

# Fatality Analysis Reporting System General Estimates System

## 2003 DATA SUMMARY





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**FARS AND GES DATA**

**FARS**, which became operational in 1975, contains data on a census of fatal traffic crashes within the 50 states, the District of Columbia, and Puerto Rico. To be included in FARS, a crash must involve a motor vehicle traveling on a trafficway customarily open to the public, and must result in the death of an occupant of a vehicle or a nonmotorist within 30 days of the crash.

The 2003 FARS data file used for the statistics in this report was created in June 2004. The updated final counts for 2002 are reflected in this report. The updated final counts for 2003 will be reflected in the 2004 report.

GES data are obtained from a nationally representative probability sample selected from all police-reported crashes. The system began operation in 1988. To be eligible for the GES sample, a police accident report (PAR) must be completed for the crash, and the crash must involve at least one motor vehicle traveling on a trafficway and result in property damage, injury, or death.

The 2003 GES file used for the statistics in this report was completed in June 2004.

## DATA AVAILABILITY

FARS and GES data can be obtained by downloading any of the published files from the Internet, at <ftp://ftp.nhtsa.dot.gov/FARS> or <ftp://ftp.nhtsa.dot.gov/GES>. The files are available in SAS, sequential ASCII, and (for FARS only, not GES) SQL file formats. FARS data can also be accessed on the world wide web at [www-fars.nhtsa.dot.gov](http://www-fars.nhtsa.dot.gov). Requests for more information from FARS or GES or for a copy of the data files, should be directed to:

National Highway Traffic Safety Administration  
National Center for Statistics and Analysis, NPO-121  
400 Seventh Street, S.W.  
Washington, D.C. 20590  
(202) 366-4198, 1-800-934-8517, or  
(202) 366-7078 (FAX)

### Exhibit 1 - 2003 Traffic Fatalities by State and Percent Change from 2002

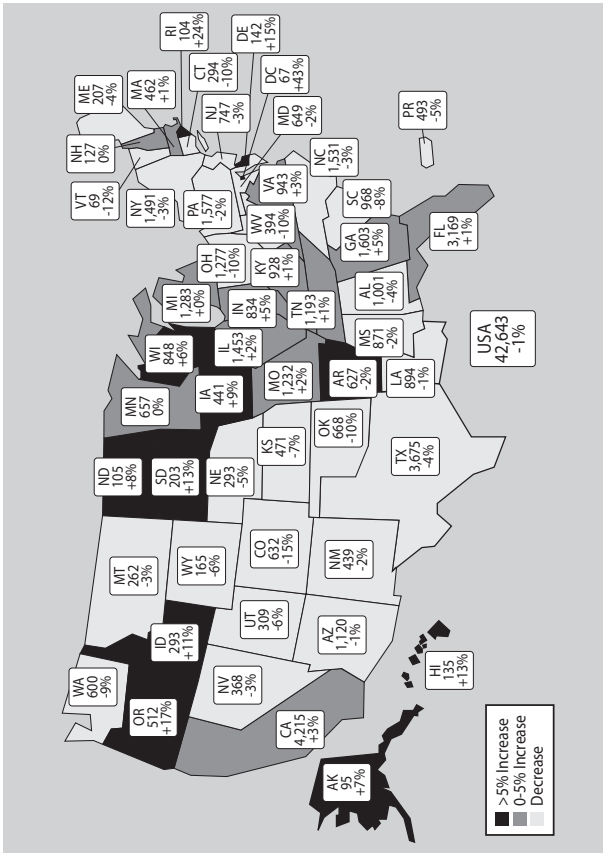


Exhibit 2 - **Crashes by Crash Severity, 1993-2003**

Year	Crash Severity			
	Fatal	Injury	Property Damage Only	Total
1993	35,780	2,022,000	4,048,000	<b>6,106,000</b>
1994	36,254	2,123,000	4,336,000	<b>6,496,000</b>
1995	37,241	2,217,000	4,446,000	<b>6,699,000</b>
1996	37,494	2,238,000	4,494,000	<b>6,770,000</b>
1997	37,324	2,149,000	4,438,000	<b>6,624,000</b>
1998	37,107	2,029,000	4,269,000	<b>6,335,000</b>
1999	37,140	2,054,000	4,188,000	<b>6,279,000</b>
2000	37,526	2,070,000	4,286,000	<b>6,394,000</b>
2001	37,862	2,003,000	4,282,000	<b>6,323,000</b>
2002	38,491	1,929,000	4,348,000	<b>6,316,000</b>
2003	38,252	1,925,000	4,365,000	<b>6,328,000</b>



### Exhibit 3 - Fatality and Injury Rates per Population and Vehicle Miles Traveled, 1993-2003

Killed					
Year	Fatalities	Resident Population (Thousands)	Fatality Rate per 100,000 Population	Vehicle Miles Traveled (Billions)	Fatality Rate per 100 Million VMT
1993	40,150	257,783	15.58	2,296	1.75
1994	40,716	260,327	15.64	2,358	1.73
1995	41,817	262,803	15.91	2,423	1.73
1996	42,065	265,229	15.86	2,486	1.69
1997	42,013	267,784	15.69	2,562	1.64
1998	41,501	270,248	15.36	2,632	1.58
1999	41,717	272,691	15.3	2,691	1.55
2000	41,945	282,178	14.86	2,747	1.53
2001	42,196	285,094	14.8	2,797	1.51
2002	43,005	287,974	14.93	2,856	1.51
2003	42,643	290,810	14.66	2,891	1.48
Injured					
Year	Injured	Resident Population (Thousands)	Injury Rate per 100,000 Population	Vehicle Miles Traveled (Billions)	Fatality Rate per 100 Million VMT
1993	3,149,000	257,783	1,222	2,296	137
1994	3,266,000	260,327	1,255	2,358	139
1995	3,465,000	262,803	1,319	2,423	143
1996	3,483,000	265,229	1,313	2,486	140
1997	3,348,000	267,784	1,250	2,562	131
1998	3,192,000	270,248	1,181	2,632	121
1999	3,236,000	272,691	1,187	2,691	120
2000	3,189,000	282,178	1,130	2,747	116
2001	3,033,000	285,094	1,064	2,797	108
2002	2,926,000	287,974	1,016	2,856	102
2003	2,889,000	290,810	993	2,891	100

Sources: Vehicle Miles Traveled—Federal Highway Administration; Population—U.S. Bureau of the Census.

Exhibit 4 - **Vehicles Involved in Crashes by Vehicle Type and Crash Severity, 2003**

Vehicle Type	Crash Severity						Total	
	Fatal		Injury		Property Damage Only		Number	%
	Number	%	Number	%	Number	%		
Passenger Car	26,169	44.7	2,129,000	60.2	4,356,000	57.4	6,511,000	58.2
Light Truck	22,068	37.7	1,233,000	34.9	2,804,000	36.9	4,059,000	36.3
Large Truck	4,669	8.0	89,000	2.5	363,000	4.8	457,000	4.1
Motorcycle	3,751	6.4	64,000	1.8	14,000	0.2	81,000	0.7
Bus	289	0.5	14,000	0.4	44,000	0.6	58,000	0.5
Other	609	1.0	8,000	0.2	13,000	0.2	22,000	0.2
<b>Total</b>	<b>*58,512</b>	<b>100.0</b>	<b>3,536,000</b>	<b>100.0</b>	<b>7,594,000</b>	<b>100.0</b>	<b>11,189,000</b>	<b>100.0</b>

\*Includes 957 vehicles of unknown type involved in fatal crashes.

### Exhibit 5 - Passenger Car Occupant Fatality and Injury Rates per Vehicle Miles Traveled, 1993-2003

Year	Vehicle Miles Traveled (Millions)	Passenger Car Occupants Killed	Fatality Rate per 100 Million VMT	Passenger Car Occupants Injured	Injury Rate per 100 Million VMT
1993	1,445,106	21,566	1.49	2,265,000	157
1994	1,459,208	21,997	1.51	2,364,000	162
1995	1,478,352	22,423	1.52	2,469,000	167
1996	1,499,139	22,505	1.50	2,458,000	164
1997	1,528,399	22,199	1.45	2,341,000	153
1998	1,555,901	21,194	1.36	2,201,000	141
1999	1,566,808	20,862	1.33	2,138,000	136
2000	1,580,493	20,699	1.31	2,052,000	130
2001	1,593,459	20,320	1.28	1,927,000	121
2002	1,608,270	20,569	1.28	1,805,000	112
2003	1,607,993	19,460	1.21	1,756,000	109

### Exhibit 6 - Light Truck Occupant Fatality and Injury Rates per Vehicle Miles Traveled, 1993-2003

Year	Vehicle Miles Traveled (Millions)	Light Truck Occupants Killed	Fatality Rate per 100 Million VMT	Light Truck Occupants Injured	Injury Rate per 100 Million VMT
1993	675,353	8,511	1.26	601,000	89
1994	711,515	8,904	1.25	631,000	89
1995	749,971	9,568	1.28	722,000	96
1996	787,255	9,932	1.26	761,000	97
1997	824,896	10,249	1.24	755,000	92
1998	861,951	10,705	1.24	763,000	88
1999	903,314	11,265	1.25	847,000	94
2000	942,853	11,526	1.22	887,000	94
2001	978,080	11,723	1.20	861,000	88
2002	1,016,238	12,274	1.21	879,000	87
2003	1,050,839	12,444	1.18	889,000	85

Source: Vehicle Miles Traveled—Federal Highway Administration.

### Exhibit 7 - Large Truck Occupant Fatality and Injury Rates per Vehicle Miles Traveled, 1993-2003

Year	Vehicle Miles Traveled (Millions)	Large Truck Occupants Killed	Fatality Rate per 100 Million VMT	Large Truck Occupants Injured	Injury Rate per 100 Million VMT
1993	159,888	605	0.38	32,000	20
1994	170,216	670	0.39	30,000	18
1995	178,156	648	0.36	30,000	17
1996	182,971	621	0.34	33,000	18
1997	191,477	723	0.38	31,000	16
1998	196,380	742	0.38	29,000	15
1999	202,688	759	0.37	33,000	16
2000	205,520	754	0.37	31,000	15
2001	209,032	708	0.34	29,000	14
2002	214,603	689	0.32	26,000	12
2003	215,884	723	0.33	27,000	12

### Exhibit 8 - Motorcycle Rider Fatality and Injury Rates per Vehicle Miles Traveled, 1993-2003

Year	Vehicle Miles Traveled (Millions)	Motorcycle Riders Killed	Fatality Rate per 100 Million VMT	Motorcycle Riders Injured	Injury Rate per 100 Million VMT
1993	9,906	2,449	24.72	59,000	600
1994	10,240	2,320	22.66	57,000	561
1995	9,797	2,227	22.73	57,000	587
1996	9,920	2,161	21.78	55,000	557
1997	10,081	2,116	20.99	53,000	522
1998	10,283	2,294	22.31	49,000	476
1999	10,584	2,483	23.46	50,000	472
2000	10,469	2,897	27.67	58,000	551
2001	9,639	3,197	33.17	60,000	625
2002	9,552	3,270	34.23	65,000	677
2003	9,539	3,661	38.38	67,000	703

Source: Vehicle Miles Traveled—Federal Highway Administration.

**Exhibit 9 - Fatalities in School Transportation-Related Crashes, 1993-2003**

Year	Occupants of School Bus*			Pedestrians			Other Nonoccu- pants	Occu- pants of Other Vehicle	Total
	Driver	Passenger	Total	Struck by School Bus*	Struck by Other Vehicle	Total			
1993	1	12	13	32	8	40	2	86	141
1994	2	2	4	28	9	37	2	64	107
1995	0	13	13	24	10	34	4	72	123
1996	2	8	10	16	7	23	2	101	136
1997	5	5	10	17	2	19	5	97	131
1998	3	3	6	21	3	24	7	91	128
1999	6	4	10	20	6	26	4	127	167
2000	8	13	21	19	7	26	1	99	147
2001	6	12	18	18	4	22	6	95	141
2002	1	2	3	16	4	20	6	100	129
2003	6	5	11	21	5	26	2	99	138
<b>Total</b>	<b>40</b>	<b>79</b>	<b>119</b>	<b>232</b>	<b>65</b>	<b>297</b>	<b>41</b>	<b>1,031</b>	<b>1,488</b>
Average	4	7	11	21	6	27	4	94	135

\*Includes school bus body type and non-school bus used as school bus.

Exhibit 10 - **Persons Killed, by Highest Blood Alcohol Concentration (BAC) in the Crash, 1982-2003**

Year	BAC = 0.00		BAC = 0.01-0.07		BAC = 0.08+		Total Number	Total Fatalities in Alcohol-Related Crashes	
	Number	Percent	Number	Percent	Number	Percent		Number	Percent
1982	17,773	40	2,927	7	23,246	53	43,945	26,173	60
1983	17,955	42	2,594	6	22,041	52	42,589	24,635	58
1984	19,496	44	3,046	7	21,715	49	44,257	24,762	56
1985	20,659	47	3,081	7	20,086	46	43,825	23,167	53
1986	21,070	46	3,546	8	21,471	47	46,087	25,017	54
1987	22,297	48	3,398	7	20,696	45	46,390	24,094	52
1988	23,254	49	3,234	7	20,599	44	47,087	23,833	51
1989	23,159	51	2,893	6	19,531	43	45,582	22,424	49
1990	22,012	49	2,980	7	19,607	44	44,599	22,587	51
1991	21,349	51	2,560	6	17,599	42	41,508	20,159	49
1992	20,960	53	2,443	6	15,847	40	39,250	18,290	47
1993	22,242	55	2,361	6	15,547	39	40,150	17,908	45
1994	23,409	57	2,322	6	14,985	37	40,716	17,308	43
1995	24,085	58	2,490	6	15,242	36	41,817	17,732	42
1996	24,316	58	2,486	6	15,263	36	42,065	17,749	42
1997	25,302	60	2,290	5	14,421	34	42,013	16,711	40
1998	24,828	60	2,465	6	14,207	34	41,501	16,673	40
1999	25,145	60	2,321	6	14,250	34	41,717	16,572	40
2000	24,565	59	2,511	6	14,870	35	41,945	17,380	41
2001	24,796	59	2,542	6	14,858	35	42,196	17,400	41
2002	25,481	59	2,432	6	15,093	35	43,005	17,524	41
2003	25,630	60	2,383	6	14,630	34	42,643	17,013	40

Note: NHTSA estimates alcohol involvement when alcohol test results are unknown.



### Exhibit 11 - Persons Killed During Holiday Periods, by Alcohol Involvement, 1993-2003

Year	Holiday Period*					
	New Year's Day		Memorial Day		Fourth of July	
	Killed	Percent Alcohol-Related**	Killed	Percent Alcohol-Related**	Killed	Percent Alcohol-Related**
1993	370 (3)	59	454 (3)	53	525 (3)	55
1994	372 (3)	56	482 (3)	50	519 (3)	52
1995	392 (3)	50	483 (3)	54	661 (4)	50
1996	420 (3)	54	514 (3)	55	629 (4)	49
1997	192 (1)	67	511 (3)	49	508 (3)	51
1998	545 (4)	51	393 (3)	54	479 (3)	52
1999	354 (3)	55	500 (3)	52	509 (3)	46
2000	469 (3)	58	466 (3)	55	717 (4)	49
2001	357 (3)	51	515 (3)	55	207 (1)	62
2002	575 (4)	52	494 (3)	47	685 (4)	48
2003	219 (1)	61	479 (3)	50	514 (3)	55
	Labor Day		Thanksgiving		Christmas	
1993	522 (3)	59	569 (4)	49	402 (3)	56
1994	494 (3)	58	575 (4)	50	455 (3)	51
1995	511 (3)	51	527 (4)	53	358 (3)	50
1996	525 (3)	54	588 (4)	48	166 (1)	53
1997	507 (3)	52	571 (4)	41	480 (4)	45
1998	464 (3)	52	602 (4)	50	364 (3)	52
1999	485 (3)	48	581 (4)	46	485 (3)	50
2000	529 (3)	54	509 (4)	53	442 (3)	51
2001	481 (3)	51	590 (4)	48	604 (4)	48
2002	543 (3)	57	551 (4)	47	131 (1)	54
2003	505 (3)	51	560 (4)	44	513 (4)	48

\*The number of whole days in the holiday period is shown in parentheses. The length of the holiday period depends on the day on which the legal holiday falls, as follows: · If the holiday falls on Monday, the holiday period is from 6:00 pm Friday to 5:59 am Tuesday. · If the holiday falls on Tuesday, the holiday period is from 6:00 pm Friday to 5:59 am Wednesday. · If the holiday falls on Wednesday, the holiday period is from 6:00 pm Tuesday to 5:59 am Thursday. · If the holiday falls on Thursday, the holiday period is from 6:00 pm Wednesday to 5:59 am Monday. · If the holiday falls on Friday, the holiday period is from 6:00 pm Thursday to 5:59 am Monday.

\*\*Blood alcohol concentration (BAC) of 0.01 grams per deciliter (g/dl) or greater. NHTSA estimates alcohol involvement when alcohol test results are unknown.

### Exhibit 12 - Drivers in Fatal Crashes by Blood Alcohol Concentration (BAC) and Sex, 1993-2003

Year	Male			Female		
	Total	Percent		Total	Percent	
		BAC = 0.01+	BAC = 0.08+		BAC = 0.01+	BAC = 0.08+
1982	44,370	44	38	10,675	27	22
1983	42,812	43	37	10,958	25	22
1984	44,723	41	35	11,907	25	20
1985	44,846	38	32	12,142	22	18
1986	46,653	40	33	12,744	22	17
1987	46,884	37	32	13,614	21	17
1988	47,402	37	31	13,951	20	16
1989	45,448	35	30	14,054	19	16
1990	44,281	37	32	13,726	20	16
1991	40,731	35	30	12,825	19	16
1992	38,598	33	28	12,596	18	15
1993	39,556	32	27	13,082	17	14
1994	40,233	30	26	13,567	17	14
1995	41,235	30	25	14,184	16	13
1996	41,376	29	25	14,850	16	13
1997	40,954	28	24	14,954	15	12
1998	40,816	28	23	15,089	15	12
1999	41,012	28	23	14,835	14	12
2000	41,795	29	24	14,790	16	13
2001	41,901	29	24	14,919	15	13
2002	42,377	29	25	14,999	15	12
2003	42,314	28	24	15,091	14	12

Note: NHTSA estimates alcohol involvement when alcohol test results are unknown.

Exhibit 13 - **Pedestrians Killed, 14 Years and Older, by Blood Alcohol Concentration (BAC), 1982-2003**

Year	BAC = 0.00		BAC = 0.01-0.07		BAC = 0.08+		Total	
	No.	%	No.	%	No.	%	No.	%
1982	3,132	51	321	5	2,701	44	<b>6,154</b>	<b>100</b>
1983	2,905	51	297	5	2,508	44	<b>5,710</b>	<b>100</b>
1984	3,159	53	283	5	2,465	42	<b>5,907</b>	<b>100</b>
1985	3,072	54	342	6	2,288	40	<b>5,702</b>	<b>100</b>
1986	3,104	54	334	6	2,264	40	<b>5,702</b>	<b>100</b>
1987	3,188	56	344	6	2,183	38	<b>5,715</b>	<b>100</b>
1988	3,364	58	287	5	2,173	37	<b>5,825</b>	<b>100</b>
1989	3,164	56	300	5	2,193	39	<b>5,658</b>	<b>100</b>
1990	3,185	57	260	5	2,150	38	<b>5,595</b>	<b>100</b>
1991	2,862	57	236	5	1,907	38	<b>5,005</b>	<b>100</b>
1992	2,712	56	231	5	1,868	39	<b>4,812</b>	<b>100</b>
1993	2,792	57	199	4	1,869	38	<b>4,860</b>	<b>100</b>
1994	2,782	59	230	5	1,725	36	<b>4,737</b>	<b>100</b>
1995	2,871	59	225	5	1,801	37	<b>4,896</b>	<b>100</b>
1996	2,749	58	212	4	1,816	38	<b>4,777</b>	<b>100</b>
1997	2,889	61	177	4	1,649	35	<b>4,715</b>	<b>100</b>
1998	2,743	59	248	5	1,689	36	<b>4,680</b>	<b>100</b>
1999	2,568	58	194	4	1,657	37	<b>4,419</b>	<b>100</b>
2000	2,535	59	213	5	1,541	36	<b>4,288</b>	<b>100</b>
2001	2,666	60	220	5	1,567	35	<b>4,453</b>	<b>100</b>
2002	2,670	60	193	4	1,589	36	<b>4,451</b>	<b>100</b>
2003	2,596	60	193	4	1,559	36	<b>4,348</b>	<b>100</b>

Note: NHTSA estimates alcohol involvement when alcohol test results are unknown.

**Exhibit 14 - Persons Killed, by Age and Highest Blood Alcohol Concentration (BAC) in the Crash, 2003**

Age (Years)	Highest BAC in Crash										Total	
	0.00		0.01-0.07		0.08 or Higher		0.01 and Higher				No.	%
	No.	%	No.	%	No.	%	No.	%				
<5	493	81	15	3	99	16	114	19	607	100		
9-May	471	80	25	4	94	16	120	20	591	100		
15-Oct	1,054	77	64	5	255	19	319	23	1,372	100		
16-20	3,720	62	437	7	1,845	31	2,282	38	6,002	100		
21-24	1,932	44	318	7	2,109	48	2,428	56	4,360	100		
25-34	3,115	46	434	6	3,155	47	3,588	54	6,703	100		
35-44	3,212	48	385	6	3,125	46	3,509	52	6,721	100		
45-54	3,290	57	324	6	2,174	38	2,498	43	5,788	100		
55-64	2,638	70	167	4	947	25	1,114	30	3,752	100		
65-74	2,186	80	110	4	421	15	530	20	2,716	100		
>74	3,457	88	99	3	358	9	457	12	3,914	100		
Unknown	62	53	6	5	49	42	55	47	117	100		
<b>Total</b>	<b>25,630</b>	<b>60</b>	<b>2,383</b>	<b>6</b>	<b>14,630</b>	<b>34</b>	<b>17,013</b>	<b>40</b>	<b>42,643</b>	<b>100</b>		

Note: NHTSA estimates alcohol involvement when alcohol test results are unknown.

## Exhibit 15 - Age and Alcohol, 2003

Age Group (years)	Drivers Involved in Fatal Crashes			Pedestrian Fatalities		
	Total	BAC = 0.08+		Total	BAC = 0.08+	
		No.	%		No.	%
<16	342	35	10	443	13	3
16-20	7,693	1,446	19	298	86	29
21-34	17,452	4,993	29	828	412	50
35-54	19,939	4,307	22	1,621	795	49
55-69	6,995	769	11	743	198	27
70+	4,800	258	5	773	60	8
Total	*58,156	11,996	21	**4,749	1,579	33

\*Includes 935 drivers of unknown age.

\*\*Includes 43 pedestrian fatalities of unknown age.

Note: NHTSA estimates alcohol involvement when alcohol test results are unknown.

Exhibit 16 - **Persons Killed or Injured, by Person Type and Injury Severity, 2003**

Person Type	Persons Killed	Persons Injured by Injury Severity			Total Injured	Total Killed or Injured
		Incapacitating	Non-incapacitating	Other		
<b>Vehicle Occupants</b>						
Driver	23,258	191,000	504,000	1,146,000	1,840,000	1,864,000
Passenger	10,108	81,000	222,000	553,000	857,000	867,000
Unknown Occupant	105	*	*	*	*	*
<i>Subtotal</i>	33,471	272,000	726,000	1,699,000	2,697,000	2,731,000
<b>Motorcycle Riders</b>						
	3,661	18,000	35,000	15,000	67,000	71,000
<b>Nonmotorists</b>						
Pedestrian	4,749	16,000	27,000	27,000	70,000	75,000
Pedalcyclist	622	6,000	22,000	18,000	46,000	47,000
Other/Unknown	140	1,000	2,000	5,000	8,000	8,000
<i>Subtotal</i>	5,511	23,000	51,000	51,000	124,000	130,000
<b>Total</b>	<b>42,643</b>	<b>313,000</b>	<b>812,000</b>	<b>1,764,000</b>	<b>2,889,000</b>	<b>2,931,000</b>

\*Less than 500.

### Exhibit 17 - Related Factors for Drivers Involved in Fatal Crashes, 2003

Factors	Number	Percent
Failure to keep in proper lane or running off road	18,781	32.3
Driving too fast for conditions or in excess of posted speed limit or racing	11,990	20.6
Under the influence of alcohol, drugs, or medication	6,313	10.9
Failure to yield right of way	4,604	7.9
Inattentive (talking, eating, etc.)	3,730	6.4
Operating vehicle in erratic, reckless, careless, or negligent manner	3,565	6.1
Failure to obey traffic signs, signals, or officer	2,790	4.8
Swerving or avoiding due to wind, slippery surface, vehicle, object, nonmotorist in roadway, etc.	2,592	4.5
Overcorrecting/oversteering	2,575	4.4
Making improper turn	1,578	2.7
Drowsy, asleep, fatigued, ill, or blackout	1,577	2.7
Vision obscured (rain, snow, glare, lights, building, trees, etc.)	1,074	1.8
Driving wrong way on one-way trafficway or on wrong side of road	988	1.7
Other factors	10,139	17.4
None reported	19,396	33.4
Unknown	981	1.7
<b>Total Drivers</b>	<b>58,156</b>	<b>100.0</b>

Note: The sum of the numbers and percentages is greater than total drivers as more than one factor may be present for the same driver.

**Exhibit 18 - Vehicle Occupants Killed or Injured, by Age and Vehicle Type, 2003**

Age (Years)	Vehicle Type							Total
	Passenger Cars	Light Trucks	Large Trucks	Buses	Other/Unknown	Subtotal	Motorcycles	
<b>Occupants Killed</b>								
<5	318	153	5	0	6	482	1	<b>483</b>
5-9	201	190	5	1	14	411	6	<b>417</b>
10-15	540	392	1	2	82	1,017	36	<b>1,053</b>
16-20	3,706	1,534	11	1	108	5,360	281	<b>5,641</b>
21-24	2,355	1,184	28	0	77	3,644	427	<b>4,071</b>
25-34	2,906	2,076	131	1	125	5,239	824	<b>6,063</b>
35-44	2,363	2,199	179	1	107	4,849	890	<b>5,739</b>
45-54	1,980	1,849	196	4	114	4,143	738	<b>4,881</b>
55-64	1,349	1,259	122	7	50	2,787	340	<b>3,127</b>
65-74	1,277	811	39	12	52	2,191	96	<b>2,287</b>
>74	2,434	772	4	11	60	3,281	20	<b>3,301</b>
Un-known	31	25	2	0	9	67	2	<b>69</b>
<b>Total</b>	<b>19,460</b>	<b>12,444</b>	<b>723</b>	<b>40</b>	<b>804</b>	<b>33,471</b>	<b>3,661</b>	<b>37,132</b>
<b>Occupants Injured</b>								
<5	39,000	20,000	*	*	*	59,000	*	<b>59,000</b>
5-9	41,000	29,000	*	3,000	*	73,000	*	<b>74,000</b>
10-15	67,000	45,000	*	4,000	2,000	119,000	1,000	<b>120,000</b>
16-20	343,000	115,000	1,000	2,000	1,000	461,000	7,000	<b>469,000</b>
21-24	218,000	75,000	3,000	1,000	*	296,000	8,000	<b>305,000</b>
25-34	321,000	178,000	7,000	2,000	1,000	509,000	16,000	<b>524,000</b>
35-44	243,000	179,000	9,000	3,000	1,000	436,000	16,000	<b>451,000</b>
45-54	210,000	128,000	5,000	2,000	1,000	345,000	11,000	<b>357,000</b>
55-64	125,000	70,000	2,000	1,000	*	198,000	6,000	<b>204,000</b>
65-74	77,000	32,000	1,000	*	*	110,000	2,000	<b>112,000</b>
>74	73,000	18,000	*	*	*	91,000	*	<b>91,000</b>
<b>Total</b>	<b>1,756,000</b>	<b>889,000</b>	<b>27,000</b>	<b>18,000</b>	<b>7,000</b>	<b>2,697,000</b>	<b>67,000</b>	<b>2,764,000</b>

\*Less than 500.



## Exhibit 19 - Percent Rollover Occurrence by Vehicle Type and Crash Severity, 2003

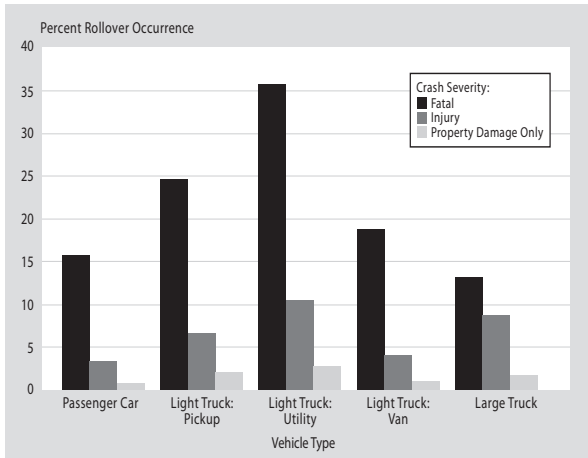


Exhibit 20 - Vehicle Occupants Killed or Injured, by Vehicle Type and Ejection, 2003

Vehicle Type	Ejected*		Not Ejected		Unknown		Total	
	Number	Percent	Number	Percent	Number	Percent	Number	Percent
<b>Occupants Killed</b>								
Passenger Car	3,786	19.5	15,580	80.1	94	0.5	19,460	100
Light Truck	4,796	38.5	7,577	60.9	71	0.6	12,444	100
Large Truck	194	26.8	522	72.2	7	1.0	723	100
Bus	10	25.0	22	55.0	8	20.0	40	100
Other/Unknown	244	30.3	328	40.8	232	28.9	804	100
<b>Total**</b>	<b>9,030</b>	<b>27.0</b>	<b>24,029</b>	<b>71.8</b>	<b>412</b>	<b>1.2</b>	<b>33,471</b>	<b>100</b>
<b>Occupants Injured</b>								
Passenger Car	9,000	0.5	1,747,000	99.5	****	****	1,756,000	100
Light Truck	11,000	1.2	879,000	98.8	****	****	889,000	100
Large Truck	***	1.5	26,000	98.5	****	****	27,000	100
Bus	***	***	18,000	100.0	****	****	18,000	100
Other/Unknown	2,000	29.4	5,000	70.6	****	****	7,000	100
<b>Total**</b>	<b>22,000</b>	<b>0.8</b>	<b>2,675,000</b>	<b>99.2</b>	<b>****</b>	<b>****</b>	<b>2,697,000</b>	<b>100</b>

\*Includes total and partial ejection. \*\*\*Less than 500 or less than 0.05 percent.

\*\*Excludes motorcycle riders. \*\*\*\*Not applicable.

**Exhibit 21 - Occupants Killed or Injured in Two-Vehicle Crashes, by Vehicle Types Involved, 2003**

Vehicle Types Involved				Total Occupants Killed
Vehicle Type	Occupants Killed	Vehicle Type	Occupants Killed	
Passenger Car	—	Passenger Car	—	2,831
Passenger Car	4,481	Light Truck	1,098	5,579
Passenger Car	1,678	Large Truck	27	1,705
Passenger Car	14	Motorcycle	759	773
Passenger Car	83	Bus	2	85
Passenger Car	113	Other/Unknown	61	174
Light Truck	—	Light Truck	—	1,895
Light Truck	1,182	Large Truck	38	1,220
Light Truck	10	Motorcycle	798	808
Light Truck	55	Bus	3	58
Light Truck	62	Other/Unknown	81	143
Large Truck	—	Large Truck	—	117
Large Truck	0	Motorcycle	129	129
Large Truck	3	Bus	3	6
Large Truck	2	Other/Unknown	33	35
Motorcycle	—	Motorcycle	—	76
Motorcycle	13	Bus	0	13
Motorcycle	30	Other/Unknown	2	32
Bus	0	Other/Unknown	2	2
Other/Unknown	—	Other/Unknown	—	114

**Total Occupants Killed ..... 15,795**

Vehicle Types Involved				Total Occupants Injured
Vehicle Type	Occupants Injured	Vehicle Type	Occupants Injured	
Passenger Car	—	Passenger Car	—	681,000
Passenger Car	443,000	Light Truck	298,000	741,000
Passenger Car	40,000	Large Truck	5,000	45,000
Passenger Car	3,000	Motorcycle	20,000	23,000
Passenger Car	7,000	Bus	8,000	15,000
Passenger Car	1,000	Other/Unknown	2,000	3,000
Light Truck	—	Light Truck	—	228,000
Light Truck	25,000	Large Truck	4,000	29,000
Light Truck	1,000	Motorcycle	10,000	11,000
Light Truck	2,000	Bus	6,000	8,000
Light Truck	1,000	Other/Unknown	2,000	3,000
Large Truck	—	Large Truck	—	4,000

**Total Occupants Injured ..... 1,793,000**

**Exhibit 22 - Passenger Car, Light Truck, and Large Truck Occupants Killed or Injured, by Age and Restraint Use, 2003**

Age (Years)	Restraint Use						Total	
	Used		Not Used		Unknown			
	No.	%	No.	%	No.	%	No.	%
<b>Occupants Killed</b>								
<5	289	61.4	158	33.5	24	5.1	<b>471</b>	<b>100</b>
5-9	166	42.5	199	50.9	26	6.6	<b>391</b>	<b>100</b>
10-15	280	30.0	582	62.4	70	7.5	<b>932</b>	<b>100</b>
16-20	1,774	33.9	3,006	57.4	460	8.8	<b>5,240</b>	<b>100</b>
21-24	1,110	31.4	2,149	60.7	280	7.9	<b>3,539</b>	<b>100</b>
25-34	1,607	32.3	2,969	59.6	406	8.1	<b>4,982</b>	<b>100</b>
35-44	1,553	34.0	2,638	57.8	371	8.1	<b>4,562</b>	<b>100</b>
45-54	1,579	41.2	1,935	50.5	315	8.2	<b>3,829</b>	<b>100</b>
55-64	1,238	47.5	1,193	45.7	177	6.8	<b>2,608</b>	<b>100</b>
65-74	1,194	57.2	746	35.7	148	7.1	<b>2,088</b>	<b>100</b>
>74	1,977	61.7	991	30.9	238	7.4	<b>3,206</b>	<b>100</b>
Unknown	20	35.7	28	50.0	8	14.3	<b>56</b>	<b>100</b>
<b>Total</b>	<b>12,787</b>	<b>40.1</b>	<b>16,594</b>	<b>52.0</b>	<b>2,523</b>	<b>7.9</b>	<b>31,904</b>	<b>100</b>
<b>Occupants Injured</b>								
<5	52,000	88.2	4,000	7.1	3,000	4.8	<b>59,000</b>	<b>100</b>
5-9	61,000	86.9	7,000	9.7	2,000	3.3	<b>71,000</b>	<b>100</b>
10-15	84,000	75.2	19,000	16.7	9,000	8.1	<b>112,000</b>	<b>100</b>
16-20	363,000	79.3	62,000	13.6	33,000	7.1	<b>458,000</b>	<b>100</b>
21-24	226,000	77.3	37,000	12.5	30,000	10.1	<b>293,000</b>	<b>100</b>
25-34	417,000	83.4	45,000	9.0	38,000	7.6	<b>500,000</b>	<b>100</b>
35-44	360,000	85.2	32,000	7.6	30,000	7.2	<b>423,000</b>	<b>100</b>
45-54	293,000	87.0	23,000	6.8	21,000	6.2	<b>337,000</b>	<b>100</b>
55-64	172,000	87.9	10,000	5.2	13,000	6.8	<b>195,000</b>	<b>100</b>
65-74	97,000	88.8	4,000	4.0	8,000	7.2	<b>109,000</b>	<b>100</b>
>74	79,000	87.0	5,000	5.6	7,000	7.4	<b>90,000</b>	<b>100</b>
<b>Total</b>	<b>2,204,000</b>	<b>83.3</b>	<b>248,000</b>	<b>9.4</b>	<b>193,000</b>	<b>7.3</b>	<b>2,646,000</b>	<b>100</b>

Note: Restraint use is determined by police and may be overreported for survivors.

Exhibit 23 - **Restraint Use by Children 0 to 7 Years Old, 2003**

Grouping	Restraint Use (Percent)	Grouping	Restraint Use (Percent)
Overall	88	Rush Hour	90
Infants (<1 Year)	99	Non-Rush Hour	87
Toddlers (1 to 3 Years)	94	Weekday	89
Booster Age (4 to 7 Years)	83	Weekend	85
Passenger Cars	88	City	84
Vans and SUVs	91	Suburban	85
Pickups	77	Rural	87
Front Seat	83		
Back Seat	90		

Source: NHTSA, National Occupant Protection Use Survey (NOPUS).

**Exhibit 24 - Fatalities and Injuries in Crashes Involving Large Trucks, 2003**

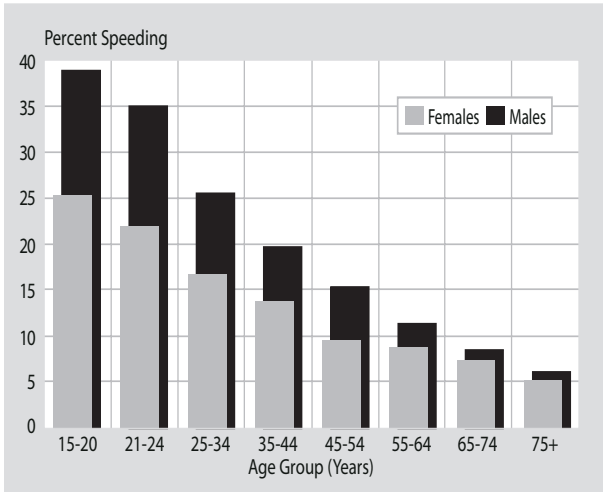
Type of Fatality	Number	Percentage of Total
Occupants of Large Trucks	723	15
<i>Single-Vehicle Crashes</i>	456	9
<i>Multiple-Vehicle Crashes</i>	267	5
Occupants of Other Vehicles in Crashes Involving Large Trucks	3,879	78
Nonoccupants (Pedestrians, Pedalcyclists, etc.)	384	8
<b>Total</b>	<b>4,986</b>	<b>100</b>

Type of Injury	Number	Percentage of Total
Occupants of Large Trucks	27,000	22
<i>Single-Vehicle Crashes</i>	11,000	9
<i>Multiple-Vehicle Crashes</i>	16,000	13
Occupants of Other Vehicles in Crashes Involving Large Trucks	92,000	75
Nonoccupants (Pedestrians, Pedalcyclists, etc.)	3,000	3
<b>Total</b>	<b>122,000</b>	<b>100</b>

**Exhibit 25 - Principal Impact Points in Two-Vehicle Fatal Crashes Involving Large Trucks, 2003**

Impact Point on Large Truck	Impact Point on Other Vehicle				Total
	Front	Left Side	Right Side	Rear	
Front	28%	17%	13%	7%	<b>65%</b>
Left Side	9%	1%	1%	<1%	<b>11%</b>
Right Side	5%	<1%	<1%	<1%	<b>6%</b>
Rear	17%	1%	<1%	<1%	<b>19%</b>
<b>Total</b>	<b>59%</b>	<b>20%</b>	<b>14%</b>	<b>7%</b>	<b>100%</b>

**Exhibit 26 - Speeding Drivers in Fatal Crashes by Age and Sex, 2003**

**Exhibit 27 - Lives Saved by Restraint Use, Air Bags, and 21-Year Old Minimum Legal Drinking Age Laws and Potential Lives Saved at 100 Percent Safety Belt and Motorcycle Helmet Use, 1975-2003**

Year	Lives Saved					Additional Lives That Would Have Been Saved at 100% Use	
	Passenger Vehicle Restraints			Motorcycle Helmets	21-Year-Old Drinking Age*	Safety Belts	Motorcycle Helmets
	Child Restraints	Safety Belts	Air Bags				
1975	36	978	0	823	412	13,301	1,164
1976	20	796	0	788	436	13,851	1,189
1977	35	682	0	970	474	14,460	1,472
1978	25	679	0	900	509	15,541	1,588
1979	49	594	0	885	575	15,726	1,676
1980	49	575	0	871	595	15,730	1,744
1981	69	548	0	843	633	15,222	1,667
1982	75	678	0	816	578	13,250	1,528
1983	105	809	0	735	609	12,913	1,450
1984	126	1,197	0	813	709	13,227	759
1985	153	2,435	0	788	701	12,508	764
1986	166	4,094	0	807	840	12,728	751
1987	213	5,141	2	667	1,071	12,678	697
1988	248	5,959	5	622	1,148	12,674	643
1989	238	6,333	8	561	1,093	12,256	553
1990	222	6,592	37	655	1,033	11,761	541
1991	253	6,838	71	595	941	10,812	467
1992	292	7,020	108	641	795	10,195	323
1993	313	7,773	190	671	816	10,212	336
1994	420	9,219	309	625	848	9,507	339
1995	408	9,882	536	624	851	9,781	326
1996	480	10,710	783	617	846	9,459	324
1997	444	11,259	973	627	846	9,096	315
1998	438	11,680	1,208	660	861	8,690	370
1999	447	11,941	1,491	745	901	8,809	396
2000	479	12,882	1,716	872	922	8,245	478
2001	388	13,295	1,978	947	927	8,016	558
2002	383	14,264	2,324	992	922	6,837	576
2003	446	14,903	2,488	1,158	906	6,081	640
<b>Total</b>	<b>5,984</b>	<b>179,756</b>	<b>14,227</b>	<b>22,319</b>	<b>22,798</b>	<b>333,566</b>	<b>23,635</b>

\*Estimated reductions in deaths that resulted from the presence of laws establishing a minimum legal age of 21 years for the consumption of alcoholic beverages.



**NOTES**

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# FARS/GES 2003 Data Summary

DOT HS 809 776

March 2005



U.S. Department  
of Transportation

**National Highway  
Traffic Safety  
Administration**

**NCSA**  
NHTSA's National Center for Statistics & Analysis