DOCUMENT RESUME

ED 475 966 PS 031 227

TITLE	Fatality Analysis Reporting System, General Estimates System: 2001 Data Summary.
SPONS AGENCY	National Highway Traffic Safety Administration (DOT), Washington, DC.
REPORT NO	DOT-HS-809-538
PUB DATE	2003-01-00
NOTE	32p.; Produced by the National Center for Statistics and Analysis.
AVAILABLE FROM	National Highway Traffic Safety Administration, National Center for Statistics and Analysis, NRD-31, 400 Seventh Street, S.W., Washington, DC 20590. Tel: 800-934-8517 (Toll Free); Tel: 202-366-4198; Fax: 202-366-7078; e-mail: NCSAweb@nhtsa.dot.gov; Web site: http://www-nrd.nhtsa.dot.gov.
PUB TYPE	Numerical/Quantitative Data (110) -- Reports - Descriptive (141)
EDRS PRICE	EDRS Price MF01/PC02 Plus Postage.
DESCRIPTORS	Adults; *Child Safety; Children; Driving While Intoxicated; Injuries; *Motor Vehicles; Restraints (Vehicle Safety); *Safety; Service Vehicles; *Traffic Accidents; Trend Analysis
IDENTIFIERS	Motorcycles; Traffic Fatalities; Trucks

ABSTRACT

The Fatality Analysis Reporting System (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. The General Estimates System (GES), which began in 1988, provides data from a nationally representative probability sample selected from all police-reported crashes resulting in property damage, injury, or death. This document compiles several statistical exhibits detailing data from these two sources. Exhibits include the following: (1) 2001 traffic fatalities by state and percent change from 2002; (2) fatality and injury rates per population and vehicle miles traveled, 1991-2001; (3) fatalities in school bus-related crashes; (4) pedestrians killed, 14 years and older, by blood alcohol concentration, 1982-2001; (5) vehicle occupants killed or injured, by age and vehicle type, 2001; (6) passenger car, light truck, and large truck occupants killed or injured, by age and restraint use; (7) restraint use by children under 5 years old, 2000; and (8) 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, 1975-2000. (HTH)

Reproductions supplied by EDRS are the best that can be made
from the original document.

ED 475 966

PS 031227

Ps PsTR 0094

Fatality Analysis Reporting System
General Estimates System
2001 Data Summary

NCSA
National Center for Statistics & Analysis
of the National Highway Traffic Safety Administration

U.S. Department of Transportation
National Highway Traffic Safety Administration

U.S. DEPARTMENT OF EDUCATION
Office of Educational Research and Improvement
EDUCATIONAL RESOURCES INFORMATION CENTER (ERIC)
X This document has been reproduced as received from the person or organization originating it.
☐ Minor changes have been made to improve reproduction quality.
• Points of view or opinions stated in this document do not necessarily represent official OERI position or policy.

BEST COPY AVAILABLE

Contents

Exhibits

Exhibits (Continued)

Page

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 2001 FARS data file used for the statistics in this report was created in June 2002. The updated final counts for 2000 are reflected in this report. The updated final counts for 2001 will be reflected in the 2002 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.

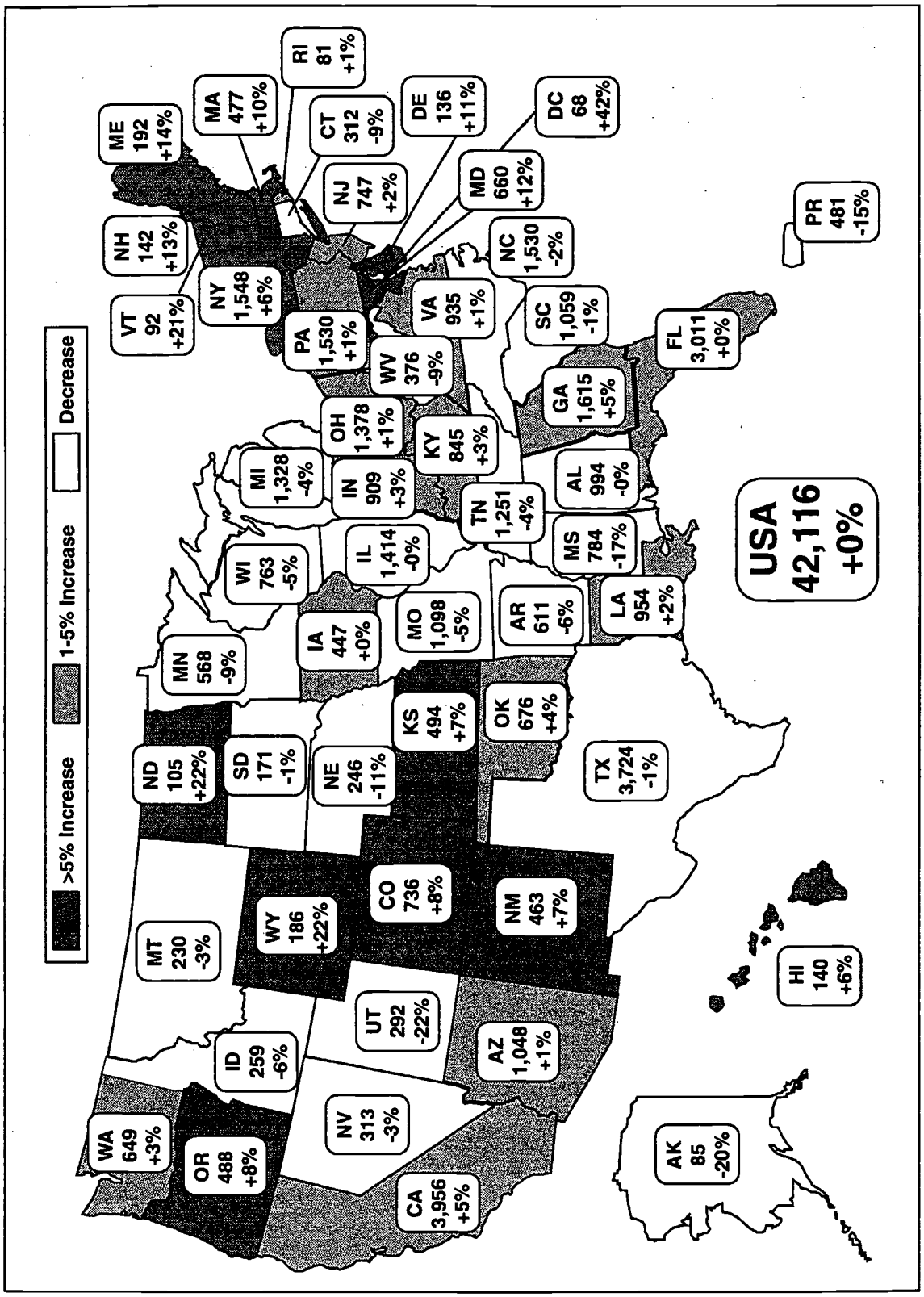
The 2001 GES file used for the statistics in this report was completed in July 2002.

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. 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, NRD-31
400 Seventh Street, S.W.
Washington, D.C. 20590
202-366-4198, 1-800-934-8517, or 202-366-7078 (FAX)

Exhibit 1. 2001 Traffic Fatalities by State and Percent Change from 2000



BEST COPY AVAILABLE

Exhibit 2. Crashes by Crash Severity, 1991-2001

Year	Crash Severity			
	Fatal	Injury	Property Damage Only	Total
1991	36,937	2,008,000	4,073,000	**6,117,000**
1992	34,942	1,991,000	3,974,000	**6,000,000**
1993	35,780	2,022,000	4,048,000	**6,106,000**
1994	36,254	2,123,000	4,336,000	**6,496,000**
1995	37,241	2,217,000	4,446,000	**6,699,000**
1996	37,494	2,238,000	4,494,000	**6,770,000**
1997	37,324	2,149,000	4,438,000	**6,624,000**
1998	37,107	2,029,000	4,269,000	**6,335,000**
1999	37,140	2,054,000	4,188,000	**6,279,000**
2000	37,526	2,070,000	4,286,000	**6,394,000**
2001	37,795	2,003,000	4,282,000	**6,323,000**

BEST COPY AVAILABLE

Exhibit 3. Fatality and Injury Rates per Population and Vehicle Miles Traveled, 1991-2001

Killed					
Year	Fatalities	Resident Population (Thousands)	Fatality Rate per 100,000 Population	Vehicle Miles Traveled (Billions)	Fatality Rate per 100 Million VMT
1991	41,508	252,153	16.46	2,172	1.91
1992	39,250	255,030	15.39	2,247	1.75
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	15.30	2,691	1.55
2000	41,945	282,125	14.87	2,747	1.53
2001	42,116	284,797	14.79	2,781	1.51
Injured					
Year	Injured	Resident Population (Thousands)	Injury Rate per 100,000 Population	Vehicle Miles Traveled (Billions)	Injury Rate per 100 Million VMT
1991	3,097,000	252,153	1,228	2,172	143
1992	3,070,000	255,030	1,204	2,247	137
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	282,125	1,130	2,747	116
2001	3,033,000	284,797	1,065	2,781	109

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

BEST COPY AVAILABLE

Exhibit 4. Vehicles Involved in Crashes by Vehicle Type and Crash Severity, 2001

Vehicle Type	Crash Severity							
	Fatal		Injury		Property Damage Only		Total	
	Number	Percent	Number	Percent	Number	Percent	Number	Percent
Passenger Car	27,429	47.4	2,279,000	62.2	4,399,000	58.8	**6,705,000**	**59.9**
Light Truck	20,722	35.8	1,218,000	33.2	2,679,000	35.8	**3,918,000**	**35.0**
Large Truck	4,793	8.3	90,000	2.5	335,000	4.5	**429,000**	**3.8**
Motorcycle	3,249	5.6	57,000	1.5	14,000	0.2	**74,000**	**0.7**
Bus	292	0.5	12,000	0.3	42,000	0.6	**54,000**	**0.5**
Other	551	1.0	9,000	0.2	10,000	0.1	**19,000**	**0.2**
Total*	**57,813**	**100.0**	**3,663,000**	**100.0**	**7,480,000**	**100.0**	**11,201,000**	**100.0**

*Includes 777 vehicles of unknown type involved in fatal crashes.

BEST COPY AVAILABLE

Exhibit 5. Passenger Car Occupant Fatality and Injury Rates per Vehicle Miles Traveled, 1991-2001

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
1991	1,411,655	22,385	1.59	2,235,000	158
1992	1,436,035	21,387	1.49	2,232,000	155
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	1,584,612	20,233	1.28	1,927,000	122

Exhibit 6. Light Truck Occupant Fatality and Injury Rates per Vehicle Miles Traveled, 1991-2001

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
1991	595,924	8,391	1.41	563,000	94
1992	642,397	8,098	1.26	545,000	85
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	972,649	11,677	1.20	861,000	88

Source: Vehicle Miles Traveled—Federal Highway Administration.

BEST COPY AVAILABLE

Exhibit 7. Large Truck Occupant Fatality and Injury Rates per Vehicle Miles Traveled, 1991-2001

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
1991	149,543	661	0.44	28,000	19
1992	153,384	585	0.38	34,000	22
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	207,686	704	0.34	29,000	14

Exhibit 8. Motorcycle Occupant Fatality and Injury Rates per Vehicle Miles Traveled, 1991-2001

Year	Vehicle Miles Traveled (Millions)	Motorcycle Occupants Killed	Fatality Rate per 100 Million VMT	Motorcycle Occupants Injured	Injury Rate per 100 Million VMT
1991	9,178	2,806	30.57	80,000	876
1992	9,557	2,395	25.06	65,000	681
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	9,529	3,181	33.38	60,000	632

Source: Vehicle Miles Traveled—Federal Highway Administration.

BEST COPY AVAILABLE

Exhibit 9. Fatalities in School Bus-Related Crashes, 1991-2001

Year	Occupants of School Bus*			Pedestrians			Other Non-occupants	Occupants of Other Vehicle	Total
	Driver	Passenger	Total	Struck by School Bus*	Struck by Other Vehicle	Total			
1991	2	15	17	21	5	26	5	86	134
1992	1	9	10	21	8	29	2	83	124
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
Total	**36**	**96**	**132**	**237**	**69**	**306**	**40**	**1,001**	**1,479**
Average	3	9	12	22	6	28	4	91	134

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

BEST COPY AVAILABLE

Exhibit 10. Persons Killed, by Highest Blood Alcohol Concentration (BAC) in the Crash, 1982-2001

Year	BAC = 0.00		BAC = 0.01-0.07		BAC = 0.08+		Total		Total Fatalities in Alcohol-Related Crashes	
	Number	Percent	Number	Percent	Number	Percent	Number		Number	Percent
1982	17,773	40	2,927	7	23,246	53	43,945		26,172	60
1983	17,954	42	2,594	6	22,041	52	42,589		24,635	58
1984	19,495	44	3,046	7	21,715	49	44,257		24,762	56
1985	20,658	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		24,093	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	24,211	58	2,477	6	15,196	36	41,884		17,673	42
1997	25,302	60	2,289	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	24,668	59	2,515	6	14,933	35	42,116		17,448	41

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

BEST COPY AVAILABLE

Exhibit 11. Persons Killed During Holiday Periods, by Alcohol Involvement, 1991-2001

Year	Holiday Period*					
	New Year's Day		Memorial Day		Fourth of July	
	Killed	Percent Alcohol-Related**	Killed	Percent Alcohol-Related**	Killed	Percent Alcohol-Related**
1991	441 (4)	62	533 (3)	63	718 (4)	58
1992	164 (1)	74	438 (3)	59	535 (3)	58
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	627 (4)	49
1997	190 (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	206 (1)	62
	Labor Day		Thanksgiving		Christmas	
1991	577 (3)	56	546 (4)	53	135 (1)	52
1992	460 (3)	56	403 (4)	60	410 (3)	52
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	579 (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	482 (3)	52	585 (4)	48	601 (4)	47

*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.

BEST COPY AVAILABLE

Exhibit 12. Drivers in Fatal Crashes by Blood Alcohol Concentration (BAC) and Sex, 1982-2001

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	41,199	29	25	14,792	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	41,711	29	24	14,867	16	13

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

BEST COPY AVAILABLE

Exhibit 13. Pedestrians Killed, 14 Years and Older, by Blood Alcohol Concentration (BAC), 1982-2001

	BAC = 0.00		BAC = 0.01-0.07		BAC = 0.08+		Total	
Year	No.	%	No.	%	No.	%	No.	%
1982	3,132	51	321	5	2,701	44	**6,154**	**100**
1983	2,905	51	297	5	2,508	44	**5,710**	**100**
1984	3,159	53	283	5	2,465	42	**5,907**	**100**
1985	3,072	54	342	6	2,288	40	**5,702**	**100**
1986	3,104	54	334	6	2,264	40	**5,702**	**100**
1987	3,188	56	344	6	2,183	38	**5,715**	**100**
1988	3,364	58	287	5	2,173	37	**5,825**	**100**
1989	3,164	56	300	5	2,193	39	**5,658**	**100**
1990	3,185	57	260	5	2,150	38	**5,595**	**100**
1991	2,862	57	236	5	1,907	38	**5,005**	**100**
1992	2,712	56	231	5	1,868	39	**4,812**	**100**
1993	2,792	57	199	4	1,869	38	**4,860**	**100**
1994	2,782	59	230	5	1,725	36	**4,737**	**100**
1995	2,871	59	225	5	1,801	37	**4,896**	**100**
1996	2,725	58	209	4	1,800	38	**4,734**	**100**
1997	2,889	61	177	4	1,649	35	**4,715**	**100**
1998	2,743	59	248	5	1,688	36	**4,680**	**100**
1999	2,568	58	194	4	1,657	37	**4,419**	**100**
2000	2,535	59	213	5	1,541	36	**4,288**	**100**
2001	2,648	60	215	5	1,557	35	**4,420**	**100**

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

BEST COPY AVAILABLE

Exhibit 14. Persons Killed, by Age and Highest Blood Alcohol Concentration (BAC) in the Crash, 2001

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	503	78	33	5	113	17	146	22	**649**	**100**
5-9	521	78	34	5	109	16	143	22	**664**	**100**
10-15	980	77	65	5	230	18	295	23	**1,275**	**100**
16-20	3,685	61	467	8	1,899	31	2,366	39	**6,051**	**100**
21-24	1,779	42	327	8	2,094	50	2,421	58	**4,200**	**100**
25-34	3,032	44	434	6	3,366	49	3,800	56	**6,832**	**100**
35-44	3,156	46	435	6	3,274	48	3,709	54	**6,864**	**100**
45-54	2,996	56	296	6	2,086	39	2,382	44	**5,378**	**100**
55-64	2,243	68	161	5	878	27	1,039	32	**3,282**	**100**
65-74	2,220	80	124	4	434	16	558	20	**2,778**	**100**
>74	3,460	88	123	3	357	9	481	12	**3,941**	**100**
Unknown	92	46	14	7	96	47	110	54	**202**	**100**
Total	**24,668**	**59**	**2,515**	**6**	**14,933**	**35**	**17,448**	**41**	**42,116**	**100**

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

BEST COPY AVAILABLE

Exhibit 15. Age and Alcohol, 2001

Age Group (years)	Drivers Involved in Fatal Crashes			Pedestrian Fatalities		
		BAC = 0.08+			BAC = 0.08+	
	Total	No.	%	Total	No.	%
<16	290	33	11	484	13	3
16–20	7,963	1,419	18	297	86	29
21–34	17,550	5,203	30	837	414	49
35–54	19,508	4,447	23	1,694	814	48
55–69	6,311	677	11	638	175	27
70+	4,808	239	5	870	60	7
Total	***57,480**	**12,293**	**21**	****4,882**	**1,589**	**33**

*Includes 1,050 drivers of unknown age.

**Includes 62 pedestrian fatalities of unknown age.

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

BEST COPY AVAILABLE

Exhibit 16. Persons Killed or Injured, by Person Type and Injury Severity, 2001

Person Type	Persons Killed	Persons Injured by Injury Severity			Total Injured	Total Killed or Injured
		Incapacitating	Non-incapacitating	Other		
Vehicle Occupants						
Driver	25,840	238,000	514,000	1,236,000	1,989,000	**2,014,000**
Passenger	10,441	100,000	226,000	587,000	913,000	**923,000**
Unknown Occupant	105	*	*	*	*	*
Subtotal	*36,386*	*338,000*	*740,000*	*1,823,000*	*2,901,000*	***2,938,000***
Nonmotorists						
Pedestrian	4,882	18,000	27,000	33,000	78,000	**83,000**
Pedalcyclist	728	6,000	25,000	14,000	45,000	**46,000**
Other/Unknown	120	1,000	3,000	4,000	8,000	**8,000**
Subtotal	*5,730*	*25,000*	*55,000*	*51,000*	*131,000*	***137,000***
Total	**42,116**	**363,000**	**795,000**	**1,874,000**	**3,033,000**	**3,075,000**

*Less than 500.

BEST COPY AVAILABLE

Exhibit 17. Related Factors for Drivers Involved in Fatal Crashes, 2001

Factors	Number	Percent
Failure to keep in proper lane or running off road	18,274	31.8
Driving too fast for conditions or in excess of posted speed limit or racing	11,371	19.8
Failure to yield right of way	4,802	8.4
Inattentive (talking, eating, etc.)	4,014	7.0
Operating vehicle in erratic, reckless, careless, or negligent manner	3,385	5.9
Failure to obey traffic signs, signals, or officer	3,016	5.2
Overcorrecting/oversteering	2,000	3.5
Swerving or avoiding due to wind, slippery surface, vehicle, object, nonmotorist in roadway, etc.	1,852	3.2
Drowsy, asleep, fatigued, ill, or blackout	1,677	2.9
Making improper turn	1,434	2.5
Driving wrong way on one-way trafficway or on wrong side of road	1,152	2.0
Vision obscured (rain, snow, glare, lights, building, trees, etc.)	1,050	1.8
Other factors	8,604	15.0
None reported	21,070	36.7
Unknown	912	1.6
Total Drivers	**57,480**	**100.0**

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.

BEST COPY AVAILABLE

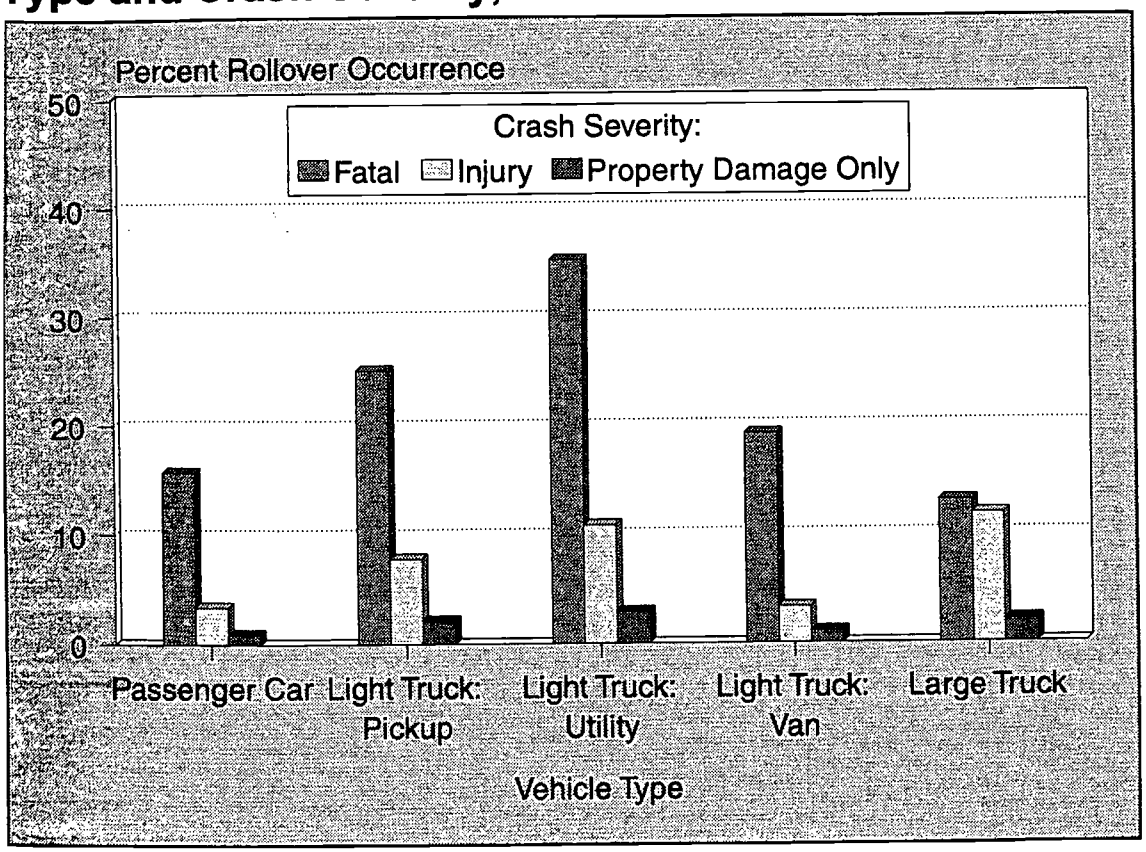
Exhibit 18. Vehicle Occupants Killed or Injured, by Age and Vehicle Type, 2001

Age (Years)	Vehicle Type						Total
	Passenger Cars	Light Trucks	Large Trucks	Motor-cycles	Buses	Other/ Unknown	
Occupants Killed							
<5	317	180	4	1	1	10	**513**
5-9	251	177	4	7	1	13	**453**
10-15	501	339	7	35	5	57	**944**
16-20	3,852	1,489	12	256	4	70	**5,683**
21-24	2,318	1,105	39	390	0	34	**3,886**
25-34	3,115	1,959	144	857	7	86	**6,168**
35-44	2,620	2,143	181	789	4	71	**5,808**
45-54	1,962	1,699	171	573	3	46	**4,454**
55-64	1,337	1,080	99	189	6	43	**2,754**
65-74	1,426	776	37	61	3	28	**2,331**
>74	2,490	704	4	21	0	38	**3,257**
Unknown	44	26	2	2	0	61	**135**
Total	**20,233**	**11,677**	**704**	**3,181**	**34**	**557**	**36,386**
Occupants Injured							
<5	39,000	21,000	*	*	*	*	**60,000**
5-9	46,000	27,000	*	*	1,000	*	**75,000**
10-15	81,000	39,000	*	1,000	4,000	3,000	**128,000**
16-20	373,000	120,000	1,000	6,000	1,000	1,000	**503,000**
21-24	225,000	82,000	2,000	7,000	*	1,000	**317,000**
25-34	363,000	162,000	7,000	14,000	2,000	1,000	**549,000**
35-44	293,000	175,000	8,000	14,000	3,000	1,000	**493,000**
45-54	212,000	132,000	8,000	13,000	2,000	1,000	**367,000**
55-64	126,000	55,000	3,000	4,000	1,000	1,000	**189,000**
65-74	88,000	32,000	1,000	1,000	*	*	**123,000**
>74	82,000	16,000	*	*	*	*	**98,000**
Total	**1,927,000**	**861,000**	**29,000**	**60,000**	**15,000**	**9,000**	**2,901,000**

*Less than 500.

BEST COPY AVAILABLE

Exhibit 19. Percent Rollover Occurrence by Vehicle Type and Crash Severity, 2001



BEST COPY AVAILABLE

Exhibit 20. Vehicle Occupants Killed or Injured, by Vehicle Type and Ejection, 2001

Vehicle Type	Ejected*		Not Ejected		Unknown		Total	
	Number	Percent	Number	Percent	Number	Percent	Number	Percent
Occupants Killed								
Passenger Car	4,316	21.3	15,831	78.2	86	0.4	**20,233**	**100.0**
Light Truck	4,746	40.6	6,885	59.0	46	0.4	**11,677**	**100.0**
Large Truck	210	29.8	488	69.3	6	0.9	**704**	**100.0**
Bus	7	20.6	23	67.6	4	11.8	**34**	**100.0**
Other/Unknown	189	33.9	262	47.0	106	19.0	**557**	**100.0**
Total**	**9,468**	**28.5**	**23,489**	**70.7**	**248**	**0.7**	**33,205**	**100.0**
Occupants Injured								
Passenger Car	9,000	0.5	1,918,000	99.5	****	****	**1,927,000**	**100.0**
Light Truck	12,000	1.4	848,000	98.6	****	****	**861,000**	**100.0**
Large Truck	***	0.9	29,000	99.1	****	****	**29,000**	**100.0**
Bus	***	0.7	15,000	99.3	****	****	**15,000**	**100.0**
Other/Unknown	3,000	28.6	7,000	71.4	****	****	**9,000**	**100.0**
Total**	**24,000**	**0.9**	**2,817,000**	**99.1**	****	****	**2,841,000**	**100.0**

*Includes total and partial ejection.

**Excludes motorcycle occupants.

***Less than 500.

****Not applicable.

BEST COPY AVAILABLE

Exhibit 21. Occupants Killed or Injured in Two-Vehicle Crashes, by Vehicle Types Involved, 2001

Vehicle Types Involved				Total Occupants Killed
Vehicle Type	Occupants Killed	Vehicle Type	Occupants Killed	
Passenger Car	—	Passenger Car	—	**3,289**
Passenger Car	4,375	Light Truck	1,150	**5,525**
Passenger Car	1,739	Large Truck	25	**1,764**
Passenger Car	21	Motorcycle	686	**707**
Passenger Car	81	Bus	0	**81**
Passenger Car	103	Other/Unknown	43	**146**
Light Truck	—	Light Truck	—	**1,608**
Light Truck	1,183	Large Truck	36	**1,219**
Light Truck	5	Motorcycle	645	**650**
Light Truck	58	Bus	3	**61**
Light Truck	54	Other/Unknown	92	**146**
Large Truck	—	Large Truck	—	**102**
Large Truck	0	Motorcycle	89	**89**
Large Truck	2	Bus	7	**9**
Large Truck	5	Other/Unknown	23	**28**
Motorcycle	—	Motorcycle	—	**45**
Motorcycle	5	Bus	0	**5**
Motorcycle	36	Other/Unknown	3	**39**
Bus	—	Bus	—	**1**
Bus	0	Other/Unknown	3	**3**
Other/Unknown	—	Other/Unknown	—	**61**
Total Occupants Killed				**15,578**

Vehicle Types Involved				Total Occupants Injured
Vehicle Type	Occupants Injured	Vehicle Type	Occupants Injured	
Passenger Car	—	Passenger Car	—	**767,000**
Passenger Car	472,000	Light Truck	306,000	**779,000**
Passenger Car	50,000	Large Truck	6,000	**56,000**
Passenger Car	2,000	Motorcycle	18,000	**21,000**
Passenger Car	6,000	Bus	5,000	**11,000**
Passenger Car	1,000	Other/Unknown	2,000	**3,000**
Light Truck	—	Light Truck	—	**207,000**
Light Truck	21,000	Large Truck	5,000	**26,000**
Light Truck	1,000	Motorcycle	11,000	**11,000**
Light Truck	2,000	Bus	5,000	**6,000**
Light Truck	1,000	Other/Unknown	2,000	**2,000**
Large Truck	—	Large Truck	—	**2,000**
Total Occupants Injured				**1,895,000**

BEST COPY AVAILABLE

Exhibit 22. Passenger Car, Light Truck, and Large Truck Occupants Killed or Injured, by Age and Restraint Use, 2001

Age (Years)	Restraint Use						Total	
	Used		Not Used		Unknown			
	No.	%	No.	%	No.	%	No.	%
Occupants Killed								
<5	237	47.3	228	45.5	36	7.2	**501**	**100.0**
5-9	197	45.6	206	47.7	29	6.7	**432**	**100.0**
10-15	259	30.6	515	60.8	73	8.6	**847**	**100.0**
16-20	1,687	31.5	3,212	60.0	454	8.5	**5,353**	**100.0**
21-24	948	27.4	2,202	63.6	312	9.0	**3,462**	**100.0**
25-34	1,527	29.3	3,240	62.1	451	8.6	**5,218**	**100.0**
35-44	1,519	30.7	3,042	61.5	383	7.7	**4,944**	**100.0**
45-54	1,438	37.5	2,054	53.6	340	8.9	**3,832**	**100.0**
55-64	1,165	46.3	1,147	45.6	204	8.1	**2,516**	**100.0**
65-74	1,173	52.4	903	40.3	163	7.3	**2,239**	**100.0**
>74	1,859	58.1	1,084	33.9	255	8.0	**3,198**	**100.0**
Unknown	21	29.2	35	48.6	16	22.2	**72**	**100.0**
Total	**12,030**	**36.9**	**17,868**	**54.8**	**2,716**	**8.3**	**32,614**	**100.0**
Occupants Injured								
<5	49,000	82.6	6,000	10.6	4,000	6.8	**59,000**	**100.0**
5-9	60,000	81.9	9,000	12.2	4,000	5.8	**74,000**	**100.0**
10-15	87,000	72.7	25,000	20.8	8,000	6.5	**120,000**	**100.0**
16-20	373,000	75.5	83,000	16.9	38,000	7.6	**494,000**	**100.0**
21-24	235,000	75.9	46,000	14.9	29,000	9.2	**309,000**	**100.0**
25-34	426,000	80.0	63,000	11.7	44,000	8.2	**532,000**	**100.0**
35-44	392,000	82.5	47,000	10.0	36,000	7.5	**476,000**	**100.0**
45-54	298,000	84.9	25,000	7.1	28,000	8.0	**351,000**	**100.0**
55-64	160,000	87.0	13,000	6.9	11,000	6.1	**184,000**	**100.0**
65-74	106,000	87.8	6,000	5.2	8,000	7.0	**121,000**	**100.0**
>74	86,000	88.2	6,000	5.7	6,000	6.1	**97,000**	**100.0**
Total	**2,272,000**	**80.7**	**329,000**	**11.7**	**216,000**	**7.7**	**2,817,000**	**100.0**

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

BEST COPY AVAILABLE

Exhibit 23. Restraint Use by Children Under 5 Years Old, 2000

Grouping	Restraint Use (Percent)	Grouping	Restraint Use (Percent)
Overall	91	Rush Hour	95
Infants (<1 Year)	95	Non-Rush Hour	92
Toddlers (1 to 4 Years)	91	Weekday	94
Passenger Cars	92	Weekend	84
Light Trucks	98	City	96
Front Seat	94	Suburban	94
Back Seat	91	Rural	72

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

BEST COPY AVAILABLE

Exhibit 24. Fatalities and Injuries in Crashes Involving Large Trucks, 2001

Type of Fatality	Number	Percentage of Total
Occupants of Large Trucks	704	14
Single-Vehicle Crashes	*471*	*9*
Multiple-Vehicle Crashes	*233*	*5*
Occupants of Other Vehicles in Crashes Involving Large Trucks	3,940	78
Nonoccupants (Pedestrians, Pedalcyclists, etc.)	438	9
Total	**5,082**	**100**

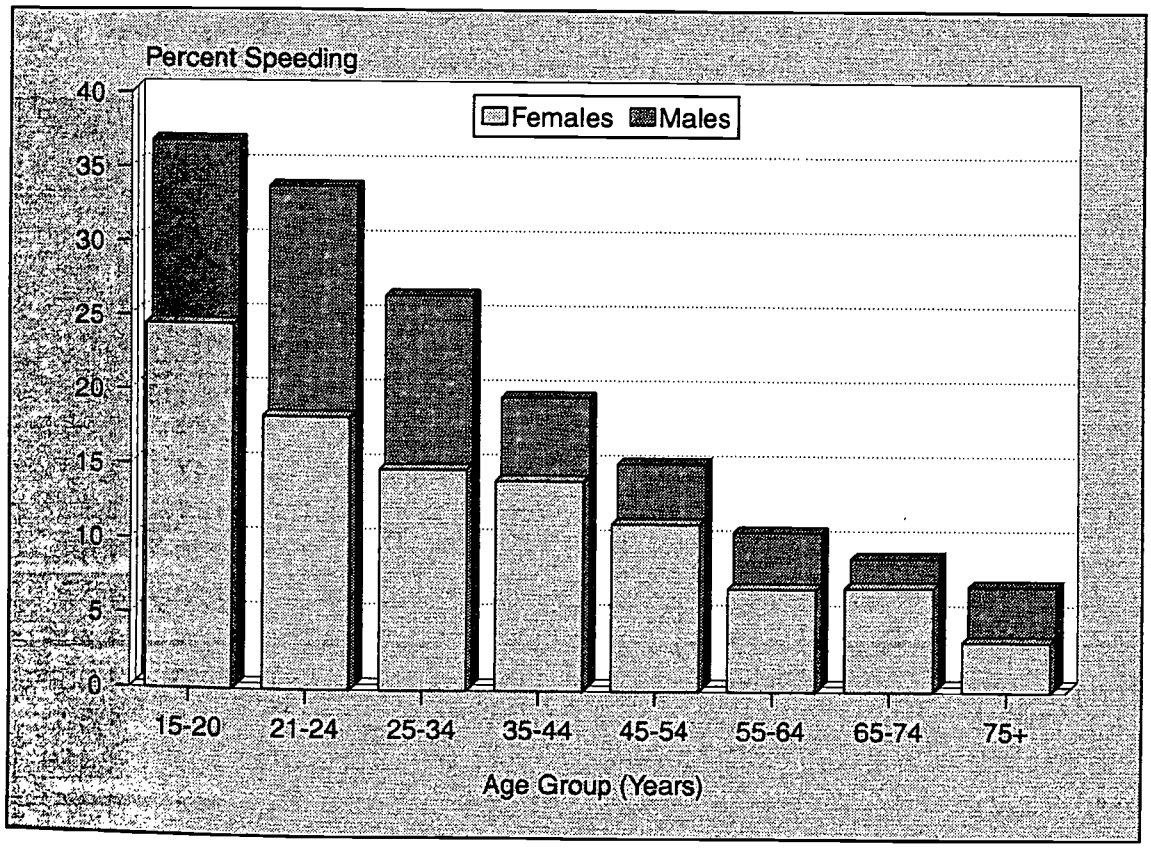
Type of Injury	Number	Percentage of Total
Occupants of Large Trucks	29,000	23
Single-Vehicle Crashes	*13,000*	*10*
Multiple-Vehicle Crashes	*16,000*	*12*
Occupants of Other Vehicles in Crashes Involving Large Trucks	99,000	75
Nonoccupants (Pedestrians, Pedalcyclists, etc.)	3,000	2
Total	**131,000**	**100**

Exhibit 25. Principal Impact Points in Two-Vehicle Fatal Crashes Involving Large Trucks, 2001

Impact Point on Large Truck	Impact Point on Other Vehicle				
	Front	Left Side	Right Side	Rear	Total
Front	32%	17%	13%	6%	**68%**
Left Side	8%	<1%	<1%	<1%	**9%**
Right Side	5%	<1%	<1%	<1%	**7%**
Rear	15%	<1%	<1%	<1%	**16%**
Total	**60%**	**19%**	**14%**	**7%**	**100%**

BEST COPY AVAILABLE

Exhibit 26. Speeding Drivers in Fatal Crashes by Age and Sex, 2001



BEST COPY AVAILABLE

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, 1975-2001

	Lives Saved						Lives Savable at 100% Use	
	Child Restraints		Passenger Vehicle Rrestraints					
Year	Seats	Belts	Safety Belts	Air Bags	Motor-cycles	21-Year-Old Drinking Age	Safety Belts	Motor-cycle Helmets
1975	33	3	978	0	823	412	14,279	1,164
1976	14	6	796	0	788	436	14,647	1,189
1977	32	3	682	0	970	474	15,142	1,472
1978	21	4	679	0	900	509	16,220	1,588
1979	45	4	594	0	885	575	16,320	1,676
1980	39	10	575	0	871	595	16,305	1,744
1981	62	7	548	0	843	633	15,770	1,667
1982	68	7	678	0	816	578	13,928	1,528
1983	95	10	809	0	735	609	13,722	1,450
1984	111	15	1,197	0	813	709	14,424	1,572
1985	135	18	2,435	0	788	701	14,943	1,552
1986	132	34	4,094	0	807	840	16,822	1,558
1987	172	41	5,141	2	667	1,071	17,819	1,364
1988	209	39	5,959	5	605	1,148	18,633	1,237
1989	197	41	6,333	8	530	1,093	18,589	1,064
1990	193	29	6,592	37	602	1,033	18,353	1,115
1991	217	30	7,011	68	531	941	17,650	968
1992	232	36	7,390	100	559	795	17,215	856
1993	247	39	8,347	169	572	816	17,985	875
1994	250	58	9,206	276	518	848	18,726	818
1995	232	47	9,790	470	506	851	19,663	791
1996	313	52	10,414	686	490	846	20,169	769
1997	266	46	10,750	842	486	846	20,355	752
1998	244	55	11,018	1,043	500	861	20,370	807
1999	277	30	11,197	1,263	551	901	20,750	877
2000	282	33	11,889	1,584	631	922	21,127	1,013
2001	235	34	12,144	1,816	674	927	21,311	1,118
Total	**4,353**	**731**	**147,246**	**8,369**	**18,461**	**20,970**	**471,237**	**32,584**

BEST COPY AVAILABLE

NOTES

U.S. Department of Transportation

National Highway Traffic Safety Administration

DOT HS 809 538
January 2003

U.S. Department of Education
Office of Educational Research and Improvement (OERI)
National Library of Education (NLE)
Educational Resources Information Center (ERIC)

NOTICE

Reproduction Basis

☐ This document is covered by a signed "Reproduction Release (Blanket)" form (on file within the ERIC system), encompassing all or classes of documents from its source organization and, therefore, does not require a "Specific Document" Release form.

☒ This document is Federally-funded, or carries its own permission to reproduce, or is otherwise in the public domain and, therefore, may be reproduced by ERIC without a signed Reproduction Release form (either "Specific Document" or "Blanket").

FY 03/377