

**SUPPLEMENTARY TABLE 1. Number of potentially excess deaths from the five leading cause**

Cause of death	Region**	Urbanization level	2010	2011	2012	2013	2014	2015	2016
Heart Disease	1	1-Large central metro	346	384	325	204	182	265	166
		2-Large fringe metro	309	188	97	163	0	0	0
		3-Medium metro	368	358	323	344	193	259	316
		4-Small metro	64	27	95	87	80	21	50
		5-Micropolitan	183	156	132	170	116	173	188
		6-Noncore	113	136	48	116	135	164	203
	2	1-Large central metro	4,010	3,531	3,251	3,335	3,037	3,229	3,419
		2-Large fringe metro	2,095	1,720	1,709	1,638	1,554	1,326	1,690
		3-Medium metro	643	707	519	596	572	692	713
		4-Small metro	373	366	367	436	430	447	368
		5-Micropolitan	400	409	367	366	369	433	379
		6-Noncore	191	153	190	212	140	171	154
	3	1-Large central metro	3,028	2,832	2,676	2,852	2,940	2,907	3,039
		2-Large fringe metro	2,250	1,754	1,641	1,533	1,649	1,867	1,928
		3-Medium metro	1,696	1,709	1,555	1,716	1,545	1,660	1,663
		4-Small metro	1,153	994	1,155	1,066	959	1,068	1,201
		5-Micropolitan	1,039	1,017	951	1,032	968	1,021	1,052
		6-Noncore	1,071	919	952	882	1,025	884	963
	4	1-Large central metro	3,637	3,248	3,503	3,431	3,369	3,622	3,532
		2-Large fringe metro	3,728	3,522	3,286	3,413	3,320	3,715	3,633
		3-Medium metro	6,631	6,179	6,368	6,848	6,977	7,076	7,004
		4-Small metro	3,374	3,122	3,177	3,389	3,418	3,548	3,625
		5-Micropolitan	4,800	4,554	4,685	4,616	4,720	5,136	5,229
		6-Noncore	4,661	4,482	4,386	4,702	4,858	5,017	5,206
	5	1-Large central metro	5,968	6,068	6,186	6,088	6,083	6,129	6,234
		2-Large fringe metro	2,493	2,257	2,243	2,044	2,221	2,213	2,400
		3-Medium metro	2,579	2,614	2,608	2,797	2,730	2,893	2,916
		4-Small metro	1,712	1,925	1,675	1,702	1,790	1,908	2,009
		5-Micropolitan	2,435	2,244	2,299	2,285	2,489	2,535	2,587
		6-Noncore	1,367	1,274	1,316	1,341	1,506	1,383	1,490
	6	1-Large central metro	3,192	3,120	3,032	3,467	3,493	3,662	3,861
		2-Large fringe metro	1,672	1,597	1,493	1,542	1,639	1,688	1,597
		3-Medium metro	3,561	3,284	3,661	3,612	4,156	4,273	4,567
		4-Small metro	2,040	1,925	1,890	2,039	2,035	2,080	2,133
		5-Micropolitan	2,337	2,391	2,440	2,582	2,732	3,050	3,073
		6-Noncore	2,440	2,408	2,553	2,538	2,607	2,782	2,874
	7	1-Large central metro	592	532	482	511	548	537	579
		2-Large fringe metro	717	726	706	720	714	770	737
		3-Medium metro	647	598	575	557	593	546	682
		4-Small metro	541	429	428	426	527	509	490
		5-Micropolitan	843	804	911	966	903	970	937
		6-Noncore	1,149	1,146	1,139	1,189	1,182	1,359	1,295
	8	1-Large central metro	138	70	138	152	177	119	126
		2-Large fringe metro	0	0	0	0	0	0	0
		3-Medium metro	0	0	0	0	0	0	10
		4-Small metro	224	228	226	158	182	200	190
		5-Micropolitan	212	111	175	119	105	177	145
		6-Noncore	256	341	321	339	293	320	435
9	1-Large central metro	4,037	4,064	3,634	3,441	2,900	3,320	3,650	

		2-Large fringe metro	557	467	475	354	210	259	210
		3-Medium metro	1,575	1,564	1,455	1,412	1,153	1,423	1,525
		4-Small metro	671	790	794	728	677	787	814
		5-Micropolitan	364	376	381	473	450	536	544
		6-Noncore	118	130	125	130	121	180	113
10		1-Large central metro	0	0	0	0	0	0	0
		2-Large fringe metro	209	170	43	77	7	73	119
		3-Medium metro	145	154	142	124	112	157	187
		4-Small metro	270	216	119	114	198	119	210
		5-Micropolitan	300	259	245	251	286	295	312
		6-Noncore	143	123	103	108	148	125	159
Cancer	1	1-Large central metro	523	514	385	340	242	267	111
		2-Large fringe metro	1,041	923	710	682	527	250	281
		3-Medium metro	982	795	736	492	474	567	281
		4-Small metro	226	240	205	166	107	202	126
		5-Micropolitan	353	277	236	237	197	274	203
		6-Noncore	350	269	251	188	233	226	177
	2	1-Large central metro	1,791	1,704	1,511	1,047	913	395	340
		2-Large fringe metro	1,931	1,728	1,470	985	732	302	346
		3-Medium metro	811	712	778	753	653	570	543
		4-Small metro	373	363	352	371	290	350	325
		5-Micropolitan	403	335	361	320	275	258	280
		6-Noncore	166	144	188	132	136	98	166
	3	1-Large central metro	2,369	2,346	2,286	2,111	2,140	1,758	1,688
		2-Large fringe metro	2,747	2,294	2,244	1,685	1,465	1,185	1,166
		3-Medium metro	1,982	1,678	1,536	1,397	1,649	1,423	1,380
		4-Small metro	1,132	1,135	1,015	937	1,078	1,041	764
		5-Micropolitan	831	905	804	855	772	793	747
		6-Noncore	904	1,026	905	860	890	850	873
	4	1-Large central metro	3,299	2,903	2,751	2,521	2,447	2,123	1,741
		2-Large fringe metro	3,617	3,246	2,887	2,911	2,833	2,572	2,434
		3-Medium metro	6,510	5,911	6,158	5,455	5,466	4,933	4,607
		4-Small metro	2,768	2,628	2,595	2,463	2,252	1,929	1,772
		5-Micropolitan	3,666	3,761	3,739	3,674	3,647	3,481	3,560
		6-Noncore	3,617	3,475	3,525	3,375	3,294	3,398	3,258
	5	1-Large central metro	5,124	4,509	4,654	4,136	3,970	3,863	3,516
		2-Large fringe metro	3,559	3,145	2,948	2,586	2,550	2,175	1,940
		3-Medium metro	2,860	2,688	2,494	2,406	2,422	2,422	2,108
		4-Small metro	2,006	1,891	1,861	1,677	1,893	1,749	1,527
		5-Micropolitan	2,638	2,571	2,527	2,598	2,272	2,146	2,143
		6-Noncore	1,680	1,705	1,496	1,467	1,447	1,422	1,400
	6	1-Large central metro	2,279	2,146	1,911	1,728	1,533	1,007	1,045
		2-Large fringe metro	1,385	1,260	1,168	1,185	983	805	854
		3-Medium metro	2,486	2,271	2,452	2,256	2,158	2,132	1,634
		4-Small metro	1,256	1,273	1,357	1,241	877	986	1,053
		5-Micropolitan	1,665	1,731	1,696	1,613	1,449	1,605	1,465
		6-Noncore	1,805	1,594	1,594	1,534	1,523	1,501	1,484
	7	1-Large central metro	518	501	493	475	450	422	323
		2-Large fringe metro	942	704	828	673	691	623	365
		3-Medium metro	973	861	866	734	696	724	615
		4-Small metro	493	425	443	420	455	406	433
		5-Micropolitan	788	870	873	839	785	829	680
		6-Noncore	872	926	841	927	884	799	773

8	1-Large central metro	42	22	25	0	0	0	0
	2-Large fringe metro	114	1	0	0	0	0	0
	3-Medium metro	0	0	0	0	0	0	0
	4-Small metro	270	167	155	188	91	98	84
	5-Micropolitan	92	53	1	38	48	0	0
	6-Noncore	167	189	190	118	159	146	32
9	1-Large central metro	2,399	1,786	1,658	451	103	0	0
	2-Large fringe metro	587	346	362	233	0	9	0
	3-Medium metro	1,126	1,009	870	895	640	352	148
	4-Small metro	651	374	361	465	407	448	448
	5-Micropolitan	312	266	270	264	236	199	147
	6-Noncore	97	46	82	110	0	34	38
10	1-Large central metro	410	280	270	58	39	0	0
	2-Large fringe metro	644	560	355	474	307	405	179
	3-Medium metro	622	602	591	512	464	427	325
	4-Small metro	432	387	492	336	323	292	267
	5-Micropolitan	565	485	406	400	379	468	294
	6-Noncore	148	130	120	122	170	91	120
Unintentional injury 1	1-Large central metro	167	209	187	265	293	475	613
	2-Large fringe metro	207	245	325	354	701	994	1,432
	3-Medium metro	274	306	294	524	553	890	1,158
	4-Small metro	64	69	62	97	108	162	245
	5-Micropolitan	119	130	140	172	160	228	252
	6-Noncore	101	107	104	127	111	146	192
2	1-Large central metro	0	0	0	65	30	367	919
	2-Large fringe metro	308	640	940	865	773	1,069	1,684
	3-Medium metro	75	117	147	205	183	243	390
	4-Small metro	75	98	113	127	147	151	277
	5-Micropolitan	84	95	79	88	98	124	169
	6-Noncore	45	64	62	69	62	47	83
3	1-Large central metro	560	752	787	797	908	1,140	1,839
	2-Large fringe metro	404	780	667	816	888	1,316	2,209
	3-Medium metro	641	790	797	867	923	1,118	1,544
	4-Small metro	512	557	561	571	600	791	929
	5-Micropolitan	425	518	528	498	480	535	566
	6-Noncore	525	519	552	494	545	607	638
4	1-Large central metro	1,532	1,474	1,412	1,389	1,803	2,111	3,141
	2-Large fringe metro	2,106	2,125	1,928	1,942	2,175	2,935	3,828
	3-Medium metro	3,450	3,446	3,238	3,187	3,549	4,282	5,242
	4-Small metro	1,209	1,218	1,126	1,084	1,160	1,373	1,666
	5-Micropolitan	1,871	1,917	1,857	1,685	1,774	2,061	2,272
	6-Noncore	1,986	2,103	1,922	1,811	1,893	2,048	2,127
5	1-Large central metro	1,160	1,335	1,483	1,762	2,049	2,630	3,774
	2-Large fringe metro	1,056	1,058	1,241	1,342	1,560	1,714	2,505
	3-Medium metro	955	1,101	1,196	1,279	1,460	1,645	2,368
	4-Small metro	540	727	681	673	902	1,080	1,113
	5-Micropolitan	991	1,109	1,072	1,173	1,204	1,352	1,640
	6-Noncore	676	722	762	733	739	824	910
6	1-Large central metro	1,118	1,311	1,293	1,441	1,510	1,529	2,016
	2-Large fringe metro	780	734	902	810	729	905	985
	3-Medium metro	1,624	1,647	1,548	1,487	1,679	1,629	1,964
	4-Small metro	783	794	741	788	889	904	867
	5-Micropolitan	1,071	1,103	1,219	1,094	1,226	1,176	1,204

		6-Noncore	1,071	1,050	1,090	1,032	1,036	1,089	1,154
7		1-Large central metro	192	208	240	228	226	268	358
		2-Large fringe metro	364	393	339	359	428	470	706
		3-Medium metro	433	341	379	343	407	494	463
		4-Small metro	157	321	174	177	210	186	242
		5-Micropolitan	403	450	453	385	459	386	503
		6-Noncore	605	540	597	567	533	640	582
8		1-Large central metro	225	287	269	230	307	318	303
		2-Large fringe metro	145	181	232	198	241	264	307
		3-Medium metro	239	280	280	295	348	447	486
		4-Small metro	241	231	267	288	255	351	325
		5-Micropolitan	220	274	261	269	292	319	352
		6-Noncore	424	470	471	471	466	486	517
9		1-Large central metro	1,089	1,309	1,235	1,665	1,689	2,073	2,694
		2-Large fringe metro	191	199	250	309	229	260	372
		3-Medium metro	1,079	1,174	987	1,215	1,273	1,588	1,765
		4-Small metro	503	509	533	576	547	562	569
		5-Micropolitan	389	417	420	429	403	413	449
		6-Noncore	169	169	168	170	208	205	237
10		1-Large central metro	134	149	187	181	205	257	243
		2-Large fringe metro	205	290	234	232	327	309	392
		3-Medium metro	361	387	377	401	433	514	549
		4-Small metro	257	252	287	333	379	332	354
		5-Micropolitan	292	280	234	315	280	378	381
		6-Noncore	178	228	196	182	165	212	243
Chronic Lower Respiratory Disease	1	1-Large central metro	22	55	26	46	67	24	34
		2-Large fringe metro	101	176	74	88	49	108	110
		3-Medium metro	127	183	152	198	146	169	153
		4-Small metro	83	92	70	64	90	113	77
		5-Micropolitan	104	122	139	131	99	164	153
		6-Noncore	104	114	122	78	111	140	118
2		1-Large central metro	0	0	0	0	0	0	0
		2-Large fringe metro	85	157	3	0	0	0	0
		3-Medium metro	222	179	268	206	187	213	203
		4-Small metro	118	129	124	140	122	172	110
		5-Micropolitan	213	212	190	201	162	186	197
		6-Noncore	67	41	90	63	77	90	80
3		1-Large central metro	289	405	349	360	277	316	320
		2-Large fringe metro	386	346	220	324	152	257	190
		3-Medium metro	480	516	472	570	473	482	625
		4-Small metro	427	429	417	394	418	488	426
		5-Micropolitan	340	329	334	385	370	413	391
		6-Noncore	399	426	399	403	378	486	361
4		1-Large central metro	873	669	688	775	615	679	697
		2-Large fringe metro	1,370	1,374	1,384	1,386	1,528	1,653	1,627
		3-Medium metro	2,526	2,488	2,541	2,785	2,970	3,016	3,178
		4-Small metro	1,051	1,098	1,149	1,222	1,206	1,353	1,446
		5-Micropolitan	1,546	1,562	1,681	1,773	1,846	1,921	2,093
		6-Noncore	1,425	1,453	1,584	1,725	1,606	1,797	1,821
5		1-Large central metro	1,093	1,049	956	1,099	946	1,084	1,093
		2-Large fringe metro	1,103	1,151	1,143	1,139	1,132	1,118	1,023
		3-Medium metro	1,017	1,118	1,128	1,153	1,050	1,178	1,228
		4-Small metro	816	811	841	938	838	919	1,025

		5-Micropolitan	1,076	1,168	1,138	1,257	1,265	1,387	1,372
		6-Noncore	649	644	712	761	814	765	810
6		1-Large central metro	662	581	555	490	449	454	314
		2-Large fringe metro	541	583	572	573	576	508	576
		3-Medium metro	943	904	993	1,205	1,101	1,147	1,102
		4-Small metro	509	591	554	667	682	639	593
		5-Micropolitan	929	858	898	1,021	941	1,121	946
		6-Noncore	782	817	859	900	888	1,004	974
7		1-Large central metro	150	154	189	172	169	195	184
		2-Large fringe metro	291	280	258	291	296	324	282
		3-Medium metro	518	514	514	504	555	585	579
		4-Small metro	255	287	284	308	274	296	335
		5-Micropolitan	423	428	451	500	502	496	550
		6-Noncore	571	571	541	548	530	656	571
8		1-Large central metro	124	70	100	123	108	124	124
		2-Large fringe metro	152	156	131	136	165	146	158
		3-Medium metro	99	76	45	93	103	169	115
		4-Small metro	257	184	216	220	186	303	260
		5-Micropolitan	152	136	112	153	186	147	156
		6-Noncore	221	196	203	175	247	206	219
9		1-Large central metro	587	735	522	618	312	420	511
		2-Large fringe metro	321	252	270	294	154	247	210
		3-Medium metro	502	483	489	412	394	459	524
		4-Small metro	313	363	321	357	305	354	317
		5-Micropolitan	162	179	204	192	198	207	264
		6-Noncore	47	63	40	79	64	79	97
10		1-Large central metro	84	125	96	81	29	41	34
		2-Large fringe metro	197	240	188	153	222	228	188
		3-Medium metro	359	355	326	302	295	296	263
		4-Small metro	251	242	266	301	258	293	327
		5-Micropolitan	257	289	266	292	273	314	320
		6-Noncore	78	108	71	77	85	84	103
Stroke	1	1-Large central metro	41	23	26	0	0	13	0
		2-Large fringe metro	0	0	0	0	0	0	0
		3-Medium metro	48	12	0	0	0	0	0
		4-Small metro	6	10	0	0	0	0	1
		5-Micropolitan	29	7	0	0	0	0	0
		6-Noncore	30	18	6	13	22	0	6
	2	1-Large central metro	229	159	34	106	83	51	38
		2-Large fringe metro	91	55	119	1	0	0	0
		3-Medium metro	76	57	43	53	62	63	36
		4-Small metro	48	44	41	12	31	65	43
		5-Micropolitan	25	29	30	38	23	27	32
		6-Noncore	13	11	7	0	0	4	9
	3	1-Large central metro	450	520	442	454	432	410	432
		2-Large fringe metro	486	529	384	358	368	388	417
		3-Medium metro	206	259	227	213	266	253	286
		4-Small metro	192	153	171	158	195	185	167
		5-Micropolitan	160	147	137	116	134	122	114
		6-Noncore	178	185	162	177	169	145	129
	4	1-Large central metro	713	729	658	718	801	836	849
		2-Large fringe metro	769	700	701	721	851	1,009	1,047
		3-Medium metro	1,471	1,277	1,239	1,144	1,322	1,577	1,481

	4-Small metro	658	563	612	637	635	697	672
	5-Micropolitan	925	933	908	880	942	938	983
	6-Noncore	887	801	714	722	815	879	946
5	1-Large central metro	949	948	858	780	950	832	937
	2-Large fringe metro	444	405	394	259	370	347	274
	3-Medium metro	465	481	441	474	423	467	396
	4-Small metro	370	339	257	293	222	293	330
	5-Micropolitan	416	358	398	383	370	362	330
	6-Noncore	201	240	231	180	206	151	200
6	1-Large central metro	900	830	800	791	813	938	1,004
	2-Large fringe metro	325	276	336	311	332	367	421
	3-Medium metro	743	743	728	799	828	735	781
	4-Small metro	313	350	357	319	348	370	361
	5-Micropolitan	477	485	518	471	455	481	504
	6-Noncore	377	462	397	414	398	431	407
7	1-Large central metro	66	127	98	95	94	108	85
	2-Large fringe metro	151	151	141	72	96	178	131
	3-Medium metro	194	123	111	135	145	121	145
	4-Small metro	54	72	53	63	86	38	85
	5-Micropolitan	153	103	143	138	143	166	122
	6-Noncore	159	163	143	146	155	130	175
8	1-Large central metro	49	48	24	27	29	64	59
	2-Large fringe metro	1	10	12	0	0	0	24
	3-Medium metro	32	38	43	25	41	33	44
	4-Small metro	65	58	20	6	32	31	26
	5-Micropolitan	43	40	19	31	5	4	20
	6-Noncore	56	61	31	62	53	30	61
9	1-Large central metro	1,013	847	888	811	544	849	991
	2-Large fringe metro	180	115	141	64	107	182	138
	3-Medium metro	440	441	372	392	355	370	441
	4-Small metro	84	122	88	109	73	102	127
	5-Micropolitan	88	73	48	77	45	88	53
	6-Noncore	20	0	5	15	7	20	7
10	1-Large central metro	56	32	8	41	40	32	27
	2-Large fringe metro	61	83	60	90	54	60	83
	3-Medium metro	89	96	41	70	65	74	99
	4-Small metro	97	85	27	39	55	41	69
	5-Micropolitan	77	79	47	81	70	67	61
	6-Noncore	48	6	26	20	29	18	17

\* indicates statistically significant linear trend; \*\* indicates statistically significant quadratic trend.

Note: In some cases, APC estimates may be suppressed if the relative standard errors exceeded 100% or if the models failed to converge  
 \*\* 1 = Connecticut, Maine, Massachusetts, New Hampshire, Rhode Island, and Vermont; 2 = New Jersey, New York, Puerto Rico, and the Delaware, District of Columbia, Maryland, Pennsylvania, Virginia, and West Virginia; 4 = Alabama, Florida, Georgia, Kentucky, Mississippi, Ohio, and Wisconsin; 6 = Arkansas, Louisiana, New Mexico, Oklahoma, and Texas; 7 = Iowa, Kansas, Missouri, and Nebraska; 8 = Colorado and Nevada; 10 = Alaska, Idaho, Oregon, and Washington.

Rate of death, by U.S. Department of Health and Human Services region and urban-rural county (continued)

2017	Trend	APC	SE	Lower 95 CI	Upper 95 CI	Linear Trend	Quadratic Trend
203		-10.1	1.0	-12.6	-7.6	*	
0		-45.1	2.5	-51.6	-38.7	*	**
336		-2.9	0.9	-5.2	-0.7		**
52		-3.9	2.0	-9.1	1.3		
174		1.2	1.2	-1.9	4.4		
88		5.2	1.4	1.6	8.7		
3,020		-2.8	0.3	-3.4	-2.1	*	**
1,397		-4.5	0.4	-5.4	-3.5	*	**
755		2.4	0.6	0.9	4.0		**
380		0.9	0.8	-1.1	2.9		
395		0.1	0.8	-2.0	2.1		
171		-1.8	1.2	-4.9	1.2		
2,836		0.2	0.3	-0.6	0.9		
2,058		0.2	0.4	-0.7	1.1		**
1,693		-0.1	0.4	-1.1	0.9		
1,112		0.4	0.5	-0.8	1.6		
997		0.0	0.5	-1.2	1.3		
1,066		0.2	0.5	-1.1	1.4		**
3,412		0.1	0.3	-0.6	0.7		
3,651		0.4	0.3	-0.3	1.1		**
7,150		1.8	0.2	1.3	2.3	*	
3,710		2.1	0.3	1.4	2.8	*	
5,237		2.0	0.2	1.4	2.5	*	**
5,043		2.1	0.2	1.5	2.7	*	
6,131		0.4	0.2	-0.2	0.9		
2,477		0.4	0.3	-0.5	1.2		**
2,777		1.6	0.3	0.9	2.4	*	
1,943		1.9	0.4	0.9	2.8	*	
2,746		2.4	0.3	1.6	3.2	*	
1,540		2.3	0.4	1.2	3.4	*	
3,924		3.8	0.3	3.1	4.4	*	
1,945		1.9	0.4	0.9	2.9	*	**
4,917		5.6	0.3	5.0	6.2	*	**
2,362		2.3	0.3	1.4	3.1	*	**
3,145		5.0	0.3	4.2	5.7	*	
2,791		2.6	0.3	1.8	3.3	*	
558		0.4	0.7	-1.3	2.2		
714		0.4	0.6	-1.1	1.8		
759		2.2	0.6	0.6	3.9		**
561		1.9	0.7	0.1	3.8		
970		2.2	0.5	0.9	3.5	*	
1,346		2.7	0.4	1.6	3.9	*	
77		-1.7	1.4	-5.3	1.9		**
0		0.0	0.0	0.0	0.0		
0		96.5	26.4	28.4	164.7		
158		-4.2	1.1	-7.1	-1.3		
111		-4.4	1.3	-7.8	-1.1		
326		3.4	0.9	1.2	5.6		
3,532		-2.3	0.3	-3.0	-1.7	*	**

291	-12.7	0.9	-14.9	-10.5	*	**
1,409	-1.4	0.4	-2.5	-0.4		**
828	1.8	0.6	0.4	3.3		
492	5.9	0.7	4.0	7.8	*	
182	4.6	1.3	1.2	8.0		
0	0.0	0.0	0.0	0.0		
180	-4.7	1.5	-8.5	-0.8		**
278	8.7	1.2	5.5	11.9	*	**
174	-4.1	1.2	-7.1	-1.1		**
344	3.2	0.9	0.8	5.6		
92	-0.7	1.4	-4.3	2.9		
21	-22.4	1.0	-24.9	-19.8	*	**
65	-23.2	0.7	-25.1	-21.3	*	**
99	-18.9	0.7	-20.7	-17.0	*	**
107	-9.8	1.2	-12.9	-6.7	*	
192	-6.7	1.0	-9.3	-4.1	*	
225	-6.6	1.0	-9.2	-4.0	*	**
0	-26.7	0.6	-28.2	-25.2	*	**
0	-29.2	0.6	-30.7	-27.6	*	**
365	-8.3	0.6	-9.9	-6.7	*	**
306	-2.6	0.8	-4.7	-0.4		
285	-5.4	0.9	-7.6	-3.1	*	
100	-5.1	1.3	-8.5	-1.7		
1,352	-6.9	0.4	-7.8	-6.0	*	**
787	-15.2	0.4	-16.2	-14.1	*	
1,199	-5.4	0.4	-6.4	-4.3	*	
696	-5.6	0.5	-6.9	-4.3	*	**
661	-3.1	0.6	-4.5	-1.7	*	
750	-2.6	0.5	-4.0	-1.3	*	
1,210	-10.8	0.3	-11.6	-9.9	*	**
1,747	-7.5	0.3	-8.3	-6.8	*	**
3,848	-6.2	0.2	-6.8	-5.7	*	**
1,632	-7.4	0.3	-8.2	-6.5	*	**
3,155	-1.8	0.3	-2.4	-1.1	*	**
3,156	-1.7	0.3	-2.4	-1.0	*	
2,742	-6.9	0.2	-7.5	-6.2	*	**
1,412	-10.5	0.3	-11.3	-9.7	*	**
1,798	-5.1	0.3	-5.9	-4.3	*	
1,293	-4.7	0.4	-5.6	-3.7	*	**
2,071	-3.7	0.3	-4.6	-2.9	*	
1,245	-3.8	0.4	-4.8	-2.8	*	
673	-14.4	0.4	-15.5	-13.4	*	**
738	-8.6	0.5	-9.9	-7.4	*	
1,539	-6.0	0.3	-6.8	-5.1	*	**
907	-5.2	0.5	-6.4	-4.0	*	
1,412	-2.6	0.4	-3.6	-1.6	*	
1,240	-3.7	0.4	-4.7	-2.6	*	
307	-6.9	0.8	-8.8	-5.0	*	
397	-10.7	0.6	-12.3	-9.1	*	**
628	-6.2	0.6	-7.7	-4.8	*	
344	-3.0	0.8	-4.9	-1.0		
707	-2.5	0.6	-3.9	-1.1	*	
721	-2.8	0.5	-4.2	-1.4	*	



0	-54.9	9.4	-79.1	-30.6	*	
0	0.0	0.0	0.0	0.0		
0	0.0	0.0	0.0	0.0		
35	-19.2	1.4	-22.9	-15.6	*	
0	-35.8	3.8	-45.7	-25.9	*	
47	-14.8	1.4	-18.5	-11.2	*	**
0	-47.1	0.9	-49.4	-44.8	*	**
0	-44.4	1.7	-48.8	-39.9	*	**
0	-25.0	0.7	-26.8	-23.2	*	**
182	-7.5	0.8	-9.5	-5.5	*	
162	-9.3	1.0	-12.0	-6.7	*	
0	-21.5	2.4	-27.7	-15.3	*	**
0	-46.7	2.2	-52.4	-41.1	*	**
110	-16.8	0.8	-19.0	-14.7	*	**
237	-11.1	0.7	-13.0	-9.3	*	**
264	-7.9	0.8	-10.0	-5.7	*	
321	-7.0	0.8	-8.9	-5.0	*	
83	-5.1	1.4	-8.8	-1.5		
664	25.0	0.9	22.7	27.3	*	
1,338	35.3	0.7	33.5	37.0	*	**
1,210	27.8	0.7	26.1	29.6	*	
239	26.2	1.5	22.4	30.0	*	
316	15.5	1.2	12.5	18.5	*	
190	10.9	1.4	7.4	14.4	*	
1,162	125.0	1.7	120.6	129.5	*	**
2,139	24.3	0.5	23.0	25.7	*	
409	25.3	1.1	22.3	28.2	*	
345	24.5	1.3	21.2	27.9	*	
192	14.2	1.5	10.4	18.0	*	
67	3.8	2.0	-1.3	8.9		
2,327	23.1	0.5	21.8	24.3	*	**
2,572	29.3	0.5	28.0	30.6	*	**
1,970	17.3	0.5	16.0	18.5	*	**
971	10.7	0.6	9.1	12.2	*	
668	4.5	0.7	2.8	6.2	*	
610	3.0	0.7	1.3	4.7	*	
3,113	14.2	0.4	13.3	15.2	*	**
4,069	12.4	0.3	11.6	13.2	*	**
5,864	9.1	0.3	8.5	9.8	*	**
1,651	5.8	0.4	4.7	6.9	*	**
2,385	3.7	0.4	2.8	4.6	*	**
2,110	0.9	0.4	0.0	1.8		**
4,414	23.0	0.3	22.1	23.9	*	**
2,970	17.6	0.4	16.6	18.6	*	**
2,785	17.1	0.4	16.1	18.2	*	**
1,384	13.5	0.5	12.1	14.9	*	
1,846	9.2	0.4	8.1	10.3	*	**
1,026	5.5	0.6	4.1	6.9	*	
1,790	7.5	0.4	6.4	8.5	*	
1,103	4.9	0.5	3.5	6.2	*	**
2,010	3.4	0.4	2.4	4.3	*	**
945	3.0	0.5	1.6	4.4	*	
1,255	1.9	0.5	0.7	3.0		

1,082	0.7	0.5	-0.6	1.9		
438	12.1	1.0	9.6	14.6	*	**
740	12.6	0.7	10.7	14.5	*	**
512	4.6	0.8	2.6	6.5	*	
226	0.9	1.1	-1.9	3.6		
471	1.7	0.7	-0.2	3.6		
675	1.6	0.6	0.0	3.3		
286	3.2	0.9	0.8	5.6		
331	11.1	1.0	8.4	13.7	*	
503	12.2	0.8	10.1	14.4	*	
365	6.6	0.9	4.3	9.0	*	
345	6.2	0.9	3.8	8.5	*	
505	2.1	0.7	0.3	4.0		
3,034	16.5	0.4	15.5	17.4	*	**
495	13.2	0.9	10.7	15.6	*	
1,935	9.9	0.4	8.8	11.0	*	**
629	2.7	0.7	1.0	4.4		
518	2.9	0.8	0.9	4.8		
208	4.9	1.1	2.0	7.8	*	
351	13.5	1.1	10.6	16.3	*	
362	8.2	0.9	5.8	10.5	*	
575	7.6	0.7	5.7	9.5	*	
415	6.8	0.9	4.6	9.0	*	
380	5.9	0.9	3.6	8.1	*	
199	1.5	1.1	-1.3	4.3		
52	3.6	2.5	-2.8	9.9		
143	0.3	1.5	-3.6	4.2		**
194	2.3	1.2	-0.8	5.4		
85	1.3	1.7	-3.0	5.7		
115	2.6	1.4	-1.0	6.1		
152	4.6	1.4	0.9	8.3		
0	0.0	0.0	0.0	0.0		
0	-59.9	6.4	-76.2	-43.5	*	**
180	-2.0	1.1	-4.8	0.8		
160	2.9	1.3	-0.5	6.4		
197	-1.4	1.1	-4.3	1.4		
58	2.5	1.9	-2.3	7.3		
286	-2.3	0.9	-4.5	-0.1		
199	-9.5	1.0	-12.0	-7.0	*	
476	1.1	0.7	-0.7	2.8		
445	1.0	0.8	-1.0	2.9		
409	3.3	0.8	1.2	5.4		
439	0.6	0.8	-1.4	2.5		
737	-1.7	0.6	-3.1	-0.2		**
1,703	3.7	0.4	2.6	4.7	*	
3,316	4.5	0.3	3.8	5.3	*	
1,418	4.8	0.4	3.7	6.0	*	
1,983	4.4	0.4	3.5	5.4	*	
1,983	4.6	0.4	3.6	5.5	*	
944	-0.7	0.5	-1.9	0.6		
1,047	-1.2	0.5	-2.4	0.0		
1,221	2.1	0.5	1.0	3.3	*	
931	2.7	0.5	1.4	4.1	*	

1,471	4.4	0.4	3.2	5.5	*	
870	4.2	0.6	2.7	5.6	*	
334	-9.5	0.7	-11.3	-7.6	*	
565	-0.1	0.7	-1.8	1.6		
1,191	3.5	0.5	2.3	4.7	*	
706	3.3	0.6	1.6	4.9	*	
1,120	2.9	0.5	1.6	4.2	*	
1,034	4.0	0.5	2.7	5.3	*	
164	1.8	1.2	-1.2	4.9		
304	1.3	0.9	-1.1	3.6		
602	2.6	0.7	0.9	4.3		
296	2.2	0.9	-0.2	4.5		
528	3.7	0.7	1.9	5.5	*	
650	1.8	0.6	0.2	3.5		
111	2.6	1.5	-1.2	6.4		
179	2.2	1.3	-1.1	5.4		
106	7.7	1.6	3.7	11.8	*	
276	3.8	1.0	1.2	6.4		
169	2.9	1.3	-0.4	6.1		
257	2.5	1.1	-0.2	5.2		
173	-10.9	0.7	-12.8	-9.0	*	**
188	-6.5	1.0	-9.1	-3.9	*	
461	-0.5	0.7	-2.3	1.4		
408	1.7	0.8	-0.5	3.9		
211	4.7	1.1	1.9	7.6	*	
51	5.7	1.9	0.7	10.7		
0	-23.1	2.2	-28.8	-17.4	*	**
140	-2.8	1.1	-5.7	0.0		
358	-2.1	0.9	-4.3	0.2		
299	3.5	0.9	1.1	5.9		
335	3.4	0.9	1.1	5.8		
91	1.6	1.7	-2.8	5.9		
13	-27.2	4.8	-39.6	-14.8	*	
0	0.0	0.0	0.0	0.0		
0	-83.3	30.2	-161.1	-5.5	*	
9	0.0	9.1	-31.9	14.9		**
8	-38.5	9.5	-62.9	-14.1	*	**
5	-21.9	4.9	-34.6	-9.2	*	
0	-28.1	2.0	-33.2	-23.1	*	
0	-46.1	4.4	-57.3	-34.9	*	**
37	-6.7	2.2	-12.2	-1.1		
54	3.7	2.4	-2.5	9.9		
31	1.4	2.9	-6.1	8.8		
8	-9.5	6.3	-25.9	6.9		
471	-1.1	0.7	-3.0	0.8		
445	-2.3	0.8	-4.3	-0.4		**
257	3.1	1.0	0.5	5.6		
166	-0.2	1.2	-3.3	2.8		
77	-7.1	1.4	-10.7	-3.5	*	
177	-2.5	1.2	-5.6	0.7		
901	4.0	0.6	2.5	5.4	*	
947	5.9	0.5	4.5	7.3	*	
1,530	2.3	0.4	1.2	3.4	*	**

710	2.2	0.6	0.6	3.7		
957	0.8	0.5	-0.5	2.1		
821	1.2	0.5	-0.2	2.6		
974	0.3	0.5	-1.1	1.6		**
324	-5.0	0.8	-7.2	-2.9	*	
494	-0.5	0.7	-2.4	1.4		
281	-2.5	0.9	-4.8	-0.2		**
367	-1.9	0.8	-4.0	0.2		
176	-3.5	1.1	-6.3	-0.6		
999	2.7	0.5	1.4	4.1	*	**
324	3.0	0.9	0.8	5.2		
785	0.8	0.6	-0.6	2.3		
418	2.9	0.8	0.8	5.1		
503	0.4	0.7	-1.4	2.2		
463	1.2	0.8	-0.8	3.1		
122	2.6	1.6	-1.5	6.6		
144	-0.1	1.4	-3.6	3.4		
111	-3.7	1.3	-7.2	-0.3		
87	5.0	1.9	0.1	9.9		
106	-1.4	1.3	-4.9	2.1		
164	0.5	1.3	-2.7	3.7		
31	1.5	2.4	-4.8	7.7		
2	8.4	6.5	-8.4	25.1		
33	0.8	2.6	-6.0	7.5		
13	-16.7	3.0	-24.3	-9.1	*	
7	-22.5	3.8	-32.2	-12.7	*	
77	3.0	2.1	-2.5	8.5		
996	0.3	0.5	-1.1	1.7		**
174	2.1	1.3	-1.3	5.5		**
454	0.2	0.8	-1.8	2.1		**
131	4.2	1.5	0.3	8.1		
84	-0.7	1.9	-5.5	4.1		
0	-8.5	5.3	-22.1	5.2		
39	-2.5	2.7	-9.4	4.4		
97	3.6	1.8	-1.1	8.3		
115	4.4	1.7	-0.1	8.8		**
74	-3.5	2.0	-8.7	1.6		**
62	-2.5	1.9	-7.4	2.4		
19	-8.2	3.3	-16.8	0.4		

or suggested a poor fit to the data.

U.S. Virgin Islands (Mortality data for residents of U.S. territories were excluded.); 3 = North Carolina, South Carolina, and Tennessee; 5 = Illinois, Indiana, Michigan, Minnesota, Idaho, Montana, North Dakota, South Dakota, Utah, and Wyoming; 9 = Arizona, California, Hawaii,

**classification — United States, 2010–2017**











