5.15E+03	1.45E+03	2.91E+03	1.80E+02	7.28E+01	2.48E+03	6.21E+01	1.54E+02
26	027	8.21E+00	9.10E+01	1.46E+03	1.11E+03	6.13E+02	2.62E+03	1.62E+02	6.56E+01	4.98E+03	1.24E+02	3.08E+02
26	029	3.08E+00	3.41E+01	4.64E+02	5.33E+02	6.41E+02	2.74E+03	1.70E+02	6.85E+01	5.21E+03	1.30E+02	3.23E+02
26	031	1.71E+00	1.90E+01	3.43E+02	4.47E+02	7.29E+02	3.12E+03	1.93E+02	7.80E+01	5.93E+03	1.48E+02	3.67E+02
26	033	2.40E+00	2.66E+01	1.06E+03	6.77E+02	7.99E+02	3.42E+03	2.12E+02	8.55E+01	6.49E+03	1.62E+02	4.02E+02
26	035			5.78E+02	3.90E+02	9.69E+02	4.15E+03	2.57E+02	1.04E+02	7.87E+03	1.97E+02	4.88E+02
26	037	4.79E+00	5.31E+01	1.95E+03	1.59E+03	5.52E+02	2.36E+03	1.46E+02	5.91E+01	4.49E+03	1.12E+02	2.78E+02
26	039			1.13E+02	2.04E+02	4.33E+02	1.85E+03	1.15E+02	4.63E+01	3.52E+03	8.79E+01	2.18E+02
26	041	6.85E-01	7.59E+00	8.35E+02	1.09E+03	8.72E+02	3.73E+03	2.31E+02	9.33E+01	7.08E+03	1.77E+02	4.39E+02
26	043			5.63E+02	9.62E+02	1.21E+03	2.43E+03	1.51E+02	6.08E+01	2.07E+03	5.19E+01	1.28E+02

To calculate allocation proportion of national emissions to county, divide number of county unit within an industry category by total (national) number of units within that category

A = Residential Heating: Anthracite Coal; SCC 2104001000

B = Residential Heating: Bituminous Lignite; SCC 2104002000

C = Residential Heating: Distillate Oil; SCC 2104004000

D = Residential Heating: Natural Gas; 2104006000

E = Fireplaces; SCC 2104008001

F = Fireplaces: Inserts; SCC 2104008002

G = Fireplaces: Inserts; non catalytic, EPA certified; SCC 2104008003

H = Fireplaces: Inserts; catalytic, EPA certified; SCC 2104008004

I = Conventional Woodstoves; SCC 2104008010

J = Catalytic Woodstoves; SCC 2104008030

K = Non-Catalytic Woodstoves; SCC 2104008050

Appendix E-3. Residential Heating County Allocations

State FIPS	County FIPS	A	B	C	D	E	F	G	H	I	J	K
		tons coal	tons coal	MMBTU	MMBTU	tons wood	tons wood	tons wood	tons wood	tons wood	tons wood	tons wood
26	045	2.40E+00	2.66E+01	2.18E+03	3.01E+03	1.58E+03	6.77E+03	4.20E+02	1.69E+02	1.29E+04	3.22E+02	7.97E+02
26	047	2.05E+00	2.28E+01	4.98E+02	6.12E+02	6.98E+02	2.99E+03	1.85E+02	7.47E+01	5.68E+03	1.42E+02	3.52E+02
26	049	2.74E+00	3.03E+01	3.59E+03	1.79E+04	4.12E+03	1.76E+04	1.09E+03	4.41E+02	3.35E+04	8.37E+02	2.07E+03
26	051	3.76E+00	4.17E+01	5.48E+02	3.17E+02	7.21E+02	3.09E+03	1.91E+02	7.72E+01	5.86E+03	1.47E+02	3.63E+02
26	053	4.11E+00	4.55E+01	1.09E+03	4.51E+02	1.08E+03	2.18E+03	1.35E+02	5.46E+01	1.86E+03	4.66E+01	1.15E+02
26	055	1.71E+00	1.90E+01	1.38E+03	2.03E+03	1.35E+03	5.79E+03	3.59E+02	1.45E+02	1.10E+04	2.75E+02	6.81E+02
26	057	3.42E+00	3.79E+01	8.69E+02	1.03E+03	7.22E+02	3.09E+03	1.92E+02	7.73E+01	5.87E+03	1.47E+02	3.64E+02
26	059	1.85E+01	2.05E+02	1.38E+03	8.48E+02	4.66E+02	1.99E+03	1.23E+02	4.98E+01	3.78E+03	9.46E+01	2.34E+02
26	061	2.40E+00	2.66E+01	1.43E+03	7.84E+02	7.96E+02	3.40E+03	2.11E+02	8.51E+01	6.46E+03	1.62E+02	4.01E+02
26	063	9.93E+00	1.10E+02	1.20E+03	9.52E+02	1.01E+03	4.30E+03	2.67E+02	1.08E+02	8.17E+03	2.04E+02	5.06E+02
26	065	1.46E+02	1.62E+03	2.83E+03	1.05E+04	2.29E+03	4.60E+03	2.85E+02	1.15E+02	3.93E+03	9.82E+01	2.43E+02
26	067	1.37E+00	1.52E+01	1.70E+03	1.27E+03	1.79E+03	3.61E+03	2.24E+02	9.03E+01	3.08E+03	7.70E+01	1.91E+02
26	069			4.48E+02	9.13E+02	1.01E+03	4.33E+03	2.68E+02	1.08E+02	8.22E+03	2.06E+02	5.09E+02
26	071			3.09E+02	4.14E+02	8.90E+02	1.79E+03	1.11E+02	4.48E+01	1.53E+03	3.82E+01	9.47E+01
26	073	1.03E+00	1.14E+01	7.46E+02	1.29E+03	7.94E+02	3.40E+03	2.11E+02	8.50E+01	6.45E+03	1.61E+02	4.00E+02
26	075	3.76E+00	4.17E+01	2.16E+03	5.29E+03	1.42E+03	6.08E+03	3.77E+02	1.52E+02	1.15E+04	2.89E+02	7.15E+02
26	077	2.40E+01	2.66E+02	3.69E+03	8.67E+03	2.01E+03	4.04E+03	2.50E+02	1.01E+02	3.45E+03	8.61E+01	2.13E+02
26	079			2.97E+02	1.35E+02	4.28E+02	1.83E+03	1.13E+02	4.58E+01	3.48E+03	8.69E+01	2.15E+02
26	081	9.58E+00	1.06E+02	4.01E+03	2.07E+04	4.38E+03	8.82E+03	5.47E+02	2.21E+02	7.53E+03	1.88E+02	4.66E+02
26	083			2.14E+02	4.00E-01	1.23E+02	5.27E+02	3.27E+01	1.32E+01	1.00E+03	2.50E+01	6.20E+01
26	085	1.71E+00	1.90E+01	3.32E+02	3.72E+01	5.26E+02	2.25E+03	1.39E+02	5.63E+01	4.27E+03	1.07E+02	2.65E+02
26	087	7.53E+00	8.35E+01	2.50E+03	1.45E+03	6.92E+02	2.96E+03	1.83E+02	7.40E+01	5.62E+03	1.40E+02	3.48E+02
26	089			8.24E+02	1.57E+02	5.83E+02	2.49E+03	1.54E+02	6.23E+01	4.73E+03	1.18E+02	2.93E+02
26	091	1.30E+01	1.44E+02	2.20E+03	2.69E+03	9.08E+02	3.89E+03	2.41E+02	9.71E+01	7.38E+03	1.84E+02	4.57E+02
26	093	8.56E+00	9.48E+01	2.45E+03	3.29E+03	2.22E+03	9.50E+03	5.88E+02	2.37E+02	1.80E+04	4.51E+02	1.12E+03
26	095			1.71E+02	1.12E+02	1.93E+02	8.27E+02	5.13E+01	2.07E+01	1.57E+03	3.93E+01	9.74E+01
26	097	1.71E+00	1.90E+01	4.00E+02	1.24E+02	4.41E+02	1.89E+03	1.17E+02	4.72E+01	3.58E+03	8.96E+01	2.22E+02
26	099	9.93E+00	1.10E+02	2.29E+03	3.24E+04	6.81E+03	1.37E+04	8.50E+02	3.43E+02	1.17E+04	2.92E+02	7.25E+02
26	101	2.05E+00	2.28E+01	7.97E+02	4.86E+02	3.40E+02	1.45E+03	9.01E+01	3.64E+01	2.76E+03	6.90E+01	1.71E+02
26	103	1.37E+00	1.52E+01	1.81E+03	2.04E+03	1.30E+03	5.58E+03	3.46E+02	1.39E+02	1.06E+04	2.65E+02	6.56E+02
26	105	2.74E+00	3.03E+01	6.22E+02	6.82E+02	6.81E+02	2.91E+03	1.81E+02	7.29E+01	5.53E+03	1.38E+02	3.43E+02
26	107	3.42E+00	3.79E+01	6.95E+02	6.92E+02	7.41E+02	3.17E+03	1.96E+02	7.93E+01	6.02E+03	1.51E+02	3.73E+02
26	109	6.85E-01	7.59E+00	6.46E+02	6.97E+02	6.03E+02	2.58E+03	1.60E+02	6.45E+01	4.90E+03	1.23E+02	3.04E+02
26	111			1.13E+03	2.50E+03	7.78E+02	1.57E+03	9.71E+01	3.92E+01	1.34E+03	3.34E+01	8.28E+01
26	113	1.03E+00	1.14E+01	3.90E+02	1.57E+02	3.47E+02	1.48E+03	9.19E+01	3.71E+01	2.82E+03	7.04E+01	1.75E+02
26	115	8.21E+00	9.10E+01	2.12E+03	4.39E+03	1.23E+03	5.24E+03	3.25E+02	1.31E+02	9.96E+03	2.49E+02	6.17E+02
26	117	2.40E+00	2.66E+01	1.24E+03	1.16E+03	1.10E+03	4.70E+03	2.91E+02	1.18E+02	8.93E+03	2.23E+02	5.53E+02
26	119			4.06E+02	2.13E+00	4.59E+02	1.96E+03	1.22E+02	4.91E+01	3.73E+03	9.32E+01	2.31E+02
26	121	6.85E-01	7.59E+00	1.48E+03	6.22E+03	1.68E+03	3.39E+03	2.10E+02	8.47E+01	2.89E+03	7.22E+01	1.79E+02
26	123	2.40E+00	2.66E+01	1.19E+03	5.22E+02	9.06E+02	3.88E+03	2.40E+02	9.69E+01	7.36E+03	1.84E+02	4.56E+02
26	125	5.13E+00	5.69E+01	6.21E+03	4.89E+04	1.05E+04	2.11E+04	1.31E+03	5.27E+02	1.80E+04	4.49E+02	1.11E+03
26	127			8.35E+02	3.29E+02	6.05E+02	2.59E+03	1.60E+02	6.47E+01	4.92E+03	1.23E+02	3.05E+02
26	129	1.71E+00	1.90E+01	6.04E+02	1.74E+02	7.48E+02	3.20E+03	1.98E+02	8.01E+01	6.08E+03	1.52E+02	3.77E+02
26	131	6.85E-01	7.59E+00	5.04E+02	1.24E+02	2.67E+02	1.14E+03	7.08E+01	2.86E+01	2.17E+03	5.42E+01	1.34E+02
26	133	1.37E+00	1.52E+01	6.22E+02	2.92E+02	5.08E+02	2.17E+03	1.35E+02	5.43E+01	4.13E+03	1.03E+02	2.56E+02
26	135			2.62E+02	4.14E+00	3.86E+02	1.65E+03	1.02E+02	4.13E+01	3.14E+03	7.84E+01	1.94E+02
26	137	2.05E+00	2.28E+01	4.26E+02	3.65E+02	5.49E+02	2.35E+03	1.46E+02	5.87E+01	4.46E+03	1.12E+02	2.76E+02
26	139	1.40E+01	1.56E+02	2.23E+03	6.63E+03	1.64E+03	7.02E+03	4.35E+02	1.76E+02	1.33E+04	3.33E+02	8.26E+02

To calculate allocation proportion of national emissions to county, divide number of county unit within an industry category by total (national) number of units within that category

A = Residential Heating: Anthracite Coal; SCC 2104001000

B = Residential Heating: Bituminous Lignite; SCC 2104002000

C = Residential Heating: Distillate Oil; SCC 2104004000

D = Residential Heating: Natural Gas; 2104006000

E = Fireplaces; SCC 2104008001

F = Fireplaces: Inserts; SCC 2104008002

G = Fireplaces: Inserts; non catalytic, EPA certified; SCC 2104008003

H = Fireplaces: Inserts; catalytic, EPA certified; SCC 2104008004

I = Conventional Woodstoves; SCC 2104008010

J = Catalytic Woodstoves; SCC 2104008030

K = Non-Catalytic Woodstoves; SCC 2104008050

Appendix E-3. Residential Heating County Allocations

State FIPS	County FIPS	A	B	C	D	E	F	G	H	I	J	K
		tons coal	tons coal	MMBTU	MMBTU	tons wood	tons wood	tons wood	tons wood	tons wood	tons wood	tons wood
26	141	6.85E-01	7.59E+00	4.70E+02	2.39E+02	4.82E+02	2.06E+03	1.28E+02	5.15E+01	3.91E+03	9.79E+01	2.43E+02
26	143			1.85E+02	5.68E+02	1.10E+03	4.69E+03	2.91E+02	1.17E+02	8.91E+03	2.23E+02	5.52E+02
26	145	1.54E+01	1.71E+02	2.81E+03	8.11E+03	2.01E+03	8.59E+03	5.32E+02	2.15E+02	1.63E+04	4.08E+02	1.01E+03
26	147	1.78E+01	1.97E+02	2.50E+03	4.98E+03	1.41E+03	6.01E+03	3.73E+02	1.50E+02	1.14E+04	2.86E+02	7.08E+02
26	149	1.23E+01	1.37E+02	1.26E+03	1.62E+03	6.12E+02	2.62E+03	1.62E+02	6.55E+01	4.97E+03	1.24E+02	3.08E+02
26	151	8.56E+00	9.48E+01	1.64E+03	7.33E+02	9.89E+02	4.23E+03	2.62E+02	1.06E+02	8.03E+03	2.01E+02	4.98E+02
26	153			2.52E+02	1.43E+02	2.85E+02	1.22E+03	7.56E+01	3.05E+01	2.32E+03	5.79E+01	1.44E+02
26	155	6.85E+00	7.59E+01	2.16E+03	2.02E+03	6.73E+02	2.88E+03	1.78E+02	7.19E+01	5.46E+03	1.37E+02	3.39E+02
26	157	2.05E+00	2.28E+01	1.92E+03	1.07E+03	1.07E+03	4.58E+03	2.84E+02	1.14E+02	8.70E+03	2.17E+02	5.39E+02
26	159	5.13E+00	5.69E+01	2.34E+03	1.48E+03	7.61E+02	3.26E+03	2.02E+02	8.14E+01	6.18E+03	1.55E+02	3.83E+02
26	161	1.27E+01	1.40E+02	3.40E+03	1.09E+04	1.91E+03	8.16E+03	5.05E+02	2.04E+02	1.55E+04	3.87E+02	9.60E+02
26	163	1.15E+02	1.27E+03	3.93E+03	9.66E+04	1.96E+04	3.95E+04	2.45E+03	9.88E+02	3.37E+04	8.43E+02	2.09E+03
26	165			5.33E+02	6.81E+02	5.87E+02	2.51E+03	1.56E+02	6.28E+01	4.77E+03	1.19E+02	2.96E+02
27	001			5.47E+02	1.26E+00	6.30E+02	2.70E+03	1.67E+02	6.74E+01	5.12E+03	1.28E+02	3.17E+02
27	003			1.64E+03	7.64E+03	7.59E+03	1.53E+04	9.47E+02	3.82E+02	1.30E+04	3.26E+02	8.08E+02
27	005			8.68E+02	2.50E+02	7.75E+02	3.32E+03	2.06E+02	8.29E+01	6.30E+03	1.57E+02	3.90E+02
27	007		1.22E+01	1.06E+03	2.42E+02	6.62E+02	2.83E+03	1.75E+02	7.08E+01	5.38E+03	1.34E+02	3.33E+02
27	009		1.22E+01	7.31E+02	5.78E+02	8.39E+02	1.69E+03	1.05E+02	4.22E+01	1.44E+03	3.60E+01	8.93E+01
27	011			4.40E+02	2.30E-01	3.16E+02	6.36E+02	3.94E+01	1.59E+01	5.42E+02	1.36E+01	3.36E+01
27	013		3.65E+01	7.84E+02	1.34E+03	1.58E+03	3.19E+03	1.98E+02	7.98E+01	2.72E+03	6.81E+01	1.69E+02
27	015		5.47E+01	5.30E+02	7.50E+02	1.06E+03	2.13E+03	1.32E+02	5.34E+01	1.82E+03	4.55E+01	1.13E+02
27	017		6.68E+01	1.50E+03	3.73E+02	1.20E+03	2.41E+03	1.49E+02	6.03E+01	2.06E+03	5.14E+01	1.27E+02
27	019			7.20E+02	1.26E+03	1.54E+03	3.09E+03	1.92E+02	7.74E+01	2.64E+03	6.60E+01	1.64E+02
27	021			7.43E+02	1.84E+00	9.89E+02	4.23E+03	2.62E+02	1.06E+02	8.04E+03	2.01E+02	4.98E+02
27	023			7.23E+02	2.01E+02	5.88E+02	1.18E+03	7.33E+01	2.96E+01	1.01E+03	2.52E+01	6.26E+01
27	025		3.04E+01	7.66E+02	5.14E+02	1.19E+03	2.40E+03	1.49E+02	5.99E+01	2.05E+03	5.11E+01	1.27E+02
27	027			1.93E+03	5.91E+02	1.45E+03	2.92E+03	1.81E+02	7.30E+01	2.49E+03	6.23E+01	1.54E+02
27	029		3.04E+01	4.06E+02	2.30E-01	2.03E+02	8.70E+02	5.39E+01	2.18E+01	1.65E+03	4.13E+01	1.02E+02
27	031			1.58E+02	2.30E-01	2.23E+02	9.56E+02	5.92E+01	2.39E+01	1.82E+03	4.54E+01	1.13E+02
27	033			4.50E+02	2.84E+02	5.89E+02	1.19E+03	7.34E+01	2.96E+01	1.01E+03	2.53E+01	6.26E+01
27	035		4.25E+01	1.18E+03	6.88E+02	2.93E+03	5.90E+03	3.66E+02	1.48E+02	5.04E+03	1.26E+02	3.12E+02
27	037		5.47E+01	1.18E+03	9.40E+03	7.68E+03	1.55E+04	9.59E+02	3.87E+02	1.32E+04	3.30E+02	8.18E+02
27	039		1.82E+01	2.64E+02	3.50E+02	5.81E+02	1.17E+03	7.25E+01	2.93E+01	9.98E+02	2.50E+01	6.18E+01
27	041		1.22E+01	7.73E+02	4.32E+02	6.84E+02	2.93E+03	1.81E+02	7.31E+01	5.56E+03	1.39E+02	3.44E+02
27	043		1.82E+01	6.72E+02	3.28E+02	7.97E+02	1.60E+03	9.94E+01	4.01E+01	1.37E+03	3.42E+01	8.48E+01
27	045		1.22E+01	4.73E+02	3.91E+02	8.66E+02	1.74E+03	1.08E+02	4.36E+01	1.49E+03	3.72E+01	9.22E+01
27	047		6.68E+01	6.92E+02	9.43E+02	1.34E+03	2.69E+03	1.67E+02	6.74E+01	2.30E+03	5.75E+01	1.42E+02
27	049		1.22E+01	9.45E+02	9.85E+02	1.44E+03	2.90E+03	1.80E+02	7.26E+01	2.48E+03	6.20E+01	1.54E+02
27	051		1.22E+01	4.86E+02	4.59E-01	3.24E+02	6.52E+02	4.04E+01	1.63E+01	5.56E+02	1.39E+01	3.44E+01
27	053		1.18E+03	3.66E+03	4.15E+04	3.05E+04	6.14E+04	3.81E+03	1.54E+03	5.24E+04	1.31E+03	3.25E+03
27	055		1.22E+01	5.56E+02	3.31E+02	7.20E+02	1.45E+03	8.98E+01	3.62E+01	1.24E+03	3.09E+01	7.66E+01
27	057		1.22E+01	6.45E+02	5.74E-01	5.27E+02	2.26E+03	1.40E+02	5.64E+01	4.29E+03	1.07E+02	2.66E+02
27	059			6.35E+02	2.75E+02	5.07E+02	2.17E+03	1.35E+02	5.43E+01	4.12E+03	1.03E+02	2.55E+02
27	061		3.04E+01	2.22E+03	3.05E+02	1.11E+03	4.74E+03	2.94E+02	1.19E+02	9.01E+03	2.25E+02	5.58E+02
27	063		1.22E+01	4.08E+02	2.23E+02	5.57E+02	1.12E+03	6.95E+01	2.80E+01	9.57E+02	2.39E+01	5.93E+01
27	065		2.43E+01	2.56E+02	1.37E+02	2.83E+02	1.21E+03	7.51E+01	3.03E+01	2.30E+03	5.75E+01	1.43E+02
27	067		1.88E+02	1.20E+03	6.49E+02	1.52E+03	3.06E+03	1.90E+02	7.66E+01	2.61E+03	6.53E+01	1.62E+02
27	069			3.78E+02	3.07E+01	2.99E+02	6.02E+02	3.73E+01	1.50E+01	5.13E+02	1.28E+01	3.18E+01

To calculate allocation proportion of national emissions to county, divide number of county unit within an industry category by total (national) number of units within that category

A = Residential Heating: Anthracite Coal; SCC 2104001000

B = Residential Heating: Bituminous Lignite; SCC 2104002000

C = Residential Heating: Distillate Oil; SCC 2104004000

D = Residential Heating: Natural Gas; 2104006000

E = Fireplaces; SCC 2104008001

F = Fireplaces: Inserts; SCC 2104008002

G = Fireplaces: Inserts; non catalytic, EPA certified; SCC 2104008003

H = Fireplaces: Inserts; catalytic, EPA certified; SCC 2104008004

I = Conventional Woodstoves; SCC 2104008010

J = Catalytic Woodstoves; SCC 2104008030

K = Non-Catalytic Woodstoves; SCC 2104008050

Appendix E-3. Residential Heating County Allocations

State FIPS	County FIPS	A	B	C	D	E	F	G	H	I	J	K
		tons coal	tons coal	MMBTU	MMBTU	tons wood	tons wood	tons wood	tons wood	tons wood	tons wood	tons wood
27	071			5.58E+02	3.04E+02	7.07E+02	1.42E+03	8.82E+01	3.56E+01	1.22E+03	3.04E+01	7.53E+01
27	073			3.46E+02	1.42E+02	4.28E+02	8.63E+02	5.35E+01	2.16E+01	7.36E+02	1.84E+01	4.56E+01
27	075			4.92E+02	2.00E+02	6.51E+02	1.31E+03	8.13E+01	3.28E+01	1.12E+03	2.80E+01	6.93E+01
27	077			7.47E+01	3.51E+01	1.27E+02	5.42E+02	3.36E+01	1.35E+01	1.03E+03	2.57E+01	6.37E+01
27	079			3.10E+02	5.23E+02	9.91E+02	2.00E+03	1.24E+02	4.99E+01	1.70E+03	4.26E+01	1.05E+02
27	081			4.21E+02	3.44E+00	3.32E+02	6.69E+02	4.15E+01	1.67E+01	5.71E+02	1.43E+01	3.54E+01
27	083		1.22E+01	7.86E+02	4.14E+02	8.67E+02	1.75E+03	1.08E+02	4.36E+01	1.49E+03	3.72E+01	9.22E+01
27	085		1.22E+01	1.09E+03	7.19E+02	1.13E+03	2.28E+03	1.41E+02	5.69E+01	1.94E+03	4.86E+01	1.20E+02
27	087		1.22E+01	2.87E+02	2.30E-01	1.13E+02	4.83E+02	2.99E+01	1.21E+01	9.16E+02	2.29E+01	5.68E+01
27	089			5.16E+02	8.40E+01	2.57E+02	1.10E+03	6.82E+01	2.75E+01	2.09E+03	5.23E+01	1.29E+02
27	091		1.82E+01	3.67E+02	6.51E+02	1.00E+03	2.02E+03	1.25E+02	5.04E+01	1.72E+03	4.30E+01	1.07E+02
27	093			7.21E+02	2.79E+02	4.68E+02	2.00E+03	1.24E+02	5.01E+01	3.81E+03	9.51E+01	2.36E+02
27	095		2.43E+01	6.05E+02	2.50E+02	4.26E+02	1.82E+03	1.13E+02	4.55E+01	3.46E+03	8.65E+01	2.14E+02
27	097			1.23E+03	3.26E+02	6.36E+02	2.72E+03	1.69E+02	6.80E+01	5.17E+03	1.29E+02	3.20E+02
27	099			3.67E+02	1.24E+03	1.56E+03	3.14E+03	1.94E+02	7.84E+01	2.68E+03	6.69E+01	1.66E+02
27	101			7.92E+02	2.99E+00	2.62E+02	1.12E+03	6.95E+01	2.80E+01	2.13E+03	5.33E+01	1.32E+02
27	103			4.45E+02	6.88E+02	8.57E+02	1.73E+03	1.07E+02	4.31E+01	1.47E+03	3.68E+01	9.12E+01
27	105		1.22E+01	5.89E+02	4.06E+02	8.34E+02	1.68E+03	1.04E+02	4.20E+01	1.43E+03	3.58E+01	8.88E+01
27	107		2.43E+01	4.93E+02	4.23E+01	3.94E+02	7.94E+02	4.92E+01	1.98E+01	6.77E+02	1.69E+01	4.19E+01
27	109		3.04E+01	6.83E+02	3.40E+03	3.35E+03	6.75E+03	4.18E+02	1.69E+02	5.76E+03	1.44E+02	3.57E+02
27	111		3.65E+01	2.21E+03	4.63E+02	1.49E+03	6.36E+03	3.94E+02	1.59E+02	1.21E+04	3.02E+02	7.48E+02
27	113			4.10E+02	2.28E+02	4.91E+02	9.89E+02	6.13E+01	2.47E+01	8.44E+02	2.11E+01	5.23E+01
27	115			5.07E+02	2.35E+02	5.60E+02	2.40E+03	1.49E+02	5.99E+01	4.55E+03	1.14E+02	2.82E+02
27	117			4.90E+02	2.00E+02	4.65E+02	9.36E+02	5.80E+01	2.34E+01	7.98E+02	2.00E+01	4.95E+01
27	119		1.03E+02	1.65E+03	3.40E+02	1.31E+03	2.63E+03	1.63E+02	6.57E+01	2.24E+03	5.61E+01	1.39E+02
27	121			4.27E+02	1.47E+02	2.97E+02	1.27E+03	7.87E+01	3.17E+01	2.41E+03	6.03E+01	1.49E+02
27	123		5.65E+02	2.69E+03	1.81E+04	1.35E+04	2.71E+04	1.68E+03	6.79E+02	2.32E+04	5.79E+02	1.43E+03
27	125			2.75E+02	2.30E-01	1.79E+02	3.60E+02	2.23E+01	8.99E+00	3.07E+02	7.67E+00	1.90E+01
27	127			8.41E+02	2.21E+02	7.44E+02	1.50E+03	9.28E+01	3.75E+01	1.28E+03	3.20E+01	7.92E+01
27	129		2.43E+01	8.49E+02	2.51E+02	7.87E+02	1.58E+03	9.81E+01	3.96E+01	1.35E+03	3.38E+01	8.37E+01
27	131		1.22E+01	4.43E+02	1.23E+03	1.54E+03	3.10E+03	1.92E+02	7.75E+01	2.64E+03	6.61E+01	1.64E+02
27	133		1.22E+01	2.86E+02	1.75E+02	4.03E+02	8.12E+02	5.03E+01	2.03E+01	6.93E+02	1.73E+01	4.29E+01
27	135			4.40E+02	1.11E+02	2.66E+02	1.14E+03	7.06E+01	2.85E+01	2.16E+03	5.41E+01	1.34E+02
27	137		2.03E+03	1.21E+04	2.97E+03	8.65E+03	1.74E+04	1.08E+03	4.36E+02	1.49E+04	3.72E+02	9.21E+02
27	139			5.64E+02	1.53E+03	1.94E+03	3.91E+03	2.43E+02	9.79E+01	3.34E+03	8.35E+01	2.07E+02
27	141		2.43E+01	7.47E+02	5.05E+02	1.50E+03	3.01E+03	1.87E+02	7.54E+01	2.57E+03	6.43E+01	1.59E+02
27	143			7.34E+02	2.03E+02	6.03E+02	1.21E+03	7.52E+01	3.03E+01	1.04E+03	2.59E+01	6.41E+01
27	145		5.47E+01	3.04E+03	1.99E+03	3.80E+03	7.64E+03	4.74E+02	1.91E+02	6.52E+03	1.63E+02	4.04E+02
27	147		1.22E+01	3.55E+02	9.59E+02	1.11E+03	2.24E+03	1.39E+02	5.61E+01	1.91E+03	4.78E+01	1.19E+02
27	149		6.08E+00	3.89E+02	2.06E+02	3.80E+02	7.64E+02	4.74E+01	1.91E+01	6.52E+02	1.63E+01	4.04E+01
27	151		1.22E+01	5.20E+02	1.83E+02	4.98E+02	1.00E+03	6.21E+01	2.51E+01	8.56E+02	2.14E+01	5.30E+01
27	153		2.43E+01	9.83E+02	2.41E+02	5.74E+02	2.45E+03	1.52E+02	6.14E+01	4.66E+03	1.17E+02	2.89E+02
27	155			4.11E+02		2.39E+02	4.81E+02	2.98E+01	1.20E+01	4.10E+02	1.03E+01	2.54E+01
27	157		3.04E+01	5.25E+02	3.50E+02	7.69E+02	1.55E+03	9.59E+01	3.87E+01	1.32E+03	3.30E+01	8.18E+01
27	159			5.98E+02	1.26E+02	5.62E+02	1.13E+03	7.01E+01	2.83E+01	9.66E+02	2.41E+01	5.98E+01
27	161			2.66E+02	4.77E+02	6.84E+02	1.38E+03	8.54E+01	3.45E+01	1.18E+03	2.94E+01	7.28E+01
27	163		2.43E+01	1.87E+03	4.19E+03	4.84E+03	9.75E+03	6.04E+02	2.44E+02	8.32E+03	2.08E+02	5.15E+02
27	165		1.82E+01	2.91E+02	2.69E+02	4.99E+02	1.00E+03	6.23E+01	2.51E+01	8.57E+02	2.14E+01	5.31E+01

To calculate allocation proportion of national emissions to county, divide number of county unit within an industry category by total (national) number of units within that category

A = Residential Heating: Anthracite Coal; SCC 2104001000

B = Residential Heating: Bituminous Lignite; SCC 2104002000

C = Residential Heating: Distillate Oil; SCC 2104004000

D = Residential Heating: Natural Gas; 2104006000

E = Fireplaces; SCC 2104008001

F = Fireplaces: Inserts; SCC 2104008002

G = Fireplaces: Inserts; non catalytic, EPA certified; SCC 2104008003

H = Fireplaces: Inserts; catalytic, EPA certified; SCC 2104008004

I = Conventional Woodstoves; SCC 2104008010

J = Catalytic Woodstoves; SCC 2104008030

K = Non-Catalytic Woodstoves; SCC 2104008050

Appendix E-3. Residential Heating County Allocations

State FIPS	County FIPS	A	B	C	D	E	F	G	H	I	J	K
		tons coal	tons coal	MMBTU	MMBTU	tons wood	tons wood	tons wood	tons wood	tons wood	tons wood	tons wood
27	167		7.29E+01	4.33E+02	7.10E+01	3.02E+02	6.07E+02	3.76E+01	1.52E+01	5.18E+02	1.30E+01	3.21E+01
27	169		1.22E+01	1.25E+03	1.06E+03	1.51E+03	3.04E+03	1.88E+02	7.59E+01	2.59E+03	6.48E+01	1.61E+02
27	171		7.29E+01	1.36E+03	1.09E+03	2.49E+03	5.01E+03	3.11E+02	1.25E+02	4.28E+03	1.07E+02	2.65E+02
27	173			6.29E+02	1.55E+02	5.34E+02	1.08E+03	6.67E+01	2.69E+01	9.18E+02	2.30E+01	5.69E+01
28	001			6.97E-01	5.58E+02	2.14E+02	4.30E+02	2.67E+01	1.08E+01	3.67E+02	9.18E+00	2.27E+01
28	003			2.46E+00	2.25E+02	4.02E+02	1.72E+03	1.07E+02	4.30E+01	3.27E+03	8.17E+01	2.02E+02
28	005			6.39E-01	4.84E+01	9.08E+01	3.88E+02	2.41E+01	9.71E+00	7.38E+02	1.84E+01	4.57E+01
28	007			3.48E-01	1.96E+02	1.24E+02	5.29E+02	3.28E+01	1.32E+01	1.00E+03	2.51E+01	6.23E+01
28	009			9.48E-01	3.33E+01	1.03E+02	4.43E+02	2.74E+01	1.11E+01	8.41E+02	2.10E+01	5.21E+01
28	011			3.10E-01	5.32E+02	2.11E+02	4.25E+02	2.63E+01	1.06E+01	3.63E+02	9.07E+00	2.25E+01
28	013			8.32E-01	1.04E+02	1.95E+02	8.34E+02	5.17E+01	2.09E+01	1.58E+03	3.96E+01	9.81E+01
28	015				3.32E+01	6.00E+01	2.57E+02	1.59E+01	6.42E+00	4.87E+02	1.22E+01	3.02E+01
28	017			1.35E+00	1.44E+02	1.96E+02	8.37E+02	5.18E+01	2.09E+01	1.59E+03	3.97E+01	9.84E+01
28	019			3.48E-01	4.74E+01	1.10E+02	4.71E+02	2.92E+01	1.18E+01	8.95E+02	2.24E+01	5.54E+01
28	021			1.35E-01	7.38E+01	5.96E+01	2.55E+02	1.58E+01	6.38E+00	4.85E+02	1.21E+01	3.00E+01
28	023			5.42E-01	1.03E+02	1.12E+02	4.77E+02	2.96E+01	1.19E+01	9.06E+02	2.27E+01	5.61E+01
28	025			7.74E-01	1.84E+02	2.19E+02	9.39E+02	5.82E+01	2.35E+01	1.78E+03	4.46E+01	1.10E+02
28	027			5.42E-01	4.62E+02	1.65E+02	3.33E+02	2.06E+01	8.33E+00	2.84E+02	7.10E+00	1.76E+01
28	029			7.16E-01	2.35E+02	1.58E+02	6.76E+02	4.19E+01	1.69E+01	1.28E+03	3.21E+01	7.95E+01
28	031			1.28E+00	8.84E+01	1.04E+02	4.46E+02	2.76E+01	1.11E+01	8.46E+02	2.12E+01	5.24E+01
28	033			1.28E+00	7.86E+02	3.90E+02	7.86E+02	4.87E+01	1.97E+01	6.71E+02	1.68E+01	4.16E+01
28	035			3.48E+00	8.59E+02	3.51E+02	7.08E+02	4.38E+01	1.77E+01	6.04E+02	1.51E+01	3.74E+01
28	037				4.81E+01	5.84E+01	2.50E+02	1.55E+01	6.25E+00	4.75E+02	1.19E+01	2.94E+01
28	039			6.97E-01	5.36E+01	1.05E+02	4.49E+02	2.78E+01	1.12E+01	8.53E+02	2.13E+01	5.28E+01
28	041			3.68E-01	2.01E+01	5.78E+01	2.47E+02	1.53E+01	6.19E+00	4.70E+02	1.17E+01	2.91E+01
28	043			7.74E-01	2.72E+02	2.32E+02	4.67E+02	2.89E+01	1.17E+01	3.98E+02	9.95E+00	2.47E+01
28	045			1.95E+00	1.59E+02	2.59E+02	1.11E+03	6.86E+01	2.77E+01	2.10E+03	5.26E+01	1.30E+02
28	047			1.47E+00	2.07E+03	8.49E+02	1.71E+03	1.06E+02	4.27E+01	1.46E+03	3.64E+01	9.03E+01
28	049			1.32E+00	3.80E+03	1.31E+03	2.63E+03	1.63E+02	6.58E+01	2.25E+03	5.62E+01	1.39E+02
28	051			3.87E-02	2.43E+02	2.09E+02	4.21E+02	2.61E+01	1.05E+01	3.59E+02	8.98E+00	2.23E+01
28	053				1.30E+02	6.87E+01	2.94E+02	1.82E+01	7.35E+00	5.58E+02	1.39E+01	3.46E+01
28	055			1.16E-01	2.62E+00	1.07E+01	4.56E+01	2.83E+00	1.14E+00	8.67E+01	2.17E+00	5.37E+00
28	057			6.00E-01	9.82E+01	2.55E+02	1.09E+03	6.75E+01	2.72E+01	2.07E+03	5.17E+01	1.28E+02
28	059			1.63E+00	1.02E+03	6.63E+02	1.34E+03	8.27E+01	3.34E+01	1.14E+03	2.85E+01	7.06E+01
28	061			7.55E-01	6.45E+01	1.04E+02	4.46E+02	2.76E+01	1.12E+01	8.47E+02	2.12E+01	5.25E+01
28	063				5.90E+01	4.49E+01	1.92E+02	1.19E+01	4.80E+00	3.65E+02	9.12E+00	2.26E+01
28	065			9.87E-01	4.79E+01	8.90E+01	3.81E+02	2.36E+01	9.52E+00	7.23E+02	1.81E+01	4.48E+01
28	067			1.94E+00	7.32E+02	3.85E+02	1.65E+03	1.02E+02	4.12E+01	3.13E+03	7.82E+01	1.94E+02
28	069			1.55E-01	2.26E+01	6.51E+01	2.79E+02	1.73E+01	6.96E+00	5.29E+02	1.32E+01	3.28E+01
28	071			1.53E+00	1.76E+02	2.79E+02	1.19E+03	7.39E+01	2.98E+01	2.27E+03	5.67E+01	1.40E+02
28	073			1.55E+00	2.08E+02	1.72E+02	7.35E+02	4.55E+01	1.84E+01	1.40E+03	3.49E+01	8.65E+01
28	075			1.28E+00	8.85E+02	3.91E+02	7.88E+02	4.88E+01	1.97E+01	6.72E+02	1.68E+01	4.16E+01
28	077			1.35E-01	4.05E+01	8.50E+01	3.64E+02	2.25E+01	9.10E+00	6.91E+02	1.73E+01	4.28E+01
28	079			5.81E-01	7.95E+01	1.25E+02	5.34E+02	3.31E+01	1.34E+01	1.01E+03	2.54E+01	6.29E+01
28	081			3.37E+00	6.69E+02	6.51E+02	1.31E+03	8.12E+01	3.28E+01	1.12E+03	2.79E+01	6.92E+01
28	083			3.68E-01	6.30E+02	1.95E+02	3.93E+02	2.43E+01	9.82E+00	3.35E+02	8.37E+00	2.08E+01
28	085			1.16E+00	2.24E+02	1.76E+02	7.54E+02	4.67E+01	1.88E+01	1.43E+03	3.58E+01	8.87E+01
28	087			2.94E+00	4.71E+02	3.20E+02	1.37E+03	8.48E+01	3.42E+01	2.60E+03	6.50E+01	1.61E+02

To calculate allocation proportion of national emissions to county, divide number of county unit within an industry category by total (national) number of units within that category

A = Residential Heating: Anthracite Coal; SCC 2104001000

B = Residential Heating: Bituminous Lignite; SCC 2104002000

C = Residential Heating: Distillate Oil; SCC 2104004000

D = Residential Heating: Natural Gas; 2104006000

E = Fireplaces; SCC 2104008001

F = Fireplaces: Inserts; SCC 2104008002

G = Fireplaces: Inserts; non catalytic, EPA certified; SCC 2104008003

H = Fireplaces: Inserts; catalytic, EPA certified; SCC 2104008004

I = Conventional Woodstoves; SCC 2104008010

J = Catalytic Woodstoves; SCC 2104008030

K = Non-Catalytic Woodstoves; SCC 2104008050

Appendix E-3. Residential Heating County Allocations

State FIPS	County FIPS	A	B	C	D	E	F	G	H	I	J	K
		tons coal	tons coal	MMBTU	MMBTU	tons wood	tons wood	tons wood	tons wood	tons wood	tons wood	tons wood
28	089			9.10E-01	5.87E+02	2.60E+02	5.24E+02	3.25E+01	1.31E+01	4.47E+02	1.12E+01	2.77E+01
28	091			4.06E-01	1.90E+02	1.63E+02	6.96E+02	4.31E+01	1.74E+01	1.32E+03	3.30E+01	8.19E+01
28	093			1.32E+00	1.27E+02	2.79E+02	1.19E+03	7.40E+01	2.99E+01	2.27E+03	5.67E+01	1.41E+02
28	095			8.71E-01	3.00E+02	2.27E+02	9.71E+02	6.01E+01	2.43E+01	1.84E+03	4.61E+01	1.14E+02
28	097				1.28E+02	1.44E+02	2.90E+02	1.80E+01	7.25E+00	2.48E+02	6.19E+00	1.53E+01
28	099			4.26E-01	1.28E+02	1.58E+02	6.77E+02	4.19E+01	1.69E+01	1.29E+03	3.21E+01	7.96E+01
28	101			5.81E-01	1.36E+02	1.26E+02	5.41E+02	3.35E+01	1.35E+01	1.03E+03	2.57E+01	6.36E+01
28	103			1.45E+00	7.63E+01	6.97E+01	2.98E+02	1.85E+01	7.46E+00	5.66E+02	1.42E+01	3.51E+01
28	105			1.51E+00	3.02E+02	1.57E+02	3.17E+02	1.96E+01	7.92E+00	2.70E+02	6.76E+00	1.68E+01
28	107			6.58E-01	1.88E+02	2.99E+02	1.28E+03	7.92E+01	3.19E+01	2.43E+03	6.07E+01	1.50E+02
28	109			3.19E+00	2.28E+02	2.37E+02	1.02E+03	6.29E+01	2.54E+01	1.93E+03	4.82E+01	1.19E+02
28	111			3.68E-01	4.02E+01	6.00E+01	2.57E+02	1.59E+01	6.42E+00	4.87E+02	1.22E+01	3.02E+01
28	113			1.74E+00	3.82E+02	2.26E+02	9.66E+02	5.98E+01	2.41E+01	1.83E+03	4.58E+01	1.14E+02
28	115			2.67E+00	1.32E+02	2.64E+02	1.13E+03	6.99E+01	2.82E+01	2.14E+03	5.36E+01	1.33E+02
28	117			1.43E+00	1.89E+02	2.72E+02	1.16E+03	7.20E+01	2.91E+01	2.21E+03	5.52E+01	1.37E+02
28	119				1.06E+02	1.28E+02	5.48E+02	3.40E+01	1.37E+01	1.04E+03	2.60E+01	6.45E+01
28	121			2.36E+00	8.11E+02	4.51E+02	1.93E+03	1.20E+02	4.82E+01	3.66E+03	9.16E+01	2.27E+02
28	123			6.39E-01	1.91E+02	1.42E+02	6.08E+02	3.76E+01	1.52E+01	1.15E+03	2.88E+01	7.15E+01
28	125				6.58E+01	3.56E+01	7.17E+01	4.44E+00	1.79E+00	6.12E+01	1.53E+00	3.79E+00
28	127			1.68E+00	1.41E+02	1.40E+02	5.98E+02	3.71E+01	1.50E+01	1.14E+03	2.84E+01	7.04E+01
28	129			1.80E+00	4.98E+01	9.01E+01	3.86E+02	2.39E+01	9.64E+00	7.32E+02	1.83E+01	4.54E+01
28	131			1.95E+00	7.85E+01	6.52E+01	2.79E+02	1.73E+01	6.97E+00	5.30E+02	1.32E+01	3.28E+01
28	133			4.84E-01	4.26E+02	1.60E+02	3.21E+02	1.99E+01	8.04E+00	2.74E+02	6.86E+00	1.70E+01
28	135			3.29E-01	8.58E+01	1.58E+02	6.76E+02	4.19E+01	1.69E+01	1.28E+03	3.21E+01	7.96E+01
28	137			5.03E-01	9.78E+01	2.12E+02	9.08E+02	5.62E+01	2.27E+01	1.72E+03	4.31E+01	1.07E+02
28	139			3.10E+00	1.78E+02	2.38E+02	1.02E+03	6.31E+01	2.55E+01	1.93E+03	4.83E+01	1.20E+02
28	141			2.13E+00	9.84E+01	2.59E+02	1.11E+03	6.87E+01	2.77E+01	2.10E+03	5.26E+01	1.30E+02
28	143			2.52E-01	7.65E+01	4.11E+01	1.76E+02	1.09E+01	4.40E+00	3.34E+02	8.35E+00	2.07E+01
28	145			3.62E+00	2.00E+02	2.78E+02	1.19E+03	7.38E+01	2.98E+01	2.26E+03	5.65E+01	1.40E+02
28	147			1.39E+00	4.85E+01	8.97E+01	3.84E+02	2.38E+01	9.59E+00	7.29E+02	1.82E+01	4.51E+01
28	149			9.48E-01	4.56E+02	2.63E+02	5.29E+02	3.28E+01	1.32E+01	4.52E+02	1.13E+01	2.80E+01
28	151			5.81E-01	1.06E+03	3.55E+02	7.14E+02	4.42E+01	1.78E+01	6.09E+02	1.52E+01	3.77E+01
28	153			4.84E-01	1.11E+02	1.10E+02	4.71E+02	2.92E+01	1.18E+01	8.95E+02	2.24E+01	5.54E+01
28	155			4.65E-01	7.32E+01	1.34E+02	5.71E+02	3.54E+01	1.43E+01	1.08E+03	2.71E+01	6.72E+01
28	157			1.35E-01	6.82E+01	6.46E+01	2.76E+02	1.71E+01	6.91E+00	5.25E+02	1.31E+01	3.25E+01
28	159			6.00E-01	1.49E+02	2.42E+02	1.04E+03	6.41E+01	2.59E+01	1.97E+03	4.91E+01	1.22E+02
28	161			4.65E-01	7.44E+01	1.48E+02	6.32E+02	3.92E+01	1.58E+01	1.20E+03	3.00E+01	7.44E+01
28	163			1.55E-01	2.74E+02	1.34E+02	2.70E+02	1.67E+01	6.74E+00	2.30E+02	5.75E+00	1.43E+01
29	001			9.51E+01	3.65E+02	2.30E+02	4.64E+02	2.87E+01	1.16E+01	3.96E+02	9.89E+00	2.45E+01
29	003			1.03E+02	2.03E+02	1.54E+02	6.61E+02	4.09E+01	1.65E+01	1.25E+03	3.14E+01	7.77E+01
29	005			1.18E+02	1.12E+02	9.98E+01	2.01E+02	1.24E+01	5.02E+00	1.71E+02	4.29E+00	1.06E+01
29	007			3.33E+01	5.21E+02	7.11E+02	1.43E+03	8.87E+01	3.58E+01	1.22E+03	3.05E+01	7.57E+01
29	009			1.51E+01	2.94E+02	3.68E+02	1.58E+03	9.76E+01	3.94E+01	2.99E+03	7.48E+01	1.85E+02
29	011			5.31E+01	2.13E+02	3.56E+02	7.18E+02	4.45E+01	1.79E+01	6.12E+02	1.53E+01	3.79E+01
29	013	1.28E+01	5.56E+02	2.34E+01	2.40E+02	4.90E+02	9.88E+02	6.12E+01	2.47E+01	8.43E+02	2.11E+01	5.22E+01
29	015			4.80E+01	5.96E+00	2.86E+02	1.22E+03	7.58E+01	3.06E+01	2.32E+03	5.81E+01	1.44E+02
29	017			1.98E+00	5.69E+01	1.39E+02	5.96E+02	3.69E+01	1.49E+01	1.13E+03	2.83E+01	7.01E+01
29	019	3.84E+01	1.67E+03	5.31E+01	2.28E+03	2.08E+03	4.18E+03	2.59E+02	1.05E+02	3.57E+03	8.93E+01	2.21E+02

To calculate allocation proportion of national emissions to county, divide number of county unit within an industry category by total (national) number of units within that category

A = Residential Heating: Anthracite Coal; SCC 2104001000

B = Residential Heating: Bituminous Lignite; SCC 2104002000

C = Residential Heating: Distillate Oil; SCC 2104004000

D = Residential Heating: Natural Gas; 2104006000

E = Fireplaces; SCC 2104008001

F = Fireplaces: Inserts; SCC 2104008002

G = Fireplaces: Inserts; non catalytic, EPA certified; SCC 2104008003

H = Fireplaces: Inserts; catalytic, EPA certified; SCC 2104008004

I = Conventional Woodstoves; SCC 2104008010

J = Catalytic Woodstoves; SCC 2104008030

K = Non-Catalytic Woodstoves; SCC 2104008050

Appendix E-3. Residential Heating County Allocations

State FIPS	County FIPS	A	B	C	D	E	F	G	H	I	J	K
		tons coal	tons coal	MMBTU	MMBTU	tons wood	tons wood	tons wood	tons wood	tons wood	tons wood	tons wood
29	021			1.14E+02	2.45E+03	2.24E+03	4.51E+03	2.79E+02	1.13E+02	3.84E+03	9.61E+01	2.38E+02
29	023			1.86E+01	5.90E+02	4.79E+02	2.05E+03	1.27E+02	5.13E+01	3.90E+03	9.74E+01	2.41E+02
29	025			6.03E+01	1.61E+00	9.82E+01	4.20E+02	2.60E+01	1.05E+01	7.98E+02	1.99E+01	4.94E+01
29	027			3.01E+01	3.70E+02	3.34E+02	1.43E+03	8.85E+01	3.57E+01	2.71E+03	6.78E+01	1.68E+02
29	029			2.06E+01	1.64E+01	6.49E+02	2.78E+03	1.72E+02	6.94E+01	5.27E+03	1.32E+02	3.27E+02
29	031	4.48E+01	1.94E+03	3.61E+01	1.18E+03	1.53E+03	3.08E+03	1.91E+02	7.70E+01	2.63E+03	6.57E+01	1.63E+02
29	033	1.92E+01	8.33E+02	3.41E+01	1.91E+02	3.60E+02	7.25E+02	4.49E+01	1.81E+01	6.18E+02	1.55E+01	3.83E+01
29	035			5.95E+00	2.93E+00	7.61E+01	3.26E+02	2.02E+01	8.14E+00	6.19E+02	1.55E+01	3.83E+01
29	037	3.84E+01	1.67E+03	2.10E+01	1.30E+03	1.52E+03	3.07E+03	1.90E+02	7.67E+01	2.62E+03	6.55E+01	1.62E+02
29	039			1.98E+00	2.07E+02	1.74E+02	7.46E+02	4.62E+01	1.87E+01	1.42E+03	3.54E+01	8.78E+01
29	041			7.29E+01	9.85E+01	1.39E+02	5.97E+02	3.70E+01	1.49E+01	1.13E+03	2.83E+01	7.02E+01
29	043			1.66E+01	3.59E+02	8.59E+02	1.73E+03	1.07E+02	4.32E+01	1.48E+03	3.69E+01	9.14E+01
29	045			5.83E+01	9.86E+01	8.54E+01	3.65E+02	2.26E+01	9.14E+00	6.94E+02	1.73E+01	4.30E+01
29	047			6.42E+01	4.68E+03	3.79E+03	7.63E+03	4.73E+02	1.91E+02	6.51E+03	1.63E+02	4.03E+02
29	049	6.41E+00	2.78E+02	3.05E+01	3.08E+02	1.88E+02	3.79E+02	2.35E+01	9.47E+00	3.23E+02	8.08E+00	2.00E+01
29	051			3.45E+01	1.04E+03	1.46E+03	2.94E+03	1.82E+02	7.34E+01	2.50E+03	6.26E+01	1.55E+02
29	053			1.55E+01	2.32E+02	4.21E+02	8.48E+02	5.26E+01	2.12E+01	7.24E+02	1.81E+01	4.48E+01
29	055			1.26E+02	1.46E+01	2.61E+02	1.12E+03	6.93E+01	2.80E+01	2.12E+03	5.31E+01	1.32E+02
29	057			9.12E+00	7.60E+01	1.09E+02	4.65E+02	2.88E+01	1.16E+01	8.83E+02	2.21E+01	5.47E+01
29	059			9.12E+00	8.60E+00	1.58E+02	6.77E+02	4.20E+01	1.69E+01	1.29E+03	3.22E+01	7.97E+01
29	061			6.30E+01	1.61E+00	1.10E+02	4.72E+02	2.92E+01	1.18E+01	8.95E+02	2.24E+01	5.55E+01
29	063	2.56E+01	1.11E+03	4.48E+01	4.99E+01	8.92E+01	1.80E+02	1.11E+01	4.49E+00	1.53E+02	3.83E+00	9.50E+00
29	065			2.18E+02	4.06E+00	1.79E+02	7.65E+02	4.74E+01	1.91E+01	1.45E+03	3.63E+01	9.01E+01
29	067			1.63E+01	5.67E+00	1.52E+02	6.50E+02	4.02E+01	1.62E+01	1.23E+03	3.08E+01	7.64E+01
29	069			3.57E+00	7.30E+02	9.94E+02	2.00E+03	1.24E+02	5.00E+01	1.71E+03	4.27E+01	1.06E+02
29	071			1.50E+03	6.91E+01	8.79E+02	3.76E+03	2.33E+02	9.41E+01	7.14E+03	1.79E+02	4.43E+02
29	073	2.56E+01	1.11E+03	2.47E+02	3.97E+01	1.75E+02	7.49E+02	4.64E+01	1.87E+01	1.42E+03	3.56E+01	8.82E+01
29	075			5.91E+01	9.47E+01	9.47E+01	1.91E+02	1.18E+01	4.77E+00	1.63E+02	4.07E+00	1.01E+01
29	077			7.29E+01	5.59E+03	5.59E+03	1.12E+04	6.97E+02	2.81E+02	9.60E+03	2.40E+02	5.95E+02
29	079	1.28E+01	5.56E+02	6.14E+01	1.87E+02	1.49E+02	3.01E+02	1.86E+01	7.53E+00	2.57E+02	6.42E+00	1.59E+01
29	081			2.62E+01	4.02E+02	1.25E+02	2.53E+02	1.56E+01	6.31E+00	2.15E+02	5.39E+00	1.34E+01
29	083			9.91E+00	5.29E+00	6.27E+02	1.26E+03	7.83E+01	3.16E+01	1.08E+03	2.69E+01	6.68E+01
29	085			6.03E+01	7.98E+01	1.22E+02	5.23E+02	3.24E+01	1.31E+01	9.92E+02	2.48E+01	6.15E+01
29	087	3.84E+01	1.67E+03	1.23E+01	1.82E+02	9.10E+01	1.83E+02	1.14E+01	4.58E+00	1.56E+02	3.91E+00	9.68E+00
29	089			1.53E+02	1.67E+01	2.68E+02	5.40E+02	3.35E+01	1.35E+01	4.61E+02	1.15E+01	2.85E+01
29	091			2.97E+01	9.90E+01	3.84E+02	1.64E+03	1.02E+02	4.11E+01	3.12E+03	7.80E+01	1.93E+02
29	093	1.02E+02	4.44E+03	2.17E+02	2.09E+04	1.39E+02	5.96E+02	3.69E+01	1.49E+01	1.13E+03	2.83E+01	7.01E+01
29	095			2.30E+01	2.42E+03	1.59E+04	3.20E+04	1.98E+03	8.00E+02	2.73E+04	6.83E+02	1.69E+03
29	097	1.92E+02	8.33E+03	8.90E+02	1.68E+03	2.71E+03	5.45E+03	3.38E+02	1.36E+02	4.65E+03	1.16E+02	2.88E+02
29	099			2.74E+01	8.09E+02	1.67E+03	7.14E+03	4.42E+02	1.78E+02	1.36E+04	3.39E+02	8.40E+02
29	101	1.28E+01	5.56E+02	5.55E+01	4.42E+01	8.34E+02	1.68E+03	1.04E+02	4.20E+01	1.43E+03	3.58E+01	8.87E+01
29	103			1.83E+02	1.41E+01	6.28E+01	2.69E+02	1.66E+01	6.71E+00	5.10E+02	1.27E+01	3.16E+01
29	105			7.85E+01	6.19E+02	3.06E+02	1.31E+03	8.10E+01	3.27E+01	2.48E+03	6.21E+01	1.54E+02
29	107	7.05E+01	3.06E+03	2.54E+01	5.38E+02	8.44E+02	1.70E+03	1.05E+02	4.25E+01	1.45E+03	3.62E+01	8.98E+01
29	109			3.65E+01	1.45E+02	9.00E+02	1.81E+03	1.12E+02	4.53E+01	1.55E+03	3.87E+01	9.58E+01
29	111	6.41E+00	2.78E+02	1.17E+02	1.66E+02	1.14E+02	2.29E+02	1.42E+01	5.73E+00	1.95E+02	4.89E+00	1.21E+01
29	113			3.69E+01	2.67E+02	3.21E+02	1.37E+03	8.51E+01	3.44E+01	2.61E+03	6.52E+01	1.62E+02
29	115			1.06E+02	2.59E+02	4.72E+02	9.50E+02	5.89E+01	2.37E+01	8.10E+02	2.03E+01	5.02E+01

To calculate allocation proportion of national emissions to county, divide number of county unit within an industry category by total (national) number of units within that category

A = Residential Heating: Anthracite Coal; SCC 2104001000

B = Residential Heating: Bituminous Lignite; SCC 2104002000

C = Residential Heating: Distillate Oil; SCC 2104004000

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E = Fireplaces; SCC 2104008001

F = Fireplaces: Inserts; SCC 2104008002

G = Fireplaces: Inserts; non catalytic, EPA certified; SCC 2104008003

H = Fireplaces: Inserts; catalytic, EPA certified; SCC 2104008004

I = Conventional Woodstoves; SCC 2104008010

J = Catalytic Woodstoves; SCC 2104008030

K = Non-Catalytic Woodstoves; SCC 2104008050

Appendix E-3. Residential Heating County Allocations

State FIPS	County FIPS	A	B	C	D	E	F	G	H	I	J	K
		tons coal	tons coal	MMBTU	MMBTU	tons wood	tons wood	tons wood	tons wood	tons wood	tons wood	tons wood
29	117			1.03E+01	1.58E+02	4.31E+02	8.68E+02	5.38E+01	2.17E+01	7.41E+02	1.85E+01	4.59E+01
29	119	5.77E+01	2.50E+03	9.00E+01	1.91E+02	2.06E+02	8.83E+02	5.47E+01	2.21E+01	1.68E+03	4.19E+01	1.04E+02
29	121			1.59E+00	1.19E+02	4.96E+02	9.99E+02	6.19E+01	2.50E+01	8.52E+02	2.13E+01	5.28E+01
29	123			3.92E+01	4.06E+00	1.48E+02	6.31E+02	3.91E+01	1.58E+01	1.20E+03	3.00E+01	7.43E+01
29	125	7.05E+01	3.06E+03	2.54E+01	6.98E+02	1.07E+02	4.59E+02	2.84E+01	1.15E+01	8.72E+02	2.18E+01	5.40E+01
29	127			2.74E+01	4.35E+01	3.09E+02	6.22E+02	3.85E+01	1.55E+01	5.30E+02	1.33E+01	3.29E+01
29	129			4.52E+01	1.17E+02	5.85E+01	2.50E+02	1.55E+01	6.26E+00	4.75E+02	1.19E+01	2.94E+01
29	131	1.28E+01	5.56E+02		3.06E+02	2.54E+02	1.09E+03	6.74E+01	2.72E+01	2.06E+03	5.16E+01	1.28E+02
29	133			1.47E+01	2.27E+02	4.02E+02	8.09E+02	5.01E+01	2.02E+01	6.90E+02	1.73E+01	4.28E+01
29	135			5.31E+01	1.29E+02	1.54E+02	6.60E+02	4.09E+01	1.65E+01	1.25E+03	3.13E+01	7.76E+01
29	137			7.18E+01	1.35E+02	1.15E+02	4.94E+02	3.06E+01	1.24E+01	9.38E+02	2.35E+01	5.81E+01
29	139	1.28E+01	5.56E+02	3.65E+01	1.02E+02	3.68E+02	7.42E+02	4.59E+01	1.85E+01	6.33E+02	1.58E+01	3.92E+01
29	141			1.07E+01	3.65E+02	3.49E+02	1.49E+03	9.25E+01	3.73E+01	2.83E+03	7.09E+01	1.76E+02
29	143			1.98E+01	6.53E+02	5.68E+02	1.14E+03	7.08E+01	2.86E+01	9.75E+02	2.44E+01	6.04E+01
29	145			1.70E+02	2.64E+02	5.43E+02	2.32E+03	1.44E+02	5.81E+01	4.41E+03	1.10E+02	2.73E+02
29	147			5.79E+01	3.69E+00	2.19E+02	4.42E+02	2.74E+01	1.10E+01	3.77E+02	9.42E+00	2.33E+01
29	149			1.24E+02	3.21E+00	1.36E+02	5.81E+02	3.60E+01	1.45E+01	1.10E+03	2.76E+01	6.83E+01
29	151			1.51E+01	1.70E+00	1.63E+02	6.96E+02	4.31E+01	1.74E+01	1.32E+03	3.30E+01	8.18E+01
29	153			2.02E+01	4.98E+02	1.27E+02	5.44E+02	3.37E+01	1.36E+01	1.03E+03	2.58E+01	6.40E+01
29	155	1.41E+02	6.11E+03	7.65E+01	2.22E+02	5.92E+02	1.19E+03	7.39E+01	2.98E+01	1.02E+03	2.54E+01	6.31E+01
29	157			3.92E+01	8.22E+02	4.82E+02	9.71E+02	6.01E+01	2.43E+01	8.28E+02	2.07E+01	5.13E+01
29	159	8.33E+01	3.61E+03	2.78E+02	2.73E+01	1.08E+03	2.17E+03	1.34E+02	5.42E+01	1.85E+03	4.62E+01	1.15E+02
29	161	3.20E+01	1.39E+03	4.76E+01	2.36E+02	8.83E+02	1.78E+03	1.10E+02	4.44E+01	1.52E+03	3.79E+01	9.39E+01
29	163			3.96E+01	1.44E+03	4.93E+02	9.94E+02	6.16E+01	2.48E+01	8.48E+02	2.12E+01	5.25E+01
29	165			3.53E+01	4.63E+00	1.34E+03	2.70E+03	1.67E+02	6.75E+01	2.30E+03	5.76E+01	1.43E+02
29	167			4.49E+02	1.11E+02	2.48E+02	1.06E+03	6.57E+01	2.65E+01	2.01E+03	5.04E+01	1.25E+02
29	169			2.77E+01	6.66E+01	2.70E+02	1.16E+03	7.16E+01	2.89E+01	2.19E+03	5.49E+01	1.36E+02
29	171			1.51E+01	9.02E+01	7.08E+01	3.03E+02	1.88E+01	7.57E+00	5.75E+02	1.44E+01	3.56E+01
29	173	4.48E+01	1.94E+03	3.33E+01	4.83E+02	1.07E+02	4.57E+02	2.83E+01	1.14E+01	8.67E+02	2.17E+01	5.37E+01
29	175			1.63E+01	3.11E+02	6.63E+02	1.33E+03	8.27E+01	3.34E+01	1.14E+03	2.85E+01	7.06E+01
29	177			1.03E+01	4.44E+00	6.36E+02	1.28E+03	7.94E+01	3.20E+01	1.09E+03	2.73E+01	6.77E+01
29	179			1.11E+01	9.38E+01	1.01E+02	4.32E+02	2.68E+01	1.08E+01	8.21E+02	2.05E+01	5.08E+01
29	181			7.22E+02	4.11E+03	1.62E+02	6.93E+02	4.30E+01	1.73E+01	1.32E+03	3.29E+01	8.16E+01
29	183			3.61E+01	2.88E+01	4.79E+03	9.65E+03	5.98E+02	2.41E+02	8.23E+03	2.06E+02	5.10E+02
29	185			9.83E+01	1.30E+02	1.30E+02	5.55E+02	3.44E+01	1.39E+01	1.05E+03	2.63E+01	6.53E+01
29	186	4.48E+01	1.94E+03	2.22E+01	7.14E+02	1.93E+02	8.28E+02	5.13E+01	2.07E+01	1.57E+03	3.93E+01	9.74E+01
29	187	1.99E+02	8.61E+03	1.54E+03	3.00E+04	1.32E+03	2.66E+03	1.65E+02	6.66E+01	2.27E+03	5.68E+01	1.41E+02
29	189	3.84E+01	1.67E+03	4.04E+01	5.83E+02	2.54E+04	5.11E+04	3.16E+03	1.28E+03	4.36E+04	1.09E+03	2.70E+03
29	195	1.28E+01	5.56E+02	2.38E+01	4.36E+01	7.13E+02	1.44E+03	8.90E+01	3.59E+01	1.23E+03	3.06E+01	7.59E+01
29	197			4.16E+01	7.81E+01	5.70E+01	1.15E+02	7.11E+00	2.87E+00	9.78E+01	2.45E+00	6.06E+00
29	199	7.05E+01	3.06E+03	2.38E+01	7.82E+02	5.97E+01	2.55E+02	1.58E+01	6.38E+00	4.85E+02	1.21E+01	3.00E+01
29	201			9.51E+00	5.01E+00	1.05E+03	2.12E+03	1.31E+02	5.30E+01	1.81E+03	4.52E+01	1.12E+02
29	203			5.79E+01	6.20E+01	9.84E+01	4.21E+02	2.61E+01	1.05E+01	7.99E+02	2.00E+01	4.95E+01
29	205			1.19E+01	5.22E+02	2.32E+02	4.68E+02	2.90E+01	1.17E+01	3.99E+02	9.98E+00	2.47E+01
29	207			2.42E+01	5.15E+01	8.64E+02	1.74E+03	1.08E+02	4.35E+01	1.48E+03	3.71E+01	9.19E+01
29	209			4.12E+01	7.13E+01	2.98E+02	1.28E+03	7.91E+01	3.19E+01	2.42E+03	6.06E+01	1.50E+02
29	211	5.12E+01	2.22E+03	2.77E+01	1.37E+01	8.30E+01	3.55E+02	2.20E+01	8.88E+00	6.74E+02	1.69E+01	4.18E+01
29	213			3.65E+01	8.89E+00	2.95E+02	1.26E+03	7.83E+01	3.16E+01	2.40E+03	6.00E+01	1.49E+02

To calculate allocation proportion of national emissions to county, divide number of county unit within an industry category by total (national) number of units within that category

A = Residential Heating: Anthracite Coal; SCC 2104001000

B = Residential Heating: Bituminous Lignite; SCC 2104002000

C = Residential Heating: Distillate Oil; SCC 2104004000

D = Residential Heating: Natural Gas; 2104006000

E = Fireplaces; SCC 2104008001

F = Fireplaces: Inserts; SCC 2104008002

G = Fireplaces: Inserts; non catalytic, EPA certified; SCC 2104008003

H = Fireplaces: Inserts; catalytic, EPA certified; SCC 2104008004

I = Conventional Woodstoves; SCC 2104008010

J = Catalytic Woodstoves; SCC 2104008030

K = Non-Catalytic Woodstoves; SCC 2104008050

Appendix E-3. Residential Heating County Allocations

State FIPS	County FIPS	A	B	C	D	E	F	G	H	I	J	K
		tons coal	tons coal	MMBTU	MMBTU	tons wood	tons wood	tons wood	tons wood	tons wood	tons wood	tons wood
29	215			6.74E+00	3.00E+02	2.71E+02	1.16E+03	7.18E+01	2.90E+01	2.20E+03	5.50E+01	1.36E+02
29	217			1.27E+02	7.49E+01	5.82E+02	1.17E+03	7.26E+01	2.93E+01	1.00E+03	2.50E+01	6.20E+01
29	219			4.60E+01	7.99E+01	2.31E+02	9.89E+02	6.13E+01	2.47E+01	1.88E+03	4.70E+01	1.16E+02
29	221	3.84E+01	1.67E+03	5.55E+00	7.86E+01	2.05E+02	8.79E+02	5.45E+01	2.20E+01	1.67E+03	4.17E+01	1.03E+02
29	223			9.04E+01	8.70E+00	1.67E+02	7.13E+02	4.42E+01	1.78E+01	1.35E+03	3.39E+01	8.39E+01
29	225			3.96E+01	2.59E+01	2.62E+02	1.12E+03	6.95E+01	2.80E+01	2.13E+03	5.32E+01	1.32E+02
29	227			2.74E+01	1.21E+01	3.84E+01	7.73E+01	4.79E+00	1.93E+00	6.59E+01	1.65E+00	4.08E+00
29	229	2.43E+02	1.06E+04	9.56E+02	1.33E+04	2.07E+02	8.87E+02	5.50E+01	2.22E+01	1.68E+03	4.21E+01	1.04E+02
29	510			4.60E+01	9.01E+01	6.22E+03	1.25E+04	7.76E+02	3.13E+02	1.07E+04	2.67E+02	6.62E+02
30	001		1.62E+01	9.52E+01	1.35E+02	3.37E+02	6.79E+02	4.20E+01	1.70E+01	5.79E+02	1.45E+01	3.59E+01
30	003		9.89E+01	4.68E+01	1.65E+02	2.00E+02	8.57E+02	5.31E+01	2.14E+01	1.63E+03	4.07E+01	1.01E+02
30	005		2.54E+01	5.27E+01	1.56E+02	1.44E+02	6.15E+02	3.81E+01	1.54E+01	1.17E+03	2.92E+01	7.24E+01
30	007			1.28E+02		7.14E+01	3.06E+02	1.89E+01	7.64E+00	5.80E+02	1.45E+01	3.60E+01
30	009		8.32E+01	5.70E+01	2.21E+02	2.45E+02	1.05E+03	6.51E+01	2.63E+01	1.99E+03	4.98E+01	1.24E+02
30	011		4.81E+00	1.19E+01	6.02E-01	3.66E+01	1.57E+02	9.70E+00	3.91E+00	2.97E+02	7.43E+00	1.84E+01
30	013		5.69E+00	5.78E+02	2.84E+03	2.53E+03	5.09E+03	3.16E+02	1.27E+02	4.35E+03	1.09E+02	2.69E+02
30	015		2.19E+00	3.59E+02	8.94E+01	2.46E+02	4.95E+02	3.07E+01	1.24E+01	4.22E+02	1.06E+01	2.61E+01
30	017		3.72E+01	6.80E+00	4.25E+02	4.65E+02	9.35E+02	5.80E+01	2.34E+01	7.98E+02	2.00E+01	4.94E+01
30	019		2.19E+00	3.30E+02	6.02E-01	1.22E+02	2.46E+02	1.52E+01	6.14E+00	2.10E+02	5.24E+00	1.30E+01
30	021		4.07E+01	6.21E+01	3.44E+02	3.99E+02	8.03E+02	4.98E+01	2.01E+01	6.85E+02	1.71E+01	4.24E+01
30	023			1.45E+01	3.66E+02	4.82E+02	9.70E+02	6.01E+01	2.42E+01	8.27E+02	2.07E+01	5.13E+01
30	025		1.09E+01	1.87E+01	8.30E+01	1.40E+02	2.82E+02	1.75E+01	7.05E+00	2.41E+02	6.01E+00	1.49E+01
30	027		4.68E+01	3.34E+02	2.72E+02	5.11E+02	1.03E+03	6.38E+01	2.57E+01	8.78E+02	2.20E+01	5.44E+01
30	029			6.81E+02	1.03E+03	1.18E+03	5.03E+03	3.12E+02	1.26E+02	9.55E+03	2.39E+02	5.92E+02
30	031		3.50E+00	4.62E+02	1.03E+03	1.45E+03	2.92E+03	1.81E+02	7.30E+01	2.49E+03	6.22E+01	1.54E+02
30	033		1.53E+01	2.81E+01	2.41E-01	4.20E+01	1.80E+02	1.11E+01	4.49E+00	3.41E+02	8.53E+00	2.11E+01
30	035			1.36E+01	2.60E+02	2.00E+02	8.56E+02	5.30E+01	2.14E+01	1.63E+03	4.06E+01	1.01E+02
30	037		1.71E+01	7.14E+01	2.41E-01	2.31E+01	9.90E+01	6.14E+00	2.48E+00	1.88E+02	4.70E+00	1.16E+01
30	039			5.44E+01	4.36E+01	8.78E+01	3.76E+02	2.33E+01	9.39E+00	7.13E+02	1.78E+01	4.42E+01
30	041		6.57E+00	1.68E+02	5.70E+02	5.97E+02	1.20E+03	7.45E+01	3.00E+01	1.03E+03	2.56E+01	6.35E+01
30	043		3.50E+00	1.33E+02	1.33E+02	1.55E+02	6.61E+02	4.10E+01	1.65E+01	1.26E+03	3.14E+01	7.78E+01
30	045		9.19E+00	2.00E+02		6.74E+01	2.88E+02	1.79E+01	7.21E+00	5.48E+02	1.37E+01	3.39E+01
30	047		4.81E+00	1.41E+03		5.19E+02	2.22E+03	1.38E+02	5.56E+01	4.22E+03	1.06E+02	2.61E+02
30	049		1.75E+00	3.76E+02	1.38E+03	1.67E+03	3.37E+03	2.09E+02	8.42E+01	2.87E+03	7.18E+01	1.78E+02
30	051		8.75E-01	7.06E+01	5.54E+01	4.56E+01	1.95E+02	1.21E+01	4.87E+00	3.70E+02	9.26E+00	2.29E+01
30	053			5.89E+02	2.41E-01	3.55E+02	1.52E+03	9.40E+01	3.79E+01	2.88E+03	7.21E+01	1.79E+02
30	055		1.14E+01	2.27E+02	2.41E+00	5.68E+01	2.43E+02	1.51E+01	6.08E+00	4.62E+02	1.15E+01	2.86E+01
30	057		2.63E+00	2.80E+02	3.91E+01	1.70E+02	7.27E+02	4.51E+01	1.82E+01	1.38E+03	3.45E+01	8.56E+01
30	059			5.36E+01		1.10E+02	2.21E+02	1.37E+01	5.53E+00	1.89E+02	4.72E+00	1.17E+01
30	061		1.31E+00	2.25E+02	1.81E+00	6.19E+01	2.65E+02	1.64E+01	6.62E+00	5.03E+02	1.26E+01	3.12E+01
30	063			5.72E+02	2.30E+03	2.51E+03	5.06E+03	3.14E+02	1.27E+02	4.32E+03	1.08E+02	2.68E+02
30	065		1.70E+02	2.24E+02	2.41E-01	1.02E+02	4.36E+02	2.70E+01	1.09E+01	8.28E+02	2.07E+01	5.13E+01
30	067			1.28E+02	3.07E+02	6.14E+02	1.24E+03	7.66E+01	3.09E+01	1.05E+03	2.64E+01	6.54E+01
30	069		5.69E+00	4.00E+01		1.35E+01	5.76E+01	3.57E+00	1.44E+00	1.09E+02	2.73E+00	6.77E+00
30	071		7.44E+00	5.95E+01	1.34E+02	2.43E+02	4.89E+02	3.03E+01	1.22E+01	4.17E+02	1.04E+01	2.58E+01
30	073		4.38E+00	1.30E+02	1.54E+02	2.47E+02	4.97E+02	3.08E+01	1.24E+01	4.24E+02	1.06E+01	2.63E+01
30	075		4.55E+01	7.65E+00	4.82E-01	4.36E+01	1.86E+02	1.15E+01	4.66E+00	3.54E+02	8.85E+00	2.19E+01
30	077			5.61E+01	1.51E+02	2.51E+02	5.05E+02	3.13E+01	1.26E+01	4.30E+02	1.08E+01	2.67E+01

To calculate allocation proportion of national emissions to county, divide number of county unit within an industry category by total (national) number of units within that category

A = Residential Heating: Anthracite Coal; SCC 2104001000

B = Residential Heating: Bituminous Lignite; SCC 2104002000

C = Residential Heating: Distillate Oil; SCC 2104004000

D = Residential Heating: Natural Gas; 2104006000

E = Fireplaces; SCC 2104008001

F = Fireplaces: Inserts; SCC 2104008002

G = Fireplaces: Inserts; non catalytic, EPA certified; SCC 2104008003

H = Fireplaces: Inserts; catalytic, EPA certified; SCC 2104008004

I = Conventional Woodstoves; SCC 2104008010

J = Catalytic Woodstoves; SCC 2104008030

K = Non-Catalytic Woodstoves; SCC 2104008050

Appendix E-3. Residential Heating County Allocations

State FIPS	County FIPS	A	B	C	D	E	F	G	H	I	J	K
		tons coal	tons coal	MMBTU	MMBTU	tons wood	tons wood	tons wood	tons wood	tons wood	tons wood	tons wood
30	079		9.63E+00	3.40E+01	2.99E+01	3.76E+01	1.61E+02	9.98E+00	4.03E+00	3.06E+02	7.65E+00	1.89E+01
30	081		8.75E-01	1.87E+02	3.69E+02	5.29E+02	2.26E+03	1.40E+02	5.66E+01	4.30E+03	1.07E+02	2.66E+02
30	083		3.02E+01	5.19E+01	3.00E+02	4.06E+02	8.18E+02	5.07E+01	2.05E+01	6.98E+02	1.75E+01	4.32E+01
30	085		8.75E-01	1.49E+02	2.59E+02	2.03E+02	8.67E+02	5.37E+01	2.17E+01	1.65E+03	4.12E+01	1.02E+02
30	087		9.28E+01	5.95E+00	1.01E+02	1.46E+02	6.25E+02	3.87E+01	1.56E+01	1.19E+03	2.97E+01	7.36E+01
30	089			3.78E+02	4.82E-01	1.98E+02	8.48E+02	5.25E+01	2.12E+01	1.61E+03	4.02E+01	9.97E+01
30	091		1.71E+01	5.39E+02	8.67E+00	2.22E+02	4.47E+02	2.77E+01	1.12E+01	3.82E+02	9.54E+00	2.36E+01
30	093		3.06E+00	1.03E+02	1.39E+03	1.36E+03	2.73E+03	1.69E+02	6.83E+01	2.33E+03	5.83E+01	1.44E+02
30	095		2.14E+01	4.25E+01	1.46E+02	1.55E+02	6.64E+02	4.12E+01	1.66E+01	1.26E+03	3.15E+01	7.81E+01
30	097		1.23E+01	3.40E+01	7.25E+01	1.62E+02	3.26E+02	2.02E+01	8.14E+00	2.78E+02	6.94E+00	1.72E+01
30	099			2.69E+02	1.11E+02	1.38E+02	5.91E+02	3.66E+01	1.48E+01	1.12E+03	2.80E+01	6.95E+01
30	101		2.19E+00	6.46E+01	1.07E+02	2.07E+02	4.16E+02	2.58E+01	1.04E+01	3.55E+02	8.88E+00	2.20E+01
30	103		1.79E+01	1.19E+01		2.05E+01	8.79E+01	5.45E+00	2.20E+00	1.67E+02	4.17E+00	1.03E+01
30	105		1.53E+01	1.33E+02	2.43E+02	3.99E+02	8.03E+02	4.98E+01	2.01E+01	6.85E+02	1.71E+01	4.24E+01
30	107		7.44E+00	4.76E+01	5.35E+01	1.06E+02	2.14E+02	1.33E+01	5.35E+00	1.83E+02	4.57E+00	1.13E+01
30	109		7.44E+00	6.80E+00	2.64E+01	4.64E+01	9.35E+01	5.79E+00	2.34E+00	7.97E+01	1.99E+00	4.94E+00
30	111		1.26E+02	3.40E+02	4.09E+03	3.83E+03	7.71E+03	4.78E+02	1.93E+02	6.58E+03	1.64E+02	4.08E+02
31	001			3.57E+00	9.60E+02	3.22E+02	6.49E+02	4.02E+01	1.62E+01	5.54E+02	1.38E+01	3.43E+01
31	003			1.88E+01	1.46E+02	1.11E+02	2.23E+02	1.38E+01	5.57E+00	1.90E+02	4.75E+00	1.18E+01
31	005					6.77E+00	2.90E+01	1.80E+00	7.25E-01	5.50E+01	1.38E+00	3.41E+00
31	007			2.58E+00		1.06E+01	4.52E+01	2.80E+00	1.13E+00	8.58E+01	2.15E+00	5.32E+00
31	009			5.95E-01	8.72E-01	9.76E+00	4.17E+01	2.59E+00	1.04E+00	7.93E+01	1.98E+00	4.91E+00
31	011			1.05E+01	1.37E+02	9.07E+01	1.83E+02	1.13E+01	4.57E+00	1.56E+02	3.90E+00	9.65E+00
31	013			4.16E+01	3.34E+02	1.34E+02	2.71E+02	1.68E+01	6.77E+00	2.31E+02	5.77E+00	1.43E+01
31	015			3.57E+01	7.75E-01	4.41E+01	8.88E+01	5.50E+00	2.22E+00	7.57E+01	1.89E+00	4.69E+00
31	017			2.02E+01	6.40E+01	5.99E+01	1.21E+02	7.47E+00	3.02E+00	1.03E+02	2.57E+00	6.38E+00
31	019			2.75E+01	9.76E+02	3.49E+02	7.03E+02	4.36E+01	1.76E+01	6.00E+02	1.50E+01	3.72E+01
31	021			2.93E+01	1.56E+02	1.07E+02	2.15E+02	1.33E+01	5.38E+00	1.84E+02	4.59E+00	1.14E+01
31	023			4.02E+01	1.13E+02	1.13E+02	2.27E+02	1.40E+01	5.67E+00	1.93E+02	4.83E+00	1.20E+01
31	025			6.20E+01	3.82E+02	2.57E+02	5.18E+02	3.21E+01	1.29E+01	4.42E+02	1.10E+01	2.74E+01
31	027			1.11E+02	1.55E+02	1.18E+02	5.05E+02	3.13E+01	1.26E+01	9.59E+02	2.40E+01	5.94E+01
31	029			1.90E+01	7.51E+01	5.97E+01	1.20E+02	7.45E+00	3.01E+00	1.03E+02	2.56E+00	6.36E+00
31	031			9.73E+01	2.33E+00	8.34E+01	1.68E+02	1.04E+01	4.20E+00	1.43E+02	3.58E+00	8.87E+00
31	033			1.59E+01	2.87E+02	1.22E+02	2.46E+02	1.52E+01	6.14E+00	2.09E+02	5.24E+00	1.30E+01
31	035			3.77E+00	1.89E+02	9.60E+01	1.93E+02	1.20E+01	4.83E+00	1.65E+02	4.12E+00	1.02E+01
31	037			1.66E+02	1.34E+02	1.17E+02	2.36E+02	1.46E+01	5.90E+00	2.01E+02	5.04E+00	1.25E+01
31	039			1.26E+02	1.92E+02	1.28E+02	2.58E+02	1.60E+01	6.44E+00	2.20E+02	5.49E+00	1.36E+01
31	041			1.07E+01	2.08E+02	1.75E+02	3.53E+02	2.19E+01	8.82E+00	3.01E+02	7.52E+00	1.86E+01
31	043			2.66E+01	3.91E+02	1.64E+02	3.30E+02	2.05E+01	8.25E+00	2.82E+02	7.04E+00	1.74E+01
31	045			4.58E+01	1.80E+02	1.01E+02	2.04E+02	1.27E+01	5.10E+00	1.74E+02	4.36E+00	1.08E+01
31	047			1.27E+01	5.02E+02	2.73E+02	5.49E+02	3.40E+01	1.37E+01	4.68E+02	1.17E+01	2.90E+01
31	049			1.98E+00	6.36E+01	3.47E+01	6.99E+01	4.33E+00	1.75E+00	5.96E+01	1.49E+00	3.69E+00
31	051			5.65E+01	8.68E+01	8.08E+01	1.63E+02	1.01E+01	4.07E+00	1.39E+02	3.47E+00	8.60E+00
31	053			1.35E+02	9.66E+02	3.96E+02	7.97E+02	4.94E+01	1.99E+01	6.80E+02	1.70E+01	4.21E+01
31	055			3.86E+02	1.33E+04	4.01E+03	8.08E+03	5.01E+02	2.02E+02	6.89E+03	1.72E+02	4.27E+02
31	057			4.16E+00	4.48E+01	3.85E+01	7.76E+01	4.81E+00	1.94E+00	6.62E+01	1.65E+00	4.10E+00
31	059			1.94E+01	1.55E+02	9.81E+01	1.98E+02	1.22E+01	4.94E+00	1.69E+02	4.21E+00	1.04E+01
31	061			4.56E+00	1.16E+02	6.37E+01	1.28E+02	7.95E+00	3.21E+00	1.10E+02	2.74E+00	6.78E+00

To calculate allocation proportion of national emissions to county, divide number of county unit within an industry category by total (national) number of units within that category

A = Residential Heating: Anthracite Coal; SCC 2104001000

B = Residential Heating: Bituminous Lignite; SCC 2104002000

C = Residential Heating: Distillate Oil; SCC 2104004000

D = Residential Heating: Natural Gas; 2104006000

E = Fireplaces; SCC 2104008001

F = Fireplaces: Inserts; SCC 2104008002

G = Fireplaces: Inserts; non catalytic, EPA certified; SCC 2104008003

H = Fireplaces: Inserts; catalytic, EPA certified; SCC 2104008004

I = Conventional Woodstoves; SCC 2104008010

J = Catalytic Woodstoves; SCC 2104008030

K = Non-Catalytic Woodstoves; SCC 2104008050

Appendix E-3. Residential Heating County Allocations

State FIPS	County FIPS	A	B	C	D	E	F	G	H	I	J	K
		tons coal	tons coal	MMBTU	MMBTU	tons wood	tons wood	tons wood	tons wood	tons wood	tons wood	tons wood
31	063			2.58E+00	5.38E+01	4.75E+01	9.57E+01	5.93E+00	2.39E+00	8.17E+01	2.04E+00	5.06E+00
31	065			3.96E+00	1.63E+02	9.04E+01	1.82E+02	1.13E+01	4.55E+00	1.55E+02	3.88E+00	9.62E+00
31	067			2.93E+01	5.60E+02	2.85E+02	5.74E+02	3.56E+01	1.44E+01	4.90E+02	1.22E+01	3.04E+01
31	069				5.17E+01	4.13E+01	8.31E+01	5.15E+00	2.08E+00	7.09E+01	1.77E+00	4.39E+00
31	071			7.93E-01	5.01E+01	3.12E+01	6.28E+01	3.89E+00	1.57E+00	5.36E+01	1.34E+00	3.32E+00
31	073			1.78E+00	3.26E+01	3.54E+01	1.52E+02	9.39E+00	3.79E+00	2.88E+02	7.19E+00	1.78E+01
31	075			6.74E+00		1.06E+01	4.53E+01	2.81E+00	1.13E+00	8.61E+01	2.15E+00	5.33E+00
31	077			6.34E+00	4.62E+01	4.04E+01	8.13E+01	5.04E+00	2.03E+00	6.94E+01	1.73E+00	4.30E+00
31	079			2.36E+01	1.61E+03	4.88E+02	9.84E+02	6.09E+01	2.46E+01	8.39E+02	2.10E+01	5.20E+01
31	081			1.31E+01	2.15E+02	1.05E+02	2.12E+02	1.32E+01	5.31E+00	1.81E+02	4.53E+00	1.12E+01
31	083			1.39E+00	1.09E+02	6.24E+01	1.26E+02	7.79E+00	3.14E+00	1.07E+02	2.68E+00	6.65E+00
31	085			3.37E+00		1.74E+01	7.46E+01	4.62E+00	1.87E+00	1.42E+02	3.54E+00	8.78E+00
31	087			4.22E+01		5.30E+01	1.07E+02	6.61E+00	2.67E+00	9.11E+01	2.28E+00	5.64E+00
31	089			6.34E+01	1.90E+02	1.58E+02	3.17E+02	1.97E+01	7.94E+00	2.71E+02	6.77E+00	1.68E+01
31	091			4.16E+00		1.20E+01	2.42E+01	1.50E+00	6.04E-01	2.06E+01	5.15E-01	1.28E+00
31	093			3.09E+01	9.39E+01	7.91E+01	1.59E+02	9.87E+00	3.98E+00	1.36E+02	3.40E+00	8.42E+00
31	095			2.00E+01	1.87E+02	1.25E+02	2.51E+02	1.56E+01	6.28E+00	2.14E+02	5.36E+00	1.33E+01
31	097			2.36E+01	7.77E+01	6.63E+01	1.33E+02	8.27E+00	3.34E+00	1.14E+02	2.85E+00	7.05E+00
31	099			9.91E+00	1.81E+02	8.56E+01	1.72E+02	1.07E+01	4.31E+00	1.47E+02	3.68E+00	9.11E+00
31	101			5.55E+00	1.86E+02	1.15E+02	2.32E+02	1.43E+01	5.79E+00	1.98E+02	4.94E+00	1.22E+01
31	103			6.34E+00		1.59E+01	6.81E+01	4.22E+00	1.70E+00	1.29E+02	3.24E+00	8.02E+00
31	105			4.56E+00	1.03E+02	5.41E+01	1.09E+02	6.75E+00	2.72E+00	9.30E+01	2.32E+00	5.76E+00
31	107			5.79E+01	1.28E+02	1.47E+02	2.97E+02	1.84E+01	7.43E+00	2.53E+02	6.33E+00	1.57E+01
31	109			8.20E+01	6.23E+03	1.91E+03	3.84E+03	2.38E+02	9.60E+01	3.28E+03	8.19E+01	2.03E+02
31	111			4.56E+00	9.39E+02	3.85E+02	7.74E+02	4.80E+01	1.94E+01	6.61E+02	1.65E+01	4.09E+01
31	113			2.38E+00		1.12E+01	4.78E+01	2.96E+00	1.19E+00	9.07E+01	2.27E+00	5.62E+00
31	115			2.77E+00		1.01E+01	4.32E+01	2.68E+00	1.08E+00	8.20E+01	2.05E+00	5.08E+00
31	117					6.91E+00	2.96E+01	1.83E+00	7.39E-01	5.61E+01	1.40E+00	3.48E+00
31	119			7.23E+01	7.88E+02	3.42E+02	6.89E+02	4.27E+01	1.72E+01	5.88E+02	1.47E+01	3.64E+01
31	121			1.59E+01	1.52E+02	1.04E+02	2.10E+02	1.30E+01	5.25E+00	1.79E+02	4.48E+00	1.11E+01
31	123			1.39E+00	1.16E+02	7.21E+01	1.45E+02	9.00E+00	3.63E+00	1.24E+02	3.10E+00	7.68E+00
31	125			1.53E+01	8.37E+01	5.74E+01	1.16E+02	7.16E+00	2.89E+00	9.86E+01	2.47E+00	6.11E+00
31	127			1.49E+01	1.44E+02	1.00E+02	2.01E+02	1.25E+01	5.04E+00	1.72E+02	4.30E+00	1.06E+01
31	129			6.34E+00	1.46E+02	8.60E+01	1.73E+02	1.07E+01	4.33E+00	1.48E+02	3.69E+00	9.16E+00
31	131			4.00E+01	3.51E+02	1.84E+02	3.70E+02	2.29E+01	9.25E+00	3.15E+02	7.89E+00	1.95E+01
31	133			3.17E+00	4.67E+01	5.24E+01	1.05E+02	6.54E+00	2.64E+00	9.00E+01	2.25E+00	5.58E+00
31	135			1.57E+01	4.11E+01	4.81E+01	9.68E+01	6.00E+00	2.42E+00	8.26E+01	2.06E+00	5.12E+00
31	137			9.71E+00	2.80E+02	1.19E+02	2.39E+02	1.48E+01	5.97E+00	2.04E+02	5.09E+00	1.26E+01
31	139			3.90E+01	1.33E+02	9.92E+01	2.00E+02	1.24E+01	5.00E+00	1.70E+02	4.26E+00	1.06E+01
31	141			6.58E+01	4.98E+02	3.30E+02	6.64E+02	4.11E+01	1.66E+01	5.66E+02	1.42E+01	3.51E+01
31	143			1.82E+01	1.16E+02	8.50E+01	1.71E+02	1.06E+01	4.28E+00	1.46E+02	3.65E+00	9.05E+00
31	145			1.05E+01	3.47E+02	1.42E+02	2.87E+02	1.78E+01	7.17E+00	2.45E+02	6.12E+00	1.52E+01
31	147			1.86E+01	2.21E+02	1.45E+02	2.93E+02	1.81E+01	7.32E+00	2.50E+02	6.25E+00	1.55E+01
31	149			2.77E+00	2.91E+01	2.81E+01	1.20E+02	7.45E+00	3.01E+00	2.28E+02	5.71E+00	1.41E+01
31	151			2.28E+01	3.04E+02	1.60E+02	3.22E+02	1.99E+01	8.05E+00	2.75E+02	6.87E+00	1.70E+01
31	153			8.54E+01	2.60E+03	9.09E+02	1.83E+03	1.13E+02	4.57E+01	1.56E+03	3.90E+01	9.67E+01
31	155			1.33E+02	2.33E+02	2.35E+02	4.73E+02	2.93E+01	1.18E+01	4.04E+02	1.01E+01	2.50E+01
31	157			2.85E+01	9.98E+02	4.15E+02	8.36E+02	5.18E+01	2.09E+01	7.13E+02	1.78E+01	4.42E+01

To calculate allocation proportion of national emissions to county, divide number of county unit within an industry category by total (national) number of units within that category

A = Residential Heating: Anthracite Coal; SCC 2104001000

B = Residential Heating: Bituminous Lignite; SCC 2104002000

C = Residential Heating: Distillate Oil; SCC 2104004000

D = Residential Heating: Natural Gas; 2104006000

E = Fireplaces; SCC 2104008001

F = Fireplaces: Inserts; SCC 2104008002

G = Fireplaces: Inserts; non catalytic, EPA certified; SCC 2104008003

H = Fireplaces: Inserts; catalytic, EPA certified; SCC 2104008004

I = Conventional Woodstoves; SCC 2104008010

J = Catalytic Woodstoves; SCC 2104008030

K = Non-Catalytic Woodstoves; SCC 2104008050

Appendix E-3. Residential Heating County Allocations

State FIPS	County FIPS	A	B	C	D	E	F	G	H	I	J	K
		tons coal	tons coal	MMBTU	MMBTU	tons wood	tons wood	tons wood	tons wood	tons wood	tons wood	tons wood
31	159			3.05E+01	2.71E+02	1.68E+02	3.39E+02	2.10E+01	8.48E+00	2.89E+02	7.24E+00	1.79E+01
31	161			5.07E+01	1.16E+02	9.00E+01	1.81E+02	1.12E+01	4.53E+00	1.55E+02	3.87E+00	9.58E+00
31	163			1.63E+01	5.96E+01	5.24E+01	2.24E+02	1.39E+01	5.60E+00	4.26E+02	1.06E+01	2.64E+01
31	165			8.32E+00	5.81E-01	2.40E+01	1.03E+02	6.36E+00	2.57E+00	1.95E+02	4.88E+00	1.21E+01
31	167			5.29E+01	9.53E+01	7.03E+01	3.01E+02	1.86E+01	7.52E+00	5.72E+02	1.43E+01	3.54E+01
31	169			1.37E+01	1.46E+02	9.69E+01	1.95E+02	1.21E+01	4.88E+00	1.66E+02	4.16E+00	1.03E+01
31	171			9.91E-01		1.14E+01	4.89E+01	3.03E+00	1.22E+00	9.29E+01	2.32E+00	5.76E+00
31	173			2.18E+01	1.15E+02	7.03E+01	3.01E+02	1.86E+01	7.52E+00	5.71E+02	1.43E+01	3.54E+01
31	175			2.38E+00	1.38E+02	7.43E+01	1.50E+02	9.28E+00	3.74E+00	1.28E+02	3.19E+00	7.91E+00
31	177			7.08E+01	2.84E+02	1.83E+02	3.68E+02	2.28E+01	9.21E+00	3.14E+02	7.86E+00	1.95E+01
31	179			3.13E+01	1.65E+02	9.88E+01	1.99E+02	1.23E+01	4.97E+00	1.70E+02	4.24E+00	1.05E+01
31	181			2.77E+00	1.17E+02	6.32E+01	1.27E+02	7.88E+00	3.18E+00	1.09E+02	2.71E+00	6.72E+00
31	183			2.58E+00		1.44E+01	6.17E+01	3.82E+00	1.54E+00	1.17E+02	2.93E+00	7.26E+00
31	185			2.87E+01	2.99E+02	1.66E+02	3.34E+02	2.07E+01	8.36E+00	2.85E+02	7.13E+00	1.77E+01
32	001			2.30E+02	4.76E+02	1.35E+02	5.77E+02	3.57E+01	1.44E+01	1.09E+03	2.74E+01	6.78E+01
32	003			7.98E+01	1.64E+04	2.73E+03	5.50E+03	3.40E+02	1.37E+02	4.69E+03	1.17E+02	2.90E+02
32	005			2.61E+02	7.77E+02	3.08E+02	1.32E+03	8.16E+01	3.29E+01	2.50E+03	6.25E+01	1.55E+02
32	007			1.79E+02	6.12E+02	7.57E+02	1.52E+03	9.44E+01	3.81E+01	1.30E+03	3.25E+01	8.06E+01
32	009			2.41E+00	2.61E-01	9.22E+00	3.95E+01	2.45E+00	9.87E-01	7.49E+01	1.87E+00	4.64E+00
32	011			4.82E+00	2.74E+00	1.63E+01	6.98E+01	4.33E+00	1.75E+00	1.33E+02	3.31E+00	8.21E+00
32	013			8.97E+01	3.13E+02	8.98E+01	1.81E+02	1.12E+01	4.52E+00	1.54E+02	3.85E+00	9.55E+00
32	015			3.04E+01	1.63E+02	2.83E+01	1.21E+02	7.51E+00	3.03E+00	2.30E+02	5.76E+00	1.43E+01
32	017			2.02E+01		3.45E+01	1.48E+02	9.16E+00	3.69E+00	2.81E+02	7.02E+00	1.74E+01
32	019			1.64E+02	4.56E+02	1.53E+02	6.55E+02	4.06E+01	1.64E+01	1.24E+03	3.11E+01	7.71E+01
32	021			2.95E+01	7.31E+00	6.30E+01	2.69E+02	1.67E+01	6.74E+00	5.12E+02	1.28E+01	3.17E+01
32	023			4.54E+01	5.22E+00	8.07E+01	3.45E+02	2.14E+01	8.63E+00	6.56E+02	1.64E+01	4.06E+01
32	027			4.60E+01	6.49E+01	3.05E+01	1.31E+02	8.10E+00	3.27E+00	2.48E+02	6.20E+00	1.54E+01
32	029			3.22E+01	1.83E+01	2.40E+01	1.03E+02	6.36E+00	2.56E+00	1.95E+02	4.87E+00	1.21E+01
32	031			3.63E+03	8.09E+03	1.88E+03	3.79E+03	2.35E+02	9.47E+01	3.23E+03	8.08E+01	2.00E+02
32	033			1.16E+02	9.79E+00	3.46E+02	6.97E+02	4.32E+01	1.74E+01	5.95E+02	1.49E+01	3.69E+01
32	510			2.01E+02	1.61E+03	2.96E+02	5.96E+02	3.69E+01	1.49E+01	5.09E+02	1.27E+01	3.15E+01
33	001	1.45E+02		9.70E+03	1.46E+02	1.34E+03	5.74E+03	3.56E+02	1.43E+02	1.09E+04	2.72E+02	6.75E+02
33	003	6.42E+01		6.64E+03	1.01E+01	1.53E+03	6.55E+03	4.06E+02	1.64E+02	1.24E+04	3.11E+02	7.71E+02
33	005	1.39E+02		1.45E+04	7.23E+01	1.30E+03	5.57E+03	3.45E+02	1.39E+02	1.06E+04	2.65E+02	6.56E+02
33	007	1.53E+01		8.98E+03	3.80E+00	7.25E+02	3.10E+03	1.92E+02	7.76E+01	5.89E+03	1.47E+02	3.65E+02
33	009	5.95E+01		1.39E+04	2.57E+01	1.59E+03	6.80E+03	4.21E+02	1.70E+02	1.29E+04	3.23E+02	8.00E+02
33	011	6.69E+02		4.64E+04	4.42E+03	9.04E+03	1.82E+04	1.13E+03	4.55E+02	1.55E+04	3.88E+02	9.62E+02
33	013	1.65E+02		1.86E+04	8.76E+02	1.97E+03	8.44E+03	5.23E+02	2.11E+02	1.60E+04	4.00E+02	9.92E+02
33	015	4.48E+02		4.51E+04	9.97E+02	3.99E+03	1.71E+04	1.06E+03	4.27E+02	3.24E+04	8.11E+02	2.01E+03
33	017	7.86E+01		1.96E+04	4.07E+02	2.75E+03	5.53E+03	3.43E+02	1.38E+02	4.72E+03	1.18E+02	2.92E+02
33	019	1.58E+01		7.85E+03	3.76E+01	7.97E+02	3.41E+03	2.11E+02	8.53E+01	6.48E+03	1.62E+02	4.01E+02
34	001	6.29E+01		1.20E+04	5.43E+03	4.93E+03	9.93E+03	6.15E+02	2.48E+02	8.47E+03	2.12E+02	5.25E+02
34	003	1.39E+02		3.66E+04	2.72E+04	6.51E+03	1.31E+04	8.12E+02	3.27E+02	1.12E+04	2.79E+02	6.92E+02
34	005	1.72E+02		1.87E+04	9.81E+03	3.45E+03	1.48E+04	9.16E+02	3.70E+02	2.81E+04	7.02E+02	1.74E+03
34	007	1.23E+02		2.36E+04	1.46E+04	3.82E+03	1.64E+04	1.01E+03	4.09E+02	3.11E+04	7.76E+02	1.92E+03
34	009	4.41E+01		3.94E+03	1.64E+03	1.63E+03	6.98E+03	4.32E+02	1.74E+02	1.33E+04	3.31E+02	8.21E+02
34	011	6.45E+01		1.25E+04	2.12E+03	2.86E+03	5.75E+03	3.56E+02	1.44E+02	4.91E+03	1.23E+02	3.04E+02
34	013	1.56E+02		4.72E+04	2.03E+04	3.28E+03	1.40E+04	8.69E+02	3.50E+02	2.66E+04	6.66E+02	1.65E+03

To calculate allocation proportion of national emissions to county, divide number of county unit within an industry category by total (national) number of units within that category

A = Residential Heating: Anthracite Coal; SCC 2104001000

B = Residential Heating: Bituminous Lignite; SCC 2104002000

C = Residential Heating: Distillate Oil; SCC 2104004000

D = Residential Heating: Natural Gas; 2104006000

E = Fireplaces; SCC 2104008001

F = Fireplaces: Inserts; SCC 2104008002

G = Fireplaces: Inserts; non catalytic, EPA certified; SCC 2104008003

H = Fireplaces: Inserts; catalytic, EPA certified; SCC 2104008004

I = Conventional Woodstoves; SCC 2104008010

J = Catalytic Woodstoves; SCC 2104008030

K = Non-Catalytic Woodstoves; SCC 2104008050

Appendix E-3. Residential Heating County Allocations

State FIPS	County FIPS	A	B	C	D	E	F	G	H	I	J	K
		tons coal	tons coal	MMBTU	MMBTU	tons wood	tons wood	tons wood	tons wood	tons wood	tons wood	tons wood
34	015	5.72E+01		1.43E+04	5.30E+03	2.25E+03	9.64E+03	5.97E+02	2.41E+02	1.83E+04	4.57E+02	1.13E+03
34	017	1.62E+02		2.98E+04	1.55E+04	1.82E+03	3.67E+03	2.28E+02	9.19E+01	3.13E+03	7.84E+01	1.94E+02
34	019	3.28E+02		1.09E+04	1.09E+03	9.92E+02	4.25E+03	2.63E+02	1.06E+02	8.06E+03	2.02E+02	5.00E+02
34	021	1.81E+02		1.76E+04	9.24E+03	2.21E+03	9.44E+03	5.85E+02	2.36E+02	1.79E+04	4.48E+02	1.11E+03
34	023	1.01E+02		2.49E+04	2.13E+04	5.09E+03	2.18E+04	1.35E+03	5.44E+02	4.14E+04	1.03E+03	2.56E+03
34	025	1.69E+02		2.38E+04	1.63E+04	5.41E+03	2.32E+04	1.43E+03	5.79E+02	4.40E+04	1.10E+03	2.72E+03
34	027	1.58E+02		3.02E+04	9.59E+03	3.72E+03	1.59E+04	9.87E+02	3.98E+02	3.03E+04	7.56E+02	1.87E+03
34	029	2.94E+02		1.62E+04	1.18E+04	6.06E+03	2.60E+04	1.61E+03	6.49E+02	4.93E+04	1.23E+03	3.05E+03
34	031	1.06E+02		1.91E+04	1.35E+04	2.52E+03	5.08E+03	3.15E+02	1.27E+02	4.33E+03	1.08E+02	2.68E+02
34	033	2.12E+01		6.95E+03	7.31E+02	6.79E+02	2.91E+03	1.80E+02	7.27E+01	5.52E+03	1.38E+02	3.42E+02
34	035	8.91E+01		1.06E+04	7.66E+03	1.87E+03	8.00E+03	4.96E+02	2.00E+02	1.52E+04	3.80E+02	9.41E+02
34	037	1.72E+02		1.50E+04	3.05E+02	1.40E+03	6.01E+03	3.72E+02	1.50E+02	1.14E+04	2.85E+02	7.07E+02
34	039	9.07E+01		2.88E+04	1.44E+04	8.83E+03	1.78E+04	1.10E+03	4.45E+02	1.52E+04	3.79E+02	9.40E+02
34	041	3.09E+02		9.82E+03	1.16E+03	7.70E+02	3.30E+03	2.04E+02	8.24E+01	6.26E+03	1.56E+02	3.88E+02
35	001		9.35E+01	1.32E+02	1.48E+04	4.20E+03	8.46E+03	5.24E+02	2.12E+02	7.22E+03	1.80E+02	4.47E+02
35	003					3.28E+01	1.40E+02	8.69E+00	3.51E+00	2.66E+02	6.66E+00	1.65E+01
35	005			1.69E+01	1.42E+03	6.46E+02	1.30E+03	8.06E+01	3.25E+01	1.11E+03	2.77E+01	6.87E+01
35	006		7.33E+01	3.50E+01	3.55E+02	1.94E+02	8.29E+02	5.13E+01	2.07E+01	1.57E+03	3.93E+01	9.75E+01
35	007		1.15E+02	1.15E+02	2.52E+02	1.96E+02	3.95E+02	2.44E+01	9.87E+00	3.37E+02	8.42E+00	2.09E+01
35	009			2.42E+01	1.04E+03	1.01E+03	2.04E+03	1.26E+02	5.09E+01	1.74E+03	4.35E+01	1.08E+02
35	011			1.21E+00	3.76E+01	3.69E+01	7.44E+01	4.61E+00	1.86E+00	6.35E+01	1.59E+00	3.93E+00
35	013			4.47E+01	2.86E+03	9.59E+02	1.93E+03	1.20E+02	4.83E+01	1.65E+03	4.12E+01	1.02E+02
35	015			3.62E+00	1.30E+03	5.47E+02	1.10E+03	6.82E+01	2.75E+01	9.39E+02	2.35E+01	5.82E+01
35	017		1.56E+01		5.62E+02	6.40E+02	1.29E+03	7.98E+01	3.22E+01	1.10E+03	2.75E+01	6.81E+01
35	019				4.73E+00	1.33E+02	2.68E+02	1.66E+01	6.69E+00	2.28E+02	5.71E+00	1.41E+01
35	021		3.12E+00	1.21E+00	1.89E-01	4.37E+01	8.80E+01	5.45E+00	2.20E+00	7.50E+01	1.88E+00	4.65E+00
35	023			2.84E+01	9.61E+01	5.45E+01	1.10E+02	6.80E+00	2.74E+00	9.36E+01	2.34E+00	5.80E+00
35	025			6.04E+00	1.38E+03	6.13E+02	1.23E+03	7.65E+01	3.09E+01	1.05E+03	2.63E+01	6.52E+01
35	027			1.45E+01	1.82E+02	7.38E+02	1.49E+03	9.21E+01	3.72E+01	1.27E+03	3.17E+01	7.86E+01
35	028		1.40E+01	1.87E+01	6.24E+02	1.50E+02	6.42E+02	3.98E+01	1.61E+01	1.22E+03	3.05E+01	7.56E+01
35	029			3.99E+01	3.80E+02	1.64E+02	3.31E+02	2.05E+01	8.27E+00	2.82E+02	7.06E+00	1.75E+01
35	031		2.79E+02	2.96E+01	6.28E+02	4.05E+02	1.73E+03	1.07E+02	4.33E+01	3.29E+03	8.22E+01	2.04E+02
35	033			1.81E+00	5.11E+00	6.84E+01	2.93E+02	1.81E+01	7.32E+00	5.56E+02	1.39E+01	3.44E+01
35	035			1.93E+01	1.14E+03	1.22E+03	2.46E+03	1.53E+02	6.16E+01	2.10E+03	5.26E+01	1.30E+02
35	037			6.64E+00	2.29E+02	3.20E+02	6.45E+02	4.00E+01	1.61E+01	5.51E+02	1.38E+01	3.41E+01
35	039		2.03E+01	9.06E+00	5.24E+02	5.82E+02	2.49E+03	1.54E+02	6.22E+01	4.73E+03	1.18E+02	2.93E+02
35	041			9.06E+00	3.17E+02	1.90E+02	3.83E+02	2.37E+01	9.58E+00	3.27E+02	8.17E+00	2.03E+01
35	043		1.09E+01	5.31E+01	1.42E+03	6.52E+02	1.31E+03	8.13E+01	3.28E+01	1.12E+03	2.80E+01	6.94E+01
35	045		1.33E+03	4.11E+01	1.79E+03	6.64E+02	2.84E+03	1.76E+02	7.10E+01	5.39E+03	1.35E+02	3.34E+02
35	047		1.71E+01	4.77E+01	2.75E+02	5.96E+02	1.20E+03	7.43E+01	3.00E+01	1.02E+03	2.56E+01	6.34E+01
35	049		1.56E+01	5.74E+01	2.52E+03	8.71E+02	1.75E+03	1.09E+02	4.38E+01	1.50E+03	3.74E+01	9.27E+01
35	051			4.83E+00	2.36E+02	1.19E+02	2.39E+02	1.48E+01	5.97E+00	2.04E+02	5.09E+00	1.26E+01
35	053			9.06E+00	1.54E+02	3.36E+02	6.76E+02	4.19E+01	1.69E+01	5.77E+02	1.44E+01	3.57E+01
35	055		3.74E+01	2.17E+01	2.90E+02	5.27E+02	2.26E+03	1.40E+02	5.64E+01	4.28E+03	1.07E+02	2.65E+02
35	057		1.09E+01	3.02E+00	1.34E+02	8.95E+01	3.83E+02	2.37E+01	9.58E+00	7.27E+02	1.82E+01	4.51E+01
35	059		2.18E+01	4.83E+00	9.29E+01	6.59E+01	1.33E+02	8.22E+00	3.32E+00	1.13E+02	2.83E+00	7.01E+00
35	061		3.90E+01	4.05E+01	9.84E+02	3.69E+02	1.58E+03	9.77E+01	3.94E+01	2.99E+03	7.49E+01	1.86E+02
36	001	6.11E+01	1.07E+02	1.15E+04	7.93E+03	3.83E+03	1.64E+04	1.02E+03	4.10E+02	3.11E+04	7.78E+02	1.93E+03

To calculate allocation proportion of national emissions to county, divide number of county unit within an industry category by total (national) number of units within that category

A = Residential Heating: Anthracite Coal; SCC 2104001000

B = Residential Heating: Bituminous Lignite; SCC 2104002000

C = Residential Heating: Distillate Oil; SCC 2104004000

D = Residential Heating: Natural Gas; 2104006000

E = Fireplaces; SCC 2104008001

F = Fireplaces: Inserts; SCC 2104008002

G = Fireplaces: Inserts; non catalytic, EPA certified; SCC 2104008003

H = Fireplaces: Inserts; catalytic, EPA certified; SCC 2104008004

I = Conventional Woodstoves; SCC 2104008010

J = Catalytic Woodstoves; SCC 2104008030

K = Non-Catalytic Woodstoves; SCC 2104008050

Appendix E-3. Residential Heating County Allocations

State FIPS	County FIPS	A	B	C	D	E	F	G	H	I	J	K
		tons coal	tons coal	MMBTU	MMBTU	tons wood	tons wood	tons wood	tons wood	tons wood	tons wood	tons wood
36	003	1.02E+02	1.78E+02	8.49E+02	1.21E+03	9.61E+02	4.11E+03	2.55E+02	1.03E+02	7.81E+03	1.95E+02	4.84E+02
36	005	1.40E+03	2.44E+03	1.01E+05	1.75E+04	2.86E+03	5.76E+03	3.57E+02	1.44E+02	4.92E+03	1.23E+02	3.05E+02
36	007	6.47E+02	1.13E+03	6.56E+03	6.38E+03	3.26E+03	1.39E+04	8.63E+02	3.48E+02	2.65E+04	6.62E+02	1.64E+03
36	009	1.22E+02	2.14E+02	1.82E+03	2.12E+03	1.56E+03	6.69E+03	4.14E+02	1.67E+02	1.27E+04	3.18E+02	7.87E+02
36	011	2.04E+02	3.56E+02	3.66E+03	1.67E+03	1.35E+03	5.78E+03	3.58E+02	1.44E+02	1.10E+04	2.74E+02	6.80E+02
36	013	1.20E+02	2.10E+02	1.37E+03	4.93E+03	5.08E+03	1.02E+04	6.34E+02	2.56E+02	8.72E+03	2.18E+02	5.40E+02
36	015	1.83E+02	3.21E+02	1.27E+03	3.29E+03	1.57E+03	6.72E+03	4.16E+02	1.68E+02	1.28E+04	3.19E+02	7.90E+02
36	017	2.40E+02	4.20E+02	4.27E+03	3.12E+02	8.55E+02	3.66E+03	2.27E+02	9.15E+01	6.95E+03	1.74E+02	4.30E+02
36	019	1.12E+02	1.96E+02	5.83E+03	1.43E+01	1.12E+03	4.79E+03	2.97E+02	1.20E+02	9.09E+03	2.27E+02	5.63E+02
36	021	1.59E+02	2.78E+02	6.44E+03	3.27E+02	1.28E+03	5.50E+03	3.41E+02	1.37E+02	1.04E+04	2.61E+02	6.47E+02
36	023	1.22E+02	2.14E+02	1.78E+03	1.05E+03	6.98E+02	2.99E+03	1.85E+02	7.47E+01	5.67E+03	1.42E+02	3.51E+02
36	025	2.71E+02	4.74E+02	4.23E+03	2.31E+02	1.20E+03	5.11E+03	3.17E+02	1.28E+02	9.71E+03	2.43E+02	6.02E+02
36	027	1.42E+03	2.49E+03	2.59E+04	2.13E+03	3.94E+03	1.69E+04	1.04E+03	4.21E+02	3.20E+04	8.00E+02	1.98E+03
36	029	1.73E+02	3.03E+02	5.25E+03	4.13E+04	1.38E+04	5.92E+04	3.67E+03	1.48E+03	1.12E+05	2.81E+03	6.96E+03
36	031	1.59E+02	2.78E+02	3.76E+03	2.32E+00	1.02E+03	4.38E+03	2.71E+02	1.09E+02	8.31E+03	2.08E+02	5.15E+02
36	033	1.04E+02	1.82E+02	4.43E+03	5.26E+00	9.95E+02	4.26E+03	2.64E+02	1.06E+02	8.08E+03	2.02E+02	5.01E+02
36	035	3.05E+01	5.34E+01	3.59E+03	1.03E+03	2.06E+03	4.15E+03	2.57E+02	1.04E+02	3.54E+03	8.86E+01	2.20E+02
36	037	1.57E+02	2.74E+02	2.05E+03	1.51E+03	9.79E+02	4.19E+03	2.60E+02	1.05E+02	7.95E+03	1.99E+02	4.93E+02
36	039	1.14E+02	1.99E+02	5.19E+03	8.08E+01	1.09E+03	4.65E+03	2.88E+02	1.16E+02	8.83E+03	2.21E+02	5.47E+02
36	041	8.14E+00	1.42E+01	5.32E+02	8.56E-01	4.02E+02	1.72E+03	1.07E+02	4.30E+01	3.27E+03	8.17E+01	2.03E+02
36	043	8.75E+01	1.53E+02	4.09E+03	1.28E+03	1.27E+03	5.43E+03	3.36E+02	1.36E+02	1.03E+04	2.58E+02	6.39E+02
36	045	2.52E+02	4.42E+02	4.83E+03	1.74E+03	1.74E+03	7.44E+03	4.61E+02	1.86E+02	1.41E+04	3.53E+02	8.75E+02
36	047	2.09E+03	3.65E+03	1.56E+05	5.00E+04	4.57E+03	9.21E+03	5.70E+02	2.30E+02	7.85E+03	1.96E+02	4.87E+02
36	049	9.57E+01	1.67E+02	2.25E+03	6.60E+00	5.90E+02	2.52E+03	1.56E+02	6.31E+01	4.79E+03	1.20E+02	2.97E+02
36	051	1.57E+02	2.74E+02	2.58E+03	1.00E+03	1.01E+03	4.32E+03	2.68E+02	1.08E+02	8.20E+03	2.05E+02	5.08E+02
36	053	1.61E+02	2.81E+02	3.91E+03	9.76E+02	1.18E+03	5.04E+03	3.12E+02	1.26E+02	9.57E+03	2.39E+02	5.93E+02
36	055	2.02E+02	3.53E+02	8.90E+03	2.59E+04	1.13E+04	4.86E+04	3.01E+03	1.21E+03	9.22E+04	2.30E+03	5.71E+03
36	057	1.38E+02	2.42E+02	3.18E+03	1.13E+03	1.38E+03	2.78E+03	1.72E+02	6.94E+01	2.37E+03	5.92E+01	1.47E+02
36	059	1.54E+03	2.70E+03	1.28E+05	1.54E+04	2.22E+04	9.52E+04	5.90E+03	2.38E+03	1.81E+05	4.52E+03	1.12E+04
36	061	2.88E+03	5.03E+03	1.62E+05	2.81E+04	2.12E+02	4.28E+02	2.65E+01	1.07E+01	3.65E+02	9.12E+00	2.26E+01
36	063	3.28E+02	5.73E+02	6.63E+03	7.12E+03	7.08E+03	1.43E+04	8.83E+02	3.56E+02	1.22E+04	3.04E+02	7.53E+02
36	065	2.34E+02	4.10E+02	1.09E+04	6.27E+03	6.99E+03	1.41E+04	8.72E+02	3.52E+02	1.20E+04	3.00E+02	7.44E+02
36	067	4.01E+02	7.02E+02	5.99E+03	1.56E+04	7.28E+03	3.11E+04	1.93E+03	7.78E+02	5.91E+04	1.48E+03	3.66E+03
36	069	4.40E+02	7.69E+02	3.15E+03	2.12E+03	1.64E+03	7.04E+03	4.36E+02	1.76E+02	1.34E+04	3.34E+02	8.28E+02
36	071	7.90E+02	1.38E+03	2.00E+04	5.40E+03	4.36E+03	1.87E+04	1.16E+03	4.67E+02	3.54E+04	8.86E+02	2.20E+03
36	073	1.67E+02	2.92E+02	2.26E+03	6.21E+02	7.34E+02	3.14E+03	1.94E+02	7.85E+01	5.96E+03	1.49E+02	3.69E+02
36	075	1.40E+02	2.46E+02	5.21E+03	1.99E+03	1.94E+03	8.30E+03	5.14E+02	2.08E+02	1.58E+04	3.94E+02	9.77E+02
36	077	2.69E+02	4.70E+02	5.32E+03	3.67E+02	1.12E+03	4.78E+03	2.96E+02	1.20E+02	9.09E+03	2.27E+02	5.63E+02
36	079	2.56E+02	4.49E+02	8.84E+03	1.82E+01	1.64E+03	7.02E+03	4.35E+02	1.75E+02	1.33E+04	3.33E+02	8.25E+02
36	081	1.29E+03	2.27E+03	1.40E+05	4.33E+04	1.79E+04	3.61E+04	2.24E+03	9.02E+02	3.08E+04	7.70E+02	1.91E+03
36	083	1.02E+02	1.78E+02	9.78E+03	2.68E+03	2.15E+03	9.19E+03	5.69E+02	2.30E+02	1.74E+04	4.36E+02	1.08E+03
36	085	2.36E+02	4.13E+02	1.28E+04	1.18E+04	6.00E+03	1.21E+04	7.49E+02	3.02E+02	1.03E+04	2.58E+02	6.39E+02
36	087	1.30E+02	2.28E+02	1.83E+03	9.19E+03	3.54E+03	1.51E+04	9.38E+02	3.78E+02	2.87E+04	7.18E+02	1.78E+03
36	089	5.29E+01	9.26E+01	7.00E+03	1.29E+03	2.08E+03	8.89E+03	5.51E+02	2.22E+02	1.69E+04	4.22E+02	1.05E+03
36	091	3.26E+02	5.70E+02	9.26E+03	2.78E+03	2.85E+03	1.22E+04	7.55E+02	3.05E+02	2.31E+04	5.78E+02	1.43E+03
36	093	1.04E+02	1.82E+02	5.32E+03	4.75E+03	2.37E+03	1.02E+04	6.29E+02	2.54E+02	1.93E+04	4.82E+02	1.19E+03
36	095	1.04E+02	1.82E+02	2.98E+03	2.81E+00	6.20E+02	2.65E+03	1.64E+02	6.64E+01	5.04E+03	1.26E+02	3.12E+02
36	097	3.26E+02	5.70E+02	9.98E+02	1.87E+02	3.77E+02	1.61E+03	9.98E+01	4.03E+01	3.06E+03	7.65E+01	1.90E+02

To calculate allocation proportion of national emissions to county, divide number of county unit within an industry category by total (national) number of units within that category

A = Residential Heating: Anthracite Coal; SCC 2104001000

B = Residential Heating: Bituminous Lignite; SCC 2104002000

C = Residential Heating: Distillate Oil; SCC 2104004000

D = Residential Heating: Natural Gas; 2104006000

E = Fireplaces; SCC 2104008001

F = Fireplaces: Inserts; SCC 2104008002

G = Fireplaces: Inserts; non catalytic, EPA certified; SCC 2104008003

H = Fireplaces: Inserts; catalytic, EPA certified; SCC 2104008004

I = Conventional Woodstoves; SCC 2104008010

J = Catalytic Woodstoves; SCC 2104008030

K = Non-Catalytic Woodstoves; SCC 2104008050

Appendix E-3. Residential Heating County Allocations

State FIPS	County FIPS	A	B	C	D	E	F	G	H	I	J	K
		tons coal	tons coal	MMBTU	MMBTU	tons wood	tons wood	tons wood	tons wood	tons wood	tons wood	tons wood
36	099	5.62E+02	9.83E+02	1.42E+03	6.13E+02	6.28E+02	2.69E+03	1.66E+02	6.72E+01	5.10E+03	1.28E+02	3.16E+02
36	101	3.64E+02	6.38E+02	2.68E+03	2.44E+03	1.77E+03	7.58E+03	4.70E+02	1.90E+02	1.44E+04	3.60E+02	8.92E+02
36	103	2.59E+03	4.53E+03	1.31E+05	1.19E+04	2.53E+04	1.08E+05	6.71E+03	2.71E+03	2.06E+05	5.14E+03	1.27E+04
36	105	3.58E+02	6.27E+02	7.42E+03	1.94E+01	1.81E+03	7.77E+03	4.81E+02	1.94E+02	1.47E+04	3.69E+02	9.14E+02
36	107	4.93E+02	8.62E+02	3.80E+03	5.28E+02	8.67E+02	3.71E+03	2.30E+02	9.28E+01	7.05E+03	1.76E+02	4.37E+02
36	109	8.02E+02	1.40E+03	2.65E+03	1.93E+03	1.08E+03	4.64E+03	2.87E+02	1.16E+02	8.81E+03	2.20E+02	5.46E+02
36	111	9.40E+02	1.65E+03	1.73E+04	1.07E+03	3.13E+03	1.34E+04	8.30E+02	3.35E+02	2.54E+04	6.36E+02	1.58E+03
36	113	1.59E+02	2.78E+02	3.58E+03	8.25E+02	1.42E+03	6.08E+03	3.77E+02	1.52E+02	1.16E+04	2.89E+02	7.16E+02
36	115	3.09E+02	5.41E+02	4.38E+03	4.71E+02	1.11E+03	4.76E+03	2.95E+02	1.19E+02	9.04E+03	2.26E+02	5.60E+02
36	117	1.95E+02	3.42E+02	3.64E+03	1.79E+03	1.59E+03	6.79E+03	4.21E+02	1.70E+02	1.29E+04	3.22E+02	7.99E+02
36	119	6.76E+02	1.18E+03	8.02E+04	1.41E+04	1.84E+04	3.70E+04	2.29E+03	9.25E+02	3.16E+04	7.89E+02	1.95E+03
36	121	7.53E+01	1.32E+02	1.12E+03	8.72E+02	7.37E+02	3.15E+03	1.95E+02	7.88E+01	5.99E+03	1.50E+02	3.71E+02
36	123	2.73E+02	4.77E+02	1.11E+03	2.74E+02	5.45E+02	2.33E+03	1.45E+02	5.83E+01	4.43E+03	1.11E+02	2.75E+02
37	001		3.25E+02	1.67E+03	1.80E+03	1.19E+03	2.39E+03	1.48E+02	5.98E+01	2.04E+03	5.11E+01	1.27E+02
37	003			8.26E+02	2.26E+00	2.96E+02	1.27E+03	7.84E+01	3.16E+01	2.40E+03	6.01E+01	1.49E+02
37	005			4.02E+02	4.52E-01	1.60E+02	6.85E+02	4.24E+01	1.71E+01	1.30E+03	3.25E+01	8.05E+01
37	007		7.75E+02	6.65E+02	7.21E+01	2.76E+02	1.18E+03	7.33E+01	2.96E+01	2.25E+03	5.62E+01	1.39E+02
37	009		1.43E+03	9.81E+02	4.52E-01	3.26E+02	1.39E+03	8.63E+01	3.48E+01	2.65E+03	6.62E+01	1.64E+02
37	011		2.85E+03	5.36E+02	3.96E+00	2.07E+02	8.86E+02	5.49E+01	2.22E+01	1.68E+03	4.21E+01	1.04E+02
37	013			8.23E+02	2.09E+02	5.03E+02	2.15E+03	1.33E+02	5.38E+01	4.08E+03	1.02E+02	2.53E+02
37	015		2.00E+02	5.53E+02	4.41E+00	2.25E+02	9.62E+02	5.96E+01	2.41E+01	1.83E+03	4.57E+01	1.13E+02
37	017		2.00E+02	5.86E+02	3.06E+01	3.39E+02	1.45E+03	8.98E+01	3.62E+01	2.75E+03	6.88E+01	1.71E+02
37	019		3.00E+02	8.38E+02	1.06E+01	7.93E+02	3.39E+03	2.10E+02	8.49E+01	6.45E+03	1.61E+02	3.99E+02
37	021		4.37E+03	6.62E+03	1.15E+03	1.89E+03	8.10E+03	5.02E+02	2.03E+02	1.54E+04	3.85E+02	9.54E+02
37	023		2.75E+02	2.43E+03	2.61E+02	8.26E+02	3.53E+03	2.19E+02	8.83E+01	6.71E+03	1.68E+02	4.16E+02
37	025		1.75E+02	1.97E+03	1.24E+03	1.09E+03	2.19E+03	1.36E+02	5.48E+01	1.87E+03	4.67E+01	1.16E+02
37	027		5.00E+02	2.20E+03	2.51E+02	7.84E+02	3.35E+03	2.08E+02	8.38E+01	6.37E+03	1.59E+02	3.95E+02
37	029			1.77E+02	1.24E+00	7.40E+01	3.16E+02	1.96E+01	7.91E+00	6.01E+02	1.50E+01	3.72E+01
37	031			1.02E+03	9.27E+00	6.70E+02	2.87E+03	1.78E+02	7.16E+01	5.44E+03	1.36E+02	3.37E+02
37	033			4.84E+02	1.88E+01	2.37E+02	1.01E+03	6.28E+01	2.53E+01	1.92E+03	4.81E+01	1.19E+02
37	035		1.75E+02	2.68E+03	8.41E+02	1.28E+03	5.48E+03	3.39E+02	1.37E+02	1.04E+04	2.60E+02	6.44E+02
37	037		1.50E+02	7.54E+02	1.85E+02	4.39E+02	1.88E+03	1.17E+02	4.70E+01	3.57E+03	8.93E+01	2.21E+02
37	039		4.00E+02	4.88E+02	2.71E+00	2.85E+02	1.22E+03	7.55E+01	3.05E+01	2.31E+03	5.78E+01	1.43E+02
37	041			3.43E+02	3.96E+00	1.52E+02	6.51E+02	4.03E+01	1.63E+01	1.24E+03	3.09E+01	7.66E+01
37	043			1.24E+02		1.19E+02	5.11E+02	3.16E+01	1.28E+01	9.70E+02	2.43E+01	6.01E+01
37	045		5.50E+02	1.84E+03	7.04E+02	9.71E+02	4.15E+03	2.57E+02	1.04E+02	7.89E+03	1.97E+02	4.89E+02
37	047			1.15E+03	2.17E+01	5.54E+02	2.37E+03	1.47E+02	5.93E+01	4.50E+03	1.13E+02	2.79E+02
37	049		2.25E+02	1.06E+03	2.15E+02	7.33E+02	1.48E+03	9.15E+01	3.69E+01	1.26E+03	3.15E+01	7.80E+01
37	051		6.75E+02	3.23E+03	1.74E+03	2.43E+03	1.04E+04	6.43E+02	2.60E+02	1.97E+04	4.93E+02	1.22E+03
37	053			3.08E+02	2.83E+00	1.79E+02	3.60E+02	2.23E+01	9.01E+00	3.08E+02	7.69E+00	1.91E+01
37	055		2.75E+02	3.03E+02	4.07E+00	6.14E+02	2.63E+03	1.63E+02	6.57E+01	4.99E+03	1.25E+02	3.09E+02
37	057		9.75E+02	3.47E+03	5.86E+02	1.46E+03	6.25E+03	3.87E+02	1.56E+02	1.19E+04	2.97E+02	7.35E+02
37	059		2.25E+02	8.39E+02	1.63E+01	3.24E+02	1.39E+03	8.60E+01	3.47E+01	2.64E+03	6.59E+01	1.63E+02
37	061			6.53E+02	3.71E+01	4.54E+02	1.94E+03	1.20E+02	4.86E+01	3.69E+03	9.22E+01	2.29E+02
37	063		1.38E+03	1.89E+03	2.86E+03	3.90E+03	7.84E+03	4.86E+02	1.96E+02	6.69E+03	1.67E+02	4.15E+02
37	065		1.23E+03	6.86E+02	6.70E+02	5.37E+02	1.08E+03	6.70E+01	2.70E+01	9.22E+02	2.31E+01	5.71E+01
37	067		2.68E+03	6.76E+03	2.15E+03	2.80E+03	5.64E+03	3.50E+02	1.41E+02	4.81E+03	1.20E+02	2.98E+02
37	069		4.75E+02	6.90E+02	2.08E+01	3.65E+02	1.56E+03	9.69E+01	3.91E+01	2.97E+03	7.42E+01	1.84E+02

To calculate allocation proportion of national emissions to county, divide number of county unit within an industry category by total (national) number of units within that category

A = Residential Heating: Anthracite Coal; SCC 2104001000

B = Residential Heating: Bituminous Lignite; SCC 2104002000

C = Residential Heating: Distillate Oil; SCC 2104004000

D = Residential Heating: Natural Gas; 2104006000

E = Fireplaces; SCC 2104008001

F = Fireplaces: Inserts; SCC 2104008002

G = Fireplaces: Inserts; non catalytic, EPA certified; SCC 2104008003

H = Fireplaces: Inserts; catalytic, EPA certified; SCC 2104008004

I = Conventional Woodstoves; SCC 2104008010

J = Catalytic Woodstoves; SCC 2104008030

K = Non-Catalytic Woodstoves; SCC 2104008050

Appendix E-3. Residential Heating County Allocations

State FIPS	County FIPS	A	B	C	D	E	F	G	H	I	J	K
		tons coal	tons coal	MMBTU	MMBTU	tons wood	tons wood	tons wood	tons wood	tons wood	tons wood	tons wood
37	071		1.25E+03	2.42E+03	3.11E+03	1.90E+03	3.83E+03	2.37E+02	9.58E+01	3.27E+03	8.17E+01	2.03E+02
37	073		1.50E+02	2.51E+02	2.60E+00	1.01E+02	4.33E+02	2.68E+01	1.08E+01	8.22E+02	2.05E+01	5.09E+01
37	075			2.97E+02	6.78E-01	1.20E+02	5.12E+02	3.17E+01	1.28E+01	9.72E+02	2.43E+01	6.02E+01
37	077		3.00E+02	5.26E+02	2.19E+02	3.67E+02	1.57E+03	9.73E+01	3.93E+01	2.98E+03	7.46E+01	1.85E+02
37	079			2.99E+02	2.42E+01	1.75E+02	7.49E+02	4.64E+01	1.87E+01	1.42E+03	3.56E+01	8.82E+01
37	081		2.45E+03	4.75E+03	5.51E+03	3.51E+03	7.06E+03	4.38E+02	1.77E+02	6.03E+03	1.51E+02	3.73E+02
37	083		7.50E+02	1.40E+03	3.70E+02	6.03E+02	2.58E+03	1.60E+02	6.45E+01	4.90E+03	1.22E+02	3.03E+02
37	085			8.42E+02	3.87E+02	6.69E+02	2.86E+03	1.77E+02	7.16E+01	5.44E+03	1.36E+02	3.37E+02
37	087		5.50E+02	2.07E+03	9.16E+00	6.81E+02	2.91E+03	1.81E+02	7.29E+01	5.54E+03	1.38E+02	3.43E+02
37	089		1.25E+03	1.79E+03	5.78E+02	8.84E+02	3.78E+03	2.34E+02	9.46E+01	7.18E+03	1.80E+02	4.45E+02
37	091			6.60E+02	6.22E+01	2.36E+02	1.01E+03	6.25E+01	2.52E+01	1.92E+03	4.79E+01	1.19E+02
37	093		3.75E+02	2.87E+02	5.81E+01	1.89E+02	8.10E+02	5.02E+01	2.03E+01	1.54E+03	3.85E+01	9.53E+01
37	095			1.38E+02	6.78E-01	7.60E+01	3.25E+02	2.02E+01	8.13E+00	6.18E+02	1.54E+01	3.83E+01
37	097		2.00E+02	1.99E+03	9.42E+02	1.06E+03	4.53E+03	2.81E+02	1.13E+02	8.61E+03	2.15E+02	5.33E+02
37	099		6.00E+02	5.99E+02	2.60E+00	3.88E+02	1.66E+03	1.03E+02	4.15E+01	3.15E+03	7.88E+01	1.95E+02
37	101		7.25E+02	1.35E+03	1.16E+02	9.00E+02	3.85E+03	2.39E+02	9.63E+01	7.31E+03	1.83E+02	4.53E+02
37	103			2.06E+02	3.28E+00	1.06E+02	4.53E+02	2.81E+01	1.13E+01	8.61E+02	2.15E+01	5.33E+01
37	105			4.91E+02	3.61E+02	4.48E+02	1.92E+03	1.19E+02	4.79E+01	3.64E+03	9.10E+01	2.26E+02
37	107		1.50E+02	1.15E+03	4.49E+02	6.08E+02	2.60E+03	1.61E+02	6.51E+01	4.94E+03	1.24E+02	3.06E+02
37	109		3.00E+02	1.04E+03	2.15E+02	5.35E+02	2.29E+03	1.42E+02	5.72E+01	4.35E+03	1.09E+02	2.69E+02
37	111			1.38E+03	1.81E+00	4.06E+02	1.74E+03	1.08E+02	4.35E+01	3.30E+03	8.25E+01	2.05E+02
37	113			5.93E+02	4.75E+00	5.14E+02	2.20E+03	1.36E+02	5.50E+01	4.18E+03	1.04E+02	2.59E+02
37	115		5.25E+02	7.74E+02	1.13E+00	2.08E+02	8.92E+02	5.53E+01	2.23E+01	1.69E+03	4.23E+01	1.05E+02
37	117			6.73E+02	5.65E+00	2.75E+02	1.18E+03	7.29E+01	2.94E+01	2.23E+03	5.59E+01	1.38E+02
37	119		2.53E+03	4.24E+03	8.98E+03	4.73E+03	9.52E+03	5.90E+02	2.38E+02	8.12E+03	2.03E+02	5.03E+02
37	121		1.08E+03	7.93E+02	7.92E-01	1.99E+02	8.54E+02	5.29E+01	2.13E+01	1.62E+03	4.05E+01	1.00E+02
37	123		1.00E+02	7.08E+02	1.21E+01	2.97E+02	1.27E+03	7.88E+01	3.18E+01	2.42E+03	6.04E+01	1.50E+02
37	125		1.75E+02	1.19E+03	1.84E+02	7.18E+02	3.07E+03	1.90E+02	7.68E+01	5.83E+03	1.46E+02	3.61E+02
37	127		1.18E+03	9.04E+02	6.31E+02	7.70E+02	1.55E+03	9.61E+01	3.88E+01	1.32E+03	3.31E+01	8.20E+01
37	129		1.50E+02	1.41E+03	7.45E+02	1.29E+03	5.52E+03	3.42E+02	1.38E+02	1.05E+04	2.62E+02	6.50E+02
37	131		2.50E+02	5.97E+02	1.85E+01	2.49E+02	1.07E+03	6.61E+01	2.67E+01	2.03E+03	5.06E+01	1.26E+02
37	133		4.50E+02	1.25E+03	2.96E+01	9.05E+02	1.82E+03	1.13E+02	4.56E+01	1.56E+03	3.89E+01	9.64E+01
37	135		7.25E+02	8.11E+02	1.11E+03	7.20E+02	1.45E+03	8.98E+01	3.63E+01	1.24E+03	3.09E+01	7.66E+01
37	137		2.25E+02	2.70E+02	2.15E+00	1.48E+02	6.34E+02	3.93E+01	1.58E+01	1.20E+03	3.01E+01	7.46E+01
37	139			9.68E+02	3.62E+00	3.17E+02	1.35E+03	8.39E+01	3.39E+01	2.57E+03	6.43E+01	1.59E+02
37	141			4.54E+02	1.09E+01	3.59E+02	1.54E+03	9.52E+01	3.84E+01	2.92E+03	7.29E+01	1.81E+02
37	143			3.05E+02	7.92E+00	1.27E+02	5.45E+02	3.38E+01	1.36E+01	1.04E+03	2.59E+01	6.42E+01
37	145		1.50E+02	6.08E+02	2.19E+02	3.53E+02	1.51E+03	9.37E+01	3.78E+01	2.87E+03	7.18E+01	1.78E+02
37	147		5.00E+02	1.71E+03	6.25E+02	8.60E+02	1.73E+03	1.07E+02	4.33E+01	1.48E+03	3.69E+01	9.15E+01
37	149		2.25E+02	4.25E+02	5.26E+01	2.17E+02	9.28E+02	5.75E+01	2.32E+01	1.76E+03	4.40E+01	1.09E+02
37	151		4.25E+02	2.63E+03	5.01E+02	1.13E+03	4.83E+03	2.99E+02	1.21E+02	9.17E+03	2.29E+02	5.68E+02
37	153		8.50E+02	9.87E+02	3.14E+02	5.10E+02	2.18E+03	1.35E+02	5.45E+01	4.14E+03	1.04E+02	2.57E+02
37	155		3.25E+02	1.42E+03	5.75E+02	9.42E+02	4.03E+03	2.50E+02	1.01E+02	7.66E+03	1.91E+02	4.74E+02
37	157		5.50E+02	1.78E+03	9.44E+02	9.96E+02	4.26E+03	2.64E+02	1.07E+02	8.09E+03	2.02E+02	5.01E+02
37	159		1.18E+03	2.70E+03	1.14E+03	1.24E+03	5.31E+03	3.29E+02	1.33E+02	1.01E+04	2.52E+02	6.24E+02
37	161		9.75E+02	1.69E+03	2.32E+02	7.18E+02	3.07E+03	1.90E+02	7.68E+01	5.83E+03	1.46E+02	3.61E+02
37	163			1.04E+03	1.37E+02	5.18E+02	2.22E+03	1.37E+02	5.54E+01	4.21E+03	1.05E+02	2.61E+02
37	165			4.54E+02	2.33E+02	3.17E+02	1.36E+03	8.41E+01	3.39E+01	2.58E+03	6.44E+01	1.60E+02

To calculate allocation proportion of national emissions to county, divide number of county unit within an industry category by total (national) number of units within that category

A = Residential Heating: Anthracite Coal; SCC 2104001000

B = Residential Heating: Bituminous Lignite; SCC 2104002000

C = Residential Heating: Distillate Oil; SCC 2104004000

D = Residential Heating: Natural Gas; 2104006000

E = Fireplaces; SCC 2104008001

F = Fireplaces: Inserts; SCC 2104008002

G = Fireplaces: Inserts; non catalytic, EPA certified; SCC 2104008003

H = Fireplaces: Inserts; catalytic, EPA certified; SCC 2104008004

I = Conventional Woodstoves; SCC 2104008010

J = Catalytic Woodstoves; SCC 2104008030

K = Non-Catalytic Woodstoves; SCC 2104008050

Appendix E-3. Residential Heating County Allocations

State FIPS	County FIPS	A	B	C	D	E	F	G	H	I	J	K
		tons coal	tons coal	MMBTU	MMBTU	tons wood	tons wood	tons wood	tons wood	tons wood	tons wood	tons wood
37	167			1.88E+03	2.10E+02	6.59E+02	2.82E+03	1.75E+02	7.05E+01	5.35E+03	1.34E+02	3.32E+02
37	169		5.00E+01	1.13E+03	7.58E+00	3.98E+02	1.70E+03	1.05E+02	4.26E+01	3.23E+03	8.08E+01	2.00E+02
37	171		6.50E+02	2.40E+03	2.37E+00	7.22E+02	3.09E+03	1.91E+02	7.72E+01	5.87E+03	1.47E+02	3.63E+02
37	173		4.75E+02	2.96E+02	2.60E+00	1.55E+02	6.63E+02	4.11E+01	1.66E+01	1.26E+03	3.15E+01	7.80E+01
37	175		7.50E+02	6.02E+02	1.56E+02	3.56E+02	1.52E+03	9.43E+01	3.81E+01	2.89E+03	7.23E+01	1.79E+02
37	177			8.73E+01	6.78E-01	4.78E+01	2.05E+02	1.27E+01	5.12E+00	3.89E+02	9.72E+00	2.41E+01
37	179		3.25E+02	1.42E+03	2.89E+02	9.18E+02	3.93E+03	2.43E+02	9.82E+01	7.46E+03	1.86E+02	4.62E+02
37	181		2.25E+02	8.99E+02	2.76E+02	4.11E+02	1.76E+03	1.09E+02	4.39E+01	3.34E+03	8.34E+01	2.07E+02
37	183		1.50E+03	2.67E+03	6.48E+03	3.66E+03	7.37E+03	4.56E+02	1.84E+02	6.28E+03	1.57E+02	3.89E+02
37	185		3.25E+02	4.57E+02	1.06E+01	2.19E+02	9.39E+02	5.82E+01	2.35E+01	1.78E+03	4.46E+01	1.10E+02
37	187			3.68E+02	6.56E+00	1.46E+02	6.24E+02	3.86E+01	1.56E+01	1.18E+03	2.96E+01	7.34E+01
37	189		1.53E+03	1.17E+03	3.05E+00	4.29E+02	1.84E+03	1.14E+02	4.59E+01	3.49E+03	8.72E+01	2.16E+02
37	191		3.50E+02	1.62E+03	4.37E+02	9.27E+02	3.97E+03	2.46E+02	9.92E+01	7.54E+03	1.88E+02	4.67E+02
37	193		6.50E+02	2.08E+03	5.77E+00	6.62E+02	2.83E+03	1.75E+02	7.08E+01	5.38E+03	1.34E+02	3.33E+02
37	195		2.35E+03	9.26E+02	8.28E+02	6.66E+02	1.34E+03	8.31E+01	3.35E+01	1.14E+03	2.86E+01	7.09E+01
37	197		2.75E+02	1.13E+03	1.47E+00	3.70E+02	1.58E+03	9.80E+01	3.95E+01	3.00E+03	7.51E+01	1.86E+02
37	199		6.50E+02	8.44E+02	1.24E+00	2.01E+02	8.62E+02	5.34E+01	2.15E+01	1.64E+03	4.09E+01	1.01E+02
38	001		1.07E+03	9.17E+01	1.28E+01	1.34E+02	2.71E+02	1.68E+01	6.77E+00	2.31E+02	5.78E+00	1.43E+01
38	003		5.51E+01	4.88E+02	1.93E+02	5.10E+02	1.03E+03	6.36E+01	2.57E+01	8.76E+02	2.19E+01	5.43E+01
38	005		1.32E+02	4.84E+02	3.34E+00	1.58E+02	6.76E+02	4.19E+01	1.69E+01	1.28E+03	3.21E+01	7.95E+01
38	007		4.19E+02	1.67E+01	6.91E-01	2.33E+01	9.96E+01	6.17E+00	2.49E+00	1.89E+02	4.73E+00	1.17E+01
38	009		7.49E+02	3.91E+02	1.84E+00	4.64E+02	9.34E+02	5.79E+01	2.33E+01	7.97E+02	1.99E+01	4.94E+01
38	011		4.96E+02	3.43E+00	8.30E+01	1.68E+02	3.38E+02	2.09E+01	8.44E+00	2.88E+02	7.20E+00	1.78E+01
38	013		2.02E+03	1.20E+02	6.68E+00	1.75E+02	3.52E+02	2.18E+01	8.80E+00	3.00E+02	7.50E+00	1.86E+01
38	015		2.35E+03	8.53E+01	2.05E+03	1.54E+03	3.10E+03	1.92E+02	7.74E+01	2.64E+03	6.60E+01	1.64E+02
38	017		2.64E+02	2.92E+03	1.63E+03	2.51E+03	5.05E+03	3.13E+02	1.26E+02	4.31E+03	1.08E+02	2.67E+02
38	019		5.51E+01	3.10E+02	7.37E+01	3.06E+02	6.17E+02	3.82E+01	1.54E+01	5.26E+02	1.32E+01	3.26E+01
38	021		9.92E+01	4.66E+02	4.61E-01	2.62E+02	5.28E+02	3.27E+01	1.32E+01	4.50E+02	1.13E+01	2.79E+01
38	023		2.18E+03	1.78E+02	2.30E-01	1.75E+02	3.52E+02	2.18E+01	8.80E+00	3.00E+02	7.51E+00	1.86E+01
38	025		1.28E+03	8.34E+01	1.23E+01	9.42E+01	4.03E+02	2.50E+01	1.01E+01	7.65E+02	1.91E+01	4.74E+01
38	027		3.75E+02	7.21E+01	7.60E+01	1.47E+02	2.95E+02	1.83E+01	7.38E+00	2.52E+02	6.29E+00	1.56E+01
38	029		2.20E+02	5.38E+02	4.61E-01	1.20E+02	5.14E+02	3.18E+01	1.29E+01	9.76E+02	2.44E+01	6.05E+01
38	031		3.75E+02	1.23E+02	8.33E+01	1.78E+02	3.58E+02	2.22E+01	8.94E+00	3.05E+02	7.63E+00	1.89E+01
38	033		3.20E+02	4.90E+00	5.99E+01	1.02E+02	2.06E+02	1.28E+01	5.15E+00	1.76E+02	4.40E+00	1.09E+01
38	035		2.74E+03	1.83E+03	1.07E+03	1.51E+03	3.03E+03	1.88E+02	7.58E+01	2.59E+03	6.46E+01	1.60E+02
38	037		9.59E+02	1.96E+02	5.76E-01	9.85E+01	4.21E+02	2.61E+01	1.05E+01	8.00E+02	2.00E+01	4.96E+01
38	039		1.76E+02	3.33E+02		1.69E+02	3.41E+02	2.11E+01	8.52E+00	2.91E+02	7.27E+00	1.80E+01
38	041		7.49E+02	2.21E+01	9.04E+01	1.67E+02	3.37E+02	2.09E+01	8.42E+00	2.87E+02	7.18E+00	1.78E+01
38	043		2.64E+02	1.44E+02	4.48E+01	8.61E+01	3.69E+02	2.28E+01	9.21E+00	7.00E+02	1.75E+01	4.34E+01
38	045		9.92E+01	5.03E+02		1.34E+02	5.71E+02	3.54E+01	1.43E+01	1.08E+03	2.71E+01	6.72E+01
38	047		3.20E+02	3.21E+02	2.30E-01	1.47E+02	2.96E+02	1.83E+01	7.40E+00	2.52E+02	6.31E+00	1.56E+01
38	049		1.59E+03	4.62E+02	8.18E+00	1.74E+02	7.45E+02	4.62E+01	1.86E+01	1.41E+03	3.54E+01	8.76E+01
38	051		1.10E+02	4.67E+02		2.17E+02	4.38E+02	2.71E+01	1.09E+01	3.73E+02	9.34E+00	2.31E+01
38	053		3.75E+02	3.97E+01	8.86E+01	1.40E+02	5.97E+02	3.70E+01	1.49E+01	1.13E+03	2.84E+01	7.03E+01
38	055		3.15E+03	1.18E+02	2.39E+02	5.23E+02	1.05E+03	6.53E+01	2.63E+01	8.99E+02	2.25E+01	5.57E+01
38	057		4.37E+03	1.38E+02	3.46E-01	3.65E+02	7.34E+02	4.55E+01	1.84E+01	6.26E+02	1.57E+01	3.88E+01
38	059		3.57E+03	7.89E+01	7.12E+02	7.54E+02	1.52E+03	9.41E+01	3.80E+01	1.30E+03	3.24E+01	8.03E+01
38	061		8.70E+02	1.10E+02	7.26E+01	3.06E+02	6.17E+02	3.82E+01	1.54E+01	5.26E+02	1.32E+01	3.26E+01

To calculate allocation proportion of national emissions to county, divide number of county unit within an industry category by total (national) number of units within that category

A = Residential Heating: Anthracite Coal; SCC 2104001000

B = Residential Heating: Bituminous Lignite; SCC 2104002000

C = Residential Heating: Distillate Oil; SCC 2104004000

D = Residential Heating: Natural Gas; 2104006000

E = Fireplaces; SCC 2104008001

F = Fireplaces: Inserts; SCC 2104008002

G = Fireplaces: Inserts; non catalytic, EPA certified; SCC 2104008003

H = Fireplaces: Inserts; catalytic, EPA certified; SCC 2104008004

I = Conventional Woodstoves; SCC 2104008010

J = Catalytic Woodstoves; SCC 2104008030

K = Non-Catalytic Woodstoves; SCC 2104008050

Appendix E-3. Residential Heating County Allocations

State FIPS	County FIPS	A	B	C	D	E	F	G	H	I	J	K
		tons coal	tons coal	MMBTU	MMBTU	tons wood	tons wood	tons wood	tons wood	tons wood	tons wood	tons wood
38	063		5.51E+01	3.42E+02	6.91E-01	2.25E+02	4.52E+02	2.80E+01	1.13E+01	3.86E+02	9.64E+00	2.39E+01
38	065		1.94E+03	3.43E+01	6.91E-01	4.62E+01	1.98E+02	1.23E+01	4.94E+00	3.76E+02	9.39E+00	2.33E+01
38	067		2.20E+01	5.51E+02	8.60E+01	4.26E+02	8.58E+02	5.32E+01	2.15E+01	7.32E+02	1.83E+01	4.54E+01
38	069		4.74E+02	4.55E+02	3.46E-01	2.25E+02	4.52E+02	2.80E+01	1.13E+01	3.86E+02	9.64E+00	2.39E+01
38	071		7.71E+01	3.60E+02	2.90E+02	4.48E+02	9.02E+02	5.59E+01	2.26E+01	7.70E+02	1.92E+01	4.77E+01
38	073		6.61E+01	5.07E+02		2.61E+02	5.25E+02	3.25E+01	1.31E+01	4.48E+02	1.12E+01	2.77E+01
38	075		2.64E+02	7.21E+01	7.03E+00	1.51E+02	3.04E+02	1.88E+01	7.59E+00	2.59E+02	6.48E+00	1.61E+01
38	077		1.32E+02	9.71E+02	1.54E+02	6.25E+02	1.26E+03	7.80E+01	3.15E+01	1.07E+03	2.69E+01	6.66E+01
38	079		2.31E+02	4.12E+02	9.21E+00	2.24E+02	9.57E+02	5.93E+01	2.39E+01	1.82E+03	4.55E+01	1.13E+02
38	081			4.34E+02	2.30E-01	2.13E+02	4.29E+02	2.66E+01	1.07E+01	3.66E+02	9.15E+00	2.27E+01
38	083		5.18E+02	1.25E+02		5.98E+01	2.56E+02	1.59E+01	6.40E+00	4.86E+02	1.21E+01	3.01E+01
38	085		1.54E+02	5.15E+01	4.61E-01	5.26E+01	2.25E+02	1.39E+01	5.63E+00	4.27E+02	1.07E+01	2.65E+01
38	087		1.21E+02	4.90E+00	6.45E+00	2.68E+01	1.15E+02	7.10E+00	2.86E+00	2.18E+02	5.44E+00	1.35E+01
38	089		2.36E+03	3.63E+01	6.37E+02	8.16E+02	1.64E+03	1.02E+02	4.11E+01	1.40E+03	3.50E+01	8.69E+01
38	091			1.67E+02		6.78E+01	2.90E+02	1.80E+01	7.25E+00	5.51E+02	1.38E+01	3.41E+01
38	093		5.18E+02	5.18E+02	5.91E+02	8.07E+02	1.62E+03	1.01E+02	4.06E+01	1.39E+03	3.47E+01	8.59E+01
38	095		1.65E+02	2.38E+02		1.69E+02	3.40E+02	2.11E+01	8.50E+00	2.90E+02	7.25E+00	1.80E+01
38	097		6.61E+01	7.16E+02		3.56E+02	7.17E+02	4.44E+01	1.79E+01	6.11E+02	1.53E+01	3.79E+01
38	099			5.55E+02	1.66E+02	5.68E+02	1.14E+03	7.08E+01	2.86E+01	9.75E+02	2.44E+01	6.04E+01
38	101		3.66E+03	3.56E+02	1.82E+03	1.60E+03	3.22E+03	2.00E+02	8.05E+01	2.75E+03	6.87E+01	1.70E+02
38	103		6.94E+02	4.24E+02	1.84E+00	2.86E+02	5.77E+02	3.57E+01	1.44E+01	4.92E+02	1.23E+01	3.05E+01
38	105		1.49E+03	5.15E+01	6.06E+02	7.86E+02	1.58E+03	9.80E+01	3.95E+01	1.35E+03	3.37E+01	8.36E+01
39	001	5.75E+00	3.61E+02	9.32E+02	1.75E+02	2.36E+02	1.01E+03	6.27E+01	2.53E+01	1.92E+03	4.80E+01	1.19E+02
39	003	9.89E+00	6.20E+02	8.05E+02	2.92E+03	1.11E+03	2.23E+03	1.38E+02	5.58E+01	1.90E+03	4.76E+01	1.18E+02
39	005	9.43E+00	5.91E+02	1.10E+03	1.15E+03	4.82E+02	9.70E+02	6.01E+01	2.43E+01	8.28E+02	2.07E+01	5.13E+01
39	007	9.81E+00	6.15E+02	2.45E+03	2.71E+03	1.09E+03	2.19E+03	1.35E+02	5.47E+01	1.87E+03	4.66E+01	1.16E+02
39	009	2.66E+01	1.67E+03	5.02E+02	1.23E+03	4.68E+02	9.43E+02	5.84E+01	2.36E+01	8.05E+02	2.01E+01	4.98E+01
39	011	6.59E+00	4.13E+02	4.59E+02	9.85E+02	4.74E+02	9.54E+02	5.91E+01	2.39E+01	8.14E+02	2.03E+01	5.04E+01
39	013	6.07E+01	3.81E+03	2.21E+03	1.68E+03	8.00E+02	1.61E+03	9.98E+01	4.03E+01	1.37E+03	3.43E+01	8.51E+01
39	015	5.83E+00	3.65E+02	1.29E+03	2.24E+02	3.17E+02	1.36E+03	8.42E+01	3.40E+01	2.58E+03	6.45E+01	1.60E+02
39	017	7.67E+00	4.81E+02	5.61E+03	6.29E+03	2.67E+03	5.39E+03	3.34E+02	1.35E+02	4.59E+03	1.15E+02	2.85E+02
39	019	2.50E+01	1.57E+03	9.53E+02	3.52E+02	2.86E+02	1.23E+03	7.59E+01	3.06E+01	2.33E+03	5.82E+01	1.44E+02
39	021	9.12E+00	5.72E+02	1.11E+03	5.84E+02	3.48E+02	1.49E+03	9.22E+01	3.72E+01	2.83E+03	7.06E+01	1.75E+02
39	023	6.44E+00	4.04E+02	2.05E+03	4.81E+03	1.47E+03	2.95E+03	1.83E+02	7.38E+01	2.52E+03	6.30E+01	1.56E+02
39	025	7.36E+00	4.61E+02	5.44E+03	1.30E+03	1.20E+03	5.14E+03	3.18E+02	1.28E+02	9.76E+03	2.44E+02	6.05E+02
39	027	3.45E+00	2.16E+02	1.10E+03	5.60E+02	3.64E+02	7.34E+02	4.55E+01	1.83E+01	6.26E+02	1.57E+01	3.88E+01
39	029	8.39E+01	5.26E+03	3.05E+03	2.66E+03	1.09E+03	4.68E+03	2.90E+02	1.17E+02	8.89E+03	2.22E+02	5.51E+02
39	031	1.43E+01	8.99E+02	8.88E+02	7.82E+02	3.60E+02	1.54E+03	9.54E+01	3.85E+01	2.92E+03	7.31E+01	1.81E+02
39	033	5.37E+00	3.36E+02	1.09E+03	1.33E+03	5.22E+02	1.05E+03	6.52E+01	2.63E+01	8.97E+02	2.24E+01	5.56E+01
39	035	4.75E+00	2.98E+02	1.83E+03	5.65E+04	1.21E+04	2.43E+04	1.51E+03	6.07E+02	2.07E+04	5.18E+02	1.28E+03
39	037	3.83E+00	2.40E+02	1.36E+03	8.30E+02	5.55E+02	2.37E+03	1.47E+02	5.93E+01	4.51E+03	1.13E+02	2.79E+02
39	039	1.30E+00	8.17E+01	9.01E+02	6.07E+02	4.10E+02	8.25E+02	5.11E+01	2.06E+01	7.04E+02	1.76E+01	4.36E+01
39	041	5.83E+00	3.65E+02	1.85E+03	1.25E+03	6.26E+02	2.68E+03	1.66E+02	6.70E+01	5.09E+03	1.27E+02	3.15E+02
39	043	3.07E+00	1.92E+02	6.74E+02	2.35E+03	8.36E+02	1.68E+03	1.04E+02	4.21E+01	1.44E+03	3.59E+01	8.90E+01
39	045	2.03E+01	1.27E+03	1.71E+03	2.28E+03	1.04E+03	4.46E+03	2.77E+02	1.12E+02	8.48E+03	2.12E+02	5.25E+02
39	047	3.68E+00	2.31E+02	5.41E+02	5.63E+02	2.98E+02	6.01E+02	3.72E+01	1.50E+01	5.12E+02	1.28E+01	3.17E+01
39	049	8.82E+00	5.53E+02	3.18E+03	3.40E+04	7.79E+03	1.57E+04	9.71E+02	3.92E+02	1.34E+04	3.34E+02	8.29E+02
39	051	2.53E+00	1.59E+02	3.80E+02	8.31E+02	3.70E+02	1.58E+03	9.82E+01	3.96E+01	3.01E+03	7.52E+01	1.86E+02

To calculate allocation proportion of national emissions to county, divide number of county unit within an industry category by total (national) number of units within that category

A = Residential Heating: Anthracite Coal; SCC 2104001000

B = Residential Heating: Bituminous Lignite; SCC 2104002000

C = Residential Heating: Distillate Oil; SCC 2104004000

D = Residential Heating: Natural Gas; 2104006000

E = Fireplaces; SCC 2104008001

F = Fireplaces: Inserts; SCC 2104008002

G = Fireplaces: Inserts; non catalytic, EPA certified; SCC 2104008003

H = Fireplaces: Inserts; catalytic, EPA certified; SCC 2104008004

I = Conventional Woodstoves; SCC 2104008010

J = Catalytic Woodstoves; SCC 2104008030

K = Non-Catalytic Woodstoves; SCC 2104008050

Appendix E-3. Residential Heating County Allocations

State FIPS	County FIPS	A	B	C	D	E	F	G	H	I	J	K
		tons coal	tons coal	MMBTU	MMBTU	tons wood	tons wood	tons wood	tons wood	tons wood	tons wood	tons wood
39	053	2.22E+01	1.39E+03	6.47E+02	4.03E+02	2.80E+02	1.20E+03	7.43E+01	3.00E+01	2.28E+03	5.69E+01	1.41E+02
39	055	1.74E+01	1.09E+03	4.15E+03	1.11E+03	7.88E+02	3.37E+03	2.09E+02	8.43E+01	6.41E+03	1.60E+02	3.97E+02
39	057	8.51E+00	5.34E+02	2.54E+03	2.69E+03	1.35E+03	2.71E+03	1.68E+02	6.79E+01	2.32E+03	5.79E+01	1.43E+02
39	059	5.90E+00	3.70E+02	6.89E+02	8.82E+02	4.03E+02	1.72E+03	1.07E+02	4.31E+01	3.27E+03	8.18E+01	2.03E+02
39	061	2.17E+01	1.36E+03	6.20E+03	2.77E+04	6.99E+03	1.41E+04	8.72E+02	3.52E+02	1.20E+04	3.00E+02	7.44E+02
39	063	6.82E+00	4.28E+02	5.43E+02	1.72E+03	6.80E+02	1.37E+03	8.48E+01	3.42E+01	1.17E+03	2.92E+01	7.24E+01
39	065	5.52E+00	3.46E+02	3.33E+02	6.44E+02	3.22E+02	6.48E+02	4.01E+01	1.62E+01	5.53E+02	1.38E+01	3.42E+01
39	067	2.64E+01	1.65E+03	6.80E+02	2.57E+02	1.80E+02	7.70E+02	4.77E+01	1.92E+01	1.46E+03	3.65E+01	9.06E+01
39	069	2.38E+00	1.49E+02	3.97E+02	6.40E+02	3.13E+02	6.31E+02	3.91E+01	1.58E+01	5.38E+02	1.35E+01	3.33E+01
39	071	6.59E+00	4.13E+02	1.28E+03	4.26E+02	3.52E+02	1.51E+03	9.34E+01	3.77E+01	2.86E+03	7.16E+01	1.77E+02
39	073	1.72E+01	1.08E+03	3.87E+02	4.86E+02	2.57E+02	1.10E+03	6.81E+01	2.75E+01	2.09E+03	5.22E+01	1.29E+02
39	075	1.89E+01	1.18E+03	4.57E+02	5.12E+02	2.52E+02	1.08E+03	6.68E+01	2.69E+01	2.05E+03	5.12E+01	1.27E+02
39	077	6.06E+00	3.80E+02	8.91E+02	1.25E+03	5.40E+02	1.09E+03	6.73E+01	2.72E+01	9.27E+02	2.32E+01	5.74E+01
39	079	6.39E+01	4.00E+03	4.98E+02	5.96E+02	3.14E+02	1.34E+03	8.33E+01	3.36E+01	2.55E+03	6.38E+01	1.58E+02
39	081	5.16E+01	3.24E+03	3.06E+03	1.81E+03	8.95E+02	1.80E+03	1.12E+02	4.51E+01	1.54E+03	3.84E+01	9.53E+01
39	083	7.59E+00	4.76E+02	7.43E+02	1.07E+03	4.77E+02	2.04E+03	1.27E+02	5.11E+01	3.88E+03	9.70E+01	2.40E+02
39	085	4.29E+00	2.69E+02	2.34E+03	7.40E+03	2.18E+03	4.39E+03	2.72E+02	1.10E+02	3.75E+03	9.37E+01	2.32E+02
39	087	5.24E+01	3.28E+03	6.52E+02	1.17E+03	6.15E+02	2.63E+03	1.63E+02	6.58E+01	4.99E+03	1.25E+02	3.09E+02
39	089	1.10E+01	6.87E+02	1.67E+03	3.34E+03	1.32E+03	2.65E+03	1.64E+02	6.63E+01	2.26E+03	5.65E+01	1.40E+02
39	091	6.82E+00	4.28E+02	8.98E+02	7.97E+02	4.77E+02	2.04E+03	1.27E+02	5.11E+01	3.88E+03	9.70E+01	2.40E+02
39	093	1.20E+01	7.55E+02	1.49E+03	8.25E+03	2.62E+03	5.28E+03	3.27E+02	1.32E+02	4.51E+03	1.13E+02	2.79E+02
39	095	5.90E+00	3.70E+02	2.38E+03	1.60E+04	4.44E+03	8.95E+03	5.54E+02	2.24E+02	7.63E+03	1.91E+02	4.73E+02
39	097	4.45E+00	2.79E+02	8.93E+02	6.52E+02	3.12E+02	1.33E+03	8.26E+01	3.33E+01	2.53E+03	6.33E+01	1.57E+02
39	099	2.97E+01	1.87E+03	2.82E+03	9.34E+03	2.69E+03	1.15E+04	7.12E+02	2.87E+02	2.18E+04	5.46E+02	1.35E+03
39	101	1.00E+01	6.30E+02	8.39E+02	1.84E+03	6.83E+02	1.38E+03	8.53E+01	3.44E+01	1.17E+03	2.94E+01	7.27E+01
39	103	7.28E+00	4.57E+02	2.02E+03	3.12E+03	1.22E+03	2.45E+03	1.52E+02	6.12E+01	2.09E+03	5.22E+01	1.29E+02
39	105	1.63E+01	1.02E+03	3.41E+02	3.76E+02	2.34E+02	1.00E+03	6.21E+01	2.51E+01	1.90E+03	4.76E+01	1.18E+02
39	107	4.37E+00	2.74E+02	7.85E+02	6.49E+02	4.24E+02	8.53E+02	5.28E+01	2.13E+01	7.28E+02	1.82E+01	4.51E+01
39	109	3.83E+00	2.40E+02	1.78E+03	2.22E+03	1.01E+03	2.04E+03	1.26E+02	5.09E+01	1.74E+03	4.34E+01	1.08E+02
39	111	2.76E+00	1.73E+02	2.84E+02	3.78E+02	1.71E+02	7.33E+02	4.54E+01	1.83E+01	1.39E+03	3.48E+01	8.62E+01
39	113	1.29E+01	8.08E+02	3.16E+03	1.80E+04	5.54E+03	1.12E+04	6.91E+02	2.79E+02	9.51E+03	2.38E+02	5.89E+02
39	115	7.97E+00	5.00E+02	2.73E+02	2.49E+02	1.61E+02	6.91E+02	4.28E+01	1.73E+01	1.31E+03	3.28E+01	8.12E+01
39	117	7.74E+00	4.86E+02	1.26E+03	2.32E+02	2.49E+02	1.07E+03	6.60E+01	2.66E+01	2.02E+03	5.06E+01	1.25E+02
39	119	1.66E+01	1.04E+03	1.06E+03	2.03E+03	7.83E+02	3.35E+03	2.08E+02	8.38E+01	6.37E+03	1.59E+02	3.94E+02
39	121	4.37E+00	2.74E+02	1.31E+02	2.78E+02	1.23E+02	5.28E+02	3.27E+01	1.32E+01	1.00E+03	2.51E+01	6.22E+01
39	123	4.06E+00	2.55E+02	7.93E+02	9.06E+02	5.18E+02	2.22E+03	1.37E+02	5.54E+01	4.21E+03	1.05E+02	2.61E+02
39	125	2.38E+00	1.49E+02	4.62E+02	1.99E+02	2.10E+02	8.97E+02	5.56E+01	2.24E+01	1.70E+03	4.26E+01	1.06E+02
39	127	3.12E+01	1.96E+03	4.17E+02	6.78E+02	3.04E+02	1.30E+03	8.05E+01	3.25E+01	2.47E+03	6.17E+01	1.53E+02
39	129	1.07E+01	6.73E+02	1.10E+03	8.28E+02	3.93E+02	1.68E+03	1.04E+02	4.21E+01	3.20E+03	7.99E+01	1.98E+02
39	131	7.21E+00	4.52E+02	6.92E+02	2.54E+02	2.20E+02	9.42E+02	5.84E+01	2.36E+01	1.79E+03	4.47E+01	1.11E+02
39	133	1.74E+01	1.09E+03	3.78E+03	3.37E+03	1.11E+03	4.76E+03	2.95E+02	1.19E+02	9.05E+03	2.26E+02	5.60E+02
39	135	2.61E+00	1.63E+02	1.49E+03	4.92E+02	4.24E+02	1.81E+03	1.12E+02	4.53E+01	3.44E+03	8.61E+01	2.13E+02
39	137	4.37E+00	2.74E+02	7.59E+02	3.02E+02	3.25E+02	1.39E+03	8.61E+01	3.48E+01	2.64E+03	6.60E+01	1.64E+02
39	139	1.58E+01	9.90E+02	2.36E+03	3.55E+03	1.30E+03	2.62E+03	1.62E+02	6.55E+01	2.23E+03	5.59E+01	1.38E+02
39	141	1.31E+01	8.22E+02	1.88E+03	1.06E+03	6.11E+02	2.61E+03	1.62E+02	6.53E+01	4.96E+03	1.24E+02	3.07E+02
39	143	5.14E+00	3.22E+02	5.99E+02	1.59E+03	6.32E+02	1.27E+03	7.88E+01	3.18E+01	1.09E+03	2.71E+01	6.72E+01
39	145	3.14E+01	1.97E+03	1.52E+03	1.47E+03	7.93E+02	3.39E+03	2.10E+02	8.48E+01	6.44E+03	1.61E+02	3.99E+02
39	147	9.66E+00	6.06E+02	9.07E+02	1.37E+03	6.16E+02	1.24E+03	7.68E+01	3.10E+01	1.06E+03	2.64E+01	6.55E+01

To calculate allocation proportion of national emissions to county, divide number of county unit within an industry category by total (national) number of units within that category

A = Residential Heating: Anthracite Coal; SCC 2104001000

B = Residential Heating: Bituminous Lignite; SCC 2104002000

C = Residential Heating: Distillate Oil; SCC 2104004000

D = Residential Heating: Natural Gas; 2104006000

E = Fireplaces; SCC 2104008001

F = Fireplaces: Inserts; SCC 2104008002

G = Fireplaces: Inserts; non catalytic, EPA certified; SCC 2104008003

H = Fireplaces: Inserts; catalytic, EPA certified; SCC 2104008004

I = Conventional Woodstoves; SCC 2104008010

J = Catalytic Woodstoves; SCC 2104008030

K = Non-Catalytic Woodstoves; SCC 2104008050

Appendix E-3. Residential Heating County Allocations

State FIPS	County FIPS	A	B	C	D	E	F	G	H	I	J	K
		tons coal	tons coal	MMBTU	MMBTU	tons wood	tons wood	tons wood	tons wood	tons wood	tons wood	tons wood
39	149	2.99E+00	1.87E+02	8.29E+02	7.23E+02	4.46E+02	8.99E+02	5.57E+01	2.25E+01	7.67E+02	1.92E+01	4.75E+01
39	151	3.20E+01	2.01E+03	4.29E+03	1.25E+04	3.54E+03	1.51E+04	9.38E+02	3.79E+02	2.88E+04	7.19E+02	1.78E+03
39	153	1.10E+01	6.92E+02	3.08E+03	2.00E+04	5.36E+03	1.08E+04	6.68E+02	2.70E+02	9.20E+03	2.30E+02	5.70E+02
39	155	1.71E+01	1.07E+03	3.79E+03	7.49E+03	2.23E+03	9.53E+03	5.90E+02	2.38E+02	1.81E+04	4.52E+02	1.12E+03
39	157	3.53E+01	2.22E+03	1.40E+03	2.33E+03	9.10E+02	1.83E+03	1.14E+02	4.58E+01	1.56E+03	3.91E+01	9.69E+01
39	159	3.68E+00	2.31E+02	7.46E+02	5.12E+02	2.91E+02	1.25E+03	7.72E+01	3.12E+01	2.37E+03	5.92E+01	1.47E+02
39	161	1.99E+00	1.25E+02	4.10E+02	6.10E+02	3.54E+02	7.12E+02	4.41E+01	1.78E+01	6.08E+02	1.52E+01	3.76E+01
39	163	4.02E+01	2.52E+03	2.80E+02	1.14E+02	1.12E+02	4.77E+02	2.96E+01	1.19E+01	9.06E+02	2.27E+01	5.62E+01
39	165	3.83E+00	2.40E+02	3.36E+03	1.55E+03	1.03E+03	4.41E+03	2.73E+02	1.10E+02	8.37E+03	2.09E+02	5.19E+02
39	167	1.61E+00	1.01E+02	2.00E+02	1.98E+03	6.23E+02	2.67E+03	1.65E+02	6.67E+01	5.06E+03	1.27E+02	3.14E+02
39	169	1.53E+01	9.57E+02	2.19E+03	2.34E+03	8.52E+02	3.65E+03	2.26E+02	9.11E+01	6.92E+03	1.73E+02	4.29E+02
39	171	5.52E+00	3.46E+02	5.73E+02	8.63E+02	4.07E+02	8.19E+02	5.08E+01	2.05E+01	6.99E+02	1.75E+01	4.33E+01
39	173	9.89E+00	6.20E+02	8.37E+02	2.98E+03	9.69E+02	1.95E+03	1.21E+02	4.88E+01	1.67E+03	4.16E+01	1.03E+02
39	175	3.91E+00	2.45E+02	4.81E+02	4.48E+02	2.44E+02	4.90E+02	3.04E+01	1.23E+01	4.18E+02	1.05E+01	2.59E+01
40	001		2.64E+01	4.16E-01	1.44E+02	2.18E+02	9.33E+02	5.78E+01	2.33E+01	1.77E+03	4.43E+01	1.10E+02
40	003				1.25E+02	2.56E+02	5.16E+02	3.19E+01	1.29E+01	4.40E+02	1.10E+01	2.73E+01
40	005			3.33E-01	9.08E+01	8.51E+01	3.64E+02	2.26E+01	9.10E+00	6.91E+02	1.73E+01	4.28E+01
40	007			5.82E-01	1.22E+02	8.60E+01	3.68E+02	2.28E+01	9.20E+00	6.99E+02	1.75E+01	4.33E+01
40	009			4.99E-01	4.24E+02	2.53E+02	5.09E+02	3.15E+01	1.27E+01	4.34E+02	1.09E+01	2.69E+01
40	011			1.58E+00	2.17E+02	1.60E+02	3.21E+02	1.99E+01	8.04E+00	2.74E+02	6.86E+00	1.70E+01
40	013				4.16E+02	2.20E+02	4.43E+02	2.74E+01	1.11E+01	3.78E+02	9.45E+00	2.34E+01
40	015			1.08E+00	4.90E+02	2.10E+02	4.23E+02	2.62E+01	1.06E+01	3.61E+02	9.02E+00	2.24E+01
40	017			3.08E+00	1.35E+03	8.66E+02	1.74E+03	1.08E+02	4.36E+01	1.49E+03	3.72E+01	9.22E+01
40	019			1.58E+00	7.69E+02	2.99E+02	6.02E+02	3.73E+01	1.50E+01	5.13E+02	1.28E+01	3.18E+01
40	021			1.33E+00	4.30E+02	3.97E+02	1.70E+03	1.05E+02	4.25E+01	3.23E+03	8.06E+01	2.00E+02
40	023				1.76E+02	1.08E+02	2.18E+02	1.35E+01	5.45E+00	1.86E+02	4.65E+00	1.15E+01
40	025				7.61E+01	1.15E+02	2.31E+02	1.43E+01	5.77E+00	1.97E+02	4.93E+00	1.22E+01
40	027			3.83E+00	3.07E+03	1.71E+03	3.45E+03	2.14E+02	8.63E+01	2.94E+03	7.36E+01	1.82E+02
40	029			5.82E-01	9.30E+01	8.72E+01	3.73E+02	2.31E+01	9.33E+00	7.09E+02	1.77E+01	4.39E+01
40	031			1.08E+00	2.02E+03	6.06E+02	1.22E+03	7.57E+01	3.05E+01	1.04E+03	2.60E+01	6.45E+01
40	033			7.49E-01	1.16E+02	5.39E+01	1.09E+02	6.73E+00	2.72E+00	9.27E+01	2.32E+00	5.74E+00
40	035			4.99E-01	1.99E+02	1.78E+02	7.62E+02	4.72E+01	1.90E+01	1.45E+03	3.62E+01	8.96E+01
40	037			3.33E-01	1.12E+03	3.65E+02	7.36E+02	4.56E+01	1.84E+01	6.28E+02	1.57E+01	3.89E+01
40	039			8.32E-01	5.25E+02	1.59E+02	3.21E+02	1.99E+01	8.01E+00	2.73E+02	6.84E+00	1.69E+01
40	041			4.99E-01	1.74E+02	4.27E+02	1.83E+03	1.13E+02	4.57E+01	3.47E+03	8.67E+01	2.15E+02
40	043		3.96E+01	1.66E-01	5.46E+01	8.28E+01	1.67E+02	1.03E+01	4.17E+00	1.42E+02	3.56E+00	8.81E+00
40	045				8.57E+01	1.79E+02	3.61E+02	2.24E+01	9.02E+00	3.08E+02	7.70E+00	1.91E+01
40	047			1.58E+00	1.41E+03	4.24E+02	8.53E+02	5.29E+01	2.13E+01	7.28E+02	1.82E+01	4.51E+01
40	049				4.64E+02	1.95E+02	3.93E+02	2.43E+01	9.82E+00	3.35E+02	8.38E+00	2.08E+01
40	051			5.57E+00	6.12E+02	2.72E+02	5.48E+02	3.39E+01	1.37E+01	4.67E+02	1.17E+01	2.90E+01
40	053		1.19E+02	4.99E-01	1.19E+02	5.25E+01	1.06E+02	6.55E+00	2.64E+00	9.02E+01	2.26E+00	5.59E+00
40	055			8.32E-01	1.59E+02	5.32E+01	1.07E+02	6.63E+00	2.68E+00	9.14E+01	2.28E+00	5.66E+00
40	057			6.65E-01	8.56E+01	3.15E+01	6.34E+01	3.93E+00	1.58E+00	5.41E+01	1.35E+00	3.35E+00
40	059		2.64E+01	7.49E-01	8.95E+01	3.45E+01	6.94E+01	4.30E+00	1.74E+00	5.92E+01	1.48E+00	3.67E+00
40	061			1.66E-01	1.54E+02	8.19E+01	3.50E+02	2.17E+01	8.76E+00	6.65E+02	1.66E+01	4.12E+01
40	063		5.28E+01	4.16E-01	2.61E+02	1.00E+02	2.01E+02	1.25E+01	5.03E+00	1.72E+02	4.30E+00	1.06E+01
40	065			1.66E+00	6.60E+02	1.84E+02	3.71E+02	2.30E+01	9.26E+00	3.16E+02	7.90E+00	1.96E+01
40	067				1.50E+02	5.72E+01	1.15E+02	7.14E+00	2.88E+00	9.83E+01	2.46E+00	6.09E+00

To calculate allocation proportion of national emissions to county, divide number of county unit within an industry category by total (national) number of units within that category

A = Residential Heating: Anthracite Coal; SCC 2104001000

B = Residential Heating: Bituminous Lignite; SCC 2104002000

C = Residential Heating: Distillate Oil; SCC 2104004000

D = Residential Heating: Natural Gas; 2104006000

E = Fireplaces; SCC 2104008001

F = Fireplaces: Inserts; SCC 2104008002

G = Fireplaces: Inserts; non catalytic, EPA certified; SCC 2104008003

H = Fireplaces: Inserts; catalytic, EPA certified; SCC 2104008004

I = Conventional Woodstoves; SCC 2104008010

J = Catalytic Woodstoves; SCC 2104008030

K = Non-Catalytic Woodstoves; SCC 2104008050

Appendix E-3. Residential Heating County Allocations

State FIPS	County FIPS	A	B	C	D	E	F	G	H	I	J	K
		tons coal	tons coal	MMBTU	MMBTU	tons wood	tons wood	tons wood	tons wood	tons wood	tons wood	tons wood
40	069			5.82E-01	9.57E+01	1.39E+02	5.95E+02	3.68E+01	1.49E+01	1.13E+03	2.82E+01	6.99E+01
40	071			8.32E-01	1.29E+03	3.64E+02	7.34E+02	4.55E+01	1.83E+01	6.26E+02	1.57E+01	3.88E+01
40	073			4.99E-01	2.23E+02	9.32E+01	1.88E+02	1.16E+01	4.69E+00	1.60E+02	4.00E+00	9.92E+00
40	075			9.98E-01	2.51E+02	9.23E+01	1.86E+02	1.15E+01	4.65E+00	1.59E+02	3.97E+00	9.83E+00
40	077		9.25E+01		1.04E+02	6.82E+01	2.92E+02	1.81E+01	7.30E+00	5.54E+02	1.39E+01	3.43E+01
40	079		5.28E+01	2.74E+00	6.77E+02	2.75E+02	5.53E+02	3.43E+01	1.38E+01	4.72E+02	1.18E+01	2.92E+01
40	081			1.33E+00	3.51E+02	1.99E+02	8.49E+02	5.26E+01	2.12E+01	1.61E+03	4.03E+01	9.99E+01
40	083			4.16E-01	4.53E+02	1.89E+02	8.09E+02	5.01E+01	2.02E+01	1.54E+03	3.84E+01	9.51E+01
40	085			3.33E-01	6.24E+01	5.75E+01	2.46E+02	1.52E+01	6.15E+00	4.67E+02	1.17E+01	2.89E+01
40	087			6.82E+00	2.59E+02	1.47E+02	2.97E+02	1.84E+01	7.42E+00	2.53E+02	6.33E+00	1.57E+01
40	089			4.99E-01	2.96E+02	4.22E+02	1.81E+03	1.12E+02	4.52E+01	3.43E+03	8.58E+01	2.13E+02
40	091			6.65E-01	2.15E+02	1.34E+02	5.74E+02	3.56E+01	1.44E+01	1.09E+03	2.73E+01	6.76E+01
40	093				1.22E+02	1.20E+02	5.13E+02	3.18E+01	1.28E+01	9.74E+02	2.43E+01	6.03E+01
40	095		1.32E+02		1.33E+02	9.94E+01	4.25E+02	2.63E+01	1.06E+01	8.08E+02	2.02E+01	5.00E+01
40	097			3.08E+00	3.84E+02	4.26E+02	1.82E+03	1.13E+02	4.56E+01	3.46E+03	8.65E+01	2.14E+02
40	099				1.89E+02	8.98E+01	1.81E+02	1.12E+01	4.52E+00	1.54E+02	3.86E+00	9.56E+00
40	101			4.41E+00	1.25E+03	4.24E+02	8.54E+02	5.29E+01	2.14E+01	7.29E+02	1.82E+01	4.51E+01
40	103			9.98E-01	1.78E+02	1.49E+02	2.99E+02	1.85E+01	7.48E+00	2.55E+02	6.38E+00	1.58E+01
40	105				1.86E+02	1.25E+02	2.52E+02	1.56E+01	6.29E+00	2.15E+02	5.37E+00	1.33E+01
40	107			6.65E-01	1.72E+02	7.94E+01	3.40E+02	2.10E+01	8.49E+00	6.45E+02	1.61E+01	3.99E+01
40	109			8.98E+00	1.40E+04	3.66E+03	7.36E+03	4.56E+02	1.84E+02	6.28E+03	1.57E+02	3.89E+02
40	111			6.65E-01	7.77E+02	4.78E+02	9.62E+02	5.96E+01	2.40E+01	8.21E+02	2.05E+01	5.08E+01
40	113			1.08E+00	7.73E+02	2.67E+02	5.37E+02	3.33E+01	1.34E+01	4.58E+02	1.14E+01	2.84E+01
40	115			8.32E-01	6.33E+02	1.00E+03	2.01E+03	1.25E+02	5.03E+01	1.72E+03	4.29E+01	1.06E+02
40	117			3.33E-01	2.28E+02	1.07E+02	4.58E+02	2.84E+01	1.14E+01	8.70E+02	2.17E+01	5.39E+01
40	119			1.83E+00	1.31E+03	6.20E+02	1.25E+03	7.73E+01	3.12E+01	1.06E+03	2.66E+01	6.60E+01
40	121		1.58E+02	5.82E-01	7.58E+02	2.92E+02	5.88E+02	3.64E+01	1.47E+01	5.01E+02	1.25E+01	3.11E+01
40	123			1.25E+00	6.23E+02	2.29E+02	4.61E+02	2.85E+01	1.15E+01	3.93E+02	9.82E+00	2.43E+01
40	125			1.41E+00	9.90E+02	7.19E+02	1.45E+03	8.97E+01	3.62E+01	1.23E+03	3.09E+01	7.65E+01
40	127				7.77E+01	8.53E+01	3.65E+02	2.26E+01	9.13E+00	6.93E+02	1.73E+01	4.30E+01
40	129				4.11E+01	6.01E+01	2.57E+02	1.59E+01	6.43E+00	4.89E+02	1.22E+01	3.03E+01
40	131			7.49E-01	9.28E+02	6.21E+02	2.66E+03	1.65E+02	6.65E+01	5.05E+03	1.26E+02	3.13E+02
40	133			8.32E-01	4.43E+02	1.81E+02	3.64E+02	2.25E+01	9.10E+00	3.10E+02	7.76E+00	1.92E+01
40	135				3.86E+02	2.09E+02	8.92E+02	5.53E+01	2.23E+01	1.69E+03	4.24E+01	1.05E+02
40	137			1.58E+00	8.75E+02	3.23E+02	6.50E+02	4.03E+01	1.62E+01	5.54E+02	1.39E+01	3.44E+01
40	139				4.18E+02	4.70E+02	9.47E+02	5.87E+01	2.37E+01	8.08E+02	2.02E+01	5.01E+01
40	141			4.16E-01	2.37E+02	8.08E+01	1.63E+02	1.01E+01	4.07E+00	1.39E+02	3.47E+00	8.61E+00
40	143			3.41E+00	1.23E+04	2.95E+03	5.94E+03	3.68E+02	1.48E+02	5.07E+03	1.27E+02	3.14E+02
40	145			1.66E+00	8.33E+02	2.96E+02	1.27E+03	7.86E+01	3.17E+01	2.41E+03	6.02E+01	1.49E+02
40	147			1.66E+00	1.23E+03	6.34E+02	1.28E+03	7.91E+01	3.19E+01	1.09E+03	2.72E+01	6.75E+01
40	149				2.34E+02	1.69E+02	3.41E+02	2.11E+01	8.52E+00	2.91E+02	7.27E+00	1.80E+01
40	151				2.39E+02	3.49E+02	7.02E+02	4.35E+01	1.75E+01	5.99E+02	1.50E+01	3.71E+01
40	153			6.65E-01	3.65E+02	5.46E+02	1.10E+03	6.81E+01	2.75E+01	9.37E+02	2.34E+01	5.81E+01
41	001			1.80E+02	2.00E+02	1.94E+02	3.91E+02	2.42E+01	9.77E+00	3.34E+02	8.34E+00	2.07E+01
41	003			1.87E+02	1.20E+03	1.36E+03	2.74E+03	1.70E+02	6.86E+01	2.34E+03	5.85E+01	1.45E+02
41	005			2.65E+03	4.36E+03	2.88E+03	1.23E+04	7.64E+02	3.08E+02	2.34E+04	5.86E+02	1.45E+03
41	007			4.96E+02	4.89E+02	1.03E+03	2.07E+03	1.28E+02	5.18E+01	1.77E+03	4.41E+01	1.09E+02
41	009			3.27E+02	2.53E+02	3.85E+02	1.65E+03	1.02E+02	4.11E+01	3.13E+03	7.81E+01	1.94E+02

To calculate allocation proportion of national emissions to county, divide number of county unit within an industry category by total (national) number of units within that category

A = Residential Heating: Anthracite Coal; SCC 2104001000

B = Residential Heating: Bituminous Lignite; SCC 2104002000

C = Residential Heating: Distillate Oil; SCC 2104004000

D = Residential Heating: Natural Gas; 2104006000

E = Fireplaces; SCC 2104008001

F = Fireplaces: Inserts; SCC 2104008002

G = Fireplaces: Inserts; non catalytic, EPA certified; SCC 2104008003

H = Fireplaces: Inserts; catalytic, EPA certified; SCC 2104008004

I = Conventional Woodstoves; SCC 2104008010

J = Catalytic Woodstoves; SCC 2104008030

K = Non-Catalytic Woodstoves; SCC 2104008050

Appendix E-3. Residential Heating County Allocations

State FIPS	County FIPS	A	B	C	D	E	F	G	H	I	J	K
		tons coal	tons coal	MMBTU	MMBTU	tons wood	tons wood	tons wood	tons wood	tons wood	tons wood	tons wood
41	011			6.29E+02	1.95E+01	1.57E+03	3.17E+03	1.96E+02	7.92E+01	2.70E+03	6.76E+01	1.68E+02
41	013			9.04E+01	1.15E+02	2.52E+02	1.08E+03	6.69E+01	2.70E+01	2.05E+03	5.12E+01	1.27E+02
41	015			2.24E+01		1.99E+02	8.52E+02	5.28E+01	2.13E+01	1.62E+03	4.05E+01	1.00E+02
41	017			2.35E+02	4.83E+02	1.54E+03	6.59E+03	4.08E+02	1.65E+02	1.25E+04	3.13E+02	7.76E+02
41	019			5.47E+02	6.91E+02	9.15E+02	3.91E+03	2.42E+02	9.78E+01	7.43E+03	1.86E+02	4.60E+02
41	021			4.54E+01		2.81E+01	5.66E+01	3.51E+00	1.41E+00	4.83E+01	1.21E+00	2.99E+00
41	023			1.06E+02		2.99E+02	6.01E+02	3.72E+01	1.50E+01	5.13E+02	1.28E+01	3.18E+01
41	025			1.27E+02	1.15E+00	7.67E+01	1.55E+02	9.58E+00	3.86E+00	1.32E+02	3.30E+00	8.17E+00
41	027			1.95E+02	9.59E+01	1.75E+02	7.49E+02	4.64E+01	1.87E+01	1.42E+03	3.56E+01	8.82E+01
41	029			5.33E+02	1.81E+03	3.40E+03	6.84E+03	4.24E+02	1.71E+02	5.83E+03	1.46E+02	3.61E+02
41	031			9.62E+01	5.67E+01	1.12E+02	4.79E+02	2.97E+01	1.20E+01	9.10E+02	2.28E+01	5.64E+01
41	033			2.39E+02	5.32E+02	6.79E+02	2.90E+03	1.80E+02	7.26E+01	5.51E+03	1.38E+02	3.42E+02
41	035			3.80E+02	8.08E+02	1.10E+03	4.70E+03	2.91E+02	1.18E+02	8.93E+03	2.23E+02	5.53E+02
41	037			6.41E+01		7.30E+01	3.12E+02	1.94E+01	7.81E+00	5.93E+02	1.48E+01	3.67E+01
41	039			9.41E+02	1.49E+03	6.34E+03	1.28E+04	7.91E+02	3.19E+02	1.09E+04	2.72E+02	6.75E+02
41	041			1.19E+02	3.07E+02	1.25E+03	2.51E+03	1.56E+02	6.28E+01	2.14E+03	5.35E+01	1.33E+02
41	043			3.75E+02	1.40E+03	8.68E+02	1.75E+03	1.08E+02	4.37E+01	1.49E+03	3.73E+01	9.24E+01
41	045			2.59E+02	3.01E+02	2.58E+02	5.19E+02	3.22E+01	1.30E+01	4.43E+02	1.11E+01	2.74E+01
41	047			1.70E+03	3.67E+03	4.97E+03	1.00E+04	6.20E+02	2.50E+02	8.54E+03	2.14E+02	5.29E+02
41	049			6.82E+01	3.15E+00	6.47E+01	1.30E+02	8.07E+00	3.26E+00	1.11E+02	2.78E+00	6.89E+00
41	051			1.30E+04	1.21E+04	1.41E+04	2.84E+04	1.76E+03	7.11E+02	2.43E+04	6.07E+02	1.50E+03
41	053			3.27E+02	4.67E+02	4.72E+02	9.51E+02	5.89E+01	2.38E+01	8.11E+02	2.03E+01	5.03E+01
41	055			6.14E+01	2.87E-01	2.13E+01	4.29E+01	2.66E+00	1.07E+00	3.66E+01	9.15E-01	2.27E+00
41	057			1.11E+02	2.01E+00	3.71E+02	1.59E+03	9.82E+01	3.96E+01	3.01E+03	7.53E+01	1.87E+02
41	059			3.58E+02	6.31E+02	5.33E+02	1.07E+03	6.65E+01	2.68E+01	9.15E+02	2.29E+01	5.67E+01
41	061			1.70E+02	3.78E+02	8.25E+02	1.66E+03	1.03E+02	4.15E+01	1.42E+03	3.54E+01	8.78E+01
41	063			1.10E+02	7.17E-01	3.66E+02	7.36E+02	4.56E+01	1.84E+01	6.28E+02	1.57E+01	3.89E+01
41	065			1.60E+02	9.03E+01	2.27E+02	4.57E+02	2.83E+01	1.14E+01	3.90E+02	9.74E+00	2.41E+01
41	067			1.75E+03	6.67E+03	6.66E+03	1.34E+04	8.31E+02	3.35E+02	1.14E+04	2.86E+02	7.09E+02
41	069			1.66E+01		1.86E+01	7.95E+01	4.92E+00	1.99E+00	1.51E+02	3.77E+00	9.35E+00
41	071			3.48E+02	3.76E+02	1.38E+03	2.77E+03	1.72E+02	6.94E+01	2.37E+03	5.92E+01	1.47E+02
42	001	9.92E+02	2.39E+02	6.07E+03	8.92E+02	7.00E+02	3.00E+03	1.86E+02	7.49E+01	5.69E+03	1.42E+02	3.52E+02
42	003	9.81E+02	2.37E+02	6.57E+03	5.21E+04	1.25E+04	2.52E+04	1.56E+03	6.31E+02	2.15E+04	5.38E+02	1.33E+03
42	005	1.97E+03	4.76E+02	2.20E+03	2.28E+03	7.75E+02	3.32E+03	2.06E+02	8.30E+01	6.30E+03	1.58E+02	3.90E+02
42	007	8.10E+02	1.96E+02	8.60E+03	5.46E+03	1.82E+03	7.79E+03	4.83E+02	1.95E+02	1.48E+04	3.70E+02	9.16E+02
42	009	3.39E+03	8.18E+02	6.46E+03	3.17E+01	5.21E+02	2.23E+03	1.38E+02	5.58E+01	4.24E+03	1.06E+02	2.62E+02
42	011	8.18E+03	1.97E+03	4.16E+04	3.78E+03	2.30E+03	9.83E+03	6.09E+02	2.46E+02	1.87E+04	4.66E+02	1.16E+03
42	013	4.16E+03	1.00E+03	7.45E+03	3.30E+03	1.36E+03	2.74E+03	1.70E+02	6.85E+01	2.34E+03	5.84E+01	1.45E+02
42	015	1.11E+03	2.68E+02	5.37E+03	6.71E+02	5.99E+02	2.56E+03	1.59E+02	6.41E+01	4.87E+03	1.22E+02	3.02E+02
42	017	2.31E+03	5.57E+02	5.69E+04	5.20E+03	4.22E+03	1.80E+04	1.12E+03	4.51E+02	3.43E+04	8.57E+02	2.12E+03
42	019	1.37E+03	3.32E+02	6.54E+03	3.85E+03	1.37E+03	5.88E+03	3.64E+02	1.47E+02	1.12E+04	2.79E+02	6.92E+02
42	021	1.66E+04	4.01E+03	1.14E+04	3.15E+03	1.54E+03	6.58E+03	4.08E+02	1.64E+02	1.25E+04	3.12E+02	7.74E+02
42	023	9.30E+01	2.24E+01	2.84E+02	1.49E+02	1.98E+02	8.48E+02	5.25E+01	2.12E+01	1.61E+03	4.02E+01	9.97E+01
42	025	1.02E+04	2.46E+03	7.12E+03	1.45E+02	5.91E+02	1.19E+03	7.38E+01	2.98E+01	1.02E+03	2.54E+01	6.29E+01
42	027	6.71E+03	1.62E+03	1.04E+04	5.81E+02	8.46E+02	3.62E+03	2.24E+02	9.05E+01	6.88E+03	1.72E+02	4.26E+02
42	029	1.91E+03	4.62E+02	4.08E+04	2.76E+03	2.84E+03	1.21E+04	7.53E+02	3.04E+02	2.31E+04	5.77E+02	1.43E+03
42	031	6.75E+02	1.63E+02	9.44E+02	1.18E+03	4.27E+02	1.83E+03	1.13E+02	4.57E+01	3.47E+03	8.68E+01	2.15E+02
42	033	1.29E+04	3.13E+03	8.20E+03	7.09E+02	1.61E+03	6.91E+03	4.28E+02	1.73E+02	1.31E+04	3.28E+02	8.13E+02

To calculate allocation proportion of national emissions to county, divide number of county unit within an industry category by total (national) number of units within that category

A = Residential Heating: Anthracite Coal; SCC 2104001000

B = Residential Heating: Bituminous Lignite; SCC 2104002000

C = Residential Heating: Distillate Oil; SCC 2104004000

D = Residential Heating: Natural Gas; 2104006000

E = Fireplaces; SCC 2104008001

F = Fireplaces: Inserts; SCC 2104008002

G = Fireplaces: Inserts; non catalytic, EPA certified; SCC 2104008003

H = Fireplaces: Inserts; catalytic, EPA certified; SCC 2104008004

I = Conventional Woodstoves; SCC 2104008010

J = Catalytic Woodstoves; SCC 2104008030

K = Non-Catalytic Woodstoves; SCC 2104008050

Appendix E-3. Residential Heating County Allocations

State FIPS	County FIPS	A	B	C	D	E	F	G	H	I	J	K
		tons coal	tons coal	MMBTU	MMBTU	tons wood	tons wood	tons wood	tons wood	tons wood	tons wood	tons wood
42	035	2.14E+03	5.16E+02	5.31E+03	8.57E+01	3.48E+02	1.49E+03	9.24E+01	3.73E+01	2.83E+03	7.08E+01	1.75E+02
42	037	4.17E+03	1.01E+03	6.84E+03	4.82E+02	5.57E+02	2.38E+03	1.48E+02	5.96E+01	4.53E+03	1.13E+02	2.80E+02
42	039	2.39E+02	5.77E+01	4.44E+03	1.87E+03	9.22E+02	3.95E+03	2.45E+02	9.87E+01	7.50E+03	1.87E+02	4.64E+02
42	041	3.47E+03	8.39E+02	1.92E+04	1.57E+03	1.58E+03	6.75E+03	4.18E+02	1.69E+02	1.28E+04	3.20E+02	7.94E+02
42	043	7.87E+03	1.90E+03	2.46E+04	2.64E+03	1.65E+03	7.05E+03	4.37E+02	1.76E+02	1.34E+04	3.35E+02	8.30E+02
42	045	3.10E+02	7.48E+01	4.41E+04	1.19E+04	3.38E+03	1.45E+04	8.97E+02	3.62E+02	2.75E+04	6.87E+02	1.70E+03
42	047	1.47E+03	3.55E+02	6.81E+02	1.01E+03	1.52E+03	3.07E+03	1.90E+02	7.67E+01	2.62E+03	6.54E+01	1.62E+02
42	049	2.17E+02	5.24E+01	2.65E+03	9.25E+03	2.46E+03	4.95E+03	3.07E+02	1.24E+02	4.22E+03	1.06E+02	2.62E+02
42	051	8.62E+03	2.08E+03	1.24E+04	2.66E+03	1.40E+03	5.98E+03	3.71E+02	1.50E+02	1.14E+04	2.84E+02	7.04E+02
42	053	1.33E+01	3.21E+00	1.88E+02	1.15E+02	2.12E+02	9.07E+02	5.62E+01	2.27E+01	1.72E+03	4.31E+01	1.07E+02
42	055	1.39E+03	3.35E+02	1.20E+04	7.80E+02	1.08E+03	4.60E+03	2.85E+02	1.15E+02	8.74E+03	2.18E+02	5.41E+02
42	057	2.32E+02	5.61E+01	1.62E+03	1.41E+00	1.47E+02	6.30E+02	3.90E+01	1.57E+01	1.20E+03	2.99E+01	7.41E+01
42	059	7.15E+02	1.73E+02	1.81E+03	9.37E+02	3.68E+02	1.58E+03	9.77E+01	3.94E+01	2.99E+03	7.48E+01	1.85E+02
42	061	2.19E+03	5.28E+02	5.85E+03	9.20E+01	4.38E+02	1.87E+03	1.16E+02	4.68E+01	3.56E+03	8.89E+01	2.20E+02
42	063	3.65E+03	8.81E+02	4.97E+03	1.70E+03	7.89E+02	3.37E+03	2.09E+02	8.44E+01	6.41E+03	1.60E+02	3.97E+02
42	065	2.46E+03	5.93E+02	1.31E+03	1.35E+03	5.16E+02	2.21E+03	1.37E+02	5.52E+01	4.19E+03	1.05E+02	2.60E+02
42	067	5.64E+02	1.36E+02	2.68E+03	5.41E-01	2.03E+02	8.69E+02	5.39E+01	2.17E+01	1.65E+03	4.13E+01	1.02E+02
42	069	1.23E+04	2.96E+03	1.33E+04	4.61E+03	1.86E+03	3.75E+03	2.32E+02	9.37E+01	3.20E+03	7.99E+01	1.98E+02
42	071	1.49E+04	3.59E+03	4.03E+04	2.88E+03	3.27E+03	1.40E+04	8.68E+02	3.50E+02	2.66E+04	6.65E+02	1.65E+03
42	073	1.38E+03	3.34E+02	5.86E+03	2.49E+03	9.65E+02	4.13E+03	2.56E+02	1.03E+02	7.84E+03	1.96E+02	4.86E+02
42	075	4.47E+03	1.08E+03	1.64E+04	7.04E+02	8.40E+02	3.59E+03	2.23E+02	8.98E+01	6.82E+03	1.71E+02	4.23E+02
42	077	8.02E+03	1.94E+03	2.83E+04	2.81E+03	1.94E+03	3.91E+03	2.42E+02	9.78E+01	3.34E+03	8.34E+01	2.07E+02
42	079	2.58E+04	6.24E+03	2.62E+04	5.37E+03	2.86E+03	5.75E+03	3.57E+02	1.44E+02	4.91E+03	1.23E+02	3.04E+02
42	081	4.97E+03	1.20E+03	1.41E+04	1.05E+03	1.06E+03	4.55E+03	2.82E+02	1.14E+02	8.64E+03	2.16E+02	5.35E+02
42	083	2.88E+01	6.95E+00	2.36E+02	1.64E+03	1.03E+03	4.39E+03	2.72E+02	1.10E+02	8.34E+03	2.08E+02	5.17E+02
42	085	7.90E+02	1.91E+02	5.31E+03	3.40E+03	1.27E+03	2.57E+03	1.59E+02	6.42E+01	2.19E+03	5.47E+01	1.36E+02
42	087	1.25E+03	3.01E+02	6.44E+03	2.14E+02	4.13E+02	1.77E+03	1.09E+02	4.41E+01	3.35E+03	8.38E+01	2.08E+02
42	089	4.82E+03	1.16E+03	8.74E+03	2.19E+02	1.46E+03	6.25E+03	3.87E+02	1.56E+02	1.19E+04	2.96E+02	7.35E+02
42	091	2.88E+03	6.95E+02	6.09E+04	1.15E+04	4.92E+03	2.11E+04	1.31E+03	5.27E+02	4.00E+04	1.00E+03	2.48E+03
42	093	8.37E+02	2.02E+02	1.52E+03	1.43E+02	1.40E+02	6.00E+02	3.72E+01	1.50E+01	1.14E+03	2.85E+01	7.06E+01
42	095	6.17E+03	1.49E+03	2.63E+04	2.35E+03	1.93E+03	3.88E+03	2.41E+02	9.71E+01	3.31E+03	8.28E+01	2.05E+02
42	097	1.21E+04	2.93E+03	1.11E+04	8.41E+02	7.08E+02	3.03E+03	1.88E+02	7.57E+01	5.75E+03	1.44E+02	3.56E+02
42	099	1.87E+03	4.53E+02	5.46E+03	1.62E+00	3.94E+02	1.69E+03	1.05E+02	4.22E+01	3.20E+03	8.01E+01	1.99E+02
42	101	2.34E+03	5.64E+02	5.46E+04	5.05E+04	3.22E+03	6.48E+03	4.01E+02	1.62E+02	5.52E+03	1.38E+02	3.42E+02
42	103	8.88E+02	2.14E+02	2.23E+03	1.38E+02	8.10E+02	3.47E+03	2.15E+02	8.66E+01	6.58E+03	1.65E+02	4.08E+02
42	105	6.42E+01	1.55E+01	1.45E+02	4.48E+02	5.20E+02	2.22E+03	1.38E+02	5.56E+01	4.22E+03	1.06E+02	2.62E+02
42	107	3.55E+04	8.57E+03	2.04E+04	1.77E+02	1.14E+03	2.30E+03	1.43E+02	5.76E+01	1.96E+03	4.91E+01	1.22E+02
42	109	2.48E+03	5.99E+02	3.71E+03	1.21E+02	3.25E+02	1.39E+03	8.61E+01	3.48E+01	2.64E+03	6.60E+01	1.64E+02
42	111	1.53E+04	3.68E+03	8.41E+03	4.43E+02	8.15E+02	3.49E+03	2.16E+02	8.72E+01	6.62E+03	1.66E+02	4.10E+02
42	113	3.45E+02	8.34E+01	7.76E+02	2.16E-01	2.69E+02	1.15E+03	7.13E+01	2.88E+01	2.18E+03	5.46E+01	1.35E+02
42	115	1.76E+03	4.24E+02	5.11E+03	2.16E+00	9.25E+02	3.96E+03	2.45E+02	9.90E+01	7.52E+03	1.88E+02	4.66E+02
42	117	4.69E+02	1.13E+02	5.49E+02	1.10E+03	8.20E+02	3.51E+03	2.17E+02	8.77E+01	6.66E+03	1.67E+02	4.13E+02
42	119	2.17E+03	5.25E+02	3.52E+03	3.69E+01	2.93E+02	1.26E+03	7.78E+01	3.14E+01	2.38E+03	5.96E+01	1.48E+02
42	121	3.21E+02	7.75E+01	1.23E+03	1.77E+03	6.45E+02	2.76E+03	1.71E+02	6.90E+01	5.24E+03	1.31E+02	3.25E+02
42	123	2.43E+01	5.88E+00	6.83E+02	1.32E+03	4.96E+02	2.12E+03	1.32E+02	5.31E+01	4.03E+03	1.01E+02	2.50E+02
42	125	2.61E+03	6.30E+02	7.95E+03	5.53E+03	2.04E+03	8.71E+03	5.40E+02	2.18E+02	1.65E+04	4.14E+02	1.03E+03
42	127	1.70E+03	4.10E+02	4.20E+03	1.73E+02	1.34E+03	5.72E+03	3.54E+02	1.43E+02	1.09E+04	2.71E+02	6.72E+02
42	129	5.05E+03	1.22E+03	1.98E+04	9.94E+03	3.75E+03	1.60E+04	9.94E+02	4.01E+02	3.05E+04	7.61E+02	1.89E+03

To calculate allocation proportion of national emissions to county, divide number of county unit within an industry category by total (national) number of units within that category

A = Residential Heating: Anthracite Coal; SCC 2104001000

B = Residential Heating: Bituminous Lignite; SCC 2104002000

C = Residential Heating: Distillate Oil; SCC 2104004000

D = Residential Heating: Natural Gas; 2104006000

E = Fireplaces; SCC 2104008001

F = Fireplaces: Inserts; SCC 2104008002

G = Fireplaces: Inserts; non catalytic, EPA certified; SCC 2104008003

H = Fireplaces: Inserts; catalytic, EPA certified; SCC 2104008004

I = Conventional Woodstoves; SCC 2104008010

J = Catalytic Woodstoves; SCC 2104008030

K = Non-Catalytic Woodstoves; SCC 2104008050

Appendix E-3. Residential Heating County Allocations

State FIPS	County FIPS	A	B	C	D	E	F	G	H	I	J	K
		tons coal	tons coal	MMBTU	MMBTU	tons wood	tons wood	tons wood	tons wood	tons wood	tons wood	tons wood
42	131	1.43E+03	3.45E+02	3.50E+03	1.81E+01	5.45E+02	2.33E+03	1.44E+02	5.83E+01	4.42E+03	1.11E+02	2.74E+02
42	133	3.73E+03	9.02E+02	2.48E+04	6.47E+03	3.10E+03	1.33E+04	8.22E+02	3.32E+02	2.52E+04	6.30E+02	1.56E+03
44	001	4.27E+01		7.06E+03	6.97E+02	4.46E+02	8.97E+02	5.56E+01	2.24E+01	7.66E+02	1.91E+01	4.74E+01
44	003	2.16E+02		2.20E+04	2.87E+03	1.58E+03	3.18E+03	1.97E+02	7.95E+01	2.71E+03	6.78E+01	1.68E+02
44	005	2.43E+02		1.56E+04	7.44E+02	7.35E+02	3.14E+03	1.95E+02	7.86E+01	5.97E+03	1.49E+02	3.70E+02
44	007	4.12E+02		7.33E+04	1.18E+04	3.69E+03	7.43E+03	4.61E+02	1.86E+02	6.34E+03	1.59E+02	3.93E+02
44	009	2.86E+02		1.56E+04	8.42E+02	1.34E+03	2.69E+03	1.67E+02	6.72E+01	2.29E+03	5.73E+01	1.42E+02
45	001		5.72E+02	1.77E+02	1.75E+02	2.67E+02	1.14E+03	7.08E+01	2.86E+01	2.17E+03	5.43E+01	1.34E+02
45	003			2.25E+02	1.80E+03	7.00E+02	2.99E+03	1.86E+02	7.49E+01	5.69E+03	1.42E+02	3.52E+02
45	005			2.22E+01	1.11E+02	6.24E+01	1.26E+02	7.79E+00	3.14E+00	1.07E+02	2.68E+00	6.65E+00
45	007		9.81E+03	8.62E+02	1.37E+03	1.67E+03	7.15E+03	4.43E+02	1.79E+02	1.36E+04	3.40E+02	8.42E+02
45	009			3.57E+01	1.26E+02	8.77E+01	1.77E+02	1.09E+01	4.42E+00	1.51E+02	3.77E+00	9.34E+00
45	011			5.61E+01	1.78E+02	1.03E+02	2.08E+02	1.29E+01	5.20E+00	1.78E+02	4.44E+00	1.10E+01
45	013			1.09E+02	3.33E+02	4.79E+02	2.05E+03	1.27E+02	5.13E+01	3.90E+03	9.74E+01	2.41E+02
45	015			2.39E+02	4.92E+02	5.55E+02	2.37E+03	1.47E+02	5.93E+01	4.51E+03	1.13E+02	2.79E+02
45	017			6.29E+01	9.58E+00	7.72E+01	3.30E+02	2.05E+01	8.25E+00	6.27E+02	1.57E+01	3.88E+01
45	019		1.39E+03	5.09E+02	3.14E+03	1.30E+03	2.62E+03	1.62E+02	6.55E+01	2.24E+03	5.59E+01	1.39E+02
45	021		6.21E+03	4.42E+02	3.54E+02	4.76E+02	2.04E+03	1.26E+02	5.10E+01	3.87E+03	9.68E+01	2.40E+02
45	023		2.62E+03	3.46E+02	2.46E+02	3.57E+02	1.53E+03	9.48E+01	3.82E+01	2.90E+03	7.26E+01	1.80E+02
45	025		1.63E+02	5.12E+02	1.24E+02	4.08E+02	1.74E+03	1.08E+02	4.36E+01	3.31E+03	8.28E+01	2.05E+02
45	027			1.82E+02	1.77E+01	1.59E+02	6.82E+02	4.23E+01	1.71E+01	1.30E+03	3.24E+01	8.02E+01
45	029			1.07E+02	2.10E+02	2.12E+02	9.05E+02	5.61E+01	2.26E+01	1.72E+03	4.30E+01	1.06E+02
45	031		1.14E+03	6.60E+02	1.63E+02	3.42E+02	1.46E+03	9.07E+01	3.66E+01	2.78E+03	6.95E+01	1.72E+02
45	033		4.41E+03	2.11E+02	1.26E+02	2.95E+02	1.26E+03	7.82E+01	3.16E+01	2.40E+03	5.99E+01	1.49E+02
45	035			9.63E+01	4.26E+02	4.08E+02	1.74E+03	1.08E+02	4.36E+01	3.31E+03	8.28E+01	2.05E+02
45	037			9.29E+01	1.17E+02	1.96E+02	8.41E+02	5.21E+01	2.10E+01	1.60E+03	3.99E+01	9.89E+01
45	039			1.92E+02	1.17E+02	2.36E+02	1.01E+03	6.27E+01	2.53E+01	1.92E+03	4.80E+01	1.19E+02
45	041		2.37E+03	8.32E+02	3.51E+02	5.95E+02	2.55E+03	1.58E+02	6.37E+01	4.84E+03	1.21E+02	3.00E+02
45	043		7.36E+02	2.66E+02	1.91E+02	2.80E+02	1.20E+03	7.42E+01	3.00E+01	2.28E+03	5.69E+01	1.41E+02
45	045		2.09E+04	3.56E+03	2.84E+03	3.33E+03	1.43E+04	8.84E+02	3.57E+02	2.71E+04	6.77E+02	1.68E+03
45	047		1.47E+03	3.20E+02	7.55E+02	6.77E+02	2.90E+03	1.79E+02	7.24E+01	5.50E+03	1.38E+02	3.41E+02
45	049			3.56E+01	1.24E+02	9.71E+01	1.96E+02	1.21E+01	4.89E+00	1.67E+02	4.17E+00	1.03E+01
45	051			5.33E+02	1.96E+02	7.83E+02	3.35E+03	2.08E+02	8.38E+01	6.37E+03	1.59E+02	3.94E+02
45	053			3.33E+01	1.67E+01	8.90E+01	3.81E+02	2.36E+01	9.52E+00	7.23E+02	1.81E+01	4.48E+01
45	055			3.58E+02	3.10E+02	4.71E+02	2.01E+03	1.25E+02	5.04E+01	3.83E+03	9.57E+01	2.37E+02
45	057		1.39E+03	6.06E+02	3.68E+02	6.20E+02	2.65E+03	1.64E+02	6.63E+01	5.03E+03	1.26E+02	3.12E+02
45	059		1.80E+03	4.89E+02	6.49E+02	6.08E+02	2.60E+03	1.61E+02	6.50E+01	4.94E+03	1.23E+02	3.06E+02
45	061		6.54E+02	1.86E+02	4.92E+01	1.71E+02	7.31E+02	4.53E+01	1.83E+01	1.39E+03	3.47E+01	8.60E+01
45	063			5.64E+02	1.54E+03	9.32E+02	3.99E+03	2.47E+02	9.97E+01	7.57E+03	1.89E+02	4.69E+02
45	065		6.54E+02	9.49E+01	4.03E+00	8.72E+01	3.73E+02	2.31E+01	9.33E+00	7.09E+02	1.77E+01	4.39E+01
45	067		1.14E+03	2.39E+02	1.78E+02	1.92E+02	8.20E+02	5.08E+01	2.05E+01	1.56E+03	3.89E+01	9.64E+01
45	069		3.27E+02	3.19E+02	1.73E+02	1.67E+02	7.13E+02	4.42E+01	1.78E+01	1.35E+03	3.39E+01	8.39E+01
45	071		1.80E+03	2.17E+02	3.70E+02	3.99E+02	1.71E+03	1.06E+02	4.27E+01	3.24E+03	8.11E+01	2.01E+02
45	073			3.95E+02	3.76E+02	6.62E+02	2.83E+03	1.75E+02	7.08E+01	5.38E+03	1.34E+02	3.33E+02
45	075			1.77E+02	6.37E+02	4.48E+02	1.92E+03	1.19E+02	4.79E+01	3.64E+03	9.09E+01	2.25E+02
45	077		1.72E+03	8.64E+02	6.29E+02	9.12E+02	3.90E+03	2.42E+02	9.76E+01	7.41E+03	1.85E+02	4.59E+02
45	079		1.96E+03	5.83E+02	3.67E+03	1.37E+03	5.86E+03	3.63E+02	1.47E+02	1.11E+04	2.78E+02	6.90E+02
45	081		7.36E+02	1.49E+02	6.62E+01	1.97E+02	8.41E+02	5.21E+01	2.10E+01	1.60E+03	3.99E+01	9.89E+01

To calculate allocation proportion of national emissions to county, divide number of county unit within an industry category by total (national) number of units within that category

A = Residential Heating: Anthracite Coal; SCC 2104001000

B = Residential Heating: Bituminous Lignite; SCC 2104002000

C = Residential Heating: Distillate Oil; SCC 2104004000

D = Residential Heating: Natural Gas; 2104006000

E = Fireplaces; SCC 2104008001

F = Fireplaces: Inserts; SCC 2104008002

G = Fireplaces: Inserts; non catalytic, EPA certified; SCC 2104008003

H = Fireplaces: Inserts; catalytic, EPA certified; SCC 2104008004

I = Conventional Woodstoves; SCC 2104008010

J = Catalytic Woodstoves; SCC 2104008030

K = Non-Catalytic Woodstoves; SCC 2104008050

Appendix E-3. Residential Heating County Allocations

State FIPS	County FIPS	A	B	C	D	E	F	G	H	I	J	K
		tons coal	tons coal	MMBTU	MMBTU	tons wood	tons wood	tons wood	tons wood	tons wood	tons wood	tons wood
45	083		1.40E+04	2.75E+03	1.29E+03	2.42E+03	1.03E+04	6.41E+02	2.58E+02	1.96E+04	4.91E+02	1.22E+03
45	085			7.32E+02	3.08E+02	4.53E+02	1.94E+03	1.20E+02	4.85E+01	3.68E+03	9.20E+01	2.28E+02
45	087		9.81E+02	2.82E+02	3.33E+02	3.56E+02	1.52E+03	9.45E+01	3.81E+01	2.89E+03	7.24E+01	1.79E+02
45	089			2.97E+02	5.49E+01	3.40E+02	1.46E+03	9.02E+01	3.64E+01	2.77E+03	6.91E+01	1.71E+02
45	091		4.00E+03	1.23E+03	8.96E+02	1.30E+03	5.56E+03	3.44E+02	1.39E+02	1.06E+04	2.64E+02	6.54E+02
46	003		1.43E+00	1.26E+02		7.83E+01	3.35E+02	2.07E+01	8.37E+00	6.36E+02	1.59E+01	3.94E+01
46	005			2.16E+02	4.75E+02	7.44E+02	1.50E+03	9.28E+01	3.74E+01	1.28E+03	3.19E+01	7.92E+01
46	007			2.73E+01	1.72E+00	5.73E+01	2.45E+02	1.52E+01	6.13E+00	4.66E+02	1.16E+01	2.89E+01
46	009			4.31E+02	2.26E+00	3.31E+02	6.66E+02	4.13E+01	1.66E+01	5.68E+02	1.42E+01	3.52E+01
46	011			2.68E+02	4.43E+02	7.47E+02	1.51E+03	9.33E+01	3.76E+01	1.28E+03	3.21E+01	7.96E+01
46	013			6.27E+02	8.58E+02	1.21E+03	2.44E+03	1.51E+02	6.10E+01	2.08E+03	5.21E+01	1.29E+02
46	015		1.43E+01	2.27E+02	1.08E-01	1.93E+02	3.89E+02	2.41E+01	9.72E+00	3.32E+02	8.29E+00	2.06E+01
46	017			1.09E+01	2.15E-01	2.94E+01	1.26E+02	7.81E+00	3.15E+00	2.39E+02	5.98E+00	1.48E+01
46	019		1.79E+01	4.91E+01	1.53E+02	2.91E+02	5.86E+02	3.63E+01	1.47E+01	5.00E+02	1.25E+01	3.10E+01
46	021		5.74E+00	1.55E+02	6.57E+00	5.14E+01	2.20E+02	1.36E+01	5.49E+00	4.17E+02	1.04E+01	2.59E+01
46	023			3.87E+02	5.38E-01	1.99E+02	8.50E+02	5.27E+01	2.13E+01	1.61E+03	4.04E+01	1.00E+02
46	025			5.64E+01	7.31E+01	1.13E+02	4.82E+02	2.98E+01	1.20E+01	9.15E+02	2.29E+01	5.67E+01
46	027			1.20E+02	3.09E+02	3.71E+02	7.48E+02	4.63E+01	1.87E+01	6.38E+02	1.60E+01	3.95E+01
46	029		2.87E+00	1.56E+02	5.91E+02	8.21E+02	1.65E+03	1.02E+02	4.13E+01	1.41E+03	3.53E+01	8.74E+01
46	031		1.22E+01	8.15E+01	3.23E-01	7.86E+01	3.36E+02	2.08E+01	8.41E+00	6.39E+02	1.60E+01	3.96E+01
46	033		1.51E+01	6.95E+01	4.31E-01	1.28E+02	5.46E+02	3.38E+01	1.37E+01	1.04E+03	2.59E+01	6.43E+01
46	035		8.61E+00	2.89E+02	4.82E+02	6.32E+02	1.27E+03	7.89E+01	3.18E+01	1.09E+03	2.72E+01	6.73E+01
46	037			4.42E+02		4.12E+02	8.29E+02	5.14E+01	2.07E+01	7.07E+02	1.77E+01	4.38E+01
46	039		5.74E+00	1.36E+02		1.24E+02	5.30E+02	3.28E+01	1.33E+01	1.01E+03	2.52E+01	6.24E+01
46	041		7.17E+00	1.13E+02	2.15E-01	8.79E+01	3.76E+02	2.33E+01	9.41E+00	7.15E+02	1.79E+01	4.43E+01
46	043		2.15E+00	2.11E+02		8.44E+01	3.61E+02	2.24E+01	9.03E+00	6.86E+02	1.71E+01	4.25E+01
46	045		9.32E+00	2.85E+02		2.10E+02	4.23E+02	2.62E+01	1.06E+01	3.61E+02	9.02E+00	2.24E+01
46	047		1.72E+01	1.63E+02	7.21E+00	2.99E+02	6.02E+02	3.73E+01	1.50E+01	5.13E+02	1.28E+01	3.18E+01
46	049			1.53E+02		6.66E+01	2.85E+02	1.77E+01	7.13E+00	5.41E+02	1.35E+01	3.35E+01
46	051			4.63E+02	2.15E-01	3.46E+02	6.96E+02	4.31E+01	1.74E+01	5.94E+02	1.48E+01	3.68E+01
46	053		2.87E+00	2.27E+02	2.15E-01	2.67E+02	5.38E+02	3.33E+01	1.35E+01	4.59E+02	1.15E+01	2.84E+01
46	055		7.89E+00	3.49E+01		5.14E+01	2.20E+02	1.36E+01	5.49E+00	4.17E+02	1.04E+01	2.59E+01
46	057		1.43E+00	1.55E+02	2.81E+01	2.74E+02	5.51E+02	3.41E+01	1.38E+01	4.70E+02	1.18E+01	2.91E+01
46	059		2.15E+00	1.21E+02		1.09E+02	4.66E+02	2.89E+01	1.17E+01	8.86E+02	2.21E+01	5.49E+01
46	061			1.23E+02	1.91E+01	7.14E+01	3.06E+02	1.89E+01	7.64E+00	5.80E+02	1.45E+01	3.60E+01
46	063		6.45E+00	2.51E+01	3.01E+00	3.66E+01	1.57E+02	9.70E+00	3.91E+00	2.97E+02	7.43E+00	1.84E+01
46	065		2.87E+00	6.35E+02	8.08E+00	4.61E+02	9.28E+02	5.75E+01	2.32E+01	7.92E+02	1.98E+01	4.91E+01
46	067		1.22E+01	6.76E+02	8.61E-01	4.10E+02	8.26E+02	5.12E+01	2.06E+01	7.05E+02	1.76E+01	4.36E+01
46	069		1.43E+00	8.15E+01	3.23E-01	4.43E+01	1.89E+02	1.17E+01	4.74E+00	3.60E+02	8.99E+00	2.23E+01
46	071			5.06E+01	8.61E-01	5.49E+01	2.35E+02	1.45E+01	5.87E+00	4.46E+02	1.11E+01	2.76E+01
46	073		1.43E+00	6.81E+01		1.30E+02	2.63E+02	1.63E+01	6.57E+00	2.24E+02	5.60E+00	1.39E+01
46	075			5.24E+01	2.15E-01	6.23E+01	1.25E+02	7.77E+00	3.13E+00	1.07E+02	2.67E+00	6.63E+00
46	077		7.17E-01	1.38E+02	1.05E+02	2.86E+02	5.76E+02	3.57E+01	1.44E+01	4.91E+02	1.23E+01	3.04E+01
46	079			1.18E+02	2.04E+02	4.60E+02	9.25E+02	5.73E+01	2.31E+01	7.89E+02	1.97E+01	4.89E+01
46	081		3.44E+01	6.19E+00	5.32E+02	6.94E+02	1.40E+03	8.66E+01	3.50E+01	1.19E+03	2.98E+01	7.39E+01
46	083			2.45E+02	2.35E+02	6.28E+02	1.26E+03	7.83E+01	3.16E+01	1.08E+03	2.70E+01	6.68E+01
46	085			7.39E+01	6.46E-01	7.25E+01	3.10E+02	1.92E+01	7.75E+00	5.89E+02	1.47E+01	3.65E+01
46	087			1.77E+02	6.68E+01	2.56E+02	5.16E+02	3.20E+01	1.29E+01	4.40E+02	1.10E+01	2.73E+01

To calculate allocation proportion of national emissions to county, divide number of county unit within an industry category by total (national) number of units within that category

A = Residential Heating: Anthracite Coal; SCC 2104001000

B = Residential Heating: Bituminous Lignite; SCC 2104002000

C = Residential Heating: Distillate Oil; SCC 2104004000

D = Residential Heating: Natural Gas; 2104006000

E = Fireplaces; SCC 2104008001

F = Fireplaces: Inserts; SCC 2104008002

G = Fireplaces: Inserts; non catalytic, EPA certified; SCC 2104008003

H = Fireplaces: Inserts; catalytic, EPA certified; SCC 2104008004

I = Conventional Woodstoves; SCC 2104008010

J = Catalytic Woodstoves; SCC 2104008030

K = Non-Catalytic Woodstoves; SCC 2104008050

Appendix E-3. Residential Heating County Allocations

State FIPS	County FIPS	A	B	C	D	E	F	G	H	I	J	K
		tons coal	tons coal	MMBTU	MMBTU	tons wood	tons wood	tons wood	tons wood	tons wood	tons wood	tons wood
46	089		1.08E+01	3.35E+02		1.70E+02	3.42E+02	2.12E+01	8.54E+00	2.92E+02	7.29E+00	1.81E+01
46	091			2.76E+02		1.28E+02	5.49E+02	3.40E+01	1.37E+01	1.04E+03	2.60E+01	6.45E+01
46	093		2.80E+01	3.79E+01	3.67E+02	3.02E+02	1.29E+03	8.00E+01	3.23E+01	2.45E+03	6.13E+01	1.52E+02
46	095			2.37E+01	1.08E+00	4.30E+01	1.84E+02	1.14E+01	4.60E+00	3.50E+02	8.74E+00	2.17E+01
46	097			1.03E+02	3.90E+01	8.46E+01	3.62E+02	2.24E+01	9.05E+00	6.87E+02	1.72E+01	4.26E+01
46	099		5.02E+00	6.56E+02	3.88E+03	3.88E+03	7.82E+03	4.84E+02	1.95E+02	6.67E+03	1.67E+02	4.13E+02
46	101		1.15E+01	2.25E+02	7.52E+01	2.73E+02	5.50E+02	3.41E+01	1.37E+01	4.69E+02	1.17E+01	2.91E+01
46	103		3.30E+01	1.16E+02	2.14E+03	2.47E+03	4.96E+03	3.08E+02	1.24E+02	4.24E+03	1.06E+02	2.62E+02
46	105		5.67E+01	1.07E+02	2.15E-01	1.88E+02	3.78E+02	2.34E+01	9.45E+00	3.22E+02	8.06E+00	2.00E+01
46	107		2.87E+00	2.46E+02		1.42E+02	2.86E+02	1.78E+01	7.16E+00	2.44E+02	6.11E+00	1.51E+01
46	109			4.82E+02	2.15E-01	2.42E+02	1.04E+03	6.42E+01	2.59E+01	1.97E+03	4.92E+01	1.22E+02
46	111			1.30E+02		7.54E+01	3.23E+02	2.00E+01	8.07E+00	6.13E+02	1.53E+01	3.80E+01
46	113			3.97E+01	1.10E+01	1.16E+02	4.98E+02	3.08E+01	1.24E+01	9.45E+02	2.36E+01	5.86E+01
46	115			2.22E+02	1.23E+02	3.42E+02	6.89E+02	4.27E+01	1.72E+01	5.88E+02	1.47E+01	3.64E+01
46	117		1.43E+00	6.81E+01		8.58E+01	1.73E+02	1.07E+01	4.32E+00	1.47E+02	3.68E+00	9.13E+00
46	119			6.41E+01	2.15E-01	7.66E+01	1.54E+02	9.56E+00	3.86E+00	1.32E+02	3.29E+00	8.15E+00
46	121			6.15E+01	1.94E+00	1.21E+02	5.18E+02	3.21E+01	1.30E+01	9.84E+02	2.46E+01	6.10E+01
46	123			1.73E+02		2.92E+02	5.88E+02	3.64E+01	1.47E+01	5.02E+02	1.25E+01	3.11E+01
46	125			4.84E+02	3.56E+01	4.12E+02	8.30E+02	5.14E+01	2.07E+01	7.08E+02	1.77E+01	4.39E+01
46	127			4.73E+01	2.32E+02	4.14E+02	8.34E+02	5.17E+01	2.09E+01	7.12E+02	1.78E+01	4.41E+01
46	129		5.74E+00	4.77E+02	7.54E-01	2.80E+02	5.65E+02	3.50E+01	1.41E+01	4.82E+02	1.20E+01	2.98E+01
46	135			1.81E+02	4.86E+02	6.58E+02	1.33E+03	8.21E+01	3.31E+01	1.13E+03	2.83E+01	7.01E+01
46	137		1.43E+00	2.84E+01		3.84E+01	1.64E+02	1.02E+01	4.10E+00	3.12E+02	7.79E+00	1.93E+01
47	001		2.16E+03	1.35E+02	8.39E+02	1.78E+03	3.59E+03	2.22E+02	8.96E+01	3.06E+03	7.65E+01	1.90E+02
47	003		3.14E+01	3.73E+01	2.92E+02	3.48E+02	7.00E+02	4.34E+01	1.75E+01	5.97E+02	1.49E+01	3.70E+01
47	005			2.18E+01	1.40E+02	1.97E+02	8.44E+02	5.23E+01	2.11E+01	1.60E+03	4.01E+01	9.93E+01
47	007		1.38E+01	1.13E+01	5.73E+01	1.10E+02	4.70E+02	2.91E+01	1.18E+01	8.93E+02	2.23E+01	5.53E+01
47	009		5.31E+02	3.27E+02	1.05E+03	1.04E+03	4.45E+03	2.76E+02	1.11E+02	8.46E+03	2.11E+02	5.24E+02
47	011		1.24E+02	1.80E+02	2.96E+02	7.92E+02	3.39E+03	2.10E+02	8.47E+01	6.44E+03	1.61E+02	3.99E+02
47	013		3.91E+03	1.84E+02	1.78E+02	4.09E+02	1.75E+03	1.08E+02	4.37E+01	3.32E+03	8.30E+01	2.06E+02
47	015			9.45E+00	5.24E+01	1.33E+02	5.69E+02	3.52E+01	1.42E+01	1.08E+03	2.70E+01	6.69E+01
47	017			3.21E+01	3.26E+02	3.38E+02	6.81E+02	4.22E+01	1.70E+01	5.81E+02	1.45E+01	3.60E+01
47	019		1.78E+03	2.77E+02	1.72E+02	5.77E+02	2.47E+03	1.53E+02	6.17E+01	4.69E+03	1.17E+02	2.90E+02
47	021		3.14E+01	4.48E+01	3.72E+01	2.90E+02	1.24E+03	7.69E+01	3.10E+01	2.36E+03	5.89E+01	1.46E+02
47	023			7.94E+00	1.27E+02	1.52E+02	6.53E+02	4.04E+01	1.63E+01	1.24E+03	3.10E+01	7.68E+01
47	025		2.11E+03	1.90E+02	6.90E+00	3.04E+02	1.30E+03	8.05E+01	3.25E+01	2.47E+03	6.17E+01	1.53E+02
47	027		1.57E+01	1.64E+01	8.49E-01	9.05E+01	3.87E+02	2.40E+01	9.68E+00	7.35E+02	1.84E+01	4.56E+01
47	029		6.94E+02	1.69E+02	7.79E+01	3.13E+02	1.34E+03	8.30E+01	3.35E+01	2.54E+03	6.36E+01	1.58E+02
47	031		1.18E+01	5.80E+01	3.25E+02	4.48E+02	9.01E+02	5.58E+01	2.25E+01	7.69E+02	1.92E+01	4.76E+01
47	033			1.45E+01	1.66E+02	1.84E+02	7.86E+02	4.87E+01	1.97E+01	1.49E+03	3.73E+01	9.25E+01
47	035		2.02E+02	6.66E+01	2.19E+02	4.17E+02	1.79E+03	1.11E+02	4.46E+01	3.39E+03	8.48E+01	2.10E+02
47	037		7.74E+02	3.99E+02	6.39E+03	4.24E+03	8.54E+03	5.29E+02	2.14E+02	7.29E+03	1.82E+02	4.52E+02
47	039		5.90E+00	1.05E+01	1.75E+02	1.55E+02	6.61E+02	4.10E+01	1.65E+01	1.26E+03	3.14E+01	7.78E+01
47	041		9.83E+00	1.45E+01	2.18E+02	2.01E+02	8.62E+02	5.34E+01	2.16E+01	1.64E+03	4.09E+01	1.01E+02
47	043		1.38E+01	4.26E+01	4.41E+02	3.90E+02	1.67E+03	1.03E+02	4.17E+01	3.17E+03	7.92E+01	1.96E+02
47	045			9.45E+00	7.79E+02	3.98E+02	8.02E+02	4.97E+01	2.00E+01	6.84E+02	1.71E+01	4.24E+01
47	047		1.57E+01	1.66E+01	1.27E+02	2.57E+02	1.10E+03	6.81E+01	2.75E+01	2.09E+03	5.22E+01	1.29E+02
47	049		2.46E+02	2.45E+01	9.18E+01	1.78E+02	7.61E+02	4.71E+01	1.90E+01	1.44E+03	3.61E+01	8.95E+01

To calculate allocation proportion of national emissions to county, divide number of county unit within an industry category by total (national) number of units within that category

A = Residential Heating: Anthracite Coal; SCC 2104001000

B = Residential Heating: Bituminous Lignite; SCC 2104002000

C = Residential Heating: Distillate Oil; SCC 2104004000

D = Residential Heating: Natural Gas; 2104006000

E = Fireplaces; SCC 2104008001

F = Fireplaces: Inserts; SCC 2104008002

G = Fireplaces: Inserts; non catalytic, EPA certified; SCC 2104008003

H = Fireplaces: Inserts; catalytic, EPA certified; SCC 2104008004

I = Conventional Woodstoves; SCC 2104008010

J = Catalytic Woodstoves; SCC 2104008030

K = Non-Catalytic Woodstoves; SCC 2104008050

Appendix E-3. Residential Heating County Allocations

State FIPS	County FIPS	A	B	C	D	E	F	G	H	I	J	K
		tons coal	tons coal	MMBTU	MMBTU	tons wood	tons wood	tons wood	tons wood	tons wood	tons wood	tons wood
47	051		4.72E+01	6.40E+01	1.89E+02	4.19E+02	1.79E+03	1.11E+02	4.48E+01	3.40E+03	8.51E+01	2.11E+02
47	053		2.16E+01	3.35E+01	8.39E+02	1.36E+03	2.74E+03	1.70E+02	6.85E+01	2.34E+03	5.84E+01	1.45E+02
47	055		5.11E+01	3.25E+01	1.69E+02	3.14E+02	1.35E+03	8.34E+01	3.36E+01	2.56E+03	6.39E+01	1.58E+02
47	057		9.67E+02	1.10E+02	7.43E-01	2.13E+02	9.11E+02	5.65E+01	2.28E+01	1.73E+03	4.33E+01	1.07E+02
47	059		8.55E+02	3.73E+02	6.42E+01	6.44E+02	2.76E+03	1.71E+02	6.89E+01	5.24E+03	1.31E+02	3.24E+02
47	061		2.16E+02	2.31E+01	2.03E+01	1.39E+02	2.80E+02	1.74E+01	7.01E+00	2.39E+02	5.98E+00	1.48E+01
47	063		6.90E+02	1.84E+02	3.29E+02	5.67E+02	2.43E+03	1.50E+02	6.07E+01	4.61E+03	1.15E+02	2.86E+02
47	065		8.59E+02	6.90E+02	3.03E+03	2.95E+03	5.94E+03	3.68E+02	1.48E+02	5.07E+03	1.27E+02	3.14E+02
47	067		6.90E+02	2.23E+01	2.12E-01	8.68E+01	3.71E+02	2.30E+01	9.28E+00	7.05E+02	1.76E+01	4.37E+01
47	069			8.32E+00	2.60E+02	2.64E+02	1.13E+03	7.01E+01	2.83E+01	2.15E+03	5.37E+01	1.33E+02
47	071			2.37E+01	2.36E+02	3.02E+02	1.29E+03	8.00E+01	3.23E+01	2.45E+03	6.13E+01	1.52E+02
47	073		1.87E+03	1.61E+02	2.34E+02	5.02E+02	2.15E+03	1.33E+02	5.37E+01	4.08E+03	1.02E+02	2.53E+02
47	075			1.26E+01	3.30E+02	2.16E+02	4.36E+02	2.70E+01	1.09E+01	3.72E+02	9.30E+00	2.30E+01
47	077			8.70E+00	4.86E+02	2.55E+02	1.09E+03	6.76E+01	2.73E+01	2.07E+03	5.18E+01	1.28E+02
47	079			4.26E+01	2.81E+02	3.59E+02	1.53E+03	9.51E+01	3.84E+01	2.91E+03	7.29E+01	1.81E+02
47	081			1.89E+01	1.36E+02	1.94E+02	8.31E+02	5.15E+01	2.08E+01	1.58E+03	3.95E+01	9.78E+01
47	083			3.66E+00	2.02E+01	8.68E+01	3.71E+02	2.30E+01	9.28E+00	7.05E+02	1.76E+01	4.37E+01
47	085			1.84E+01	2.36E+02	2.00E+02	8.55E+02	5.30E+01	2.14E+01	1.62E+03	4.06E+01	1.01E+02
47	087		2.55E+01	2.31E+01	1.41E+01	1.19E+02	5.11E+02	3.17E+01	1.28E+01	9.71E+02	2.43E+01	6.01E+01
47	089		5.31E+02	1.47E+02	1.42E+02	3.76E+02	1.61E+03	9.98E+01	4.03E+01	3.06E+03	7.65E+01	1.89E+02
47	091		3.97E+02	1.38E+02	1.80E+00	1.67E+02	7.16E+02	4.44E+01	1.79E+01	1.36E+03	3.40E+01	8.42E+01
47	093		3.51E+03	8.43E+02	2.63E+03	3.50E+03	7.04E+03	4.36E+02	1.76E+02	6.01E+03	1.50E+02	3.72E+02
47	095			3.03E+00	1.42E+02	7.26E+01	3.11E+02	1.92E+01	7.76E+00	5.90E+02	1.47E+01	3.65E+01
47	097			2.33E+01	4.30E+02	2.60E+02	1.11E+03	6.90E+01	2.78E+01	2.11E+03	5.29E+01	1.31E+02
47	099		2.16E+01	3.15E+01	3.58E+02	4.38E+02	1.88E+03	1.16E+02	4.69E+01	3.56E+03	8.91E+01	2.21E+02
47	101			7.19E+00	1.14E+02	1.06E+02	4.52E+02	2.80E+01	1.13E+01	8.59E+02	2.15E+01	5.32E+01
47	103		7.07E+01	2.50E+01	2.73E+02	3.46E+02	1.48E+03	9.16E+01	3.70E+01	2.81E+03	7.02E+01	1.74E+02
47	105		2.02E+02	1.03E+02	2.63E+02	3.84E+02	1.64E+03	1.02E+02	4.11E+01	3.12E+03	7.80E+01	1.93E+02
47	107		7.07E+01	8.53E+01	3.39E+02	4.93E+02	2.11E+03	1.31E+02	5.27E+01	4.00E+03	1.00E+02	2.48E+02
47	109			1.76E+01	1.61E+02	2.98E+02	1.28E+03	7.90E+01	3.19E+01	2.42E+03	6.06E+01	1.50E+02
47	111			3.14E+01	9.36E+01	2.01E+02	8.59E+02	5.32E+01	2.15E+01	1.63E+03	4.08E+01	1.01E+02
47	113		3.54E+01	3.28E+01	1.62E+03	8.30E+02	1.67E+03	1.04E+02	4.18E+01	1.43E+03	3.57E+01	8.84E+01
47	115		3.75E+02	1.16E+02	1.62E+02	2.75E+02	1.18E+03	7.30E+01	2.95E+01	2.24E+03	5.60E+01	1.39E+02
47	117			2.32E+01	2.14E+02	5.92E+02	1.19E+03	7.38E+01	2.98E+01	1.02E+03	2.54E+01	6.30E+01
47	119		1.43E+02	5.96E+01	7.22E+02	5.98E+02	1.20E+03	7.46E+01	3.01E+01	1.03E+03	2.57E+01	6.36E+01
47	121		2.36E+01	2.24E+01	2.86E+00	9.53E+01	4.08E+02	2.53E+01	1.02E+01	7.74E+02	1.94E+01	4.80E+01
47	123		2.00E+02	9.00E+01	1.44E+02	3.57E+02	1.53E+03	9.47E+01	3.82E+01	2.90E+03	7.26E+01	1.80E+02
47	125		1.40E+02	1.30E+02	6.40E+02	2.20E+03	4.42E+03	2.74E+02	1.11E+02	3.77E+03	9.44E+01	2.34E+02
47	127			3.53E+00	1.09E+01	5.76E+01	1.16E+02	7.19E+00	2.90E+00	9.90E+01	2.48E+00	6.13E+00
47	129		7.47E+02	4.25E+01	2.10E+02	1.86E+02	7.96E+02	4.93E+01	1.99E+01	1.51E+03	3.78E+01	9.36E+01
47	131		1.18E+01	4.00E+01	6.54E+02	8.73E+02	1.76E+03	1.09E+02	4.40E+01	1.50E+03	3.75E+01	9.29E+01
47	133		8.65E+01	6.62E+01	7.83E+01	2.12E+02	9.09E+02	5.63E+01	2.27E+01	1.73E+03	4.32E+01	1.07E+02
47	135			2.27E+00	5.28E+01	9.05E+01	3.87E+02	2.40E+01	9.68E+00	7.35E+02	1.84E+01	4.56E+01
47	137		1.77E+01	1.82E+01	7.11E+00	6.22E+01	2.66E+02	1.65E+01	6.66E+00	5.06E+02	1.26E+01	3.13E+01
47	139		1.83E+02	1.14E+02	1.05E+01	1.60E+02	6.84E+02	4.24E+01	1.71E+01	1.30E+03	3.25E+01	8.04E+01
47	141		7.27E+01	9.33E+01	3.95E+02	1.27E+03	2.55E+03	1.58E+02	6.38E+01	2.18E+03	5.44E+01	1.35E+02
47	143		1.75E+02	4.01E+01	3.64E+02	2.74E+02	1.17E+03	7.27E+01	2.93E+01	2.23E+03	5.57E+01	1.38E+02
47	145		6.29E+02	1.25E+02	3.85E+02	5.62E+02	2.41E+03	1.49E+02	6.01E+01	4.57E+03	1.14E+02	2.83E+02

To calculate allocation proportion of national emissions to county, divide number of county unit within an industry category by total (national) number of units within that category

A = Residential Heating: Anthracite Coal; SCC 2104001000

B = Residential Heating: Bituminous Lignite; SCC 2104002000

C = Residential Heating: Distillate Oil; SCC 2104004000

D = Residential Heating: Natural Gas; 2104006000

E = Fireplaces; SCC 2104008001

F = Fireplaces: Inserts; SCC 2104008002

G = Fireplaces: Inserts; non catalytic, EPA certified; SCC 2104008003

H = Fireplaces: Inserts; catalytic, EPA certified; SCC 2104008004

I = Conventional Woodstoves; SCC 2104008010

J = Catalytic Woodstoves; SCC 2104008030

K = Non-Catalytic Woodstoves; SCC 2104008050

Appendix E-3. Residential Heating County Allocations

State FIPS	County FIPS	A	B	C	D	E	F	G	H	I	J	K
		tons coal	tons coal	MMBTU	MMBTU	tons wood	tons wood	tons wood	tons wood	tons wood	tons wood	tons wood
47	147		1.10E+02	7.83E+01	4.43E+02	1.06E+03	2.13E+03	1.32E+02	5.33E+01	1.82E+03	4.55E+01	1.13E+02
47	149		2.36E+01	1.09E+02	1.09E+03	1.11E+03	2.23E+03	1.38E+02	5.57E+01	1.90E+03	4.75E+01	1.18E+02
47	151		1.18E+03	5.50E+01	2.97E+02	1.89E+02	8.08E+02	5.01E+01	2.02E+01	1.53E+03	3.84E+01	9.51E+01
47	153		3.73E+01	3.29E+01	3.89E+01	9.42E+01	4.03E+02	2.50E+01	1.01E+01	7.65E+02	1.91E+01	4.74E+01
47	155		6.41E+02	2.54E+02	7.27E+01	6.47E+02	2.77E+03	1.72E+02	6.92E+01	5.26E+03	1.31E+02	3.26E+02
47	157		1.18E+01	4.92E+01	2.18E+04	7.47E+03	1.50E+04	9.32E+02	3.76E+02	1.28E+04	3.21E+02	7.95E+02
47	159		7.86E+01	2.87E+01	1.17E+02	1.82E+02	7.77E+02	4.81E+01	1.94E+01	1.48E+03	3.69E+01	9.14E+01
47	161			1.29E+01	2.33E+00	1.23E+02	5.25E+02	3.26E+01	1.31E+01	9.98E+02	2.49E+01	6.18E+01
47	163		3.07E+03	6.44E+02	5.85E+02	1.64E+03	7.01E+03	4.34E+02	1.75E+02	1.33E+04	3.33E+02	8.25E+02
47	165		1.30E+02	1.11E+02	8.83E+02	2.60E+03	5.24E+03	3.25E+02	1.31E+02	4.47E+03	1.12E+02	2.77E+02
47	167			3.29E+01	4.15E+02	4.06E+02	1.74E+03	1.08E+02	4.34E+01	3.30E+03	8.24E+01	2.04E+02
47	169		5.90E+00	1.26E+01	5.23E+01	7.02E+01	3.00E+02	1.86E+01	7.51E+00	5.70E+02	1.43E+01	3.53E+01
47	171		3.14E+02	8.35E+01	1.97E+02	1.99E+02	8.52E+02	5.28E+01	2.13E+01	1.62E+03	4.05E+01	1.00E+02
47	173		6.05E+02	3.83E+01		1.48E+02	6.33E+02	3.92E+01	1.58E+01	1.20E+03	3.01E+01	7.45E+01
47	175		3.93E+00	7.31E+00	1.97E+01	5.97E+01	2.56E+02	1.58E+01	6.39E+00	4.85E+02	1.21E+01	3.01E+01
47	177		1.38E+01	8.17E+01	2.50E+02	4.01E+02	1.72E+03	1.06E+02	4.29E+01	3.26E+03	8.15E+01	2.02E+02
47	179		1.31E+03	3.47E+02	4.74E+02	2.25E+03	4.52E+03	2.80E+02	1.13E+02	3.86E+03	9.65E+01	2.39E+02
47	181		3.93E+00	1.56E+01	7.99E+01	1.63E+02	6.98E+02	4.33E+01	1.75E+01	1.33E+03	3.32E+01	8.22E+01
47	183			5.56E+01	3.24E+02	8.13E+02	1.64E+03	1.01E+02	4.09E+01	1.40E+03	3.49E+01	8.66E+01
47	185		2.16E+01	2.82E+01	2.18E+02	2.50E+02	1.07E+03	6.62E+01	2.67E+01	2.03E+03	5.07E+01	1.26E+02
47	187		4.72E+01	3.67E+01	1.13E+03	8.47E+02	1.70E+03	1.06E+02	4.26E+01	1.45E+03	3.64E+01	9.01E+01
47	189		7.07E+01	7.83E+01	4.63E+02	7.72E+02	3.31E+03	2.05E+02	8.26E+01	6.28E+03	1.57E+02	3.89E+02
48	001			1.25E-01	3.03E+02	2.52E+02	1.08E+03	6.69E+01	2.70E+01	2.05E+03	5.12E+01	1.27E+02
48	003			2.79E-01	1.39E+02	7.63E+01	1.54E+02	9.52E+00	3.84E+00	1.31E+02	3.28E+00	8.12E+00
48	005			8.29E-01	6.02E+02	3.92E+02	7.89E+02	4.89E+01	1.97E+01	6.73E+02	1.68E+01	4.17E+01
48	007			3.85E-02	1.64E+02	1.41E+02	6.03E+02	3.74E+01	1.51E+01	1.15E+03	2.86E+01	7.09E+01
48	009			1.93E-02	5.45E+01	6.08E+01	1.23E+02	7.59E+00	3.06E+00	1.05E+02	2.61E+00	6.48E+00
48	011				3.09E+01	6.87E+01	1.38E+02	8.57E+00	3.46E+00	1.18E+02	2.95E+00	7.31E+00
48	013			2.60E-01	1.83E+02	1.57E+02	3.15E+02	1.95E+01	7.88E+00	2.69E+02	6.72E+00	1.67E+01
48	015			5.01E-01	1.19E+02	1.34E+02	2.69E+02	1.67E+01	6.73E+00	2.30E+02	5.74E+00	1.42E+01
48	017				9.08E+01	2.30E+02	4.64E+02	2.87E+01	1.16E+01	3.96E+02	9.89E+00	2.45E+01
48	019			3.76E-01	2.24E+01	9.44E+01	4.04E+02	2.50E+01	1.01E+01	7.67E+02	1.92E+01	4.75E+01
48	021			3.18E-01	1.82E+02	2.20E+02	9.42E+02	5.83E+01	2.35E+01	1.79E+03	4.47E+01	1.11E+02
48	023				8.62E+01	5.11E+01	1.03E+02	6.38E+00	2.57E+00	8.78E+01	2.19E+00	5.44E+00
48	025			1.45E-01	2.00E+02	1.47E+02	6.31E+02	3.91E+01	1.58E+01	1.20E+03	2.99E+01	7.42E+01
48	027			7.03E-01	1.42E+03	8.68E+02	1.75E+03	1.08E+02	4.37E+01	1.49E+03	3.73E+01	9.24E+01
48	029			3.94E+00	1.44E+04	5.69E+03	1.15E+04	7.10E+02	2.86E+02	9.77E+03	2.44E+02	6.06E+02
48	031		5.66E+01	3.85E-02	1.27E+00	4.81E+01	2.06E+02	1.28E+01	5.14E+00	3.91E+02	9.77E+00	2.42E+01
48	033			1.93E-02		8.26E+00	3.53E+01	2.19E+00	8.84E-01	6.71E+01	1.68E+00	4.16E+00
48	035			2.89E-02	1.19E+02	1.34E+02	5.74E+02	3.56E+01	1.44E+01	1.09E+03	2.73E+01	6.76E+01
48	037			5.88E-01	1.02E+03	4.80E+02	9.67E+02	5.99E+01	2.42E+01	8.25E+02	2.06E+01	5.11E+01
48	039			2.75E+00	1.64E+03	9.71E+02	1.95E+03	1.21E+02	4.89E+01	1.67E+03	4.17E+01	1.03E+02
48	041			8.38E-01	1.13E+03	4.35E+02	8.76E+02	5.43E+01	2.19E+01	7.48E+02	1.87E+01	4.63E+01
48	043			8.67E-02	9.44E+01	5.43E+01	1.09E+02	6.78E+00	2.74E+00	9.33E+01	2.33E+00	5.78E+00
48	045				3.09E+01	8.56E+01	1.72E+02	1.07E+01	4.31E+00	1.47E+02	3.68E+00	9.11E+00
48	047				7.77E+01	4.55E+01	9.16E+01	5.67E+00	2.29E+00	7.81E+01	1.95E+00	4.84E+00
48	049			3.18E-01	3.90E+02	2.43E+02	4.88E+02	3.03E+01	1.22E+01	4.17E+02	1.04E+01	2.58E+01
48	051			2.70E-01	8.33E+01	9.88E+01	4.23E+02	2.62E+01	1.06E+01	8.02E+02	2.01E+01	4.97E+01

To calculate allocation proportion of national emissions to county, divide number of county unit within an industry category by total (national) number of units within that category

A = Residential Heating: Anthracite Coal; SCC 2104001000

B = Residential Heating: Bituminous Lignite; SCC 2104002000

C = Residential Heating: Distillate Oil; SCC 2104004000

D = Residential Heating: Natural Gas; 2104006000

E = Fireplaces; SCC 2104008001

F = Fireplaces: Inserts; SCC 2104008002

G = Fireplaces: Inserts; non catalytic, EPA certified; SCC 2104008003

H = Fireplaces: Inserts; catalytic, EPA certified; SCC 2104008004

I = Conventional Woodstoves; SCC 2104008010

J = Catalytic Woodstoves; SCC 2104008030

K = Non-Catalytic Woodstoves; SCC 2104008050

Appendix E-3. Residential Heating County Allocations

State FIPS	County FIPS	A	B	C	D	E	F	G	H	I	J	K
		tons coal	tons coal	MMBTU	MMBTU	tons wood	tons wood	tons wood	tons wood	tons wood	tons wood	tons wood
48	053			3.18E-01	1.25E+02	1.93E+02	8.27E+02	5.12E+01	2.07E+01	1.57E+03	3.92E+01	9.73E+01
48	055			4.05E-01	1.92E+02	1.34E+02	2.70E+02	1.67E+01	6.76E+00	2.31E+02	5.76E+00	1.43E+01
48	057			1.06E-01	1.85E+02	1.35E+02	2.72E+02	1.68E+01	6.79E+00	2.32E+02	5.80E+00	1.44E+01
48	059			9.64E-02	1.00E+02	8.67E+01	3.71E+02	2.30E+01	9.27E+00	7.04E+02	1.76E+01	4.36E+01
48	061		5.66E+01	2.28E+00	1.59E+03	1.06E+03	2.13E+03	1.32E+02	5.32E+01	1.82E+03	4.54E+01	1.13E+02
48	063			8.67E-02	9.86E+01	6.88E+01	2.94E+02	1.82E+01	7.36E+00	5.59E+02	1.40E+01	3.46E+01
48	065				1.18E+02	8.93E+01	1.80E+02	1.11E+01	4.50E+00	1.53E+02	3.84E+00	9.51E+00
48	067			2.60E-01	2.80E+02	2.03E+02	8.67E+02	5.37E+01	2.17E+01	1.65E+03	4.12E+01	1.02E+02
48	069			6.75E-02	1.32E+02	2.42E+02	4.87E+02	3.02E+01	1.22E+01	4.15E+02	1.04E+01	2.57E+01
48	071			6.36E-01	9.09E+01	1.23E+02	5.24E+02	3.25E+01	1.31E+01	9.96E+02	2.49E+01	6.17E+01
48	073		1.98E+02	3.18E-01	3.77E+02	2.67E+02	1.14E+03	7.07E+01	2.85E+01	2.17E+03	5.42E+01	1.34E+02
48	075				1.12E+02	5.09E+01	1.02E+02	6.35E+00	2.56E+00	8.74E+01	2.18E+00	5.41E+00
48	077			1.35E-01	8.36E+01	7.92E+01	3.39E+02	2.10E+01	8.47E+00	6.43E+02	1.61E+01	3.99E+01
48	079			2.89E-02	6.11E+01	5.59E+01	1.12E+02	6.97E+00	2.81E+00	9.60E+01	2.40E+00	5.94E+00
48	081			2.89E-02	3.04E+01	3.38E+01	6.81E+01	4.22E+00	1.70E+00	5.81E+01	1.45E+00	3.60E+00
48	083				1.50E+02	8.70E+01	1.75E+02	1.09E+01	4.38E+00	1.49E+02	3.74E+00	9.26E+00
48	085			2.70E-01	2.68E+03	1.42E+03	2.85E+03	1.77E+02	7.14E+01	2.44E+03	6.09E+01	1.51E+02
48	087				6.63E+01	3.41E+01	6.87E+01	4.26E+00	1.72E+00	5.86E+01	1.47E+00	3.63E+00
48	089			4.05E-01	1.51E+02	1.39E+02	5.93E+02	3.67E+01	1.48E+01	1.13E+03	2.82E+01	6.98E+01
48	091			3.37E-01	2.73E+02	3.27E+02	6.58E+02	4.08E+01	1.64E+01	5.61E+02	1.40E+01	3.48E+01
48	093				1.24E+02	1.03E+02	2.07E+02	1.28E+01	5.18E+00	1.77E+02	4.42E+00	1.10E+01
48	095				2.65E+01	2.55E+01	5.14E+01	3.18E+00	1.28E+00	4.38E+01	1.10E+00	2.72E+00
48	097			2.51E-01	2.87E+02	2.04E+02	4.10E+02	2.54E+01	1.03E+01	3.50E+02	8.75E+00	2.17E+01
48	099			8.67E-02	4.41E+02	2.36E+02	4.75E+02	2.95E+01	1.19E+01	4.06E+02	1.01E+01	2.51E+01
48	101				3.68E+01	2.20E+01	4.43E+01	2.75E+00	1.11E+00	3.78E+01	9.46E-01	2.34E+00
48	103				6.33E+01	2.70E+01	5.44E+01	3.37E+00	1.36E+00	4.64E+01	1.16E+00	2.88E+00
48	105			1.73E-01	5.80E+01	3.03E+01	1.30E+02	8.03E+00	3.24E+00	2.46E+02	6.15E+00	1.52E+01
48	107				1.16E+02	1.03E+02	2.07E+02	1.29E+01	5.19E+00	1.77E+02	4.43E+00	1.10E+01
48	109				4.77E+01	3.24E+01	6.53E+01	4.04E+00	1.63E+00	5.57E+01	1.39E+00	3.45E+00
48	111				1.06E+02	1.78E+02	3.59E+02	2.23E+01	8.98E+00	3.07E+02	7.66E+00	1.90E+01
48	113		2.97E+02	3.14E+00	2.07E+04	8.30E+03	1.67E+04	1.04E+03	4.18E+02	1.43E+04	3.57E+02	8.84E+02
48	115				2.12E+02	1.84E+02	3.71E+02	2.30E+01	9.28E+00	3.17E+02	7.92E+00	1.96E+01
48	117				3.08E+02	4.78E+02	9.63E+02	5.97E+01	2.41E+01	8.21E+02	2.05E+01	5.09E+01
48	119				4.32E+01	3.90E+01	7.86E+01	4.87E+00	1.97E+00	6.71E+01	1.68E+00	4.16E+00
48	121			1.20E+00	2.27E+03	1.31E+03	2.65E+03	1.64E+02	6.61E+01	2.26E+03	5.64E+01	1.40E+02
48	123			1.93E-01	2.00E+02	1.34E+02	2.70E+02	1.67E+01	6.75E+00	2.30E+02	5.76E+00	1.43E+01
48	125			2.89E-02	1.43E+01	5.13E+01	1.03E+02	6.40E+00	2.58E+00	8.81E+01	2.20E+00	5.46E+00
48	127			3.85E-02	6.88E+01	6.09E+01	1.23E+02	7.59E+00	3.06E+00	1.05E+02	2.61E+00	6.48E+00
48	129				6.10E+01	6.15E+01	1.24E+02	7.68E+00	3.10E+00	1.06E+02	2.64E+00	6.55E+00
48	131			1.45E-01	1.19E+02	7.60E+01	1.53E+02	9.48E+00	3.82E+00	1.30E+02	3.26E+00	8.08E+00
48	133				2.48E+02	1.50E+02	3.02E+02	1.87E+01	7.54E+00	2.57E+02	6.43E+00	1.59E+01
48	135			4.53E-01	1.39E+03	5.86E+02	1.18E+03	7.31E+01	2.95E+01	1.01E+03	2.52E+01	6.24E+01
48	137			1.93E-02	1.15E+00	2.38E+01	4.79E+01	2.97E+00	1.20E+00	4.09E+01	1.02E+00	2.53E+00
48	139			2.99E-01	6.73E+02	4.52E+02	9.09E+02	5.63E+01	2.27E+01	7.76E+02	1.94E+01	4.81E+01
48	141			2.51E+00	8.43E+03	2.23E+03	4.49E+03	2.78E+02	1.12E+02	3.83E+03	9.57E+01	2.37E+02
48	143			1.83E-01	2.35E+02	1.72E+02	3.45E+02	2.14E+01	8.64E+00	2.95E+02	7.37E+00	1.83E+01
48	145			1.45E-01	2.00E+02	1.22E+02	2.46E+02	1.52E+01	6.15E+00	2.10E+02	5.24E+00	1.30E+01
48	147			3.37E-01	2.35E+02	1.81E+02	3.64E+02	2.25E+01	9.09E+00	3.10E+02	7.76E+00	1.92E+01

To calculate allocation proportion of national emissions to county, divide number of county unit within an industry category by total (national) number of units within that category

A = Residential Heating: Anthracite Coal; SCC 2104001000

B = Residential Heating: Bituminous Lignite; SCC 2104002000

C = Residential Heating: Distillate Oil; SCC 2104004000

D = Residential Heating: Natural Gas; 2104006000

E = Fireplaces; SCC 2104008001

F = Fireplaces: Inserts; SCC 2104008002

G = Fireplaces: Inserts; non catalytic, EPA certified; SCC 2104008003

H = Fireplaces: Inserts; catalytic, EPA certified; SCC 2104008004

I = Conventional Woodstoves; SCC 2104008010

J = Catalytic Woodstoves; SCC 2104008030

K = Non-Catalytic Woodstoves; SCC 2104008050

Appendix E-3. Residential Heating County Allocations

State FIPS	County FIPS	A	B	C	D	E	F	G	H	I	J	K
		tons coal	tons coal	MMBTU	MMBTU	tons wood	tons wood	tons wood	tons wood	tons wood	tons wood	tons wood
48	149			2.99E-01	1.19E+02	1.75E+02	7.50E+02	4.64E+01	1.87E+01	1.42E+03	3.56E+01	8.82E+01
48	151				5.33E+01	4.08E+01	8.22E+01	5.09E+00	2.05E+00	7.01E+01	1.75E+00	4.34E+00
48	153				1.40E+02	1.14E+02	2.30E+02	1.43E+01	5.75E+00	1.96E+02	4.91E+00	1.22E+01
48	155				3.41E+01	1.57E+01	3.17E+01	1.96E+00	7.92E-01	2.70E+01	6.76E-01	1.67E+00
48	157		9.90E+01	1.59E+00	2.17E+03	1.26E+03	2.53E+03	1.57E+02	6.34E+01	2.16E+03	5.41E+01	1.34E+02
48	159			2.89E-02	5.28E+01	6.86E+01	2.94E+02	1.82E+01	7.34E+00	5.57E+02	1.39E+01	3.45E+01
48	161			1.16E-01	1.28E+02	1.13E+02	4.85E+02	3.00E+01	1.21E+01	9.20E+02	2.30E+01	5.70E+01
48	163			1.93E-01	1.18E+02	7.20E+01	1.45E+02	8.98E+00	3.62E+00	1.24E+02	3.09E+00	7.66E+00
48	165				1.72E+02	1.40E+02	2.83E+02	1.75E+01	7.06E+00	2.41E+02	6.03E+00	1.49E+01
48	167			1.40E+00	2.62E+03	1.33E+03	2.68E+03	1.66E+02	6.69E+01	2.28E+03	5.71E+01	1.41E+02
48	169				7.68E+01	3.61E+01	7.27E+01	4.51E+00	1.82E+00	6.21E+01	1.55E+00	3.85E+00
48	171			2.31E-01	1.39E+02	1.35E+02	5.78E+02	3.58E+01	1.45E+01	1.10E+03	2.75E+01	6.80E+01
48	173			2.89E-02	1.78E+00	1.02E+01	4.35E+01	2.69E+00	1.09E+00	8.26E+01	2.06E+00	5.12E+00
48	175			1.06E-01	2.61E+01	4.26E+01	1.82E+02	1.13E+01	4.56E+00	3.46E+02	8.65E+00	2.14E+01
48	177			5.78E-02	1.17E+02	1.11E+02	2.23E+02	1.38E+01	5.57E+00	1.90E+02	4.76E+00	1.18E+01
48	179				4.84E+02	3.56E+02	7.18E+02	4.45E+01	1.79E+01	6.12E+02	1.53E+01	3.79E+01
48	181			7.61E-01	1.17E+03	6.34E+02	1.28E+03	7.91E+01	3.19E+01	1.09E+03	2.72E+01	6.75E+01
48	183			1.83E-01	1.24E+03	1.11E+03	2.23E+03	1.38E+02	5.58E+01	1.91E+03	4.76E+01	1.18E+02
48	185			4.82E-01	9.62E+01	2.09E+02	8.94E+02	5.54E+01	2.24E+01	1.70E+03	4.25E+01	1.05E+02
48	187			1.52E+00	3.62E+02	6.51E+02	1.31E+03	8.12E+01	3.28E+01	1.12E+03	2.79E+01	6.93E+01
48	189				5.70E+02	3.79E+02	7.63E+02	4.73E+01	1.91E+01	6.51E+02	1.63E+01	4.04E+01
48	191				8.10E+01	3.93E+01	7.92E+01	4.90E+00	1.98E+00	6.75E+01	1.69E+00	4.18E+00
48	193				9.09E+01	7.22E+01	1.45E+02	9.01E+00	3.64E+00	1.24E+02	3.10E+00	7.69E+00
48	195				1.02E+02	1.77E+02	3.56E+02	2.21E+01	8.90E+00	3.04E+02	7.60E+00	1.88E+01
48	197				9.24E+01	4.57E+01	9.20E+01	5.70E+00	2.30E+00	7.85E+01	1.96E+00	4.86E+00
48	199			1.07E+00	1.87E+02	2.37E+02	1.02E+03	6.29E+01	2.54E+01	1.93E+03	4.82E+01	1.19E+02
48	201		2.55E+02	6.12E+00	3.08E+04	1.26E+04	2.54E+04	1.57E+03	6.35E+02	2.17E+04	5.42E+02	1.34E+03
48	203			1.64E-01	5.80E+02	3.35E+02	6.74E+02	4.18E+01	1.69E+01	5.75E+02	1.44E+01	3.56E+01
48	205				6.52E+01	1.16E+02	2.34E+02	1.45E+01	5.85E+00	2.00E+02	4.99E+00	1.24E+01
48	207				1.01E+02	6.11E+01	1.23E+02	7.63E+00	3.08E+00	1.05E+02	2.63E+00	6.51E+00
48	209			7.23E-01	2.72E+02	2.89E+02	5.82E+02	3.61E+01	1.46E+01	4.97E+02	1.24E+01	3.08E+01
48	211				5.02E+01	4.86E+01	9.78E+01	6.06E+00	2.44E+00	8.34E+01	2.09E+00	5.17E+00
48	213			5.20E-01	2.67E+02	3.97E+02	1.70E+03	1.05E+02	4.24E+01	3.22E+03	8.06E+01	2.00E+02
48	215		9.05E+02	3.85E+00	2.05E+03	1.56E+03	3.14E+03	1.95E+02	7.86E+01	2.68E+03	6.71E+01	1.66E+02
48	217			1.83E-01	2.30E+02	1.99E+02	4.00E+02	2.48E+01	1.00E+01	3.41E+02	8.54E+00	2.12E+01
48	219			3.85E-02	3.50E+02	2.58E+02	5.21E+02	3.23E+01	1.30E+01	4.44E+02	1.11E+01	2.75E+01
48	221			1.54E-01	7.17E+01	3.25E+02	1.39E+03	8.62E+01	3.48E+01	2.64E+03	6.60E+01	1.64E+02
48	223			7.71E-02	2.23E+02	1.87E+02	3.77E+02	2.33E+01	9.42E+00	3.21E+02	8.03E+00	1.99E+01
48	225		1.41E+01	3.76E-01	1.51E+02	1.56E+02	6.68E+02	4.14E+01	1.67E+01	1.27E+03	3.17E+01	7.86E+01
48	227			1.35E-01	4.66E+02	2.08E+02	4.19E+02	2.60E+01	1.05E+01	3.58E+02	8.94E+00	2.22E+01
48	229			6.75E-02	1.75E+01	3.15E+01	1.35E+02	8.34E+00	3.37E+00	2.56E+02	6.39E+00	1.58E+01
48	231		5.66E+01	7.32E-01	5.94E+02	3.81E+02	7.67E+02	4.75E+01	1.92E+01	6.54E+02	1.64E+01	4.05E+01
48	233			4.82E-02	4.74E+02	3.32E+02	6.69E+02	4.15E+01	1.67E+01	5.71E+02	1.43E+01	3.54E+01
48	235				5.75E-02	1.37E+01	5.84E+01	3.62E+00	1.46E+00	1.11E+02	2.77E+00	6.87E+00
48	237				8.41E+01	5.52E+01	1.11E+02	6.89E+00	2.78E+00	9.49E+01	2.37E+00	5.88E+00
48	239			2.79E-01	1.33E+02	1.72E+02	3.46E+02	2.15E+01	8.66E+00	2.96E+02	7.39E+00	1.83E+01
48	241			4.53E-01	1.55E+02	1.99E+02	8.50E+02	5.27E+01	2.13E+01	1.61E+03	4.04E+01	1.00E+02
48	243			2.89E-02	1.43E+01	3.57E+01	1.53E+02	9.47E+00	3.82E+00	2.90E+02	7.26E+00	1.80E+01

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A = Residential Heating: Anthracite Coal; SCC 2104001000

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Appendix E-3. Residential Heating County Allocations

State FIPS	County FIPS	A	B	C	D	E	F	G	H	I	J	K
		tons coal	tons coal	MMBTU	MMBTU	tons wood	tons wood	tons wood	tons wood	tons wood	tons wood	tons wood
48	245			1.40E+00	3.16E+03	1.47E+03	2.96E+03	1.83E+02	7.39E+01	2.52E+03	6.30E+01	1.56E+02
48	247				5.79E+01	3.52E+01	1.51E+02	9.33E+00	3.76E+00	2.86E+02	7.15E+00	1.77E+01
48	249			6.75E-02	3.38E+02	2.02E+02	4.07E+02	2.52E+01	1.02E+01	3.47E+02	8.67E+00	2.15E+01
48	251			1.26E+00	5.94E+02	5.03E+02	1.01E+03	6.28E+01	2.53E+01	8.64E+02	2.16E+01	5.35E+01
48	253			1.06E-01	1.83E+02	1.24E+02	2.50E+02	1.55E+01	6.25E+00	2.13E+02	5.34E+00	1.32E+01
48	255				1.28E+02	7.95E+01	1.60E+02	9.92E+00	4.00E+00	1.37E+02	3.42E+00	8.47E+00
48	257			5.30E-01	3.79E+02	2.95E+02	5.94E+02	3.68E+01	1.48E+01	5.07E+02	1.27E+01	3.14E+01
48	259			9.73E-01	6.63E+01	9.93E+01	4.25E+02	2.63E+01	1.06E+01	8.07E+02	2.02E+01	5.00E+01
48	261			9.64E-03	2.30E+00	6.94E+00	2.97E+01	1.84E+00	7.42E-01	5.64E+01	1.41E+00	3.49E+00
48	263				4.03E-01	1.04E+01	2.09E+01	1.30E+00	5.23E-01	1.78E+01	4.46E-01	1.11E+00
48	265			4.91E-01	2.47E+02	2.17E+02	4.37E+02	2.71E+01	1.09E+01	3.72E+02	9.31E+00	2.31E+01
48	267				3.55E+01	3.86E+01	7.77E+01	4.81E+00	1.94E+00	6.63E+01	1.66E+00	4.11E+00
48	269				2.88E-01	2.93E+00	1.25E+01	7.76E-01	3.13E-01	2.38E+01	5.95E-01	1.47E+00
48	271				2.28E+01	2.16E+01	4.35E+01	2.70E+00	1.09E+00	3.71E+01	9.28E-01	2.30E+00
48	273			1.54E-01	3.32E+02	1.58E+02	3.19E+02	1.97E+01	7.96E+00	2.72E+02	6.79E+00	1.68E+01
48	275			1.93E-02	7.66E+01	4.22E+01	8.50E+01	5.27E+00	2.13E+00	7.26E+01	1.81E+00	4.50E+00
48	277			3.28E-01	4.25E+02	2.96E+02	5.96E+02	3.69E+01	1.49E+01	5.08E+02	1.27E+01	3.15E+01
48	279				2.58E+02	2.18E+02	4.39E+02	2.72E+01	1.10E+01	3.74E+02	9.36E+00	2.32E+01
48	281			5.78E-02	1.09E+02	9.48E+01	1.91E+02	1.18E+01	4.78E+00	1.63E+02	4.07E+00	1.01E+01
48	283				4.06E+01	3.46E+01	6.96E+01	4.31E+00	1.74E+00	5.94E+01	1.48E+00	3.68E+00
48	285			6.75E-02	1.61E+02	1.57E+02	6.71E+02	4.16E+01	1.68E+01	1.27E+03	3.19E+01	7.90E+01
48	287			1.54E-01	7.27E+01	8.51E+01	3.64E+02	2.26E+01	9.11E+00	6.92E+02	1.73E+01	4.29E+01
48	289			2.89E-02	5.71E+01	9.52E+01	4.07E+02	2.52E+01	1.02E+01	7.74E+02	1.93E+01	4.79E+01
48	291			1.15E+00	3.17E+02	3.13E+02	1.34E+03	8.31E+01	3.35E+01	2.55E+03	6.37E+01	1.58E+02
48	293			2.22E-01	2.02E+02	1.47E+02	2.96E+02	1.83E+01	7.40E+00	2.52E+02	6.31E+00	1.56E+01
48	295				5.31E+01	1.19E+02	2.39E+02	1.48E+01	5.97E+00	2.04E+02	5.10E+00	1.26E+01
48	297			2.70E-01	6.11E+01	8.48E+01	3.63E+02	2.25E+01	9.07E+00	6.89E+02	1.72E+01	4.27E+01
48	299			2.31E-01	4.27E+01	1.42E+02	6.10E+02	3.78E+01	1.52E+01	1.16E+03	2.89E+01	7.17E+01
48	301					9.20E-01	3.94E+00	2.44E-01	9.84E-02	7.48E+00	1.87E-01	4.63E-01
48	303			4.05E-01	3.42E+03	2.17E+03	4.37E+03	2.71E+02	1.09E+02	3.73E+03	9.31E+01	2.31E+02
48	305				8.01E+01	9.38E+01	1.89E+02	1.17E+01	4.72E+00	1.61E+02	4.03E+00	9.98E+00
48	307			2.22E-01	1.20E+02	7.16E+01	1.44E+02	8.93E+00	3.60E+00	1.23E+02	3.07E+00	7.62E+00
48	309			5.40E-01	2.10E+03	1.04E+03	2.10E+03	1.30E+02	5.26E+01	1.79E+03	4.49E+01	1.11E+02
48	311				4.03E-01	9.18E+00	3.93E+01	2.43E+00	9.82E-01	7.46E+01	1.86E+00	4.62E+00
48	313			2.51E-01	6.80E+01	6.26E+01	2.68E+02	1.66E+01	6.70E+00	5.09E+02	1.27E+01	3.15E+01
48	315			1.83E-01	7.51E+01	7.94E+01	3.40E+02	2.11E+01	8.50E+00	6.45E+02	1.61E+01	4.00E+01
48	317				4.62E+01	2.95E+01	5.95E+01	3.69E+00	1.49E+00	5.08E+01	1.27E+00	3.14E+00
48	319			9.64E-02	6.33E-01	4.02E+01	8.09E+01	5.01E+00	2.02E+00	6.90E+01	1.73E+00	4.28E+00
48	321			6.55E-01	3.33E+02	2.37E+02	4.77E+02	2.95E+01	1.19E+01	4.07E+02	1.02E+01	2.52E+01
48	323			5.78E-02	1.93E+02	1.58E+02	3.17E+02	1.97E+01	7.93E+00	2.71E+02	6.77E+00	1.68E+01
48	325			3.08E-01	2.06E+02	1.56E+02	3.15E+02	1.95E+01	7.87E+00	2.69E+02	6.72E+00	1.66E+01
48	327			1.93E-02	1.08E+01	2.45E+01	4.94E+01	3.06E+00	1.23E+00	4.21E+01	1.05E+00	2.61E+00
48	329			2.60E-01	1.31E+03	5.64E+02	1.14E+03	7.04E+01	2.84E+01	9.70E+02	2.42E+01	6.01E+01
48	331			1.73E-01	1.96E+02	1.58E+02	3.19E+02	1.97E+01	7.96E+00	2.72E+02	6.79E+00	1.68E+01
48	333				3.63E+01	4.77E+01	2.04E+02	1.26E+01	5.10E+00	3.87E+02	9.68E+00	2.40E+01
48	335			7.32E-01	9.32E+01	6.78E+01	1.37E+02	8.46E+00	3.42E+00	1.17E+02	2.91E+00	7.22E+00
48	337			6.55E-01	2.09E+02	1.43E+02	2.87E+02	1.78E+01	7.19E+00	2.45E+02	6.13E+00	1.52E+01
48	339			2.50E+00	1.29E+03	1.01E+03	4.32E+03	2.68E+02	1.08E+02	8.21E+03	2.05E+02	5.09E+02

To calculate allocation proportion of national emissions to county, divide number of county unit within an industry category by total (national) number of units within that category

A = Residential Heating: Anthracite Coal; SCC 2104001000

B = Residential Heating: Bituminous Lignite; SCC 2104002000

C = Residential Heating: Distillate Oil; SCC 2104004000

D = Residential Heating: Natural Gas; 2104006000

E = Fireplaces; SCC 2104008001

F = Fireplaces: Inserts; SCC 2104008002

G = Fireplaces: Inserts; non catalytic, EPA certified; SCC 2104008003

H = Fireplaces: Inserts; catalytic, EPA certified; SCC 2104008004

I = Conventional Woodstoves; SCC 2104008010

J = Catalytic Woodstoves; SCC 2104008030

K = Non-Catalytic Woodstoves; SCC 2104008050

Appendix E-3. Residential Heating County Allocations

State FIPS	County FIPS	A	B	C	D	E	F	G	H	I	J	K
		tons coal	tons coal	MMBTU	MMBTU	tons wood	tons wood	tons wood	tons wood	tons wood	tons wood	tons wood
48	341			2.89E-02	3.02E+02	4.48E+02	9.03E+02	5.59E+01	2.26E+01	7.70E+02	1.93E+01	4.77E+01
48	343			7.71E-02	1.62E+02	9.18E+01	1.85E+02	1.15E+01	4.62E+00	1.58E+02	3.94E+00	9.77E+00
48	345				4.60E-01	1.82E+01	3.67E+01	2.27E+00	9.16E-01	3.13E+01	7.82E-01	1.94E+00
48	347			2.99E-01	4.44E+02	2.70E+02	5.43E+02	3.36E+01	1.36E+01	4.63E+02	1.16E+01	2.87E+01
48	349			1.73E-01	4.72E+02	2.46E+02	4.95E+02	3.07E+01	1.24E+01	4.23E+02	1.06E+01	2.62E+01
48	351			5.30E-01	4.92E+01	9.39E+01	4.02E+02	2.49E+01	1.01E+01	7.63E+02	1.91E+01	4.73E+01
48	353			1.93E-02	2.19E+02	1.15E+02	2.32E+02	1.44E+01	5.80E+00	1.98E+02	4.94E+00	1.23E+01
48	355			2.79E-01	3.15E+03	1.46E+03	2.95E+03	1.83E+02	7.38E+01	2.52E+03	6.29E+01	1.56E+02
48	357				1.67E+02	2.63E+02	5.29E+02	3.28E+01	1.32E+01	4.51E+02	1.13E+01	2.80E+01
48	359				2.50E+01	2.46E+01	1.05E+02	6.51E+00	2.63E+00	2.00E+02	4.99E+00	1.24E+01
48	361			6.75E-01	7.71E+02	4.51E+02	9.08E+02	5.62E+01	2.27E+01	7.74E+02	1.94E+01	4.80E+01
48	363			4.91E-01	3.03E+02	1.86E+02	3.74E+02	2.32E+01	9.35E+00	3.19E+02	7.98E+00	1.98E+01
48	365			1.25E-01	1.97E+02	1.43E+02	6.11E+02	3.79E+01	1.53E+01	1.16E+03	2.90E+01	7.19E+01
48	367			2.60E-01	3.24E+02	3.76E+02	1.61E+03	9.98E+01	4.03E+01	3.06E+03	7.65E+01	1.89E+02
48	369				1.40E+02	2.67E+02	5.38E+02	3.34E+01	1.35E+01	4.59E+02	1.15E+01	2.85E+01
48	371				1.74E+02	8.13E+01	1.64E+02	1.01E+01	4.09E+00	1.40E+02	3.49E+00	8.65E+00
48	373		1.13E+02	5.20E-01	1.12E+02	2.56E+02	1.10E+03	6.79E+01	2.74E+01	2.08E+03	5.20E+01	1.29E+02
48	375			6.75E-02	1.91E+03	2.59E+03	5.21E+03	3.23E+02	1.30E+02	4.45E+03	1.11E+02	2.75E+02
48	377				5.39E+01	4.14E+01	8.34E+01	5.17E+00	2.09E+00	7.12E+01	1.78E+00	4.41E+00
48	379			2.22E-01	3.02E+01	5.43E+01	2.33E+02	1.44E+01	5.81E+00	4.42E+02	1.10E+01	2.74E+01
48	381				1.62E+03	9.69E+02	1.95E+03	1.21E+02	4.88E+01	1.66E+03	4.16E+01	1.03E+02
48	383				5.38E+01	2.40E+01	4.84E+01	3.00E+00	1.21E+00	4.13E+01	1.03E+00	2.56E+00
48	385					3.14E+01	1.35E+02	8.34E+00	3.36E+00	2.56E+02	6.39E+00	1.58E+01
48	387			9.64E-02	1.33E+02	1.12E+02	4.81E+02	2.98E+01	1.20E+01	9.13E+02	2.28E+01	5.66E+01
48	389				2.14E+02	8.85E+01	1.78E+02	1.10E+01	4.46E+00	1.52E+02	3.80E+00	9.42E+00
48	391			9.64E-02	9.02E+01	5.85E+01	1.18E+02	7.30E+00	2.94E+00	1.00E+02	2.51E+00	6.23E+00
48	393				1.68E+01	3.57E+01	7.19E+01	4.46E+00	1.80E+00	6.14E+01	1.53E+00	3.80E+00
48	395			2.41E-01	1.65E+02	1.07E+02	2.16E+02	1.34E+01	5.41E+00	1.85E+02	4.61E+00	1.14E+01
48	397			1.93E-01	1.91E+02	1.46E+02	2.95E+02	1.82E+01	7.36E+00	2.51E+02	6.28E+00	1.56E+01
48	399		1.27E+02	4.82E-02	1.60E+02	9.07E+01	1.83E+02	1.13E+01	4.57E+00	1.56E+02	3.90E+00	9.65E+00
48	401		4.24E+01	3.95E-01	4.15E+02	3.08E+02	1.32E+03	8.16E+01	3.29E+01	2.50E+03	6.26E+01	1.55E+02
48	403			9.64E-02	4.40E+01	1.45E+02	6.20E+02	3.84E+01	1.55E+01	1.18E+03	2.94E+01	7.29E+01
48	405				5.42E+01	1.15E+02	4.90E+02	3.04E+01	1.23E+01	9.31E+02	2.33E+01	5.77E+01
48	407			5.11E-01	2.00E+01	1.35E+02	5.79E+02	3.59E+01	1.45E+01	1.10E+03	2.75E+01	6.81E+01
48	409			2.70E-01	5.94E+02	3.28E+02	6.62E+02	4.10E+01	1.65E+01	5.64E+02	1.41E+01	3.50E+01
48	411				4.47E+01	5.06E+01	1.02E+02	6.32E+00	2.55E+00	8.70E+01	2.18E+00	5.39E+00
48	413				3.70E+01	3.68E+01	7.40E+01	4.59E+00	1.85E+00	6.32E+01	1.58E+00	3.91E+00
48	415			6.75E-02	1.94E+02	1.19E+02	2.39E+02	1.48E+01	5.99E+00	2.04E+02	5.11E+00	1.27E+01
48	417			1.93E-02	4.62E+01	2.82E+01	5.68E+01	3.52E+00	1.42E+00	4.85E+01	1.21E+00	3.00E+00
48	419			2.22E-01	2.36E+02	1.53E+02	6.56E+02	4.06E+01	1.64E+01	1.24E+03	3.11E+01	7.71E+01
48	421			2.89E-02	5.14E+01	9.52E+01	1.92E+02	1.19E+01	4.79E+00	1.64E+02	4.09E+00	1.01E+01
48	423			5.40E-01	1.54E+03	8.85E+02	1.78E+03	1.10E+02	4.45E+01	1.52E+03	3.80E+01	9.42E+01
48	425			1.06E-01	2.41E+01	2.95E+01	1.26E+02	7.82E+00	3.15E+00	2.40E+02	5.99E+00	1.48E+01
48	427			3.85E-01	1.36E+02	2.03E+02	8.67E+02	5.37E+01	2.17E+01	1.65E+03	4.12E+01	1.02E+02
48	429				1.11E+02	7.00E+01	1.41E+02	8.74E+00	3.53E+00	1.20E+02	3.01E+00	7.46E+00
48	431				1.23E+01	9.51E+00	1.91E+01	1.19E+00	4.79E-01	1.63E+01	4.08E-01	1.01E+00
48	433				3.45E-01	1.78E+01	3.58E+01	2.22E+00	8.95E-01	3.06E+01	7.64E-01	1.89E+00
48	435			5.78E-02	4.63E+01	2.77E+01	5.58E+01	3.45E+00	1.39E+00	4.76E+01	1.19E+00	2.95E+00

To calculate allocation proportion of national emissions to county, divide number of county unit within an industry category by total (national) number of units within that category

A = Residential Heating: Anthracite Coal; SCC 2104001000

B = Residential Heating: Bituminous Lignite; SCC 2104002000

C = Residential Heating: Distillate Oil; SCC 2104004000

D = Residential Heating: Natural Gas; 2104006000

E = Fireplaces; SCC 2104008001

F = Fireplaces: Inserts; SCC 2104008002

G = Fireplaces: Inserts; non catalytic, EPA certified; SCC 2104008003

H = Fireplaces: Inserts; catalytic, EPA certified; SCC 2104008004

I = Conventional Woodstoves; SCC 2104008010

J = Catalytic Woodstoves; SCC 2104008030

K = Non-Catalytic Woodstoves; SCC 2104008050

Appendix E-3. Residential Heating County Allocations

State FIPS	County FIPS	A	B	C	D	E	F	G	H	I	J	K
		tons coal	tons coal	MMBTU	MMBTU	tons wood	tons wood	tons wood	tons wood	tons wood	tons wood	tons wood
48	437				1.41E+02	2.75E+02	5.53E+02	3.43E+01	1.38E+01	4.72E+02	1.18E+01	2.92E+01
48	439		9.90E+01	2.43E+00	1.09E+04	5.99E+03	1.21E+04	7.48E+02	3.02E+02	1.03E+04	2.57E+02	6.38E+02
48	441			1.83E-01	1.63E+03	6.91E+02	1.39E+03	8.63E+01	3.48E+01	1.19E+03	2.97E+01	7.36E+01
48	443			1.93E-02	1.15E+00	1.46E+01	6.25E+01	3.87E+00	1.56E+00	1.19E+02	2.97E+00	7.36E+00
48	445				2.13E+02	1.62E+02	3.26E+02	2.02E+01	8.15E+00	2.78E+02	6.95E+00	1.72E+01
48	447				2.38E+01	1.77E+01	3.57E+01	2.21E+00	8.91E-01	3.04E+01	7.60E-01	1.88E+00
48	449				2.30E+02	1.43E+02	2.88E+02	1.79E+01	7.21E+00	2.46E+02	6.15E+00	1.52E+01
48	451			6.07E-01	1.08E+03	5.51E+02	1.11E+03	6.88E+01	2.78E+01	9.47E+02	2.37E+01	5.87E+01
48	453		9.90E+01	2.52E+00	7.11E+03	2.59E+03	5.22E+03	3.24E+02	1.31E+02	4.46E+03	1.11E+02	2.76E+02
48	455			1.83E-01	5.37E+01	9.48E+01	4.06E+02	2.51E+01	1.01E+01	7.70E+02	1.93E+01	4.77E+01
48	457			2.60E-01	6.04E+01	1.44E+02	6.17E+02	3.82E+01	1.54E+01	1.17E+03	2.93E+01	7.25E+01
48	459			2.31E-01	2.33E+02	1.98E+02	8.46E+02	5.24E+01	2.11E+01	1.61E+03	4.01E+01	9.95E+01
48	461				6.05E+01	2.82E+01	5.69E+01	3.52E+00	1.42E+00	4.85E+01	1.21E+00	3.01E+00
48	463			5.78E-02	1.89E+02	1.43E+02	2.89E+02	1.79E+01	7.21E+00	2.46E+02	6.16E+00	1.53E+01
48	465			2.02E-01	3.50E+02	1.79E+02	3.60E+02	2.23E+01	9.00E+00	3.07E+02	7.68E+00	1.90E+01
48	467		1.70E+02	6.07E-01	2.11E+02	2.65E+02	1.13E+03	7.02E+01	2.83E+01	2.15E+03	5.38E+01	1.33E+02
48	469		1.13E+02	7.03E-01	6.48E+02	4.05E+02	8.16E+02	5.05E+01	2.04E+01	6.96E+02	1.74E+01	4.31E+01
48	471			5.20E-01	2.68E+02	1.90E+02	3.83E+02	2.38E+01	9.59E+00	3.27E+02	8.18E+00	2.03E+01
48	473			4.05E-01	1.09E+02	2.24E+02	4.51E+02	2.79E+01	1.13E+01	3.85E+02	9.62E+00	2.38E+01
48	475			1.06E-01	1.81E+02	7.53E+01	1.52E+02	9.40E+00	3.79E+00	1.29E+02	3.24E+00	8.02E+00
48	477			1.93E-01	1.61E+02	1.86E+02	7.95E+02	4.92E+01	1.99E+01	1.51E+03	3.77E+01	9.35E+01
48	479		9.90E+01	2.70E-01	1.03E+03	4.85E+02	9.76E+02	6.05E+01	2.44E+01	8.33E+02	2.08E+01	5.16E+01
48	481			7.32E-01	3.73E+02	2.42E+02	4.87E+02	3.02E+01	1.22E+01	4.16E+02	1.04E+01	2.57E+01
48	483				1.07E+02	9.48E+01	1.91E+02	1.18E+01	4.77E+00	1.63E+02	4.07E+00	1.01E+01
48	485			4.14E-01	1.69E+03	7.36E+02	1.48E+03	9.19E+01	3.71E+01	1.26E+03	3.16E+01	7.84E+01
48	487			7.71E-02	2.58E+02	1.08E+02	2.18E+02	1.35E+01	5.46E+00	1.86E+02	4.66E+00	1.15E+01
48	489			1.35E-01	1.40E+02	9.97E+01	2.01E+02	1.24E+01	5.02E+00	1.71E+02	4.28E+00	1.06E+01
48	491			5.88E-01	1.30E+03	7.67E+02	1.54E+03	9.57E+01	3.86E+01	1.32E+03	3.29E+01	8.16E+01
48	493			1.83E-01	1.11E+02	1.23E+02	5.28E+02	3.27E+01	1.32E+01	1.00E+03	2.51E+01	6.22E+01
48	495			7.71E-02	1.45E+02	5.69E+01	1.15E+02	7.10E+00	2.86E+00	9.77E+01	2.44E+00	6.05E+00
48	497			2.60E-01	1.89E+02	1.97E+02	8.44E+02	5.23E+01	2.11E+01	1.60E+03	4.01E+01	9.93E+01
48	499			3.28E-01	2.24E+02	2.27E+02	9.70E+02	6.01E+01	2.43E+01	1.84E+03	4.60E+01	1.14E+02
48	501			1.16E-01	1.03E+02	9.30E+01	1.87E+02	1.16E+01	4.68E+00	1.60E+02	4.00E+00	9.90E+00
48	503			3.85E-02	2.21E+02	1.36E+02	2.74E+02	1.70E+01	6.86E+00	2.34E+02	5.85E+00	1.45E+01
48	505			3.18E-01	3.57E+00	4.96E+01	2.12E+02	1.32E+01	5.31E+00	4.03E+02	1.01E+01	2.50E+01
48	507			5.78E-02	1.39E+01	6.26E+01	1.26E+02	7.81E+00	3.15E+00	1.08E+02	2.69E+00	6.66E+00
49	001		8.37E+02	2.55E+02	5.00E-01	6.13E+01	1.23E+02	7.64E+00	3.08E+00	1.05E+02	2.63E+00	6.52E+00
49	003		2.44E+02	7.78E+01	1.15E+03	3.43E+02	6.90E+02	4.27E+01	1.72E+01	5.89E+02	1.47E+01	3.65E+01
49	005		7.48E+02	1.70E+02	2.25E+03	1.82E+03	3.67E+03	2.27E+02	9.17E+01	3.13E+03	7.82E+01	1.94E+02
49	007		6.23E+03	1.29E+01	5.77E+02	7.89E+02	1.59E+03	9.85E+01	3.97E+01	1.36E+03	3.39E+01	8.40E+01
49	009		4.43E+01		4.75E+00	2.45E+01	1.05E+02	6.50E+00	2.62E+00	1.99E+02	4.98E+00	1.23E+01
49	011		9.97E+01	1.02E+01	6.19E+03	1.43E+03	2.88E+03	1.78E+02	7.19E+01	2.46E+03	6.14E+01	1.52E+02
49	013		9.42E+02	2.90E+01	1.73E+02	2.33E+02	9.96E+02	6.17E+01	2.49E+01	1.89E+03	4.73E+01	1.17E+02
49	015		3.80E+03	2.15E+00	1.85E+02	3.34E+02	6.72E+02	4.17E+01	1.68E+01	5.74E+02	1.43E+01	3.55E+01
49	017		4.99E+02	7.83E+01	6.25E-01	2.43E+02	4.88E+02	3.03E+01	1.22E+01	4.17E+02	1.04E+01	2.58E+01
49	019		1.39E+02		1.53E+02	1.56E+02	3.15E+02	1.95E+01	7.87E+00	2.68E+02	6.71E+00	1.66E+01
49	021		8.25E+02	6.96E+02	2.70E+02	1.88E+02	3.79E+02	2.35E+01	9.47E+00	3.23E+02	8.08E+00	2.00E+01
49	023		1.87E+03	2.54E+02	6.25E-01	6.92E+01	1.39E+02	8.63E+00	3.48E+00	1.19E+02	2.97E+00	7.37E+00

To calculate allocation proportion of national emissions to county, divide number of county unit within an industry category by total (national) number of units within that category

A = Residential Heating: Anthracite Coal; SCC 2104001000

B = Residential Heating: Bituminous Lignite; SCC 2104002000

C = Residential Heating: Distillate Oil; SCC 2104004000

D = Residential Heating: Natural Gas; 2104006000

E = Fireplaces; SCC 2104008001

F = Fireplaces: Inserts; SCC 2104008002

G = Fireplaces: Inserts; non catalytic, EPA certified; SCC 2104008003

H = Fireplaces: Inserts; catalytic, EPA certified; SCC 2104008004

I = Conventional Woodstoves; SCC 2104008010

J = Catalytic Woodstoves; SCC 2104008030

K = Non-Catalytic Woodstoves; SCC 2104008050

Appendix E-3. Residential Heating County Allocations

State FIPS	County FIPS	A	B	C	D	E	F	G	H	I	J	K
		tons coal	tons coal	MMBTU	MMBTU	tons wood	tons wood	tons wood	tons wood	tons wood	tons wood	tons wood
49	025		2.44E+02	6.86E+01		2.09E+02	4.21E+02	2.61E+01	1.05E+01	3.59E+02	8.97E+00	2.22E+01
49	027		3.50E+03	3.01E+02	2.00E+00	1.17E+02	2.36E+02	1.46E+01	5.89E+00	2.01E+02	5.03E+00	1.25E+01
49	029		4.43E+01	1.07E+00	1.48E+02	9.74E+01	4.17E+02	2.58E+01	1.04E+01	7.91E+02	1.98E+01	4.90E+01
49	031		2.94E+02	3.33E+01	1.87E+01	2.12E+01	4.28E+01	2.65E+00	1.07E+00	3.65E+01	9.12E-01	2.26E+00
49	033		9.97E+01	2.74E+01	2.77E+01	1.51E+02	3.05E+02	1.89E+01	7.62E+00	2.60E+02	6.50E+00	1.61E+01
49	035		1.58E+03	2.10E+02	2.74E+04	5.81E+03	1.17E+04	7.25E+02	2.92E+02	9.98E+03	2.49E+02	6.18E+02
49	037		9.81E+02	4.93E+01	5.01E+01	8.98E+01	3.84E+02	2.38E+01	9.61E+00	7.30E+02	1.82E+01	4.52E+01
49	039		4.97E+03	3.89E+02	2.55E+02	6.59E+02	1.33E+03	8.22E+01	3.32E+01	1.13E+03	2.83E+01	7.01E+01
49	041		4.51E+03	3.65E+02	2.49E+02	6.26E+02	1.26E+03	7.81E+01	3.15E+01	1.08E+03	2.69E+01	6.66E+01
49	043		2.44E+02	2.15E+00	5.27E+02	3.79E+02	1.62E+03	1.01E+02	4.06E+01	3.08E+03	7.70E+01	1.91E+02
49	045		1.11E+03	1.67E+02	8.35E+02	2.29E+02	4.61E+02	2.86E+01	1.15E+01	3.94E+02	9.84E+00	2.44E+01
49	047		9.75E+02	2.15E+01	2.37E+02	1.89E+02	8.11E+02	5.02E+01	2.03E+01	1.54E+03	3.85E+01	9.54E+01
49	049		3.25E+03	1.38E+02	7.81E+03	1.69E+03	3.40E+03	2.11E+02	8.50E+01	2.90E+03	7.25E+01	1.80E+02
49	051		2.44E+02	2.68E+01	2.97E+02	4.70E+02	9.47E+02	5.87E+01	2.37E+01	8.08E+02	2.02E+01	5.00E+01
49	053		3.93E+02	2.28E+02	1.92E+02	3.93E+02	7.92E+02	4.90E+01	1.98E+01	6.75E+02	1.69E+01	4.18E+01
49	055		8.31E+02	7.94E+01		2.70E+01	1.15E+02	7.15E+00	2.88E+00	2.19E+02	5.48E+00	1.36E+01
49	057		3.49E+02	8.69E+01	5.96E+03	1.43E+03	2.88E+03	1.78E+02	7.19E+01	2.45E+03	6.14E+01	1.52E+02
50	001	5.61E+01		4.87E+03	1.95E+00	6.48E+02	2.77E+03	1.72E+02	6.93E+01	5.26E+03	1.32E+02	3.26E+02
50	003	1.50E+01		7.31E+03	2.38E+01	7.73E+02	3.31E+03	2.05E+02	8.27E+01	6.28E+03	1.57E+02	3.89E+02
50	005	9.08E+01		4.39E+03	1.07E+01	5.44E+02	2.33E+03	1.44E+02	5.82E+01	4.42E+03	1.10E+02	2.74E+02
50	007	2.09E+02		1.39E+04	2.44E+03	1.80E+03	7.71E+03	4.78E+02	1.93E+02	1.46E+04	3.66E+02	9.07E+02
50	009	3.16E+00		9.81E+02	3.91E+00	2.15E+02	9.21E+02	5.71E+01	2.30E+01	1.75E+03	4.37E+01	1.08E+02
50	011	8.61E+01		5.36E+03	4.47E+02	7.39E+02	3.16E+03	1.96E+02	7.91E+01	6.01E+03	1.50E+02	3.72E+02
50	013	1.90E+01		8.15E+02	1.78E+00	2.09E+02	8.95E+02	5.55E+01	2.24E+01	1.70E+03	4.25E+01	1.05E+02
50	015	2.45E+01		2.86E+03	6.40E+00	3.86E+02	1.65E+03	1.02E+02	4.13E+01	3.14E+03	7.85E+01	1.94E+02
50	017	6.08E+01		3.55E+03	1.78E+00	5.71E+02	2.44E+03	1.51E+02	6.11E+01	4.64E+03	1.16E+02	2.87E+02
50	019	1.50E+01		3.62E+03	2.84E+00	6.01E+02	2.57E+03	1.59E+02	6.43E+01	4.88E+03	1.22E+02	3.02E+02
50	021	1.68E+02		1.21E+04	1.67E+01	1.22E+03	5.21E+03	3.23E+02	1.30E+02	9.89E+03	2.47E+02	6.13E+02
50	023	1.94E+02		8.77E+03	1.08E+01	9.57E+02	4.10E+03	2.54E+02	1.02E+02	7.78E+03	1.94E+02	4.82E+02
50	025	2.01E+02		7.16E+03	9.60E+00	1.01E+03	4.30E+03	2.67E+02	1.08E+02	8.17E+03	2.04E+02	5.06E+02
50	027	5.85E+01		9.37E+03	2.51E+01	1.22E+03	5.24E+03	3.25E+02	1.31E+02	9.95E+03	2.49E+02	6.17E+02
51	001	2.26E+00	1.62E+02	2.70E+03	1.44E+01	4.64E+02	1.99E+03	1.23E+02	4.97E+01	3.77E+03	9.43E+01	2.34E+02
51	003	9.00E-01	6.46E+01	2.53E+03	2.77E+02	6.19E+02	2.65E+03	1.64E+02	6.62E+01	5.03E+03	1.26E+02	3.12E+02
51	005	2.79E+00	2.00E+02	8.68E+02	5.12E+01	1.72E+02	7.38E+02	4.57E+01	1.84E+01	1.40E+03	3.50E+01	8.68E+01
51	007			4.73E+02	4.17E-01	9.50E+01	4.06E+02	2.52E+01	1.02E+01	7.72E+02	1.93E+01	4.78E+01
51	009			1.35E+03	2.92E+00	3.14E+02	1.34E+03	8.32E+01	3.36E+01	2.55E+03	6.38E+01	1.58E+02
51	011	9.31E-02	6.68E+00	7.04E+02	5.21E-01	1.41E+02	6.04E+02	3.74E+01	1.51E+01	1.15E+03	2.87E+01	7.11E+01
51	013	6.20E-01	4.45E+01	4.45E+03	4.44E+03	2.39E+03	4.81E+03	2.98E+02	1.20E+02	4.10E+03	1.03E+02	2.54E+02
51	015	9.93E-01	7.12E+01	3.11E+03	1.95E+02	6.31E+02	2.70E+03	1.67E+02	6.75E+01	5.13E+03	1.28E+02	3.18E+02
51	017			3.72E+02	7.29E-01	6.87E+01	2.94E+02	1.82E+01	7.35E+00	5.58E+02	1.40E+01	3.46E+01
51	019	1.83E+00	1.31E+02	1.96E+03	1.05E+01	5.52E+02	2.36E+03	1.46E+02	5.91E+01	4.49E+03	1.12E+02	2.78E+02
51	021	3.07E+00	2.20E+02	2.41E+02		7.65E+01	3.27E+02	2.03E+01	8.18E+00	6.21E+02	1.55E+01	3.85E+01
51	023	1.37E+00	9.79E+01	1.26E+03	7.28E+01	3.07E+02	1.31E+03	8.15E+01	3.29E+01	2.50E+03	6.24E+01	1.55E+02
51	025			7.78E+02	6.67E+00	1.75E+02	7.49E+02	4.64E+01	1.87E+01	1.42E+03	3.56E+01	8.82E+01
51	027	9.04E+01	6.49E+03	1.18E+03	1.27E+01	2.83E+02	1.21E+03	7.49E+01	3.02E+01	2.30E+03	5.74E+01	1.42E+02
51	029	3.41E-01	2.45E+01	5.99E+02	6.25E-01	1.33E+02	5.69E+02	3.53E+01	1.42E+01	1.08E+03	2.70E+01	6.69E+01
51	031	5.27E-01	3.78E+01	2.26E+03	1.42E+01	4.92E+02	2.11E+03	1.31E+02	5.27E+01	4.00E+03	1.00E+02	2.48E+02
51	033	1.24E-01	8.90E+00	1.13E+03	1.88E+00	2.21E+02	9.44E+02	5.85E+01	2.36E+01	1.79E+03	4.48E+01	1.11E+02

To calculate allocation proportion of national emissions to county, divide number of county unit within an industry category by total (national) number of units within that category

A = Residential Heating: Anthracite Coal; SCC 2104001000

B = Residential Heating: Bituminous Lignite; SCC 2104002000

C = Residential Heating: Distillate Oil; SCC 2104004000

D = Residential Heating: Natural Gas; 2104006000

E = Fireplaces; SCC 2104008001

F = Fireplaces: Inserts; SCC 2104008002

G = Fireplaces: Inserts; non catalytic, EPA certified; SCC 2104008003

H = Fireplaces: Inserts; catalytic, EPA certified; SCC 2104008004

I = Conventional Woodstoves; SCC 2104008010

J = Catalytic Woodstoves; SCC 2104008030

K = Non-Catalytic Woodstoves; SCC 2104008050

Appendix E-3. Residential Heating County Allocations

State FIPS	County FIPS	A	B	C	D	E	F	G	H	I	J	K
		tons coal	tons coal	MMBTU	MMBTU	tons wood	tons wood	tons wood	tons wood	tons wood	tons wood	tons wood
51	035	2.70E+00	1.94E+02	1.55E+03	2.61E+00	3.51E+02	1.50E+03	9.31E+01	3.76E+01	2.85E+03	7.13E+01	1.77E+02
51	036			3.74E+02	1.15E+00	6.57E+01	1.32E+02	8.19E+00	3.31E+00	1.13E+02	2.82E+00	6.99E+00
51	037	3.41E-01	2.45E+01	7.53E+02	9.38E-01	1.43E+02	6.14E+02	3.80E+01	1.54E+01	1.17E+03	2.91E+01	7.22E+01
51	041	1.40E+00	1.00E+02	5.74E+03	1.31E+03	5.48E+03	1.10E+04	6.83E+02	2.76E+02	9.41E+03	2.35E+02	5.83E+02
51	043	4.96E-01	3.56E+01	6.80E+02	2.71E+00	1.47E+02	6.29E+02	3.90E+01	1.57E+01	1.19E+03	2.99E+01	7.40E+01
51	045	6.20E-02	4.45E+00	2.41E+02		5.62E+01	2.41E+02	1.49E+01	6.01E+00	4.57E+02	1.14E+01	2.83E+01
51	047			9.30E+02	2.78E+02	2.94E+02	1.26E+03	7.80E+01	3.15E+01	2.39E+03	5.98E+01	1.48E+02
51	049	2.48E-01	1.78E+01	4.98E+02		9.72E+01	4.16E+02	2.58E+01	1.04E+01	7.90E+02	1.98E+01	4.89E+01
51	051	4.03E+01	2.89E+03	7.51E+02	6.25E-01	1.75E+02	7.48E+02	4.64E+01	1.87E+01	1.42E+03	3.55E+01	8.80E+01
51	053	2.17E-01	1.56E+01	1.08E+03	8.75E+00	2.44E+02	1.05E+03	6.48E+01	2.61E+01	1.98E+03	4.96E+01	1.23E+02
51	057	9.31E-02	6.68E+00	6.00E+02	2.50E+00	1.22E+02	5.23E+02	3.24E+01	1.31E+01	9.92E+02	2.48E+01	6.15E+01
51	059	1.58E+00	1.14E+02	1.03E+04	1.50E+04	6.08E+03	2.60E+04	1.61E+03	6.51E+02	4.94E+04	1.24E+03	3.06E+03
51	061	6.51E-01	4.67E+01	1.76E+03	1.76E+02	5.66E+02	2.42E+03	1.50E+02	6.06E+01	4.60E+03	1.15E+02	2.85E+02
51	063	2.05E+00	1.47E+02	5.74E+02		1.68E+02	7.18E+02	4.45E+01	1.80E+01	1.36E+03	3.41E+01	8.45E+01
51	065	2.17E-01	1.56E+01	5.06E+02	1.15E+00	1.67E+02	7.13E+02	4.42E+01	1.78E+01	1.35E+03	3.38E+01	8.39E+01
51	067	3.07E+00	2.20E+02	2.15E+03	5.31E+00	4.65E+02	1.99E+03	1.23E+02	4.97E+01	3.78E+03	9.44E+01	2.34E+02
51	069	2.73E+00	1.96E+02	1.75E+03	1.06E+02	5.13E+02	2.20E+03	1.36E+02	5.49E+01	4.17E+03	1.04E+02	2.58E+02
51	071	4.31E+00	3.09E+02	8.70E+02	7.03E+01	2.04E+02	8.74E+02	5.41E+01	2.18E+01	1.66E+03	4.15E+01	1.03E+02
51	073			1.20E+03	2.29E+00	3.33E+02	6.71E+02	4.15E+01	1.68E+01	5.72E+02	1.43E+01	3.54E+01
51	075	1.55E-01	1.11E+01	6.70E+02	1.15E+00	4.05E+02	8.16E+02	5.06E+01	2.04E+01	6.97E+02	1.74E+01	4.32E+01
51	077	1.43E+00	1.02E+02	1.14E+03		2.15E+02	9.20E+02	5.70E+01	2.30E+01	1.75E+03	4.37E+01	1.08E+02
51	079	2.17E-01	1.56E+01	3.91E+02	1.65E+01	1.22E+02	5.23E+02	3.24E+01	1.31E+01	9.92E+02	2.48E+01	6.15E+01
51	081			4.92E+02	4.06E+00	9.64E+01	4.13E+02	2.56E+01	1.03E+01	7.84E+02	1.96E+01	4.85E+01
51	083	5.58E-01	4.01E+01	2.70E+03	1.31E+01	3.43E+02	1.47E+03	9.11E+01	3.67E+01	2.79E+03	6.98E+01	1.73E+02
51	085	9.93E-01	7.12E+01	3.09E+03	6.46E+00	7.77E+02	3.33E+03	2.06E+02	8.32E+01	6.32E+03	1.58E+02	3.91E+02
51	087	8.07E-01	5.79E+01	9.20E+03	2.88E+03	2.17E+03	4.37E+03	2.71E+02	1.09E+02	3.73E+03	9.33E+01	2.31E+02
51	089	1.46E+00	1.05E+02	3.83E+03	3.19E+01	6.15E+02	2.63E+03	1.63E+02	6.58E+01	5.00E+03	1.25E+02	3.10E+02
51	091			9.38E+01	3.13E-01	4.74E+01	2.03E+02	1.26E+01	5.07E+00	3.85E+02	9.62E+00	2.38E+01
51	093			1.23E+03	6.04E+01	2.77E+02	1.19E+03	7.34E+01	2.96E+01	2.25E+03	5.63E+01	1.39E+02
51	095			1.12E+03	2.16E+02	3.24E+02	6.52E+02	4.04E+01	1.63E+01	5.57E+02	1.39E+01	3.45E+01
51	097			4.67E+02		7.45E+01	3.19E+02	1.97E+01	7.97E+00	6.05E+02	1.51E+01	3.75E+01
51	099			7.49E+02	1.35E+00	1.40E+02	2.83E+02	1.75E+01	7.07E+00	2.41E+02	6.03E+00	1.49E+01
51	101			5.89E+02		1.37E+02	5.85E+02	3.62E+01	1.46E+01	1.11E+03	2.78E+01	6.88E+01
51	103			8.54E+02	3.13E+00	1.88E+02	8.06E+02	4.99E+01	2.01E+01	1.53E+03	3.82E+01	9.48E+01
51	105	6.58E+01	4.72E+03	7.00E+02	7.29E-01	2.86E+02	1.22E+03	7.58E+01	3.06E+01	2.32E+03	5.81E+01	1.44E+02
51	107	1.55E-01	1.11E+01	2.24E+03	6.64E+02	8.03E+02	3.44E+03	2.13E+02	8.59E+01	6.52E+03	1.63E+02	4.04E+02
51	109			1.05E+03		2.56E+02	1.10E+03	6.79E+01	2.74E+01	2.08E+03	5.20E+01	1.29E+02
51	111			9.45E+02	2.08E-01	1.49E+02	6.36E+02	3.94E+01	1.59E+01	1.21E+03	3.02E+01	7.49E+01
51	113	2.17E-01	1.56E+01	6.11E+02	1.56E+00	1.33E+02	5.71E+02	3.54E+01	1.43E+01	1.08E+03	2.71E+01	6.72E+01
51	115			6.31E+02	3.13E-01	1.42E+02	2.86E+02	1.77E+01	7.14E+00	2.44E+02	6.09E+00	1.51E+01
51	117			1.87E+03	8.34E+01	3.95E+02	1.69E+03	1.05E+02	4.22E+01	3.21E+03	8.02E+01	1.99E+02
51	119			5.67E+02	1.46E+00	1.70E+02	7.28E+02	4.51E+01	1.82E+01	1.38E+03	3.46E+01	8.57E+01
51	121	3.51E+00	2.52E+02	2.43E+03	4.04E+02	4.91E+02	9.88E+02	6.12E+01	2.47E+01	8.43E+02	2.11E+01	5.22E+01
51	125			7.52E+02	4.17E-01	1.90E+02	8.13E+02	5.04E+01	2.03E+01	1.54E+03	3.86E+01	9.57E+01
51	127			4.48E+02	9.38E-01	1.30E+02	2.63E+02	1.63E+01	6.57E+00	2.24E+02	5.60E+00	1.39E+01
51	131	4.96E-01	3.56E+01	1.04E+03	1.20E+01	1.87E+02	8.00E+02	4.95E+01	2.00E+01	1.52E+03	3.80E+01	9.41E+01
51	133	6.20E-01	4.45E+01	9.00E+02	1.88E+00	2.19E+02	9.35E+02	5.79E+01	2.34E+01	1.78E+03	4.44E+01	1.10E+02
51	135	2.17E-01	1.56E+01	1.23E+03		1.72E+02	7.37E+02	4.57E+01	1.84E+01	1.40E+03	3.50E+01	8.68E+01

To calculate allocation proportion of national emissions to county, divide number of county unit within an industry category by total (national) number of units within that category

A = Residential Heating: Anthracite Coal; SCC 2104001000

B = Residential Heating: Bituminous Lignite; SCC 2104002000

C = Residential Heating: Distillate Oil; SCC 2104004000

D = Residential Heating: Natural Gas; 2104006000

E = Fireplaces; SCC 2104008001

F = Fireplaces: Inserts; SCC 2104008002

G = Fireplaces: Inserts; non catalytic, EPA certified; SCC 2104008003

H = Fireplaces: Inserts; catalytic, EPA certified; SCC 2104008004

I = Conventional Woodstoves; SCC 2104008010

J = Catalytic Woodstoves; SCC 2104008030

K = Non-Catalytic Woodstoves; SCC 2104008050

Appendix E-3. Residential Heating County Allocations

State FIPS	County FIPS	A	B	C	D	E	F	G	H	I	J	K
		tons coal	tons coal	MMBTU	MMBTU	tons wood	tons wood	tons wood	tons wood	tons wood	tons wood	tons wood
51	137			1.34E+03	1.55E+01	2.69E+02	1.15E+03	7.14E+01	2.88E+01	2.19E+03	5.47E+01	1.36E+02
51	139	9.62E-01	6.90E+01	1.65E+03	1.67E+00	2.68E+02	1.15E+03	7.10E+01	2.86E+01	2.18E+03	5.44E+01	1.35E+02
51	141	9.62E-01	6.90E+01	1.15E+03		2.29E+02	9.78E+02	6.06E+01	2.44E+01	1.86E+03	4.64E+01	1.15E+02
51	143	1.40E+00	1.00E+02	3.59E+03	5.20E+01	6.34E+02	2.71E+03	1.68E+02	6.78E+01	5.15E+03	1.29E+02	3.19E+02
51	145	1.55E-01	1.11E+01	5.91E+02		4.02E+02	8.10E+02	5.02E+01	2.03E+01	6.91E+02	1.73E+01	4.28E+01
51	147			1.01E+03	5.21E-01	1.67E+02	7.14E+02	4.42E+01	1.78E+01	1.36E+03	3.39E+01	8.40E+01
51	149			6.67E+02	1.14E+02	2.19E+02	4.40E+02	2.73E+01	1.10E+01	3.76E+02	9.39E+00	2.33E+01
51	153	2.26E+00	1.62E+02	2.96E+03	2.83E+03	1.58E+03	6.74E+03	4.18E+02	1.69E+02	1.28E+04	3.20E+02	7.93E+02
51	155	6.70E+00	4.81E+02	1.93E+03	1.33E+02	4.01E+02	1.72E+03	1.06E+02	4.29E+01	3.26E+03	8.15E+01	2.02E+02
51	157			2.98E+02	2.19E+00	1.05E+02	4.50E+02	2.79E+01	1.12E+01	8.54E+02	2.14E+01	5.29E+01
51	159	1.55E-01	1.11E+01	5.05E+02		9.46E+01	4.05E+02	2.51E+01	1.01E+01	7.69E+02	1.92E+01	4.76E+01
51	161	3.60E+00	2.58E+02	2.67E+03	1.26E+03	9.10E+02	3.89E+03	2.41E+02	9.74E+01	7.39E+03	1.85E+02	4.58E+02
51	163			1.32E+03	3.81E+01	2.37E+02	1.01E+03	6.29E+01	2.54E+01	1.93E+03	4.82E+01	1.19E+02
51	165	6.14E+00	4.41E+02	3.79E+03	3.03E+01	6.52E+02	2.79E+03	1.73E+02	6.98E+01	5.30E+03	1.32E+02	3.28E+02
51	167	6.03E+01	4.33E+03	1.32E+03		2.95E+02	1.26E+03	7.82E+01	3.16E+01	2.40E+03	5.99E+01	1.49E+02
51	169	4.09E+01	2.93E+03	9.57E+02	2.08E-01	2.88E+02	1.23E+03	7.64E+01	3.08E+01	2.34E+03	5.86E+01	1.45E+02
51	171	2.48E+00	1.78E+02	1.90E+03	3.12E+01	4.33E+02	1.85E+03	1.15E+02	4.63E+01	3.52E+03	8.79E+01	2.18E+02
51	173	9.99E+00	7.17E+02	2.08E+03	1.08E+02	3.65E+02	1.56E+03	9.68E+01	3.91E+01	2.97E+03	7.42E+01	1.84E+02
51	175			8.49E+02	2.29E+00	2.08E+02	8.91E+02	5.52E+01	2.23E+01	1.69E+03	4.23E+01	1.05E+02
51	177			1.51E+03	2.57E+02	1.42E+03	2.87E+03	1.78E+02	7.17E+01	2.45E+03	6.11E+01	1.52E+02
51	179	3.41E-01	2.45E+01	1.68E+03	1.56E+02	1.42E+03	2.87E+03	1.78E+02	7.17E+01	2.45E+03	6.11E+01	1.52E+02
51	181			4.12E+02	4.17E-01	8.10E+01	3.47E+02	2.15E+01	8.67E+00	6.58E+02	1.65E+01	4.08E+01
51	183	9.31E-02	6.68E+00	6.21E+02	5.21E-01	1.16E+02	4.97E+02	3.08E+01	1.24E+01	9.44E+02	2.36E+01	5.85E+01
51	185	7.89E+01	5.66E+03	2.09E+03	5.80E+01	4.27E+02	1.83E+03	1.13E+02	4.57E+01	3.47E+03	8.68E+01	2.15E+02
51	187	7.14E-01	5.12E+01	1.69E+03	4.38E+00	3.23E+02	1.38E+03	8.55E+01	3.45E+01	2.62E+03	6.55E+01	1.62E+02
51	191	2.55E+01	1.83E+03	1.88E+03	1.16E+02	5.35E+02	2.29E+03	1.42E+02	5.72E+01	4.34E+03	1.09E+02	2.69E+02
51	193			1.07E+03	1.35E+00	2.65E+02	1.14E+03	7.04E+01	2.84E+01	2.16E+03	5.39E+01	1.34E+02
51	195	6.56E+01	4.70E+03	1.67E+03	3.23E+00	3.86E+02	1.65E+03	1.02E+02	4.13E+01	3.14E+03	7.85E+01	1.94E+02
51	197	9.00E+00	6.46E+02	1.40E+03	8.88E+01	2.87E+02	1.23E+03	7.62E+01	3.07E+01	2.33E+03	5.84E+01	1.45E+02
51	199			1.79E+03	3.92E+02	4.07E+02	8.20E+02	5.08E+01	2.05E+01	7.00E+02	1.75E+01	4.34E+01
51	510	5.27E-01	3.78E+01	2.07E+03	2.90E+03	3.34E+02	6.73E+02	4.17E+01	1.68E+01	5.74E+02	1.44E+01	3.56E+01
51	515	4.34E-01	3.12E+01	5.98E+02		1.60E+02	3.22E+02	1.99E+01	8.05E+00	2.75E+02	6.87E+00	1.70E+01
51	520	9.80E+00	7.03E+02	3.57E+02	1.82E+02	4.89E+02	9.84E+02	6.10E+01	2.46E+01	8.39E+02	2.10E+01	5.20E+01
51	530			2.35E+01	1.78E+02	1.83E+02	3.68E+02	2.28E+01	9.19E+00	3.14E+02	7.84E+00	1.94E+01
51	540	4.34E-01	3.12E+01	5.02E+02	1.01E+03	6.94E+02	1.40E+03	8.66E+01	3.49E+01	1.19E+03	2.98E+01	7.39E+01
51	550	3.41E-01	2.45E+01	4.01E+03	1.63E+03	1.40E+03	2.82E+03	1.75E+02	7.05E+01	2.41E+03	6.02E+01	1.49E+02
51	560			3.16E+01	1.39E+02	1.35E+02	2.72E+02	1.69E+01	6.81E+00	2.32E+02	5.81E+00	1.44E+01
51	570			5.46E+02	2.76E+02	4.78E+02	9.63E+02	5.97E+01	2.41E+01	8.21E+02	2.05E+01	5.09E+01
51	580	2.17E-01	1.56E+01	1.15E+02	2.39E+02	2.28E+02	4.58E+02	2.84E+01	1.15E+01	3.91E+02	9.77E+00	2.42E+01
51	590	2.48E-01	1.78E+01	1.09E+03	1.40E+03	1.42E+03	2.85E+03	1.77E+02	7.14E+01	2.44E+03	6.09E+01	1.51E+02
51	595			3.82E+02	5.21E-01	6.27E+01	1.26E+02	7.82E+00	3.15E+00	1.08E+02	2.69E+00	6.67E+00
51	600			6.22E+02	4.51E+02	3.67E+02	7.40E+02	4.59E+01	1.85E+01	6.31E+02	1.58E+01	3.91E+01
51	610			1.66E+02	2.96E+02	1.93E+02	3.89E+02	2.41E+01	9.73E+00	3.32E+02	8.30E+00	2.06E+01
51	620			6.05E+02	4.69E+00	7.58E+01	1.53E+02	9.46E+00	3.82E+00	1.30E+02	3.26E+00	8.07E+00
51	630			6.10E+02	3.73E+02	1.24E+02	2.50E+02	1.55E+01	6.26E+00	2.14E+02	5.34E+00	1.32E+01
51	640	2.17E-01	1.56E+01	6.12E+02		1.83E+02	3.68E+02	2.28E+01	9.19E+00	3.14E+02	7.84E+00	1.94E+01
51	650	2.79E-01	2.00E+01	2.04E+03	2.81E+03	1.25E+03	2.51E+03	1.55E+02	6.27E+01	2.14E+03	5.35E+01	1.33E+02
51	660	1.21E+00	8.68E+01	1.20E+03	2.36E+02	4.07E+02	8.19E+02	5.07E+01	2.05E+01	6.99E+02	1.75E+01	4.33E+01

To calculate allocation proportion of national emissions to county, divide number of county unit within an industry category by total (national) number of units within that category

A = Residential Heating: Anthracite Coal; SCC 2104001000

B = Residential Heating: Bituminous Lignite; SCC 2104002000

C = Residential Heating: Distillate Oil; SCC 2104004000

D = Residential Heating: Natural Gas; 2104006000

E = Fireplaces; SCC 2104008001

F = Fireplaces: Inserts; SCC 2104008002

G = Fireplaces: Inserts; non catalytic, EPA certified; SCC 2104008003

H = Fireplaces: Inserts; catalytic, EPA certified; SCC 2104008004

I = Conventional Woodstoves; SCC 2104008010

J = Catalytic Woodstoves; SCC 2104008030

K = Non-Catalytic Woodstoves; SCC 2104008050

Appendix E-3. Residential Heating County Allocations

State FIPS	County FIPS	A	B	C	D	E	F	G	H	I	J	K
		tons coal	tons coal	MMBTU	MMBTU	tons wood	tons wood	tons wood	tons wood	tons wood	tons wood	tons wood
51	670	1.55E-01	1.11E+01	9.06E+02	3.14E+02	2.43E+02	4.90E+02	3.04E+01	1.23E+01	4.18E+02	1.05E+01	2.59E+01
51	678			1.94E+01	1.67E+02	1.36E+02	2.73E+02	1.69E+01	6.83E+00	2.33E+02	5.83E+00	1.44E+01
51	680	3.91E+00	2.80E+02	2.61E+03	9.44E+02	1.47E+03	2.96E+03	1.84E+02	7.41E+01	2.53E+03	6.32E+01	1.57E+02
51	683			1.23E+02	3.75E+02	3.95E+02	7.95E+02	4.92E+01	1.99E+01	6.78E+02	1.69E+01	4.20E+01
51	685			3.61E+00	1.98E+02	1.40E+02	2.82E+02	1.75E+01	7.05E+00	2.40E+02	6.01E+00	1.49E+01
51	690	6.83E-01	4.90E+01	1.14E+03	2.47E+02	4.54E+02	9.15E+02	5.67E+01	2.29E+01	7.80E+02	1.95E+01	4.83E+01
51	700	9.62E-01	6.90E+01	3.67E+03	2.55E+03	1.23E+03	2.49E+03	1.54E+02	6.22E+01	2.12E+03	5.30E+01	1.31E+02
51	710	3.26E+00	2.34E+02	6.45E+03	4.41E+03	1.64E+03	3.30E+03	2.05E+02	8.26E+01	2.82E+03	7.05E+01	1.75E+02
51	720	5.80E+00	4.16E+02	2.28E+02		9.25E+01	1.86E+02	1.15E+01	4.66E+00	1.59E+02	3.97E+00	9.85E+00
51	730	8.69E-01	6.23E+01	1.16E+03	7.88E+02	3.47E+02	6.98E+02	4.33E+01	1.75E+01	5.96E+02	1.49E+01	3.69E+01
51	735	1.24E-01	8.90E+00	5.57E+02	5.77E+01	1.19E+02	2.40E+02	1.49E+01	6.01E+00	2.05E+02	5.13E+00	1.27E+01
51	740			1.60E+03	2.50E+03	9.37E+02	1.89E+03	1.17E+02	4.72E+01	1.61E+03	4.03E+01	9.98E+01
51	750	1.55E-01	1.11E+01	4.13E+02	1.98E+02	2.56E+02	5.16E+02	3.19E+01	1.29E+01	4.40E+02	1.10E+01	2.73E+01
51	760	5.31E+00	3.81E+02	1.12E+04	4.25E+03	3.87E+03	7.80E+03	4.83E+02	1.95E+02	6.65E+03	1.66E+02	4.12E+02
51	770	3.66E+00	2.63E+02	4.08E+03	2.10E+03	2.36E+03	4.75E+03	2.94E+02	1.19E+02	4.05E+03	1.01E+02	2.51E+02
51	775	7.76E-01	5.56E+01	6.91E+02	4.87E+02	5.72E+02	1.15E+03	7.13E+01	2.88E+01	9.82E+02	2.45E+01	6.08E+01
51	790	2.79E-01	2.00E+01	2.17E+02	6.96E+02	6.13E+02	1.23E+03	7.65E+01	3.09E+01	1.05E+03	2.63E+01	6.52E+01
51	800	5.89E-01	4.23E+01	2.75E+03	2.51E+02	5.65E+02	1.14E+03	7.05E+01	2.84E+01	9.71E+02	2.43E+01	6.01E+01
51	810	5.89E-01	4.23E+01	7.26E+03	3.25E+03	2.93E+03	5.90E+03	3.66E+02	1.48E+02	5.04E+03	1.26E+02	3.12E+02
51	820	1.86E-01	1.34E+01	2.67E+02	5.78E+02	4.67E+02	9.41E+02	5.83E+01	2.35E+01	8.03E+02	2.01E+01	4.97E+01
51	830			4.26E+02	1.00E+02	5.25E+01	1.06E+02	6.56E+00	2.65E+00	9.03E+01	2.26E+00	5.59E+00
51	840	4.65E-01	3.34E+01	1.07E+03	3.07E+02	4.69E+02	9.44E+02	5.85E+01	2.36E+01	8.05E+02	2.01E+01	4.99E+01
53	001		6.82E+01	1.36E+02	1.60E+02	1.08E+02	4.62E+02	2.86E+01	1.15E+01	8.77E+02	2.19E+01	5.43E+01
53	003		3.07E+01	1.57E+02	4.42E+02	3.33E+02	1.42E+03	8.82E+01	3.56E+01	2.70E+03	6.76E+01	1.68E+02
53	005		4.43E+01	4.19E+02	3.51E+02	2.36E+03	4.74E+03	2.94E+02	1.19E+02	4.05E+03	1.01E+02	2.51E+02
53	007			2.42E+02	2.08E+02	5.95E+02	1.20E+03	7.42E+01	2.99E+01	1.02E+03	2.55E+01	6.33E+01
53	009		2.05E+01	1.93E+02	4.28E+00	5.61E+02	2.40E+03	1.49E+02	6.00E+01	4.56E+03	1.14E+02	2.82E+02
53	011		5.46E+01	1.18E+03	1.02E+03	2.31E+03	9.90E+03	6.13E+02	2.47E+02	1.88E+04	4.70E+02	1.16E+03
53	013		1.16E+02	1.13E+02		1.38E+02	2.77E+02	1.72E+01	6.93E+00	2.36E+02	5.91E+00	1.46E+01
53	015			2.26E+02	1.64E+02	1.98E+03	4.00E+03	2.48E+02	9.99E+01	3.41E+03	8.52E+01	2.11E+02
53	017			1.09E+02	3.32E+01	2.28E+02	9.77E+02	6.05E+01	2.44E+01	1.86E+03	4.64E+01	1.15E+02
53	019		1.02E+01	3.09E+01		1.39E+02	5.97E+02	3.70E+01	1.49E+01	1.13E+03	2.83E+01	7.02E+01
53	021			1.78E+02	1.21E+02	6.73E+02	1.35E+03	8.39E+01	3.39E+01	1.16E+03	2.89E+01	7.16E+01
53	023		5.11E+01	5.01E+01	5.14E-01	7.94E+01	1.60E+02	9.91E+00	4.00E+00	1.36E+02	3.41E+00	8.45E+00
53	025			6.96E+01	7.80E+01	4.57E+02	9.20E+02	5.70E+01	2.30E+01	7.85E+02	1.96E+01	4.86E+01
53	027		1.02E+01	4.11E+02	2.31E+02	1.78E+03	3.58E+03	2.22E+02	8.95E+01	3.05E+03	7.64E+01	1.89E+02
53	029		1.70E+01	4.15E+02	2.66E+02	6.97E+02	2.98E+03	1.85E+02	7.45E+01	5.66E+03	1.42E+02	3.51E+02
53	031			1.92E+02	1.37E+00	2.80E+02	1.20E+03	7.43E+01	3.00E+01	2.28E+03	5.69E+01	1.41E+02
53	033		7.23E+02	2.21E+04	3.56E+04	1.36E+04	2.73E+04	1.69E+03	6.84E+02	2.33E+04	5.83E+02	1.45E+03
53	035		6.14E+01	2.64E+03	1.77E+03	1.84E+03	7.86E+03	4.87E+02	1.97E+02	1.49E+04	3.73E+02	9.25E+02
53	037		1.19E+02	2.27E+02	2.22E+02	1.05E+03	2.11E+03	1.30E+02	5.27E+01	1.80E+03	4.49E+01	1.11E+02
53	039		4.43E+01	1.47E+02	9.68E+01	1.61E+02	6.91E+02	4.28E+01	1.73E+01	1.31E+03	3.28E+01	8.12E+01
53	041		6.38E+02	1.49E+02	4.57E+02	6.63E+02	2.84E+03	1.76E+02	7.10E+01	5.39E+03	1.35E+02	3.34E+02
53	043		5.11E+01	2.35E+02	6.44E+01	1.25E+02	2.52E+02	1.56E+01	6.31E+00	2.15E+02	5.38E+00	1.33E+01
53	045		2.39E+01	1.40E+02	1.25E+02	5.83E+02	2.49E+03	1.55E+02	6.24E+01	4.74E+03	1.18E+02	2.93E+02
53	047			1.64E+02		7.33E+02	3.14E+03	1.94E+02	7.84E+01	5.96E+03	1.49E+02	3.69E+02
53	049			8.89E+01	1.71E+00	3.12E+02	1.34E+03	8.28E+01	3.34E+01	2.54E+03	6.34E+01	1.57E+02
53	051		1.70E+01	1.75E+01		2.55E+02	1.09E+03	6.75E+01	2.72E+01	2.07E+03	5.17E+01	1.28E+02

To calculate allocation proportion of national emissions to county, divide number of county unit within an industry category by total (national) number of units within that category

A = Residential Heating: Anthracite Coal; SCC 2104001000

B = Residential Heating: Bituminous Lignite; SCC 2104002000

C = Residential Heating: Distillate Oil; SCC 2104004000

D = Residential Heating: Natural Gas; 2104006000

E = Fireplaces; SCC 2104008001

F = Fireplaces: Inserts; SCC 2104008002

G = Fireplaces: Inserts; non catalytic, EPA certified; SCC 2104008003

H = Fireplaces: Inserts; catalytic, EPA certified; SCC 2104008004

I = Conventional Woodstoves; SCC 2104008010

J = Catalytic Woodstoves; SCC 2104008030

K = Non-Catalytic Woodstoves; SCC 2104008050

Appendix E-3. Residential Heating County Allocations

State FIPS	County FIPS	A	B	C	D	E	F	G	H	I	J	K
		tons coal	tons coal	MMBTU	MMBTU	tons wood	tons wood	tons wood	tons wood	tons wood	tons wood	tons wood
53	053		3.65E+02	4.54E+03	8.07E+03	5.02E+03	1.01E+04	6.27E+02	2.53E+02	8.63E+03	2.16E+02	5.35E+02
53	055		3.41E+00	6.18E+01	2.23E+00	1.60E+02	6.84E+02	4.24E+01	1.71E+01	1.30E+03	3.25E+01	8.04E+01
53	057			7.05E+02	1.34E+03	2.14E+03	4.31E+03	2.67E+02	1.08E+02	3.67E+03	9.19E+01	2.28E+02
53	059			4.00E+01	1.90E+01	8.61E+01	3.69E+02	2.28E+01	9.21E+00	7.00E+02	1.75E+01	4.34E+01
53	061		9.21E+01	2.16E+03	4.44E+03	4.29E+03	1.84E+04	1.14E+03	4.59E+02	3.49E+04	8.71E+02	2.16E+03
53	063		1.36E+03	4.54E+03	8.13E+03	1.26E+04	2.54E+04	1.57E+03	6.34E+02	2.16E+04	5.41E+02	1.34E+03
53	065		3.07E+01	1.37E+02	1.48E+02	6.79E+02	2.90E+03	1.80E+02	7.26E+01	5.51E+03	1.38E+02	3.42E+02
53	067		4.60E+02	1.00E+03	2.40E+03	1.36E+03	5.83E+03	3.61E+02	1.46E+02	1.11E+04	2.77E+02	6.86E+02
53	069			3.01E+01		4.55E+01	1.95E+02	1.21E+01	4.86E+00	3.70E+02	9.24E+00	2.29E+01
53	071		1.40E+02	5.82E+02	8.65E+02	1.11E+03	2.24E+03	1.39E+02	5.60E+01	1.91E+03	4.78E+01	1.18E+02
53	073		9.89E+01	9.13E+02	2.41E+03	1.30E+03	2.62E+03	1.62E+02	6.55E+01	2.24E+03	5.59E+01	1.39E+02
53	075		4.02E+02	3.55E+02	5.41E+02	2.77E+02	5.59E+02	3.46E+01	1.40E+01	4.77E+02	1.19E+01	2.95E+01
53	077		8.93E+02	1.90E+03	2.16E+03	1.70E+03	3.43E+03	2.12E+02	8.57E+01	2.93E+03	7.31E+01	1.81E+02
54	001		7.99E+02	1.86E+02	2.19E+02	1.72E+02	7.36E+02	4.56E+01	1.84E+01	1.40E+03	3.49E+01	8.66E+01
54	003		1.38E+02	2.95E+03	1.75E+02	6.05E+02	2.59E+03	1.60E+02	6.47E+01	4.92E+03	1.23E+02	3.05E+02
54	005		9.17E+02	6.18E+01	4.67E+02	2.68E+02	1.15E+03	7.10E+01	2.86E+01	2.18E+03	5.44E+01	1.35E+02
54	007		4.09E+02	3.68E+01	2.05E+02	1.56E+02	6.66E+02	4.13E+01	1.66E+01	1.26E+03	3.16E+01	7.83E+01
54	009		4.31E+02	4.63E+02	5.55E+02	2.82E+02	1.21E+03	7.47E+01	3.01E+01	2.29E+03	5.72E+01	1.42E+02
54	011		3.90E+02	1.96E+02	2.27E+03	2.55E+03	5.14E+03	3.18E+02	1.28E+02	4.38E+03	1.10E+02	2.72E+02
54	013				2.25E+02	9.34E+01	4.00E+02	2.48E+01	9.99E+00	7.59E+02	1.90E+01	4.70E+01
54	015		3.70E+02	2.24E+01	1.73E+02	1.22E+02	5.23E+02	3.24E+01	1.31E+01	9.92E+02	2.48E+01	6.15E+01
54	017			1.21E+01	1.95E+02	9.91E+01	4.24E+02	2.63E+01	1.06E+01	8.06E+02	2.01E+01	4.99E+01
54	019		2.27E+03	4.12E+02	8.03E+02	6.06E+02	2.59E+03	1.61E+02	6.48E+01	4.92E+03	1.23E+02	3.05E+02
54	021		1.72E+01	3.79E-01	1.98E+02	8.49E+01	3.63E+02	2.25E+01	9.09E+00	6.90E+02	1.73E+01	4.28E+01
54	023		4.54E+02	4.30E+02	1.16E+01	1.13E+02	4.84E+02	3.00E+01	1.21E+01	9.18E+02	2.30E+01	5.69E+01
54	025		1.52E+03	1.27E+03	2.47E+02	4.57E+02	1.95E+03	1.21E+02	4.88E+01	3.71E+03	9.27E+01	2.30E+02
54	027		2.78E+02	7.01E+02		2.42E+02	1.03E+03	6.40E+01	2.58E+01	1.96E+03	4.91E+01	1.22E+02
54	029		2.17E+02	4.92E+02	8.26E+02	9.74E+02	1.96E+03	1.21E+02	4.90E+01	1.67E+03	4.18E+01	1.04E+02
54	031		1.27E+02	4.72E+02	1.33E+00	1.46E+02	6.26E+02	3.88E+01	1.56E+01	1.19E+03	2.97E+01	7.36E+01
54	033		2.56E+02	4.70E+01	2.11E+03	2.01E+03	4.05E+03	2.51E+02	1.01E+02	3.46E+03	8.64E+01	2.14E+02
54	035		1.38E+02	4.74E+01	3.98E+02	2.74E+02	1.17E+03	7.28E+01	2.94E+01	2.23E+03	5.57E+01	1.38E+02
54	037		1.21E+02	1.67E+03	3.64E+00	3.78E+02	1.62E+03	1.00E+02	4.05E+01	3.08E+03	7.69E+01	1.91E+02
54	039		9.52E+02	2.50E+02	5.04E+03	5.62E+03	1.13E+04	7.01E+02	2.83E+02	9.65E+03	2.41E+02	5.98E+02
54	041		4.52E+01	3.79E+00	4.70E+02	1.79E+02	7.64E+02	4.73E+01	1.91E+01	1.45E+03	3.63E+01	8.99E+01
54	043		5.51E+02	2.77E+01	3.87E+02	2.26E+02	9.65E+02	5.98E+01	2.41E+01	1.83E+03	4.58E+01	1.14E+02
54	045		1.91E+03	1.39E+02	7.07E+02	4.51E+02	1.93E+03	1.20E+02	4.83E+01	3.67E+03	9.16E+01	2.27E+02
54	047		1.03E+04	9.79E+02	1.01E+02	4.01E+02	1.71E+03	1.06E+02	4.29E+01	3.26E+03	8.14E+01	2.02E+02
54	049		6.12E+02	1.34E+02	1.63E+03	6.34E+02	2.71E+03	1.68E+02	6.79E+01	5.16E+03	1.29E+02	3.19E+02
54	051		2.02E+02	3.42E+02	6.85E+02	4.46E+02	1.91E+03	1.18E+02	4.77E+01	3.62E+03	9.05E+01	2.24E+02
54	053		5.51E+02	4.08E+02	2.20E+02	2.88E+02	1.23E+03	7.64E+01	3.08E+01	2.34E+03	5.85E+01	1.45E+02
54	055		4.34E+03	1.25E+03	6.29E+02	7.26E+02	3.11E+03	1.93E+02	7.77E+01	5.90E+03	1.48E+02	3.66E+02
54	057		1.72E+03	8.77E+02	2.58E+02	2.50E+02	1.07E+03	6.64E+01	2.68E+01	2.03E+03	5.09E+01	1.26E+02
54	059		3.80E+03	2.74E+02	2.68E+02	3.13E+02	1.34E+03	8.29E+01	3.34E+01	2.54E+03	6.35E+01	1.57E+02
54	061		1.23E+03	5.56E+02	1.66E+03	6.44E+02	2.76E+03	1.71E+02	6.89E+01	5.23E+03	1.31E+02	3.24E+02
54	063		4.13E+02	4.07E+02	4.42E+01	1.51E+02	6.47E+02	4.01E+01	1.62E+01	1.23E+03	3.07E+01	7.62E+01
54	065		1.49E+02	6.20E+02	1.51E+00	1.78E+02	7.62E+02	4.72E+01	1.90E+01	1.45E+03	3.62E+01	8.96E+01
54	067		1.72E+03	2.85E+02	2.41E+02	2.63E+02	1.13E+03	6.97E+01	2.81E+01	2.14E+03	5.34E+01	1.32E+02
54	069		1.94E+02	2.53E+02	1.36E+03	5.00E+02	1.01E+03	6.24E+01	2.52E+01	8.59E+02	2.15E+01	5.32E+01

To calculate allocation proportion of national emissions to county, divide number of county unit within an industry category by total (national) number of units within that category

A = Residential Heating: Anthracite Coal; SCC 2104001000

B = Residential Heating: Bituminous Lignite; SCC 2104002000

C = Residential Heating: Distillate Oil; SCC 2104004000

D = Residential Heating: Natural Gas; 2104006000

E = Fireplaces; SCC 2104008001

F = Fireplaces: Inserts; SCC 2104008002

G = Fireplaces: Inserts; non catalytic, EPA certified; SCC 2104008003

H = Fireplaces: Inserts; catalytic, EPA certified; SCC 2104008004

I = Conventional Woodstoves; SCC 2104008010

J = Catalytic Woodstoves; SCC 2104008030

K = Non-Catalytic Woodstoves; SCC 2104008050

Appendix E-3. Residential Heating County Allocations

State FIPS	County FIPS	A	B	C	D	E	F	G	H	I	J	K
		tons coal	tons coal	MMBTU	MMBTU	tons wood	tons wood	tons wood	tons wood	tons wood	tons wood	tons wood
54	071		6.89E+01	3.15E+02	3.02E+00	1.02E+02	4.37E+02	2.70E+01	1.09E+01	8.29E+02	2.07E+01	5.14E+01
54	073			9.10E+00	1.78E+02	8.27E+01	3.54E+02	2.19E+01	8.84E+00	6.72E+02	1.68E+01	4.16E+01
54	075		1.25E+02	4.28E+02	1.07E+00	1.28E+02	5.50E+02	3.41E+01	1.37E+01	1.04E+03	2.61E+01	6.47E+01
54	077		4.92E+03	1.18E+03	1.33E+02	2.94E+02	1.26E+03	7.81E+01	3.15E+01	2.39E+03	5.98E+01	1.48E+02
54	079		1.12E+02	1.41E+02	5.43E+02	4.67E+02	2.00E+03	1.24E+02	5.00E+01	3.80E+03	9.49E+01	2.35E+02
54	081		4.89E+03	4.33E+02	1.26E+03	8.46E+02	3.62E+03	2.24E+02	9.05E+01	6.87E+03	1.72E+02	4.26E+02
54	083		1.09E+03	2.88E+02	2.67E+02	2.96E+02	1.27E+03	7.86E+01	3.17E+01	2.41E+03	6.02E+01	1.49E+02
54	085			3.79E+00	2.91E+02	1.36E+02	5.82E+02	3.60E+01	1.45E+01	1.10E+03	2.76E+01	6.85E+01
54	087		5.81E+01	1.14E+01	3.57E+02	1.87E+02	8.01E+02	4.97E+01	2.00E+01	1.52E+03	3.80E+01	9.43E+01
54	089		6.83E+02	3.26E+02	1.32E+02	1.62E+02	6.95E+02	4.31E+01	1.74E+01	1.32E+03	3.30E+01	8.18E+01
54	091		6.42E+02	1.04E+02	2.87E+02	1.83E+02	7.82E+02	4.85E+01	1.96E+01	1.49E+03	3.71E+01	9.21E+01
54	093		7.77E+02	7.62E+01	1.02E+02	9.93E+01	4.25E+02	2.63E+01	1.06E+01	8.07E+02	2.02E+01	5.00E+01
54	095			2.31E+01	2.16E+02	1.31E+02	5.60E+02	3.47E+01	1.40E+01	1.06E+03	2.66E+01	6.59E+01
54	097		3.79E+02	3.26E+01	3.42E+02	2.62E+02	1.12E+03	6.94E+01	2.80E+01	2.13E+03	5.32E+01	1.32E+02
54	099		1.45E+03	1.02E+02	7.92E+02	4.88E+02	2.09E+03	1.29E+02	5.22E+01	3.96E+03	9.90E+01	2.45E+02
54	101		2.27E+03	1.77E+02	1.87E+00	1.37E+02	5.88E+02	3.64E+01	1.47E+01	1.12E+03	2.79E+01	6.92E+01
54	103		5.17E+01	7.66E+01	4.79E+02	5.17E+02	1.04E+03	6.45E+01	2.60E+01	8.88E+02	2.22E+01	5.50E+01
54	105			5.31E+00	9.54E+01	6.74E+01	2.88E+02	1.79E+01	7.21E+00	5.47E+02	1.37E+01	3.39E+01
54	107		7.97E+01	5.42E+01	2.42E+03	2.49E+03	5.01E+03	3.11E+02	1.25E+02	4.28E+03	1.07E+02	2.65E+02
54	109		3.66E+03	2.70E+02	3.27E+02	2.94E+02	1.26E+03	7.80E+01	3.15E+01	2.39E+03	5.98E+01	1.48E+02
55	001			2.49E+02	9.83E+01	5.19E+02	2.22E+03	1.38E+02	5.55E+01	4.22E+03	1.05E+02	2.61E+02
55	003		1.33E+03	4.61E+02	3.40E+02	7.48E+02	1.51E+03	9.34E+01	3.77E+01	1.29E+03	3.21E+01	7.97E+01
55	005		4.89E+02	1.42E+03	4.98E+02	9.40E+02	4.02E+03	2.49E+02	1.01E+02	7.64E+03	1.91E+02	4.73E+02
55	007		1.40E+02	5.62E+02	1.14E+02	5.52E+02	2.36E+03	1.46E+02	5.90E+01	4.48E+03	1.12E+02	2.78E+02
55	009		4.68E+03	2.55E+03	6.44E+03	5.95E+03	1.20E+04	7.42E+02	2.99E+02	1.02E+04	2.55E+02	6.33E+02
55	011		7.68E+02	7.80E+02	7.28E+01	2.85E+02	1.22E+03	7.56E+01	3.05E+01	2.32E+03	5.79E+01	1.44E+02
55	013		2.79E+02	4.24E+02	2.07E+00	6.52E+02	2.79E+03	1.73E+02	6.98E+01	5.30E+03	1.33E+02	3.28E+02
55	015		1.40E+02	1.21E+03	7.98E+02	1.18E+03	2.37E+03	1.47E+02	5.92E+01	2.02E+03	5.05E+01	1.25E+02
55	017		8.66E+03	2.87E+03	4.61E+02	1.02E+03	4.35E+03	2.70E+02	1.09E+02	8.27E+03	2.07E+02	5.12E+02
55	019		1.40E+02	1.35E+03	3.20E+02	6.66E+02	2.85E+03	1.76E+02	7.12E+01	5.41E+03	1.35E+02	3.35E+02
55	021		5.59E+02	1.47E+03	7.92E+02	1.84E+03	3.70E+03	2.29E+02	9.25E+01	3.16E+03	7.89E+01	1.96E+02
55	023		1.40E+02	4.45E+02	2.25E+02	6.40E+02	1.29E+03	7.98E+01	3.22E+01	1.10E+03	2.75E+01	6.81E+01
55	025		5.73E+03	5.16E+03	1.13E+04	9.94E+03	2.00E+04	1.24E+03	5.01E+02	1.71E+04	4.27E+02	1.06E+03
55	027		1.68E+03	2.39E+03	1.69E+03	2.66E+03	5.37E+03	3.32E+02	1.34E+02	4.58E+03	1.14E+02	2.84E+02
55	029		2.79E+02	1.35E+03	3.60E+02	8.71E+02	3.73E+03	2.31E+02	9.32E+01	7.08E+03	1.77E+02	4.39E+02
55	031		7.68E+02	1.93E+03	7.94E+02	1.83E+03	3.68E+03	2.28E+02	9.21E+01	3.14E+03	7.85E+01	1.95E+02
55	033		9.78E+02	1.33E+03	2.83E+02	1.12E+03	2.26E+03	1.40E+02	5.66E+01	1.93E+03	4.83E+01	1.20E+02
55	035		2.09E+02	4.67E+03	1.12E+03	2.63E+03	5.30E+03	3.28E+02	1.33E+02	4.52E+03	1.13E+02	2.80E+02
55	037			2.12E+02	2.30E-01	1.99E+02	8.52E+02	5.28E+01	2.13E+01	1.62E+03	4.04E+01	1.00E+02
55	039		6.28E+02	3.16E+03	2.20E+03	3.11E+03	6.27E+03	3.89E+02	1.57E+02	5.35E+03	1.34E+02	3.31E+02
55	041			1.85E+02	1.04E+02	3.75E+02	1.60E+03	9.94E+01	4.01E+01	3.05E+03	7.61E+01	1.89E+02
55	043		3.49E+02	2.70E+03	5.31E+02	1.75E+03	3.51E+03	2.18E+02	8.79E+01	3.00E+03	7.50E+01	1.86E+02
55	045		1.40E+02	1.70E+03	5.07E+02	1.14E+03	2.30E+03	1.42E+02	5.74E+01	1.96E+03	4.90E+01	1.21E+02
55	047			4.27E+02	4.35E+02	9.18E+02	1.85E+03	1.15E+02	4.62E+01	1.58E+03	3.94E+01	9.78E+01
55	049		1.40E+02	1.07E+03	2.03E+02	8.25E+02	1.66E+03	1.03E+02	4.15E+01	1.42E+03	3.54E+01	8.78E+01
55	051			3.02E+02	9.19E+01	2.75E+02	1.18E+03	7.28E+01	2.94E+01	2.23E+03	5.58E+01	1.38E+02
55	053		4.89E+02	8.38E+02	1.15E+02	3.61E+02	1.54E+03	9.57E+01	3.86E+01	2.93E+03	7.33E+01	1.82E+02
55	055		3.49E+02	1.52E+03	1.73E+03	2.29E+03	4.61E+03	2.86E+02	1.15E+02	3.93E+03	9.83E+01	2.44E+02

To calculate allocation proportion of national emissions to county, divide number of county unit within an industry category by total (national) number of units within that category

A = Residential Heating: Anthracite Coal; SCC 2104001000

B = Residential Heating: Bituminous Lignite; SCC 2104002000

C = Residential Heating: Distillate Oil; SCC 2104004000

D = Residential Heating: Natural Gas; 2104006000

E = Fireplaces; SCC 2104008001

F = Fireplaces: Inserts; SCC 2104008002

G = Fireplaces: Inserts; non catalytic, EPA certified; SCC 2104008003

H = Fireplaces: Inserts; catalytic, EPA certified; SCC 2104008004

I = Conventional Woodstoves; SCC 2104008010

J = Catalytic Woodstoves; SCC 2104008030

K = Non-Catalytic Woodstoves; SCC 2104008050

Appendix E-3. Residential Heating County Allocations

State FIPS	County FIPS	A	B	C	D	E	F	G	H	I	J	K
		tons coal	tons coal	MMBTU	MMBTU	tons wood	tons wood	tons wood	tons wood	tons wood	tons wood	tons wood
55	057		2.79E+02	6.89E+02	2.33E+02	4.73E+02	2.03E+03	1.26E+02	5.06E+01	3.85E+03	9.62E+01	2.38E+02
55	059			1.25E+03	4.50E+03	4.31E+03	8.67E+03	5.37E+02	2.17E+02	7.40E+03	1.85E+02	4.58E+02
55	061		1.68E+03	1.02E+03	3.11E+02	3.76E+02	1.61E+03	9.96E+01	4.02E+01	3.05E+03	7.63E+01	1.89E+02
55	063		1.05E+03	3.79E+03	2.04E+03	2.90E+03	5.84E+03	3.62E+02	1.46E+02	4.98E+03	1.25E+02	3.09E+02
55	065			1.10E+03	1.53E+02	3.40E+02	1.46E+03	9.02E+01	3.64E+01	2.76E+03	6.91E+01	1.71E+02
55	067		2.79E+02	5.46E+02	3.40E+02	5.40E+02	2.31E+03	1.43E+02	5.78E+01	4.39E+03	1.10E+02	2.72E+02
55	069			6.37E+02	5.30E+02	6.57E+02	2.81E+03	1.74E+02	7.03E+01	5.34E+03	1.33E+02	3.31E+02
55	071		2.30E+03	1.70E+03	2.48E+03	2.80E+03	5.65E+03	3.50E+02	1.41E+02	4.82E+03	1.20E+02	2.98E+02
55	073		1.40E+02	3.47E+03	2.67E+03	4.07E+03	8.19E+03	5.07E+02	2.05E+02	6.99E+03	1.75E+02	4.33E+02
55	075		6.98E+02	1.16E+03	7.13E+02	1.18E+03	5.05E+03	3.13E+02	1.26E+02	9.58E+03	2.40E+02	5.94E+02
55	077			2.00E+02	1.80E+02	3.90E+02	1.67E+03	1.03E+02	4.17E+01	3.17E+03	7.92E+01	1.96E+02
55	078			6.39E+01	2.07E+00	8.78E+01	3.76E+02	2.33E+01	9.39E+00	7.13E+02	1.78E+01	4.42E+01
55	079		9.43E+03	1.37E+04	3.58E+04	2.17E+04	4.37E+04	2.71E+03	1.09E+03	3.73E+04	9.31E+02	2.31E+03
55	081		4.19E+02	1.52E+03	4.79E+02	1.28E+03	2.58E+03	1.60E+02	6.44E+01	2.20E+03	5.50E+01	1.36E+02
55	083		5.59E+02	1.02E+03	3.81E+02	9.14E+02	3.91E+03	2.42E+02	9.78E+01	7.43E+03	1.86E+02	4.60E+02
55	085			6.28E+02	5.68E+02	1.28E+03	5.50E+03	3.41E+02	1.37E+02	1.04E+04	2.61E+02	6.47E+02
55	087		6.98E+02	4.62E+03	3.56E+03	4.61E+03	9.29E+03	5.76E+02	2.32E+02	7.93E+03	1.98E+02	4.91E+02
55	089		5.59E+02	1.65E+03	2.14E+03	2.35E+03	4.74E+03	2.93E+02	1.18E+02	4.04E+03	1.01E+02	2.50E+02
55	091			3.03E+02	4.24E+01	1.51E+02	6.45E+02	4.00E+01	1.61E+01	1.22E+03	3.06E+01	7.59E+01
55	093		6.98E+01	1.00E+03	4.68E+02	1.01E+03	2.03E+03	1.26E+02	5.09E+01	1.74E+03	4.34E+01	1.08E+02
55	095		1.40E+02	1.27E+03	3.43E+02	9.07E+02	3.88E+03	2.40E+02	9.70E+01	7.37E+03	1.84E+02	4.57E+02
55	097		2.79E+02	1.57E+03	1.32E+03	1.99E+03	4.01E+03	2.48E+02	1.00E+02	3.42E+03	8.55E+01	2.12E+02
55	099			4.14E+02	2.06E+02	4.62E+02	1.98E+03	1.23E+02	4.95E+01	3.76E+03	9.39E+01	2.33E+02
55	101		1.40E+02	3.30E+03	5.64E+03	5.56E+03	1.12E+04	6.94E+02	2.80E+02	9.56E+03	2.39E+02	5.92E+02
55	103			5.71E+02	2.00E+02	3.64E+02	1.56E+03	9.66E+01	3.90E+01	2.96E+03	7.40E+01	1.83E+02
55	105			2.23E+03	4.39E+03	4.95E+03	9.97E+03	6.18E+02	2.49E+02	8.50E+03	2.13E+02	5.27E+02
55	107		3.49E+02	4.08E+02	1.66E+02	3.92E+02	1.68E+03	1.04E+02	4.19E+01	3.18E+03	7.96E+01	1.97E+02
55	109		8.38E+02	2.01E+03	5.70E+02	1.71E+03	3.45E+03	2.14E+02	8.63E+01	2.95E+03	7.37E+01	1.83E+02
55	111			1.68E+03	7.10E+02	1.82E+03	3.66E+03	2.27E+02	9.15E+01	3.12E+03	7.81E+01	1.94E+02
55	113			3.59E+02	2.19E+00	7.03E+02	3.01E+03	1.86E+02	7.52E+01	5.71E+03	1.43E+02	3.54E+02
55	115		7.68E+02	1.65E+03	5.83E+02	8.44E+02	3.61E+03	2.24E+02	9.03E+01	6.86E+03	1.72E+02	4.25E+02
55	117		9.78E+02	2.15E+03	3.20E+03	3.37E+03	6.79E+03	4.21E+02	1.70E+02	5.79E+03	1.45E+02	3.59E+02
55	119			7.42E+02	1.52E+02	3.74E+02	1.60E+03	9.92E+01	4.00E+01	3.04E+03	7.60E+01	1.88E+02
55	121			1.58E+03	2.42E+02	4.98E+02	2.13E+03	1.32E+02	5.33E+01	4.05E+03	1.01E+02	2.51E+02
55	123			1.28E+03	2.71E+02	5.40E+02	2.31E+03	1.43E+02	5.77E+01	4.39E+03	1.10E+02	2.72E+02
55	125			3.41E+02	1.45E+02	1.13E+03	4.83E+03	2.99E+02	1.21E+02	9.17E+03	2.29E+02	5.68E+02
55	127			1.39E+03	2.32E+03	3.41E+03	6.86E+03	4.25E+02	1.72E+02	5.86E+03	1.46E+02	3.63E+02
55	129		9.08E+02	6.48E+02	2.30E-01	5.06E+02	2.17E+03	1.34E+02	5.42E+01	4.12E+03	1.03E+02	2.55E+02
55	131		8.38E+02	2.65E+03	2.30E+03	2.98E+03	6.01E+03	3.72E+02	1.50E+02	5.12E+03	1.28E+02	3.17E+02
55	133		1.26E+03	7.28E+03	8.93E+03	1.04E+04	2.09E+04	1.29E+03	5.22E+02	1.78E+04	4.45E+02	1.10E+03
55	135		2.09E+02	1.74E+03	7.92E+02	1.01E+03	4.33E+03	2.68E+02	1.08E+02	8.22E+03	2.05E+02	5.09E+02
55	137		2.09E+02	5.76E+02	2.41E+02	6.40E+02	2.74E+03	1.70E+02	6.85E+01	5.20E+03	1.30E+02	3.22E+02
55	139		8.38E+02	2.23E+03	4.56E+03	4.75E+03	9.56E+03	5.93E+02	2.39E+02	8.16E+03	2.04E+02	5.05E+02
55	141			3.02E+03	1.55E+03	2.69E+03	5.41E+03	3.35E+02	1.35E+02	4.61E+03	1.15E+02	2.86E+02
56	001		8.08E+02		9.75E+02	8.63E+02	1.74E+03	1.08E+02	4.34E+01	1.48E+03	3.71E+01	9.18E+01
56	003		8.67E+02	4.67E+01	2.79E+02	4.71E+02	9.48E+02	5.87E+01	2.37E+01	8.09E+02	2.02E+01	5.01E+01
56	005		7.60E+03	4.56E+01	4.19E+02	7.02E+02	1.41E+03	8.76E+01	3.53E+01	1.21E+03	3.01E+01	7.47E+01
56	007		1.01E+03	2.45E+01	3.93E+02	6.48E+02	1.31E+03	8.09E+01	3.26E+01	1.11E+03	2.78E+01	6.90E+01

To calculate allocation proportion of national emissions to county, divide number of county unit within an industry category by total (national) number of units within that category

A = Residential Heating: Anthracite Coal; SCC 2104001000

B = Residential Heating: Bituminous Lignite; SCC 2104002000

C = Residential Heating: Distillate Oil; SCC 2104004000

D = Residential Heating: Natural Gas; 2104006000

E = Fireplaces; SCC 2104008001

F = Fireplaces: Inserts; SCC 2104008002

G = Fireplaces: Inserts; non catalytic, EPA certified; SCC 2104008003

H = Fireplaces: Inserts; catalytic, EPA certified; SCC 2104008004

I = Conventional Woodstoves; SCC 2104008010

J = Catalytic Woodstoves; SCC 2104008030

K = Non-Catalytic Woodstoves; SCC 2104008050

Appendix E-3. Residential Heating County Allocations

State FIPS	County FIPS	A	B	C	D	E	F	G	H	I	J	K
		tons coal	tons coal	MMBTU	MMBTU	tons wood	tons wood	tons wood	tons wood	tons wood	tons wood	tons wood
56	009		1.37E+03	8.18E+00	2.70E+02	4.01E+02	8.07E+02	5.00E+01	2.02E+01	6.89E+02	1.72E+01	4.27E+01
56	011		1.16E+03	9.47E+01	2.01E+01	1.08E+02	4.63E+02	2.87E+01	1.16E+01	8.79E+02	2.20E+01	5.45E+01
56	013		1.46E+03	1.26E+02	6.31E+02	1.20E+03	2.43E+03	1.50E+02	6.06E+01	2.07E+03	5.17E+01	1.28E+02
56	015		1.58E+02	2.92E+01	3.51E+02	5.23E+02	1.05E+03	6.53E+01	2.64E+01	8.99E+02	2.25E+01	5.57E+01
56	017		2.36E+02	3.04E+01	1.45E+02	1.98E+02	3.98E+02	2.47E+01	9.96E+00	3.40E+02	8.50E+00	2.11E+01
56	019		1.26E+03		1.59E+02	2.66E+02	5.37E+02	3.32E+01	1.34E+01	4.58E+02	1.14E+01	2.84E+01
56	021		1.46E+03	1.23E+02	2.54E+03	2.40E+03	4.84E+03	3.00E+02	1.21E+02	4.13E+03	1.03E+02	2.56E+02
56	023		2.71E+03	8.65E+01	1.22E+02	4.80E+02	9.66E+02	5.98E+01	2.41E+01	8.24E+02	2.06E+01	5.11E+01
56	025		1.70E+03	5.14E+01	2.01E+03	2.49E+03	5.01E+03	3.11E+02	1.25E+02	4.28E+03	1.07E+02	2.65E+02
56	027		4.93E+01	4.09E+01	7.19E+01	1.43E+02	2.88E+02	1.78E+01	7.20E+00	2.46E+02	6.14E+00	1.52E+01
56	029		3.15E+02	7.36E+01	6.81E+02	8.93E+02	1.80E+03	1.11E+02	4.50E+01	1.53E+03	3.84E+01	9.51E+01
56	031		4.83E+02	1.75E+01	2.05E+02	3.51E+02	7.06E+02	4.37E+01	1.76E+01	6.02E+02	1.51E+01	3.73E+01
56	033		1.14E+04	4.56E+01	5.41E+02	9.95E+02	2.00E+03	1.24E+02	5.01E+01	1.71E+03	4.27E+01	1.06E+02
56	035		1.38E+02	1.33E+02	4.54E+01	1.43E+02	6.10E+02	3.78E+01	1.52E+01	1.16E+03	2.90E+01	7.18E+01
56	037		7.49E+02	1.64E+01	1.34E+03	1.08E+03	2.17E+03	1.34E+02	5.42E+01	1.85E+03	4.63E+01	1.15E+02
56	039			2.90E+02	1.54E+01	2.48E+02	1.06E+03	6.57E+01	2.65E+01	2.01E+03	5.04E+01	1.25E+02
56	041		2.07E+02	4.67E+00	4.47E+02	4.78E+02	9.62E+02	5.96E+01	2.40E+01	8.21E+02	2.05E+01	5.08E+01
56	043		4.53E+02	4.67E+00	2.46E+02	3.47E+02	6.98E+02	4.33E+01	1.75E+01	5.96E+02	1.49E+01	3.69E+01
56	045		8.57E+02	5.14E+01	9.43E+01	2.39E+02	4.81E+02	2.98E+01	1.20E+01	4.11E+02	1.03E+01	2.54E+01
Total		**509,438**	**1,343,063**	**8.1116E+8**	**4.8558E+9**	**2,867,602**	**7,853,506**	**486,576**	**196,338**	**10,806,595**	**270,165**	**669,539**

To calculate allocation proportion of national emissions to county, divide number of county unit within an industry category by total (national) number of units within that category

A = Residential Heating: Anthracite Coal; SCC 2104001000
B = Residential Heating: Bituminous Lignite; SCC 2104002000
C = Residential Heating: Distillate Oil; SCC 2104004000
D = Residential Heating: Natural Gas; 2104006000
E = Fireplaces; SCC 2104008001
F = Fireplaces: Inserts; SCC 2104008002
G = Fireplaces: Inserts; non catalytic, EPA certified; SCC 2104008003
H = Fireplaces: Inserts; catalytic, EPA certified; SCC 2104008004
I = Conventional Woodstoves; SCC 2104008010
J = Catalytic Woodstoves; SCC 2104008030
K = Non-Catalytic Woodstoves; SCC 2104008050