



# Traffic Safety Facts 1999

## State Alcohol Estimates

The following data provide estimates of alcohol involvement in fatal crashes for the United States and individually for the 50 states, the District of Columbia, and Puerto Rico (not included in the national totals). These estimates are based on data from NHTSA's Fatality Analysis Reporting System (FARS). Unfortunately, known BAC test results are not available for all drivers and nonoccupants involved in fatal crashes. Missing data can result for a number of reasons, the most frequent of which is that persons are not always tested for alcohol.

To address the missing data issue, NHTSA has developed and employs a statistical model to estimate the likelihood that a fatal crash-involved driver or nonoccupant was sober (BAC of zero), had some alcohol (BAC of 0.01-0.09), or was intoxicated (BAC of 0.10 or greater) at the time of the crash. The statistical model is based on important characteristics of the crash including crash factors (e.g., time of day, day of week, type of crash, location), vehicle factors (e.g., vehicle type and role in the crash), and person factors (e.g., age, sex, restraint use, previous driving violations), and whether or not the state had a 21-year-old minimum drinking age law.

The statistical model was developed using all available known data in the aggregate (that is, at the national level) and applied to each individual driver and nonoccupant with an unknown BAC test result. The estimates presented include a mix of both known and estimated BACs.

Great caution should be exercised in comparing the levels of alcohol involvement among states. Differences in alcohol involvement can be due to any number of factors not necessarily directly related to a state's alcohol traffic safety program. Factors affecting alcohol involvement in fatal crashes include:

- Population demographics and the economic environment (older drivers and female drivers exhibit lower levels of alcohol involvement, drivers of older vehicles exhibit higher levels of alcohol involvement, pedestrian fatalities as a group exhibit high levels of alcohol involvement);
- Degree of urbanization (alcohol involvement in single- and multi-vehicle crashes tends to be greater in urban fatal crashes, while alcohol involvement in nonoccupant fatal crashes is higher in rural areas);
- Types of vehicles (motorcycle drivers exhibit high levels of alcohol involvement followed by drivers of light trucks/vans; drivers of medium and heavy trucks exhibit the lowest levels of alcohol involvement).

One of the major differences among states is in the degree of testing for driver and nonoccupant BACs. These differences in testing affect the accuracy and reliability of the estimates presented, and for 1999 range from a low of 5 percent known BACs to a high of 87 percent known BACs. States with higher rates of known BACs yield estimates of fatal crash alcohol involvement with greater accuracy and precision.

### For more information:

Information on state alcohol estimates is available from the National Center for Statistics and Analysis, NRD-31, 400 Seventh Street, S.W., Washington, D.C. 20590. NCSA information can also be obtained by telephone or by fax-on-demand at 1-800-934-8517. FAX messages should be sent to (202) 366-7078. General information on highway traffic safety can be accessed by Internet users at <http://www.nhtsa.dot.gov/people/nrsa>. To report a safety-related problem or to inquire about motor vehicle safety information, contact the Auto Safety Hotline at 1-800-424-9393.



### Estimates of Alcohol-Involved Fatalities

The following tables estimate alcohol involvement for the nation and on a state-by-state basis for 1982 and 1999 using NHTSA's discriminant function model as applied to the FARS data. This model estimates BACs of drivers and nonoccupants when their BAC is not available. The estimates presented represent the combination of known and estimated BACs.

A driver or nonoccupant involved is considered *alcohol-related* if he/she is involved in the fatal crash and exhibits a BAC of 0.01 or greater (the last column on the right in the tables). A fatality is considered *alcohol-related* if any driver or nonoccupant involved in the crash had a positive BAC. Estimates are presented for four categories:

- (1) BAC of 0.00 (no alcohol)
- (2) BAC of 0.01-0.09 (low alcohol)
- (3) BAC of 0.10 or greater (high alcohol)
- (4) BAC of 0.01 or greater (any alcohol, the sum of (2) and (3)).

Nationwide in 1999, alcohol was involved in 38 percent of the traffic fatalities (8 percent low alcohol and 30 percent high alcohol), translating to 15,786 alcohol-related fatalities.

Table 1. Fatalities by Highest Blood Alcohol Concentration (BAC) in the Crash, 1982

State	Total Fatalities	No Alcohol (BAC = 0.00 g/dl)		Low Alcohol (BAC = 0.01-0.09 g/dl)		High Alcohol (BAC ≥ 0.10 g/dl)		Any Alcohol (BAC ≥ 0.01 g/dl)	
		Number	Percent	Number	Percent	Number	Percent	Number	Percent
Alabama	839	372	44	89	11	379	45	467	56
Alaska	105	48	45	3	3	54	52	57	55
Arizona	724	317	44	73	10	334	46	407	56
Arkansas	550	214	39	66	12	270	49	336	61
California	4,615	1,894	41	498	11	2,223	48	2,721	59
Colorado	668	252	38	75	11	342	51	416	62
Connecticut	515	163	32	66	13	286	56	352	68
Delaware	122	42	34	11	9	70	57	80	66
District of Columbia	35	14	40	6	17	15	43	21	60
Florida	2,653	1,418	53	252	10	983	37	1,235	47
Georgia	1,229	509	41	145	12	575	47	720	59
Hawaii	163	63	39	18	11	82	50	100	61
Idaho	256	143	56	26	10	87	34	113	44
Illinois	1,651	683	41	202	12	766	46	968	59
Indiana	961	495	52	91	9	375	39	466	48
Iowa	480	255	53	47	10	179	37	225	47
Kansas	498	274	55	41	8	183	37	224	45
Kentucky	822	379	46	99	12	344	42	443	54
Louisiana	1,091	496	45	139	13	457	42	595	55
Maine	166	84	50	18	11	64	39	82	50
Maryland	640	292	46	61	10	288	45	348	54
Massachusetts	659	266	40	79	12	314	48	393	60
Michigan	1,392	562	40	136	10	693	50	830	60
Minnesota	571	260	45	47	8	265	46	311	55
Mississippi	730	319	44	79	11	332	45	411	56
Missouri	890	444	50	96	11	350	39	446	50
Montana	254	87	34	32	12	135	53	167	66
Nebraska	261	136	52	24	9	101	39	125	48
Nevada	280	93	33	34	12	152	54	187	67
New Hampshire	173	72	42	20	12	81	47	101	58
New Jersey	1,061	467	44	145	14	449	42	594	56
New Mexico	577	210	36	67	12	300	52	367	64
New York	2,162	1,143	53	241	11	777	36	1,019	47
North Carolina	1,303	520	40	137	10	646	50	783	60
North Dakota	148	53	36	15	10	80	54	95	64
Ohio	1,607	699	44	159	10	749	47	908	56
Oklahoma	1,054	463	44	121	11	471	45	591	56
Oregon	518	193	37	55	11	270	52	325	63
Pennsylvania	1,819	756	42	219	12	845	46	1,063	58
Rhode Island	105	36	34	20	19	49	47	69	66
South Carolina	730	300	41	69	9	361	50	430	59
South Dakota	148	59	40	11	7	78	53	89	60
Tennessee	1,055	397	38	112	11	546	52	658	62
Texas	4,213	1,325	31	553	13	2,335	55	2,888	69
Utah	295	182	62	18	6	95	32	113	38
Vermont	107	38	36	20	19	48	45	69	64
Virginia	881	416	47	87	10	378	43	465	53
Washington	748	273	37	73	10	402	54	475	63
West Virginia	450	221	49	33	7	196	44	229	51
Wisconsin	770	295	38	67	9	408	53	475	62
Wyoming	201	90	45	17	8	95	47	111	55
<b>U.S. Total</b>	<b>43,945</b>	<b>18,780</b>	<b>43</b>	<b>4,809</b>	<b>11</b>	<b>20,356</b>	<b>46</b>	<b>25,165</b>	<b>57</b>
Puerto Rico	480	245	51	40	8	195	41	235	49

Table 2. Fatalities by Highest Blood Alcohol Concentration (BAC) in the Crash, 1999

State	Total Fatalities	No Alcohol (BAC = 0.00 g/dl)		Low Alcohol (BAC = 0.01-0.09 g/dl)		High Alcohol (BAC ≥ 0.10 g/dl)		Any Alcohol (BAC ≥ 0.01 g/dl)	
		Number	Percent	Number	Percent	Number	Percent	Number	Percent
Alabama	1,138	708	62	77	7	353	31	430	38
Alaska	76	36	47	8	10	32	43	40	53
Arizona	1,024	618	60	78	8	328	32	406	40
Arkansas	604	414	69	49	8	140	23	190	31
California	3,559	2,208	62	343	10	1,009	28	1,351	38
Colorado	626	406	65	49	8	171	27	220	35
Connecticut	301	167	55	33	11	101	34	134	45
Delaware	100	60	60	6	6	34	34	40	40
District of Columbia	41	19	47	6	14	16	39	22	53
Florida	2,918	1,875	64	214	7	829	28	1,043	36
Georgia	1,508	1,002	66	137	9	368	24	506	34
Hawaii	98	55	56	11	12	31	32	43	44
Idaho	278	176	63	26	9	76	28	102	37
Illinois	1,456	819	56	134	9	504	35	637	44
Indiana	1,013	671	66	77	8	265	26	342	34
Iowa	490	330	67	41	8	119	24	160	33
Kansas	537	351	65	43	8	143	27	186	35
Kentucky	814	533	65	51	6	229	28	281	35
Louisiana	924	497	54	101	11	326	35	427	46
Maine	181	122	68	8	5	51	28	59	32
Maryland	590	411	70	42	7	137	23	179	30
Massachusetts	414	211	51	63	15	140	34	203	49
Michigan	1,382	835	60	106	8	442	32	547	40
Minnesota	625	424	68	39	6	162	26	201	32
Mississippi	927	565	61	62	7	300	32	362	39
Missouri	1,094	653	60	116	11	325	30	441	40
Montana	220	117	53	16	7	87	40	103	47
Nebraska	295	170	58	38	13	87	30	125	42
Nevada	350	194	55	52	15	105	30	156	45
New Hampshire	141	75	53	24	17	42	30	66	47
New Jersey	727	436	60	79	11	211	29	291	40
New Mexico	460	254	55	37	8	169	37	206	45
New York	1,548	1,204	78	92	6	252	16	344	22
North Carolina	1,505	969	64	123	8	413	27	536	36
North Dakota	119	63	53	11	10	45	38	56	47
Ohio	1,430	972	68	78	5	380	27	458	32
Oklahoma	739	494	67	49	7	196	27	245	33
Oregon	414	244	59	29	7	141	34	170	41
Pennsylvania	1,549	944	61	111	7	494	32	605	39
Rhode Island	88	52	59	12	14	23	27	36	41
South Carolina	1,065	732	69	50	5	283	27	333	31
South Dakota	150	85	57	9	6	56	37	65	43
Tennessee	1,285	796	62	107	8	382	30	489	38
Texas	3,518	1,784	51	393	11	1,341	38	1,734	49
Utah	360	286	79	18	5	56	15	74	21
Vermont	90	56	62	9	10	25	28	34	38
Virginia	877	557	64	74	8	246	28	320	36
Washington	634	369	58	41	6	225	35	265	42
West Virginia	395	250	63	26	7	119	30	145	37
Wisconsin	745	436	59	53	7	256	34	309	41
Wyoming	189	119	63	15	8	56	29	70	37
<b>U.S. Total</b>	<b>41,611</b>	<b>25,825</b>	<b>62</b>	<b>3,466</b>	<b>8</b>	<b>12,321</b>	<b>30</b>	<b>15,786</b>	<b>38</b>
Puerto Rico	558	299	54	63	11	196	35	259	46



### Estimates of Alcohol-Involved Drivers

The following tables estimate alcohol involvement for the nation and on a state-by-state basis for 1982 and 1999 using NHTSA's discriminant function model as applied to the FARS data. This model estimates BACs of drivers and nonoccupants when their BAC is not available. The estimates presented represent the combination of known and estimated BACs.

A driver or nonoccupant involved is considered *alcohol-related* if he/she is involved in the fatal crash and exhibits a BAC of 0.01 or greater (the last column on the right in the tables). Estimates are presented for four categories:

- (1) BAC of 0.00 (no alcohol),
- (2) BAC of 0.01-0.09 (low alcohol),
- (3) BAC of 0.10 or greater (high alcohol), and
- (4) BAC of 0.01 or greater (any alcohol, the sum of (2) and (3)).

Nationwide in 1999, alcohol was present in 23 percent of the drivers involved in fatal crashes (6 percent low alcohol and 17 percent high alcohol).

Table 3. Drivers Involved in Fatal Crashes by Blood Alcohol Concentration (BAC) of the Driver, 1982

State	Total Drivers Involved	No Alcohol (BAC = 0.00 g/dl)		Low Alcohol (BAC = 0.01-0.09 g/dl)		High Alcohol (BAC ≥ 0.10 g/dl)		Any Alcohol (BAC ≥ 0.01 g/dl)	
		Number	Percent	Number	Percent	Number	Percent	Number	Percent
Alabama	1,046	647	62	87	8	312	30	399	38
Alaska	143	83	58	9	6	51	36	60	42
Arizona	915	597	65	73	8	245	27	318	35
Arkansas	682	377	55	77	11	228	33	305	45
California	5,914	3,586	61	499	8	1,829	31	2,328	39
Colorado	817	450	55	78	10	288	35	367	45
Connecticut	678	343	51	81	12	254	37	335	49
Delaware	171	93	54	17	10	61	36	78	46
District of Columbia	50	31	63	6	13	12	25	19	37
Florida	3,564	2,506	70	255	7	803	23	1,058	30
Georgia	1,614	985	61	153	10	476	29	629	39
Hawaii	200	115	57	18	9	67	33	85	43
Idaho	287	188	66	25	9	74	26	99	34
Illinois	2,131	1,333	63	189	9	609	29	798	37
Indiana	1,269	851	67	90	7	328	26	418	33
Iowa	622	427	69	43	7	152	24	195	31
Kansas	646	456	71	37	6	153	24	190	29
Kentucky	1,015	662	65	80	8	273	27	353	35
Louisiana	1,407	891	63	159	11	357	25	516	37
Maine	208	139	67	13	6	56	27	69	33
Maryland	832	540	65	62	7	230	28	292	35
Massachusetts	831	482	58	83	10	267	32	349	42
Michigan	1,879	1,122	60	165	9	592	32	757	40
Minnesota	759	486	64	49	6	224	30	273	36
Mississippi	892	545	61	80	9	267	30	347	39
Missouri	1,141	765	67	81	7	295	26	376	33
Montana	299	152	51	35	12	112	37	147	49
Nebraska	342	232	68	23	7	86	25	110	32
Nevada	335	186	56	28	8	121	36	149	44
New Hampshire	223	133	60	19	9	70	32	90	40
New Jersey	1,369	875	64	141	10	352	26	494	36
New Mexico	660	371	56	63	10	226	34	289	44
New York	2,687	1,899	71	196	7	591	22	788	29
North Carolina	1,655	1,018	62	136	8	501	30	637	38
North Dakota	192	100	52	19	10	72	38	92	48
Ohio	2,045	1,238	61	169	8	637	31	807	39
Oklahoma	1,402	901	64	115	8	386	28	501	36
Oregon	653	360	55	65	10	228	35	293	45
Pennsylvania	2,368	1,420	60	239	10	708	30	948	40
Rhode Island	128	67	52	16	13	45	35	61	48
South Carolina	937	586	63	73	8	278	30	351	37
South Dakota	180	100	55	16	9	64	36	80	45
Tennessee	1,336	734	55	130	10	472	35	602	45
Texas	5,177	2,546	49	662	13	1,969	38	2,631	51
Utah	371	272	73	23	6	76	21	99	27
Vermont	121	67	55	17	14	37	31	54	45
Virginia	1,114	723	65	85	8	306	27	391	35
Washington	950	518	54	78	8	354	37	432	46
West Virginia	547	355	65	29	5	162	30	192	35
Wisconsin	991	549	55	83	8	359	36	442	45
Wyoming	234	144	62	16	7	73	31	90	38
<b>U.S. Total</b>	<b>56,029</b>	<b>34,250</b>	<b>61</b>	<b>4,987</b>	<b>9</b>	<b>16,793</b>	<b>30</b>	<b>21,779</b>	<b>39</b>
Puerto Rico	578	411	71	40	7	127	22	167	29



Table 4. Drivers Involved in Fatal Crashes by Blood Alcohol Concentration (BAC) of the Driver, 1999

State	Total Drivers Involved	No Alcohol (BAC = 0.00 g/dl)		Low Alcohol (BAC = 0.01-0.09 g/dl)		High Alcohol (BAC ≥ 0.10 g/dl)		Any Alcohol (BAC ≥ 0.01 g/dl)	
		Number	Percent	Number	Percent	Number	Percent	Number	Percent
Alabama	1,513	1,155	76	72	5	286	19	358	24
Alaska	101	65	64	9	9	27	27	36	36
Arizona	1,383	1,090	79	67	5	226	16	293	21
Arkansas	784	618	79	46	6	120	15	166	21
California	4,590	3,591	78	287	6	712	16	999	22
Colorado	839	650	77	52	6	138	16	189	23
Connecticut	398	283	71	33	8	82	21	115	29
Delaware	152	121	80	5	3	26	17	31	20
District of Columbia	57	39	68	7	13	11	20	18	32
Florida	4,201	3,421	81	192	5	587	14	780	19
Georgia	2,077	1,681	81	116	6	280	13	396	19
Hawaii	141	100	71	8	5	33	23	41	29
Idaho	347	256	74	24	7	67	19	91	26
Illinois	2,030	1,501	74	127	6	401	20	529	26
Indiana	1,395	1,104	79	75	5	217	16	291	21
Iowa	701	561	80	42	6	98	14	140	20
Kansas	700	542	77	43	6	115	16	158	23
Kentucky	1,057	818	77	45	4	193	18	239	23
Louisiana	1,208	833	69	100	8	275	23	375	31
Maine	256	202	79	9	4	44	17	54	21
Maryland	859	718	84	38	4	103	12	141	16
Massachusetts	570	383	67	64	11	123	22	187	33
Michigan	2,000	1,545	77	108	5	347	17	455	23
Minnesota	912	735	81	35	4	142	16	177	19
Mississippi	1,214	891	73	61	5	262	22	323	27
Missouri	1,489	1,097	74	114	8	278	19	392	26
Montana	254	158	62	15	6	80	32	96	38
Nebraska	398	290	73	32	8	76	19	108	27
Nevada	458	332	73	44	9	82	18	126	27
New Hampshire	188	124	66	25	13	38	20	64	34
New Jersey	989	759	77	81	8	150	15	230	23
New Mexico	559	396	71	38	7	125	22	163	29
New York	2,077	1,821	88	66	3	190	9	256	12
North Carolina	2,114	1,705	81	100	5	309	15	409	19
North Dakota	143	96	67	10	7	37	26	47	33
Ohio	2,014	1,630	81	69	3	315	16	384	19
Oklahoma	961	764	79	43	5	154	16	197	21
Oregon	568	431	76	31	5	106	19	137	24
Pennsylvania	2,124	1,602	75	107	5	415	20	522	25
Rhode Island	117	83	71	12	11	22	18	34	29
South Carolina	1,410	1,154	82	37	3	219	16	256	18
South Dakota	193	135	70	9	5	49	25	58	30
Tennessee	1,748	1,316	75	100	6	332	19	432	25
Texas	4,782	3,267	68	413	9	1,102	23	1,515	32
Utah	434	372	86	15	3	47	11	62	14
Vermont	112	83	74	10	9	20	18	29	26
Virginia	1,159	895	77	65	6	199	17	264	23
Washington	841	615	73	41	5	185	22	226	27
West Virginia	513	394	77	24	5	95	19	119	23
Wisconsin	1,012	726	72	53	5	233	23	286	28
Wyoming	210	154	74	11	5	45	21	56	26
<b>U.S. Total</b>	<b>56,352</b>	<b>43,305</b>	<b>77</b>	<b>3,229</b>	<b>6</b>	<b>9,818</b>	<b>17</b>	<b>13,047</b>	<b>23</b>
Puerto Rico	723	500	69	68	9	154	21	223	31



### *Availability of Known BAC Test Results*

The following tables present the percentage of drivers and nonoccupants involved in fatal crashes where a BAC test was given and the results were in the FARS file. Individual tables are presented for all drivers/nonoccupants, fatally injured drivers and surviving drivers.

Nationwide in 1999, a total of 15,662 fatally injured drivers had BAC test results out of a total of 25,210, or 62 percent. For surviving drivers, BAC test results were known on 7,711 out of 31,142 drivers, or 25 percent. Overall in 1999, FARS contained BAC test results on a total of 23,373 drivers out of 56,352 involved in fatal crashes, or 41 percent. Statistics for the base year 1982 are also presented. Any individual state proportion greater than the national percentage is considered good. The higher the proportion of drivers with known BAC test results, the more reliable the state estimate.

Table 5. Driver Fatalities by State and Blood Alcohol Concentration (BAC) Test Status, 1982

State	Total Driver Fatalities	With Known Results		With Unknown Results		Not Tested		Unknown If Tested	
		Number	Percent	Number	Percent	Number	Percent	Number	Percent
Alabama	510	89	17	202	40	215	42	4	1
Alaska	63	27	43	2	3	28	44	6	10
Arizona	353	187	53	49	14	78	22	39	11
Arkansas	324	37	11	1	0	228	70	58	18
California	2,604	2,279	88	2	0	321	12	2	0
Colorado	369	314	85	6	2	49	13	0	0
Connecticut	311	212	68	19	6	80	26	0	0
Delaware	75	69	92	0	0	6	8	0	0
District of Columbia	16	14	88	0	0	1	6	1	6
Florida	1,304	423	32	208	16	662	51	11	1
Georgia	734	467	64	34	5	233	32	0	0
Hawaii	87	79	91	0	0	8	9	0	0
Idaho	131	29	22	18	14	68	52	16	12
Illinois	901	639	71	66	7	172	19	24	3
Indiana	599	285	48	102	17	185	31	27	5
Iowa	317	133	42	56	18	117	37	11	3
Kansas	315	59	19	29	9	209	66	18	6
Kentucky	502	365	73	23	5	113	23	1	0
Louisiana	591	128	22	249	42	209	35	5	1
Maine	99	50	51	5	5	43	43	1	1
Maryland	350	291	83	1	0	58	17	0	0
Massachusetts	370	44	12	239	65	19	5	68	18
Michigan	778	472	61	32	4	270	35	4	1
Minnesota	319	250	78	11	3	38	12	20	6
Mississippi	437	38	9	12	3	58	13	329	75
Missouri	534	144	27	12	2	153	29	225	42
Montana	148	79	53	0	0	34	23	35	24
Nebraska	161	89	55	13	8	33	20	26	16
Nevada	165	149	90	0	0	16	10	0	0
New Hampshire	107	51	48	9	8	47	44	0	0
New Jersey	524	453	86	3	1	68	13	0	0
New Mexico	305	253	83	21	7	27	9	4	1
New York	994	618	62	8	1	111	11	257	26
North Carolina	726	327	45	112	15	284	39	3	0
North Dakota	105	4	4	32	30	62	59	7	7
Ohio	899	390	43	128	14	277	31	104	12
Oklahoma	652	467	72	0	0	185	28	0	0
Oregon	293	269	92	2	1	22	8	0	0
Pennsylvania	1,061	734	69	80	8	247	23	0	0
Rhode Island	53	50	94	0	0	2	4	1	2
South Carolina	413	205	50	54	13	151	37	3	1
South Dakota	85	61	72	0	0	24	28	0	0
Tennessee	646	466	72	2	0	177	27	1	0
Texas	2,378	42	2	669	28	1,667	70	0	0
Utah	157	126	80	7	4	23	15	1	1
Vermont	59	51	86	1	2	5	8	2	3
Virginia	489	358	73	99	20	31	6	1	0
Washington	441	358	81	14	3	1	0	68	15
West Virginia	260	195	75	6	2	58	22	1	0
Wisconsin	459	390	85	6	1	58	13	5	1
Wyoming	117	87	74	10	9	20	17	0	0
<b>U.S. Total</b>	<b>24,690</b>	<b>13,396</b>	<b>54</b>	<b>2,654</b>	<b>11</b>	<b>7,251</b>	<b>29</b>	<b>1,389</b>	<b>6</b>
Puerto Rico	162	94	58	0	0	67	41	1	1

Table 6. Driver Fatalities by State and Blood Alcohol Concentration (BAC) Test Status, 1999

State	Total Driver Fatalities	With Known Results		With Unknown Results		Not Tested		Unknown If Tested	
		Number	Percent	Number	Percent	Number	Percent	Number	Percent
Alabama	763	45	6	392	51	320	42	6	1
Alaska	50	32	64	1	2	16	32	1	2
Arizona	527	325	62	88	17	7	1	107	20
Arkansas	407	287	71	0	0	120	29	0	0
California	1,807	1,614	89	35	2	158	9	0	0
Colorado	377	324	86	0	0	44	12	9	2
Connecticut	169	140	83	1	1	23	14	5	3
Delaware	65	57	88	0	0	8	12	0	0
District of Columbia	19	0	0	0	0	18	95	1	5
Florida	1,586	998	63	0	0	582	37	6	0
Georgia	929	497	53	338	36	90	10	4	0
Hawaii	49	43	88	1	2	5	10	0	0
Idaho	160	85	53	9	6	66	41	0	0
Illinois	902	799	89	0	0	103	11	0	0
Indiana	688	307	45	150	22	215	31	16	2
Iowa	321	185	58	8	2	127	40	1	0
Kansas	338	196	58	17	5	120	36	5	1
Kentucky	555	347	63	3	1	170	31	35	6
Louisiana	549	286	52	153	28	67	12	43	8
Maine	123	113	92	0	0	10	8	0	0
Maryland	361	92	25	263	73	6	2	0	0
Massachusetts	257	217	84	15	6	19	7	6	2
Michigan	855	666	78	24	3	165	19	0	0
Minnesota	425	365	86	3	1	36	8	21	5
Mississippi	626	397	63	0	0	229	37	0	0
Missouri	730	536	73	2	0	49	7	143	20
Montana	142	66	46	1	1	18	13	57	40
Nebraska	198	185	93	1	1	12	6	0	0
Nevada	169	144	85	7	4	18	11	0	0
New Hampshire	98	84	86	2	2	5	5	7	7
New Jersey	384	302	79	7	2	75	20	0	0
New Mexico	237	216	91	2	1	7	3	12	5
New York	841	238	28	0	0	15	2	588	70
North Carolina	952	385	40	0	0	356	37	211	22
North Dakota	72	57	79	0	0	15	21	0	0
Ohio	940	371	39	252	27	276	29	41	4
Oklahoma	449	359	80	0	0	49	11	41	9
Oregon	246	226	92	0	0	20	8	0	0
Pennsylvania	974	682	70	181	19	75	8	36	4
Rhode Island	57	54	95	0	0	3	5	0	0
South Carolina	677	270	40	40	6	365	54	2	0
South Dakota	92	73	79	1	1	9	10	9	10
Tennessee	859	474	55	0	0	65	8	320	37
Texas	2,086	809	39	366	18	909	44	2	0
Utah	209	110	53	5	2	93	44	1	0
Vermont	56	46	82	1	2	7	13	2	4
Virginia	575	444	77	0	0	46	8	85	15
Washington	398	358	90	0	0	39	10	1	0
West Virginia	252	228	90	3	1	19	8	2	1
Wisconsin	497	434	87	2	0	56	11	5	1
Wyoming	112	94	84	0	0	18	16	0	0
<b>U.S. Total</b>	<b>25,210</b>	<b>15,662</b>	<b>62</b>	<b>2,374</b>	<b>9</b>	<b>5,343</b>	<b>21</b>	<b>1,831</b>	<b>7</b>
Puerto Rico	234	190	81	2	1	42	18	0	0

Table 7. Surviving Drivers by State and Blood Alcohol Concentration (BAC) Test Status, 1982

State	Total Surviving Drivers	With Known Results		With Unknown Results		Not Tested		Unknown If Tested	
		Number	Percent	Number	Percent	Number	Percent	Number	Percent
Alabama	536	10	2	108	20	415	77	3	1
Alaska	80	26	33	0	0	48	60	6	8
Arizona	562	64	11	20	4	399	71	79	14
Arkansas	358	41	11	0	0	281	78	36	10
California	3,310	684	21	65	2	2,413	73	148	4
Colorado	448	206	46	0	0	240	54	2	0
Connecticut	367	80	22	19	5	268	73	0	0
Delaware	96	72	75	0	0	23	24	1	1
District of Columbia	34	10	29	0	0	23	68	1	3
Florida	2,260	467	21	199	9	1,477	65	117	5
Georgia	880	325	37	15	2	539	61	1	0
Hawaii	113	17	15	1	1	95	84	0	0
Idaho	156	22	14	22	14	108	69	4	3
Illinois	1,230	54	4	30	2	1,094	89	52	4
Indiana	670	154	23	40	6	440	66	36	5
Iowa	305	36	12	13	4	244	80	12	4
Kansas	331	26	8	17	5	277	84	11	3
Kentucky	513	100	19	18	4	394	77	1	0
Louisiana	816	236	29	140	17	420	51	20	2
Maine	109	15	14	3	3	90	83	1	1
Maryland	482	25	5	32	7	423	88	2	0
Massachusetts	461	19	4	4	1	202	44	236	51
Michigan	1,101	219	20	13	1	861	78	8	1
Minnesota	440	120	27	103	23	150	34	67	15
Mississippi	455	35	8	4	1	162	36	254	56
Missouri	607	31	5	15	2	467	77	94	15
Montana	151	40	26	2	1	83	55	26	17
Nebraska	181	101	56	7	4	50	28	23	13
Nevada	170	79	46	1	1	90	53	0	0
New Hampshire	116	28	24	5	4	83	72	0	0
New Jersey	845	237	28	3	0	603	71	2	0
New Mexico	355	29	8	64	18	232	65	30	8
New York	1,693	45	3	23	1	933	55	692	41
North Carolina	929	5	1	157	17	744	80	23	2
North Dakota	87	10	11	20	23	55	63	2	2
Ohio	1,146	186	16	52	5	828	72	80	7
Oklahoma	750	41	5	42	6	665	89	2	0
Oregon	360	94	26	3	1	263	73	0	0
Pennsylvania	1,307	163	12	30	2	1,114	85	0	0
Rhode Island	75	8	11	6	8	54	72	7	9
South Carolina	524	24	5	85	16	390	74	25	5
South Dakota	95	49	52	0	0	46	48	0	0
Tennessee	690	304	44	2	0	377	55	7	1
Texas	2,799	78	3	195	7	2,524	90	2	0
Utah	214	130	61	8	4	76	36	0	0
Vermont	62	41	66	1	2	15	24	5	8
Virginia	625	7	1	34	5	582	93	2	0
Washington	509	137	27	33	6	307	60	32	6
West Virginia	287	50	17	5	2	230	80	2	1
Wisconsin	532	91	17	28	5	410	77	3	1
Wyoming	117	22	19	7	6	86	74	2	2
<b>U.S. Total</b>	<b>31,339</b>	<b>5,093</b>	<b>16</b>	<b>1,694</b>	<b>5</b>	<b>22,393</b>	<b>72</b>	<b>2,159</b>	<b>7</b>
Puerto Rico	416	65	16	5	1	343	83	3	1

Table 8. Surviving Drivers by State and Blood Alcohol Concentration (BAC) Test Status, 1999

State	Total Surviving Drivers	With Known Results		With Unknown Results		Not Tested		Unknown If Tested	
		Number	Percent	Number	Percent	Number	Percent	Number	Percent
Alabama	750	74	10	157	21	517	69	2	0
Alaska	51	32	63	0	0	19	37	0	0
Arizona	856	40	5	53	6	580	68	183	21
Arkansas	377	167	44	0	0	210	56	0	0
California	2,783	680	24	42	2	2,047	74	14	1
Colorado	462	147	32	0	0	311	67	4	1
Connecticut	229	38	17	14	6	138	60	39	17
Delaware	87	52	60	3	3	32	37	0	0
District of Columbia	38	4	11	0	0	34	89	0	0
Florida	2,615	469	18	2	0	2,099	80	45	2
Georgia	1,148	484	42	472	41	191	17	1	0
Hawaii	92	41	45	0	0	49	53	2	2
Idaho	187	52	28	14	7	121	65	0	0
Illinois	1,128	265	23	0	0	841	75	22	2
Indiana	707	366	52	69	10	261	37	11	2
Iowa	380	186	49	3	1	190	50	1	0
Kansas	362	145	40	5	1	205	57	7	2
Kentucky	502	179	36	1	0	290	58	32	6
Louisiana	659	395	60	56	8	183	28	25	4
Maine	133	114	86	0	0	18	14	1	1
Maryland	498	33	7	48	10	409	82	8	2
Massachusetts	313	15	5	0	0	261	83	37	12
Michigan	1,145	357	31	65	6	723	63	0	0
Minnesota	487	283	58	15	3	118	24	71	15
Mississippi	588	262	45	0	0	326	55	0	0
Missouri	759	88	12	6	1	647	85	18	2
Montana	112	38	34	1	1	28	25	45	40
Nebraska	200	162	81	0	0	38	19	0	0
Nevada	289	104	36	4	1	181	63	0	0
New Hampshire	90	41	46	10	11	33	37	6	7
New Jersey	605	212	35	10	2	383	63	0	0
New Mexico	322	30	9	23	7	248	77	21	7
New York	1,236	29	2	3	0	21	2	1,183	96
North Carolina	1,162	1	0	0	0	1,006	87	155	13
North Dakota	71	16	23	0	0	55	77	0	0
Ohio	1,074	171	16	133	12	737	69	33	3
Oklahoma	512	10	2	0	0	422	82	80	16
Oregon	322	126	39	0	0	188	58	8	2
Pennsylvania	1,150	190	17	77	7	837	73	46	4
Rhode Island	60	8	13	0	0	46	77	6	10
South Carolina	733	23	3	29	4	672	92	9	1
South Dakota	101	74	73	0	0	17	17	10	10
Tennessee	889	399	45	0	0	373	42	117	13
Texas	2,696	601	22	278	10	1,815	67	2	0
Utah	225	115	51	0	0	110	49	0	0
Vermont	56	21	38	0	0	34	61	1	2
Virginia	584	0	0	4	1	495	85	85	15
Washington	443	85	19	2	0	350	79	6	1
West Virginia	261	70	27	0	0	187	72	4	2
Wisconsin	515	187	36	3	1	324	63	1	0
Wyoming	98	30	31	0	0	67	68	1	1
<b>U.S. Total</b>	<b>31,142</b>	<b>7,711</b>	<b>25</b>	<b>1,602</b>	<b>5</b>	<b>19,487</b>	<b>63</b>	<b>2,342</b>	<b>8</b>
Puerto Rico	489	266	54	10	2	213	44	0	0

**Table 9. Blood Alcohol Concentration (BAC) Test Status for Drivers, Pedestrians, and Pedalcyclists Involved in Fatal Traffic Crashes, 1982 and 1999**

State	1982			1999		
	Total Involved	Tested With Known Results		Total Involved	Tested With Known Results	
		Number	Percent		Number	Percent
Alabama	1,161	110	9	1,608	125	8
Alaska	159	58	36	110	69	63
Arizona	1,093	315	29	1,564	474	30
Arkansas	765	80	10	833	478	57
California	6,896	3,575	52	5,441	2,920	54
Colorado	925	596	64	909	521	57
Connecticut	773	332	43	458	223	49
Delaware	201	169	84	166	118	71
District of Columbia	64	33	52	75	4	5
Florida	4,420	1,067	24	4,862	1,822	37
Georgia	1,808	869	48	2,284	1,075	47
Hawaii	240	126	53	163	102	63
Idaho	315	52	17	365	142	39
Illinois	2,524	883	35	2,251	1,221	54
Indiana	1,405	470	33	1,483	687	46
Iowa	675	173	26	724	376	52
Kansas	703	88	13	741	359	48
Kentucky	1,143	523	46	1,129	544	48
Louisiana	1,681	397	24	1,356	730	54
Maine	237	70	30	269	234	87
Maryland	975	423	43	985	153	16
Massachusetts	996	72	7	658	295	45
Michigan	2,177	796	37	2,219	1,149	52
Minnesota	847	413	49	972	689	71
Mississippi	980	90	9	1,280	693	54
Missouri	1,263	201	16	1,572	675	43
Montana	322	125	39	265	108	41
Nebraska	376	200	53	417	360	86
Nevada	392	272	69	536	313	58
New Hampshire	249	89	36	196	131	67
New Jersey	1,686	889	53	1,178	636	54
New Mexico	773	369	48	626	300	48
New York	3,430	951	28	2,504	357	14
North Carolina	1,932	427	22	2,302	468	20
North Dakota	203	14	7	147	76	52
Ohio	2,353	650	28	2,165	576	27
Oklahoma	1,538	592	38	1,037	423	41
Oregon	732	410	56	624	390	63
Pennsylvania	2,728	1,063	39	2,346	988	42
Rhode Island	159	80	50	133	76	57
South Carolina	1,093	294	27	1,545	351	23
South Dakota	197	126	64	206	153	74
Tennessee	1,464	836	57	1,834	900	49
Texas	6,028	125	2	5,292	1,508	28
Utah	425	278	65	482	244	51
Vermont	141	104	74	119	69	58
Virginia	1,284	454	35	1,262	514	41
Washington	1,068	561	53	915	502	55
West Virginia	605	267	44	547	329	60
Wisconsin	1,114	554	50	1,089	673	62
Wyoming	257	121	47	228	135	59
<b>U.S. Total</b>	<b>64,975</b>	<b>21,832</b>	<b>34</b>	<b>62,472</b>	<b>26,458</b>	<b>42</b>
Puerto Rico	818	256	31	944	638	68



***State-Level Estimates on a Regional Basis***

For the states in the various NHTSA regions, the following table summarizes the estimated percentages of fatalities that were alcohol related (BAC of 0.01 or greater) in 1982 and 1999 and the estimated percentage of drivers involved in fatal crashes with BAC of 0.10 or greater (high alcohol).

Table 10. Estimated Percent Alcohol-Related Fatalities and Drivers With High Alcohol in Fatal Crashes by Region and State, 1982 and 1999

Region and State	Estimated Percent of Alcohol-Related Fatalities (Driver or Nonoccupant with BAC $\geq$ 0.01 g/dl)		Estimated Percent of Drivers With High Alcohol in Fatal Crashes (BAC $\geq$ 0.10 g/dl)	
	1982	1999	1982	1999
<b>Region I</b>				
Connecticut	68%	45%	37%	21%
Maine	50%	32%	27%	17%
Massachusetts	60%	49%	32%	22%
New Hampshire	58%	47%	32%	20%
Rhode Island	66%	41%	35%	18%
Vermont	64%	38%	31%	18%
<b>Region II</b>				
New Jersey	56%	40%	26%	15%
New York	47%	22%	22%	9%
*Puerto Rico	49%	46%	22%	21%
<b>Region III</b>				
Delaware	66%	40%	36%	17%
District of Columbia	60%	53%	25%	20%
Maryland	54%	30%	28%	12%
Pennsylvania	58%	39%	30%	20%
Virginia	53%	36%	27%	17%
West Virginia	51%	37%	30%	19%
<b>Region IV</b>				
Alabama	56%	38%	30%	19%
Florida	47%	36%	23%	14%
Georgia	59%	34%	29%	13%
Kentucky	54%	35%	27%	18%
Mississippi	56%	39%	30%	22%
North Carolina	60%	36%	30%	15%
South Carolina	59%	31%	30%	16%
Tennessee	62%	38%	35%	19%
<b>Region V</b>				
Illinois	59%	44%	29%	20%
Indiana	48%	34%	26%	16%
Michigan	60%	40%	32%	17%
Minnesota	55%	32%	30%	16%
Ohio	56%	32%	31%	16%
Wisconsin	62%	41%	36%	23%
<b>Region VI</b>				
Arkansas	61%	31%	33%	15%
Louisiana	55%	46%	25%	23%
New Mexico	64%	45%	34%	22%
Oklahoma	56%	33%	28%	16%
Texas	69%	49%	38%	23%
<b>Region VII</b>				
Iowa	47%	33%	24%	14%
Kansas	45%	35%	24%	16%
Missouri	50%	40%	26%	19%
Nebraska	48%	42%	25%	19%
<b>Region VIII</b>				
Colorado	62%	35%	35%	16%
Montana	66%	47%	37%	32%
North Dakota	64%	47%	38%	26%
South Dakota	60%	43%	36%	25%
Utah	38%	21%	21%	11%
Wyoming	55%	37%	31%	21%
<b>Region IX</b>				
Arizona	56%	40%	27%	16%
California	59%	38%	31%	16%
Hawaii	61%	44%	33%	23%
Nevada	67%	45%	36%	18%
<b>Region X</b>				
Alaska	55%	53%	36%	27%
Idaho	44%	37%	26%	19%
Oregon	63%	41%	35%	19%
Washington	63%	42%	37%	22%
<b>U.S. Total</b>	<b>57%</b>	<b>38%</b>	<b>30%</b>	<b>17%</b>

\*Not included in U.S. Total.