



Traffic Safety Facts 1997

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 1997 range from a low of 15.5 percent known BACs to a high of 79.4 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. Telephone inquiries should be addressed to Ms. Louann Hall 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/nca>. 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 1997 and 1982 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 1997, alcohol was involved in 38.6 percent of the traffic fatalities (8.3 percent low alcohol and 30.3 percent high alcohol), translating to 16,189 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	44.3	89	10.6	379	45.2	467	55.7
Alaska	105	48	45.3	3	3.1	54	51.7	57	54.7
Arizona	724	317	43.7	73	10.1	334	46.2	407	56.3
Arkansas	550	214	38.9	66	11.9	270	49.1	336	61.1
California	4,615	1,894	41.1	498	10.8	2,223	48.2	2,721	58.9
Colorado	668	252	37.7	75	11.2	342	51.1	416	62.3
Connecticut	515	163	31.7	66	12.7	286	55.6	352	68.3
Delaware	122	42	34.1	11	8.8	70	57.1	80	65.9
District of Columbia	35	14	40.2	6	16.8	15	42.9	21	59.8
Florida	2,653	1,418	53.4	252	9.5	983	37.1	1,235	46.6
Georgia	1,229	509	41.4	145	11.8	575	46.8	720	58.6
Hawaii	163	63	38.6	18	11.2	82	50.2	100	61.4
Idaho	256	143	56.0	26	10.0	87	34.0	113	44.0
Illinois	1,651	683	41.4	202	12.2	766	46.4	968	58.6
Indiana	961	495	51.5	91	9.4	375	39.1	466	48.5
Iowa	480	255	53.0	47	9.8	179	37.2	225	47.0
Kansas	498	274	55.0	41	8.3	183	36.8	224	45.0
Kentucky	822	379	46.1	99	12.1	344	41.8	443	53.9
Louisiana	1,091	496	45.4	139	12.7	457	41.8	595	54.6
Maine	166	84	50.4	18	11.1	64	38.5	82	49.6
Maryland	640	292	45.6	61	9.5	288	44.9	348	54.4
Massachusetts	659	266	40.4	79	11.9	314	47.6	393	59.6
Michigan	1,392	562	40.4	136	9.8	693	49.8	830	59.6
Minnesota	571	260	45.5	47	8.2	265	46.3	311	54.5
Mississippi	730	319	43.7	79	10.8	332	45.5	411	56.3
Missouri	890	444	49.9	96	10.8	350	39.3	446	50.1
Montana	254	87	34.2	32	12.5	135	53.3	167	65.8
Nebraska	261	136	52.0	24	9.2	101	38.8	125	48.0
Nevada	280	93	33.3	34	12.3	152	54.5	187	66.7
New Hampshire	173	72	41.6	20	11.8	81	46.6	101	58.4
New Jersey	1,061	467	44.0	145	13.7	449	42.3	594	56.0
New Mexico	577	210	36.4	67	11.6	300	52.0	367	63.6
New York	2,162	1,143	52.9	241	11.1	777	36.0	1,019	47.1
North Carolina	1,303	520	39.9	137	10.5	646	49.6	783	60.1
North Dakota	148	53	35.9	15	10.0	80	54.1	95	64.1
Ohio	1,607	699	43.5	159	9.9	749	46.6	908	56.5
Oklahoma	1,054	463	43.9	121	11.4	471	44.7	591	56.1
Oregon	518	193	37.2	55	10.7	270	52.1	325	62.8
Pennsylvania	1,819	756	41.5	219	12.0	845	46.4	1,063	58.5
Rhode Island	105	36	33.9	20	19.3	49	46.9	69	66.1
South Carolina	730	300	41.0	69	9.4	361	49.5	430	59.0
South Dakota	148	59	39.9	11	7.3	78	52.9	89	60.1
Tennessee	1,055	397	37.6	112	10.6	546	51.8	658	62.4
Texas	4,213	1,325	31.5	553	13.1	2,335	55.4	2,888	68.5
Utah	295	182	61.7	18	6.1	95	32.1	113	38.3
Vermont	107	38	35.7	20	19.0	48	45.3	69	64.3
Virginia	881	416	47.2	87	9.9	378	42.9	465	52.8
Washington	748	273	36.5	73	9.7	402	53.7	475	63.5
West Virginia	450	221	49.2	33	7.2	196	43.6	229	50.8
Wisconsin	770	295	38.4	67	8.7	408	52.9	475	61.6
Wyoming	201	90	44.7	17	8.3	95	47.1	111	55.3
U.S. Total	43,945	18,780	42.7	4,809	10.9	20,356	46.3	25,165	57.3
Puerto Rico	480	245	51.1	40	8.3	195	40.5	235	48.9

Table 2. Fatalities by Highest Blood Alcohol Concentration (BAC) in the Crash, 1997

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	1,189	716	60.2	96	8.0	377	31.7	473	39.8
Alaska	77	36	47.2	12	15.2	29	37.7	41	52.8
Arizona	951	518	54.5	86	9.0	347	36.5	433	45.5
Arkansas	660	467	70.8	51	7.7	142	21.6	193	29.2
California	3,688	2,374	64.4	331	9.0	982	26.6	1,314	35.6
Colorado	613	395	64.4	45	7.3	174	28.3	218	35.6
Connecticut	338	186	55.0	36	10.7	116	34.3	152	45.0
Delaware	143	82	57.3	20	14.1	41	28.6	61	42.7
District of Columbia	60	25	41.5	6	10.1	29	48.4	35	58.5
Florida	2,782	1,848	66.4	181	6.5	753	27.1	934	33.6
Georgia	1,577	999	63.4	138	8.8	440	27.9	578	36.6
Hawaii	131	72	55.3	12	8.9	47	35.8	59	44.7
Idaho	259	157	60.4	16	6.2	86	33.4	102	39.6
Illinois	1,395	808	57.9	123	8.8	464	33.3	587	42.1
Indiana	935	627	67.1	52	5.6	256	27.4	308	32.9
Iowa	468	294	62.8	48	10.2	126	27.0	174	37.2
Kansas	481	339	70.5	34	7.1	108	22.4	142	29.5
Kentucky	857	578	67.4	53	6.1	227	26.5	279	32.6
Louisiana	913	492	53.9	96	10.5	326	35.7	421	46.1
Maine	192	128	66.6	9	4.8	55	28.6	64	33.4
Maryland	608	387	63.7	57	9.3	164	27.0	221	36.3
Massachusetts	442	233	52.6	60	13.7	149	33.7	209	47.4
Michigan	1,446	888	61.4	126	8.7	432	29.9	558	38.6
Minnesota	600	407	67.8	32	5.4	161	26.8	193	32.2
Mississippi	861	517	60.0	58	6.7	286	33.3	344	40.0
Missouri	1,192	683	57.3	124	10.4	385	32.3	509	42.7
Montana	265	145	54.7	20	7.7	100	37.6	120	45.3
Nebraska	302	197	65.4	22	7.4	82	27.3	105	34.6
Nevada	347	187	53.8	43	12.4	117	33.8	160	46.2
New Hampshire	125	65	52.3	13	10.3	47	37.4	60	47.7
New Jersey	774	492	63.6	79	10.3	202	26.1	282	36.4
New Mexico	484	264	54.5	47	9.8	173	35.7	220	45.5
New York	1,643	1,194	72.6	115	7.0	334	20.3	449	27.4
North Carolina	1,483	955	64.4	101	6.8	427	28.8	528	35.6
North Dakota	105	55	52.2	4	3.6	46	44.3	50	47.8
Ohio	1,441	965	67.0	92	6.4	384	26.6	476	33.0
Oklahoma	838	536	64.0	62	7.4	240	28.6	302	36.0
Oregon	523	295	56.5	55	10.6	173	33.0	228	43.5
Pennsylvania	1,557	926	59.5	118	7.6	514	33.0	631	40.5
Rhode Island	75	34	45.4	8	10.3	33	44.3	41	54.6
South Carolina	903	585	64.8	45	5.0	273	30.2	318	35.2
South Dakota	148	87	58.7	15	10.0	46	31.4	61	41.3
Tennessee	1,223	727	59.4	90	7.4	406	33.2	496	40.6
Texas	3,510	1,762	50.2	379	10.8	1,369	39.0	1,748	49.8
Utah	366	291	79.4	25	6.8	50	13.7	75	20.6
Vermont	96	62	64.2	8	8.6	26	27.1	34	35.8
Virginia	984	601	61.1	85	8.6	298	30.3	383	38.9
Washington	676	376	55.6	68	10.1	232	34.3	300	44.4
West Virginia	379	233	61.4	17	4.4	129	34.2	146	38.6
Wisconsin	725	396	54.7	64	8.8	265	36.6	329	45.3
Wyoming	137	94	68.5	9	6.6	34	24.9	43	31.5
U.S. Total	41,967	25,778	61.4	3,485	8.3	12,704	30.3	16,189	38.6
Puerto Rico	591	299	50.5	65	10.9	228	38.6	292	49.5

Estimates of Alcohol-Involved Drivers

The following tables estimate alcohol involvement for the nation and on a state-by-state basis for 1997 and 1982 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 1997, alcohol was present in 23.7 percent of the drivers involved in fatal crashes (5.9 percent low alcohol and 17.8 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	61.9	87	8.3	312	29.8	399	38.1
Alaska	143	83	58.3	9	6.1	51	35.6	60	41.7
Arizona	915	597	65.2	73	8.0	245	26.8	318	34.8
Arkansas	682	377	55.3	77	11.3	228	33.5	305	44.7
California	5,914	3,586	60.6	499	8.4	1,829	30.9	2,328	39.4
Colorado	817	450	55.1	78	9.6	288	35.3	367	44.9
Connecticut	678	343	50.6	81	12.0	254	37.4	335	49.4
Delaware	171	93	54.3	17	10.2	61	35.6	78	45.7
District of Columbia	50	31	62.7	6	12.6	12	24.7	19	37.3
Florida	3,564	2,506	70.3	255	7.1	803	22.5	1,058	29.7
Georgia	1,614	985	61.0	153	9.5	476	29.5	629	39.0
Hawaii	200	115	57.4	18	9.1	67	33.5	85	42.6
Idaho	287	188	65.7	25	8.6	74	25.8	99	34.3
Illinois	2,131	1,333	62.5	189	8.9	609	28.6	798	37.5
Indiana	1,269	851	67.0	90	7.1	328	25.9	418	33.0
Iowa	622	427	68.7	43	6.9	152	24.4	195	31.3
Kansas	646	456	70.6	37	5.7	153	23.6	190	29.4
Kentucky	1,015	662	65.2	80	7.9	273	26.9	353	34.8
Louisiana	1,407	891	63.3	159	11.3	357	25.4	516	36.7
Maine	208	139	66.9	13	6.0	56	27.1	69	33.1
Maryland	832	540	64.9	62	7.5	230	27.7	292	35.1
Massachusetts	831	482	58.0	83	9.9	267	32.1	349	42.0
Michigan	1,879	1,122	59.7	165	8.8	592	31.5	757	40.3
Minnesota	759	486	64.0	49	6.4	224	29.6	273	36.0
Mississippi	892	545	61.1	80	8.9	267	30.0	347	38.9
Missouri	1,141	765	67.1	81	7.1	295	25.8	376	32.9
Montana	299	152	50.8	35	11.8	112	37.4	147	49.2
Nebraska	342	232	68.0	23	6.8	86	25.2	110	32.0
Nevada	335	186	55.7	28	8.3	121	36.1	149	44.3
New Hampshire	223	133	59.8	19	8.6	70	31.5	90	40.2
New Jersey	1,369	875	64.0	141	10.3	352	25.7	494	36.0
New Mexico	660	371	56.3	63	9.6	226	34.2	289	43.7
New York	2,687	1,899	70.7	196	7.3	591	22.0	788	29.3
North Carolina	1,655	1,018	61.5	136	8.2	501	30.3	637	38.5
North Dakota	192	100	52.3	19	10.1	72	37.6	92	47.7
Ohio	2,045	1,238	60.5	169	8.3	637	31.2	807	39.5
Oklahoma	1,402	901	64.3	115	8.2	386	27.5	501	35.7
Oregon	653	360	55.1	65	9.9	228	35.0	293	44.9
Pennsylvania	2,368	1,420	60.0	239	10.1	708	29.9	948	40.0
Rhode Island	128	67	52.1	16	12.6	45	35.3	61	47.9
South Carolina	937	586	62.5	73	7.8	278	29.6	351	37.5
South Dakota	180	100	55.4	16	9.1	64	35.5	80	44.6
Tennessee	1,336	734	54.9	130	9.8	472	35.3	602	45.1
Texas	5,177	2,546	49.2	662	12.8	1,969	38.0	2,631	50.8
Utah	371	272	73.2	23	6.3	76	20.6	99	26.8
Vermont	121	67	55.3	17	13.9	37	30.8	54	44.7
Virginia	1,114	723	64.9	85	7.6	306	27.5	391	35.1
Washington	950	518	54.5	78	8.2	354	37.3	432	45.5
West Virginia	547	355	64.9	29	5.4	162	29.7	192	35.1
Wisconsin	991	549	55.4	83	8.3	359	36.3	442	44.6
Wyoming	234	144	61.7	16	7.0	73	31.3	90	38.3
U.S. Total	56,029	34,250	61.1	4,987	8.9	16,793	30.0	21,779	38.9
Puerto Rico	578	411	71.1	40	6.9	127	22.0	167	28.9

Table 4. Drivers Involved in Fatal Crashes by Blood Alcohol Concentration (BAC) of the Driver, 1997

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	1,623	1,215	74.9	94	5.8	314	19.4	408	25.1
Alaska	93	58	62.4	11	11.3	24	26.3	35	37.6
Arizona	1,230	904	73.5	72	5.9	254	20.6	326	26.5
Arkansas	853	693	81.2	44	5.2	116	13.6	160	18.8
California	4,851	3,858	79.5	295	6.1	697	14.4	993	20.5
Colorado	812	634	78.0	42	5.2	136	16.8	178	22.0
Connecticut	450	314	69.9	37	8.3	98	21.9	136	30.1
Delaware	187	135	72.4	16	8.7	35	18.9	52	27.6
District of Columbia	83	55	66.0	8	9.9	20	24.1	28	34.0
Florida	3,955	3,256	82.3	156	3.9	543	13.7	699	17.7
Georgia	2,168	1,713	79.0	122	5.6	332	15.3	455	21.0
Hawaii	180	132	73.3	11	6.3	37	20.5	48	26.7
Idaho	304	219	72.0	20	6.6	65	21.4	85	28.0
Illinois	1,913	1,414	73.9	120	6.3	379	19.8	499	26.1
Indiana	1,350	1,088	80.6	45	3.4	217	16.1	262	19.4
Iowa	649	491	75.7	49	7.5	109	16.8	158	24.3
Kansas	649	523	80.6	32	4.9	94	14.5	126	19.4
Kentucky	1,156	915	79.2	52	4.5	188	16.3	241	20.8
Louisiana	1,174	835	71.1	97	8.3	242	20.6	339	28.9
Maine	266	212	79.6	10	3.8	44	16.5	54	20.4
Maryland	904	720	79.7	54	6.0	129	14.3	184	20.3
Massachusetts	588	400	68.0	59	10.0	129	21.9	188	32.0
Michigan	2,058	1,585	77.0	129	6.3	343	16.7	473	23.0
Minnesota	843	676	80.2	35	4.2	132	15.6	167	19.8
Mississippi	1,110	816	73.5	56	5.0	238	21.4	294	26.5
Missouri	1,601	1,156	72.2	119	7.4	326	20.4	445	27.8
Montana	295	186	62.9	18	6.1	91	31.0	109	37.1
Nebraska	401	314	78.2	21	5.2	66	16.5	87	21.8
Nevada	485	347	71.6	48	10.0	89	18.4	138	28.4
New Hampshire	173	117	67.8	13	7.7	42	24.5	56	32.2
New Jersey	1,064	835	78.5	80	7.5	149	14.0	229	21.5
New Mexico	565	407	72.0	39	6.8	120	21.2	158	28.0
New York	2,208	1,839	83.3	103	4.7	267	12.1	369	16.7
North Carolina	2,012	1,609	80.0	89	4.4	314	15.6	403	20.0
North Dakota	131	90	68.9	4	3.3	36	27.8	41	31.1
Ohio	1,989	1,575	79.2	89	4.5	325	16.3	414	20.8
Oklahoma	1,096	856	78.1	50	4.6	190	17.3	240	21.9
Oregon	672	487	72.5	44	6.5	141	21.0	185	27.5
Pennsylvania	2,196	1,622	73.9	130	5.9	444	20.2	574	26.1
Rhode Island	98	59	60.5	9	9.3	30	30.2	39	39.5
South Carolina	1,185	942	79.5	41	3.4	203	17.1	243	20.5
South Dakota	178	126	71.0	11	6.1	41	22.9	52	29.0
Tennessee	1,658	1,244	75.0	83	5.0	331	20.0	414	25.0
Texas	4,690	3,181	67.8	398	8.5	1,111	23.7	1,509	32.2
Utah	460	404	87.9	20	4.3	36	7.8	56	12.1
Vermont	139	108	77.9	8	5.5	23	16.6	31	22.1
Virginia	1,339	1,008	75.3	78	5.8	253	18.9	331	24.7
Washington	876	629	71.8	61	7.0	186	21.2	247	28.2
West Virginia	526	402	76.5	19	3.5	105	20.0	124	23.5
Wisconsin	963	682	70.8	61	6.4	220	22.8	281	29.2
Wyoming	153	119	78.1	9	5.9	25	16.0	34	21.9
U.S. Total	56,602	43,209	76.3	3,313	5.9	10,080	17.8	13,393	23.7
Puerto Rico	738	513	69.5	68	9.3	157	21.2	225	30.5

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 1997, a total of 16,521 fatally injured drivers had BAC test results out of a total of 24,644, or 67.0 percent. For surviving drivers, BAC test results were known on 8,195 out of 31,958 drivers, or 25.6 percent. Overall in 1997, FARS contained BAC test results on a total of 24,716 drivers out of 56,602 involved in fatal crashes, or 43.7 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	17.5	202	39.6	215	42.2	4	0.8
Alaska	63	27	42.9	2	3.2	28	44.4	6	9.5
Arizona	353	187	53.0	49	13.9	78	22.1	39	11.0
Arkansas	324	37	11.4	1	0.3	228	70.4	58	17.9
California	2,604	2,279	87.5	2	0.1	321	12.3	2	0.1
Colorado	369	314	85.1	6	1.6	49	13.3	0	0.0
Connecticut	311	212	68.2	19	6.1	80	25.7	0	0.0
Delaware	75	69	92.0	0	0.0	6	8.0	0	0.0
District of Columbia	16	14	87.5	0	0.0	1	6.3	1	6.3
Florida	1,304	423	32.4	208	16.0	662	50.8	11	0.8
Georgia	734	467	63.6	34	4.6	233	31.7	0	0.0
Hawaii	87	79	90.8	0	0.0	8	9.2	0	0.0
Idaho	131	29	22.1	18	13.7	68	51.9	16	12.2
Illinois	901	639	70.9	66	7.3	172	19.1	24	2.7
Indiana	599	285	47.6	102	17.0	185	30.9	27	4.5
Iowa	317	133	42.0	56	17.7	117	36.9	11	3.5
Kansas	315	59	18.7	29	9.2	209	66.3	18	5.7
Kentucky	502	365	72.7	23	4.6	113	22.5	1	0.2
Louisiana	591	128	21.7	249	42.1	209	35.4	5	0.8
Maine	99	50	50.5	5	5.1	43	43.4	1	1.0
Maryland	350	291	83.1	1	0.3	58	16.6	0	0.0
Massachusetts	370	44	11.9	239	64.6	19	5.1	68	18.4
Michigan	778	472	60.7	32	4.1	270	34.7	4	0.5
Minnesota	319	250	78.4	11	3.4	38	11.9	20	6.3
Mississippi	437	38	8.7	12	2.7	58	13.3	329	75.3
Missouri	534	144	27.0	12	2.2	153	28.7	225	42.1
Montana	148	79	53.4	0	0.0	34	23.0	35	23.6
Nebraska	161	89	55.3	13	8.1	33	20.5	26	16.1
Nevada	165	149	90.3	0	0.0	16	9.7	0	0.0
New Hampshire	107	51	47.7	9	8.4	47	43.9	0	0.0
New Jersey	524	453	86.5	3	0.6	68	13.0	0	0.0
New Mexico	305	253	83.0	21	6.9	27	8.9	4	1.3
New York	994	618	62.2	8	0.8	111	11.2	257	25.9
North Carolina	726	327	45.0	112	15.4	284	39.1	3	0.4
North Dakota	105	4	3.8	32	30.5	62	59.0	7	6.7
Ohio	899	390	43.4	128	14.2	277	30.8	104	11.6
Oklahoma	652	467	71.6	0	0.0	185	28.4	0	0.0
Oregon	293	269	91.8	2	0.7	22	7.5	0	0.0
Pennsylvania	1,061	734	69.2	80	7.5	247	23.3	0	0.0
Rhode Island	53	50	94.3	0	0.0	2	3.8	1	1.9
South Carolina	413	205	49.6	54	13.1	151	36.6	3	0.7
South Dakota	85	61	71.8	0	0.0	24	28.2	0	0.0
Tennessee	646	466	72.1	2	0.3	177	27.4	1	0.2
Texas	2,378	42	1.8	669	28.1	1,667	70.1	0	0.0
Utah	157	126	80.3	7	4.5	23	14.6	1	0.6
Vermont	59	51	86.4	1	1.7	5	8.5	2	3.4
Virginia	489	358	73.2	99	20.2	31	6.3	1	0.2
Washington	441	358	81.2	14	3.2	1	0.2	68	15.4
West Virginia	260	195	75.0	6	2.3	58	22.3	1	0.4
Wisconsin	459	390	85.0	6	1.3	58	12.6	5	1.1
Wyoming	117	87	74.4	10	8.5	20	17.1	0	0.0
U.S. Total	24,690	13,396	54.3	2,654	10.7	7,251	29.4	1,389	5.6
Puerto Rico	162	94	58.0	0	0.0	67	41.4	1	0.6

Table 6. Driver Fatalities by State and Blood Alcohol Concentration (BAC) Test Status, 1997

State	Total Driver Fatalities	With Known Results		With Unknown Results		Not Tested		Unknown If Tested	
		Number	Percent	Number	Percent	Number	Percent	Number	Percent
Alabama	777	352	45.3	168	21.6	252	32.4	5	0.6
Alaska	47	30	63.8	0	0.0	16	34.0	1	2.1
Arizona	458	139	30.3	164	35.8	11	2.4	144	31.4
Arkansas	427	282	66.0	0	0.0	145	34.0	0	0.0
California	1,817	1,622	89.3	10	0.6	184	10.1	1	0.1
Colorado	375	317	84.5	2	0.5	56	14.9	0	0.0
Connecticut	199	173	86.9	5	2.5	14	7.0	7	3.5
Delaware	84	74	88.1	0	0.0	10	11.9	0	0.0
District of Columbia	21	2	9.5	1	4.8	17	81.0	1	4.8
Florida	1,478	831	56.2	35	2.4	580	39.2	32	2.2
Georgia	973	807	82.9	22	2.3	100	10.3	44	4.5
Hawaii	83	79	95.2	1	1.2	0	0.0	3	3.6
Idaho	153	100	65.4	7	4.6	46	30.1	0	0.0
Illinois	824	730	88.6	0	0.0	94	11.4	0	0.0
Indiana	615	366	59.5	62	10.1	180	29.3	7	1.1
Iowa	312	175	56.1	0	0.0	134	42.9	3	1.0
Kansas	322	189	58.7	4	1.2	113	35.1	16	5.0
Kentucky	549	329	59.9	4	0.7	215	39.2	1	0.2
Louisiana	512	204	39.8	145	28.3	123	24.0	40	7.8
Maine	118	107	90.7	0	0.0	10	8.5	1	0.8
Maryland	345	294	85.2	14	4.1	35	10.1	2	0.6
Massachusetts	264	228	86.4	0	0.0	13	4.9	23	8.7
Michigan	846	638	75.4	17	2.0	191	22.6	0	0.0
Minnesota	386	348	90.2	0	0.0	38	9.8	0	0.0
Mississippi	536	419	78.2	0	0.0	117	21.8	0	0.0
Missouri	775	561	72.4	5	0.6	105	13.5	104	13.4
Montana	173	127	73.4	0	0.0	26	15.0	20	11.6
Nebraska	191	150	78.5	1	0.5	40	20.9	0	0.0
Nevada	195	167	85.6	4	2.1	24	12.3	0	0.0
New Hampshire	76	63	82.9	2	2.6	7	9.2	4	5.3
New Jersey	404	319	79.0	2	0.5	83	20.5	0	0.0
New Mexico	237	203	85.7	2	0.8	17	7.2	15	6.3
New York	822	357	43.4	0	0.0	30	3.6	435	52.9
North Carolina	870	687	79.0	14	1.6	113	13.0	56	6.4
North Dakota	71	34	47.9	0	0.0	37	52.1	0	0.0
Ohio	944	438	46.4	219	23.2	238	25.2	49	5.2
Oklahoma	541	235	43.4	0	0.0	303	56.0	3	0.6
Oregon	306	287	93.8	0	0.0	16	5.2	3	1.0
Pennsylvania	975	587	60.2	27	2.8	191	19.6	170	17.4
Rhode Island	44	43	97.7	0	0.0	1	2.3	0	0.0
South Carolina	566	237	41.9	35	6.2	293	51.8	1	0.2
South Dakota	94	70	74.5	4	4.3	13	13.8	7	7.4
Tennessee	789	593	75.2	1	0.1	188	23.8	7	0.9
Texas	2,012	885	44.0	43	2.1	813	40.4	271	13.5
Utah	190	141	74.2	5	2.6	43	22.6	1	0.5
Vermont	61	38	62.3	0	0.0	14	23.0	9	14.8
Virginia	630	469	74.4	19	3.0	43	6.8	99	15.7
Washington	376	323	85.9	0	0.0	51	13.6	2	0.5
West Virginia	244	200	82.0	7	2.9	36	14.8	1	0.4
Wisconsin	466	416	89.3	1	0.2	47	10.1	2	0.4
Wyoming	71	56	78.9	0	0.0	14	19.7	1	1.4
U.S. Total	24,644	16,521	67.0	1,052	4.3	5,480	22.2	1,591	6.5
Puerto Rico	228	177	77.6	3	1.3	48	21.1	0	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	1.9	108	20.1	415	77.4	3	0.6
Alaska	80	26	32.5	0	0.0	48	60.0	6	7.5
Arizona	562	64	11.4	20	3.6	399	71.0	79	14.1
Arkansas	358	41	11.5	0	0.0	281	78.5	36	10.1
California	3,310	684	20.7	65	2.0	2,413	72.9	148	4.5
Colorado	448	206	46.0	0	0.0	240	53.6	2	0.4
Connecticut	367	80	21.8	19	5.2	268	73.0	0	0.0
Delaware	96	72	75.0	0	0.0	23	24.0	1	1.0
District of Columbia	34	10	29.4	0	0.0	23	67.6	1	2.9
Florida	2,260	467	20.7	199	8.8	1,477	65.4	117	5.2
Georgia	880	325	36.9	15	17.0	539	61.3	1	0.1
Hawaii	113	17	15.0	1	0.9	95	84.1	0	0.0
Idaho	156	22	14.1	22	14.1	108	69.2	4	2.6
Illinois	1,230	54	4.4	30	2.4	1,094	88.9	52	4.2
Indiana	670	154	23.0	40	6.0	440	65.7	36	5.4
Iowa	305	36	11.8	13	4.3	244	80.0	12	3.9
Kansas	331	26	7.9	17	5.1	277	83.7	11	3.3
Kentucky	513	100	19.5	18	3.5	394	76.8	1	0.2
Louisiana	816	236	28.9	140	17.2	420	51.5	20	2.5
Maine	109	15	13.8	3	2.8	90	82.6	1	0.9
Maryland	482	25	5.2	32	6.6	423	87.8	2	0.4
Massachusetts	461	19	4.1	4	0.9	202	43.8	236	51.2
Michigan	1,101	219	19.9	13	1.2	861	78.2	8	0.7
Minnesota	440	120	27.3	103	23.4	150	34.1	67	15.2
Mississippi	455	35	7.7	4	0.9	162	35.6	254	55.8
Missouri	607	31	5.1	15	2.5	467	76.9	94	15.5
Montana	151	40	26.5	2	1.3	83	55.0	26	17.2
Nebraska	181	101	55.8	7	3.9	50	27.6	23	12.7
Nevada	170	79	46.5	1	0.6	90	52.9	0	0.0
New Hampshire	116	28	24.1	5	4.3	83	71.6	0	0.0
New Jersey	845	237	28.0	3	0.4	603	71.4	2	0.2
New Mexico	355	29	8.2	64	18.0	232	65.4	30	8.5
New York	1,693	45	2.7	23	1.4	933	55.1	692	40.9
North Carolina	929	5	0.5	157	16.9	744	80.1	23	2.5
North Dakota	87	10	11.5	20	23.0	55	63.2	2	2.3
Ohio	1,146	186	16.2	52	4.5	828	72.3	80	7.0
Oklahoma	750	41	5.5	42	5.6	665	88.7	2	0.3
Oregon	360	94	26.1	3	0.8	263	73.1	0	0.0
Pennsylvania	1,307	163	12.5	30	2.3	1,114	85.2	0	0.0
Rhode Island	75	8	10.7	6	8.0	54	72.0	7	9.3
South Carolina	524	24	4.6	85	16.2	390	74.4	25	4.8
South Dakota	95	49	51.6	0	0.0	46	48.4	0	0.0
Tennessee	690	304	44.1	2	0.3	377	54.6	7	1.0
Texas	2,799	78	2.8	195	7.0	2,524	90.2	2	0.1
Utah	214	130	60.7	8	3.7	76	35.5	0	0.0
Vermont	62	41	66.1	1	1.6	15	24.2	5	8.1
Virginia	625	7	1.1	34	5.4	582	93.1	2	0.3
Washington	509	137	26.9	33	6.5	307	60.3	32	6.3
West Virginia	287	50	17.4	5	1.7	230	80.1	2	0.7
Wisconsin	532	91	17.1	28	5.3	410	77.1	3	0.6
Wyoming	117	22	18.8	7	6.0	86	73.5	2	1.7
U.S. Total	31,339	5,093	16.3	1,694	5.4	22,393	71.5	2,159	6.9
Puerto Rico	416	65	15.6	5	1.2	343	82.5	3	0.7

Table 8. Surviving Drivers by State and Blood Alcohol Concentration (BAC) Test Status, 1997

State	Total Surviving Drivers	With Known Results		With Unknown Results		Not Tested		Unknown If Tested	
		Number	Percent	Number	Percent	Number	Percent	Number	Percent
Alabama	846	105	12.4	140	16.5	601	71.0	0	0.0
Alaska	46	35	76.1	0	0.0	8	17.4	3	6.5
Arizona	772	49	6.3	65	8.4	463	60.0	195	25.3
Arkansas	426	160	37.6	0	0.0	264	62.0	2	0.5
California	3,034	684	22.5	17	0.6	2,328	76.7	5	0.2
Colorado	437	144	33.0	0	0.0	293	67.0	0	0.0
Connecticut	251	72	28.7	11	4.4	138	55.0	30	12.0
Delaware	103	59	57.3	0	0.0	40	38.8	4	3.9
District of Columbia	62	15	24.2	6	9.7	40	64.5	1	1.6
Florida	2,477	396	16.0	68	2.7	1,887	76.2	126	5.1
Georgia	1,195	867	72.6	20	1.7	307	25.7	1	0.1
Hawaii	97	34	35.1	0	0.0	62	63.9	1	1.0
Idaho	151	42	27.8	7	4.6	101	66.9	1	0.7
Illinois	1,089	181	16.6	4	0.4	902	82.8	2	0.2
Indiana	735	332	45.2	81	11.0	312	42.4	10	1.4
Iowa	337	120	35.6	0	0.0	217	64.4	0	0.0
Kansas	327	131	40.1	2	0.6	181	55.4	13	4.0
Kentucky	607	225	37.1	4	0.7	375	61.8	3	0.5
Louisiana	662	367	55.4	63	9.5	206	31.1	26	3.9
Maine	148	102	68.9	0	0.0	46	31.1	0	0.0
Maryland	559	23	4.1	7	1.3	461	82.5	68	12.2
Massachusetts	324	2	0.6	0	0.0	291	89.8	31	9.6
Michigan	1,212	391	32.3	51	4.2	770	63.5	0	0.0
Minnesota	457	230	50.3	20	4.4	138	30.2	69	15.1
Mississippi	574	421	73.3	0	0.0	153	26.7	0	0.0
Missouri	826	65	7.9	6	0.7	738	89.3	17	2.1
Montana	122	79	64.8	0	0.0	31	25.4	12	9.8
Nebraska	210	151	71.9	0	0.0	59	28.1	0	0.0
Nevada	290	110	37.9	1	0.3	179	61.7	0	0.0
New Hampshire	97	45	46.4	8	8.2	17	17.5	27	27.8
New Jersey	660	245	37.1	5	0.8	410	62.1	0	0.0
New Mexico	328	58	17.7	17	5.2	244	74.4	9	2.7
New York	1,386	36	2.6	5	0.4	10	0.7	1,335	96.3
North Carolina	1,142	1	0.1	101	8.8	994	87.0	46	4.0
North Dakota	60	9	15.0	2	3.3	46	76.7	3	5.0
Ohio	1,045	178	17.0	136	13.0	696	66.6	35	3.3
Oklahoma	555	17	3.1	4	0.7	473	85.2	61	11.0
Oregon	366	159	43.4	1	0.3	204	55.7	2	0.5
Pennsylvania	1,221	141	11.5	53	4.3	802	65.7	225	18.4
Rhode Island	54	8	14.8	6	11.1	40	74.1	0	0.0
South Carolina	619	26	4.2	42	6.8	540	87.2	11	1.8
South Dakota	84	48	57.1	2	2.4	21	25.0	13	15.5
Tennessee	869	402	46.3	1	0.1	463	53.3	3	0.3
Texas	2,678	658	24.6	40	1.5	1,763	65.8	217	8.1
Utah	270	169	62.6	0	0.0	100	37.0	1	0.4
Vermont	78	18	23.1	0	0.0	53	67.9	7	9.0
Virginia	709	6	0.8	16	2.3	586	82.7	101	14.2
Washington	500	100	20.0	6	1.2	382	76.4	12	2.4
West Virginia	282	53	18.8	3	1.1	225	79.8	1	0.4
Wisconsin	497	196	39.4	1	0.2	300	60.4	0	0.0
Wyoming	82	30	36.6	0	0.0	51	62.2	1	1.2
U.S. Total	31,958	8,195	25.6	1,022	3.2	20,011	62.6	2,730	8.5
Puerto Rico	510	288	56.5	18	3.5	204	40.0	0	0.0

Table 9. Blood Alcohol Concentration (BAC) Test Status for Drivers, Pedestrians, and Pedalcyclists Involved in Fatal Traffic Crashes, 1982 and 1997

State	1982			1997		
	Total Involved	Tested With Known Results		Total Involved	Tested With Known Results	
		Number	Percent		Number	Percent
Alabama	1,161	110	9.5	1,726	479	27.8
Alaska	159	58	36.5	107	71	66.4
Arizona	1,093	315	28.8	1,416	227	16.0
Arkansas	765	80	10.5	915	463	50.6
California	6,896	3,575	51.8	5,791	3,011	52.0
Colorado	925	596	64.4	879	509	57.9
Connecticut	773	332	42.9	513	284	55.4
Delaware	201	169	84.1	206	149	72.3
District of Columbia	64	33	51.6	110	17	15.5
Florida	4,420	1,067	24.1	4,648	1,536	33.0
Georgia	1,808	869	48.1	2,384	1,826	76.6
Hawaii	240	126	52.5	202	134	66.3
Idaho	315	52	16.5	324	151	46.6
Illinois	2,524	883	35.0	2,177	1,095	50.3
Indiana	1,405	470	33.5	1,444	732	50.7
Iowa	675	173	25.6	683	303	44.4
Kansas	703	88	12.5	686	343	50.0
Kentucky	1,143	523	45.8	1,245	568	45.6
Louisiana	1,681	397	23.6	1,360	641	47.1
Maine	237	70	29.5	286	227	79.4
Maryland	975	423	43.4	1,031	408	39.6
Massachusetts	996	72	7.2	687	304	44.3
Michigan	2,177	796	36.6	2,264	1,143	50.5
Minnesota	847	413	48.8	908	622	68.5
Mississippi	980	90	9.2	1,170	873	74.6
Missouri	1,263	201	15.9	1,716	690	40.2
Montana	322	125	38.8	309	211	68.3
Nebraska	376	200	53.2	428	318	74.3
Nevada	392	272	69.4	559	319	57.1
New Hampshire	249	89	35.7	187	115	61.5
New Jersey	1,686	889	52.7	1,240	690	55.6
New Mexico	773	369	47.7	639	317	49.6
New York	3,430	951	27.7	2,678	488	18.2
North Carolina	1,932	427	22.1	2,226	844	37.9
North Dakota	203	14	6.9	137	45	32.8
Ohio	2,353	650	27.6	2,150	656	30.5
Oklahoma	1,538	592	38.5	1,172	283	24.1
Oregon	732	410	56.0	749	509	68.0
Pennsylvania	2,728	1,063	39.0	2,397	802	33.5
Rhode Island	159	80	50.3	107	59	55.1
South Carolina	1,093	294	26.9	1,311	314	24.0
South Dakota	197	126	64.0	186	120	64.5
Tennessee	1,464	836	57.1	1,783	1,071	60.1
Texas	6,028	125	2.1	5,248	1,676	31.9
Utah	425	278	65.4	503	333	66.2
Vermont	141	104	73.8	151	63	41.7
Virginia	1,284	454	35.4	1,458	551	37.8
Washington	1,068	561	52.5	979	493	50.4
West Virginia	605	267	44.1	553	274	49.5
Wisconsin	1,114	554	49.7	1,034	660	63.8
Wyoming	257	121	47.1	164	90	54.9
U.S. Total	64,975	21,832	33.6	63,226	28,107	44.5
Puerto Rico	818	256	31.3	1,006	651	64.7

State-Level Estimates on a Regional Basis

For the states in the various NHTSA regions, the following graphics summarize the estimated percentages of fatalities that were alcohol related (BAC of 0.01 or greater) in 1982 and 1997 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 1997

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	1997	1982	1997
Region I				
Connecticut	68.3%	45.0%	37.4%	21.9%
Maine	49.6%	33.4%	27.1%	16.5%
Massachusetts	59.6%	47.4%	32.1%	21.9%
New Hampshire	58.4%	47.7%	31.5%	24.5%
Rhode Island	66.1%	54.6%	35.3%	30.2%
Vermont	64.3%	35.8%	30.8%	16.6%
Region II				
New Jersey	56.0%	36.4%	25.7%	14.0%
New York	47.1%	27.4%	22.0%	12.1%
*Puerto Rico	48.9%	49.5%	22.0%	21.2%
Region III				
Delaware	65.9%	42.7%	35.6%	18.9%
District of Columbia	59.8%	58.5%	24.7%	24.1%
Maryland	54.4%	36.3%	27.7%	14.3%
Pennsylvania	58.5%	40.5%	29.9%	20.2%
Virginia	52.8%	38.9%	27.5%	18.9%
West Virginia	50.8%	38.6%	29.7%	20.0%
Region IV				
Alabama	55.7%	39.8%	29.8%	19.4%
Florida	46.6%	33.6%	22.5%	13.7%
Georgia	58.6%	36.6%	29.5%	15.3%
Kentucky	53.9%	32.6%	26.9%	16.3%
Mississippi	56.3%	40.0%	30.0%	21.4%
North Carolina	60.1%	35.6%	30.3%	15.6%
South Carolina	59.0%	35.2%	29.6%	17.1%
Tennessee	62.4%	40.6%	35.3%	20.0%
Region V				
Illinois	58.6%	42.1%	28.6%	19.8%
Indiana	48.5%	32.9%	25.9%	16.1%
Michigan	59.6%	38.6%	31.5%	16.7%
Minnesota	54.5%	32.2%	29.6%	15.6%
Ohio	56.5%	33.0%	31.2%	16.3%
Wisconsin	61.6%	45.3%	36.3%	22.8%
Region VI				
Arkansas	61.1%	29.2%	33.5%	13.6%
Louisiana	54.6%	46.1%	25.4%	20.6%
New Mexico	63.6%	45.5%	34.2%	21.2%
Oklahoma	56.1%	36.0%	27.5%	17.3%
Texas	68.5%	49.8%	38.0%	23.7%
Region VII				
Iowa	47.0%	37.2%	24.4%	16.8%
Kansas	45.0%	29.5%	23.6%	14.5%
Missouri	50.1%	42.7%	25.8%	20.4%
Nebraska	48.0%	34.6%	25.2%	16.5%
Region VIII				
Colorado	62.3%	35.6%	35.3%	16.8%
Montana	65.8%	45.3%	37.4%	31.0%
North Dakota	64.1%	47.8%	37.6%	27.8%
South Dakota	60.1%	41.3%	35.5%	22.9%
Utah	38.3%	20.6%	20.6%	7.8%
Wyoming	55.3%	31.5%	31.3%	16.0%
Region IX				
Arizona	56.3%	45.5%	26.8%	20.6%
California	58.9%	35.6%	30.9%	14.4%
Hawaii	61.4%	44.7%	33.5%	20.5%
Nevada	66.7%	46.2%	36.1%	18.4%
Region X				
Alaska	54.7%	52.8%	35.6%	26.3%
Idaho	44.0%	39.6%	25.8%	21.4%
Oregon	62.8%	43.5%	35.0%	21.0%
Washington	63.5%	44.4%	37.3%	21.2%
U.S. Total	57.3%	38.6%	30.0%	17.8%

* Not included in U.S. total.