



2000 Early Assessment

National Center for Statistics & Analysis

Motor Vehicle Traffic Crash Fatality and Injury Estimates for 2000

*Based on
The Fatality Analysis Reporting System (FARS)
and
The National Automotive Sampling System
General Estimates System (NASS GES)*



The 2000 Early Assessment

National Center for Statistics & Analysis

This presentation contains the Early Assessment estimates for motor vehicle traffic crashes in 2000 and the resulting injuries and fatalities. They are compared to estimates from the 1999 Annual Files. These Early Assessment estimates are based on data from the sources indicated in the last slide that for most are incomplete or preliminary. Early Assessment estimates will be superceded by estimates based on data files representing all of 2000 sometime during the summer of 2000.



Number of Crashes and Persons Killed and Injured

National Center for Statistics & Analysis

	<u>1999</u>	<u>2000</u>
• Persons Killed	41,611	41,800
• Persons Injured	3,236,000	3,219,000
• Fatal Crashes	37,043	37,338
• Nonfatal Crashes	6,242,000	6,266,000
♦ Injury Crashes	2,054,000	2,079,000
♦ Property-Damage-Only	4,188,000	4,187,000



Fatality and Injury Rates

National Center for Statistics & Analysis

	<u>1999</u>	<u>2000</u>
• Persons Killed	41,611	41,800
◆ 100M VMT	1.5	1.6
◆ 100K Population	15.3	15.2
◆ 100K Reg. Vehicles	19.6	19.2*
• Persons Injured	3,236,000	3,219,000
◆ 100M VMT	120	120
◆ 100K Population	1,187	1,170
◆ 100K Reg. Vehicles	1,522	1,481*

Sources: FARS, NASS GES, FHWA, and Census Bureau

*Based on NHTSA's Projections



Exposure Data

National Center for Statistics & Analysis

	<u>1999</u>	<u>2000</u>
• VMT (Vehicle Miles Traveled)	2,691,335M	2,688,312M
• Population	272,690,813	275,129,687
• Reg. Vehicles (Registered Vehicles)	212,685,000	217,293,000*

*Based on NHTSA's Projections

Sources: R.L. Polk, FHWA, Census



2000 Police Reported Motor Vehicle Crashes

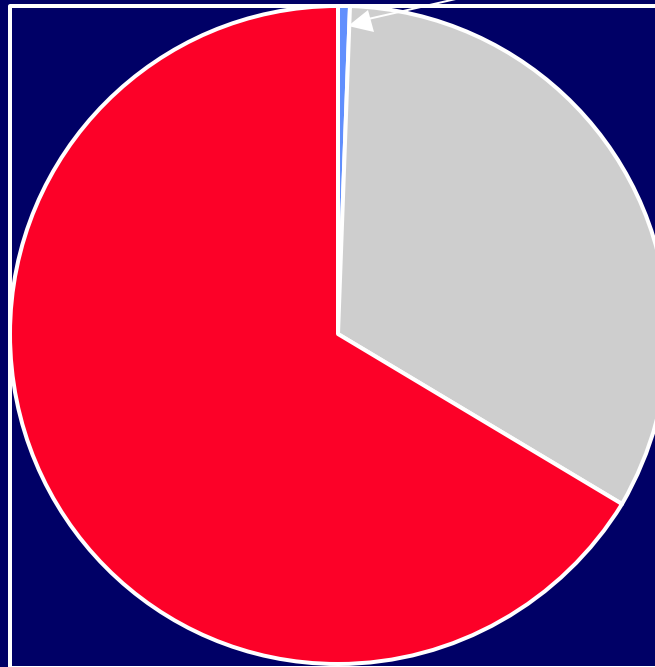
National Center for Statistics & Analysis

Total --
6,303,000

37,338 Fatal

2,079,000
Injury

4,187,000
Property
Damage Only



In addition there are an estimated 10,000,000 or more unreported crashes and over \$150 Billion in societal costs



Persons Killed and Injured in Alcohol Related Crashes, by Role

National Center for Statistics & Analysis

	<u>1999</u>	<u>2000</u>
• Persons Killed	15,786	16,068
◦ % All Fatalities	38%	38%
◆ Drivers	9,630	9,924
◆ Passengers	3,516	3,606
◆ Non Occupants	2,641	2,538
• Persons Injured	308,000	306,000
◆ Drivers	193,000	199,000
◆ Passengers	97,000	93,000
◆ Non Occupants	17,000	14,000

Source: FARS, GES



Persons Killed by Sex, Role

National Center for Statistics & Analysis

	<u>1999</u>	<u>2000</u>
• Sex		
◆ Males	27,981	28,363
◆ Females	13,630	13,437
• Role		
◆ Drivers	25,210	25,543
◆ Passengers	10,596	10,630
◆ Non Occupants	5,805	5,627

Source: FARS



Non-Occupants Killed, by Role

National Center for Statistics & Analysis

	<u>1999</u>	<u>2000</u>
• Pedestrians	4,906	4,727
• Pedalcyclists	750	738
• Others *	<u>149</u>	<u>161</u>
• Total	5,805	5,626

* Includes occupants of a motor vehicle in transport and occupants of non-motor vehicle transport device.

Source: FARS



Vehicle Occupants Killed, by Type of Vehicle

National Center for Statistics & Analysis

	<u>1999</u>	<u>2000</u>
• Passenger Cars	20,818	20,455
• LTVs	11,243	11,439
• Large Trucks	758	746
• Other Vehicles*	<u>2,987</u>	<u>3,533</u>
• Total	35,806	36,173

*Includes vehicle occupant fatalities of motorcycles, buses, and other vehicle types.

Source: FARS



Vehicle Occupants Injured, by Type of Vehicle

National Center for Statistics & Analysis

	<u>1999</u>	<u>2000</u>
• Passenger Cars	2,138,000	2,068,000
• LTVs	847,000	893,000
• Large Trucks	33,000	30,000
• Other Vehicles*	<u>79,000</u>	<u>89,000</u>
• Total	3,097,000	3,080,000

*Includes vehicle occupant fatalities of motorcycles, buses, and other vehicle types.

Source: GES



Persons Killed in Large Truck Crashes, by Type

National Center for Statistics & Analysis

	<u>1999</u>	<u>2000</u>
• Truck Occupants	758	747
◆ Single Vehicle	479	480
◆ Multiple Vehicle	279	267
• Other Vehicle Occupants	4,170	4,141
• Non-Occupants	<u>434</u>	<u>419</u>
• Total	5,362	5,307

Source: FARS



Persons Injured in Large Truck Crashes, by Type

National Center for Statistics & Analysis

	<u>1999</u>	<u>2000</u>
• Truck Occupants	33,000	30,000
◆ Single Vehicle	15,000	15,000
◆ Multiple Vehicle	18,000	15,000
• Other Vehicle Occupants	105,000	110,000
• Non-Occupants	<u>4,000</u>	<u>5,000</u>
• Total	142,000	145,000

Source: NASS GES



Motorcycle Riders Killed or Injured

National Center for Statistics & Analysis

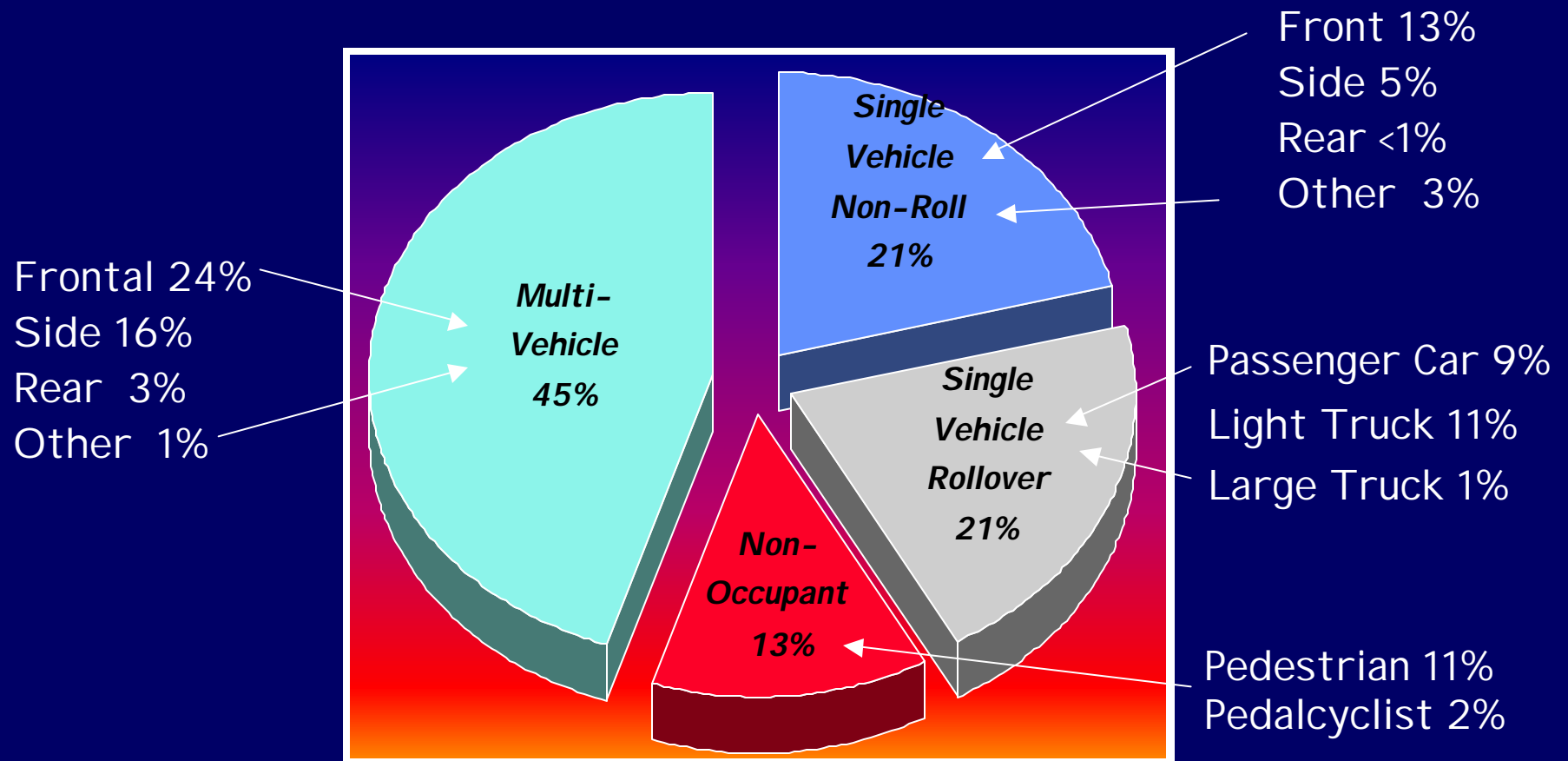
	<u>1999</u>	<u>2000</u>
• Killed	2,472	2,680
◆ Drivers	2,276	2,453
◆ Passengers	196	227
• Injured	50,000	58,000
◆ Drivers	45,000	51,000
◆ Passengers	5,000	7,000

Sources: FARS and NASS GES



Persons Killed in 2000, by Type of Crash (Percent)

National Center for Statistics & Analysis

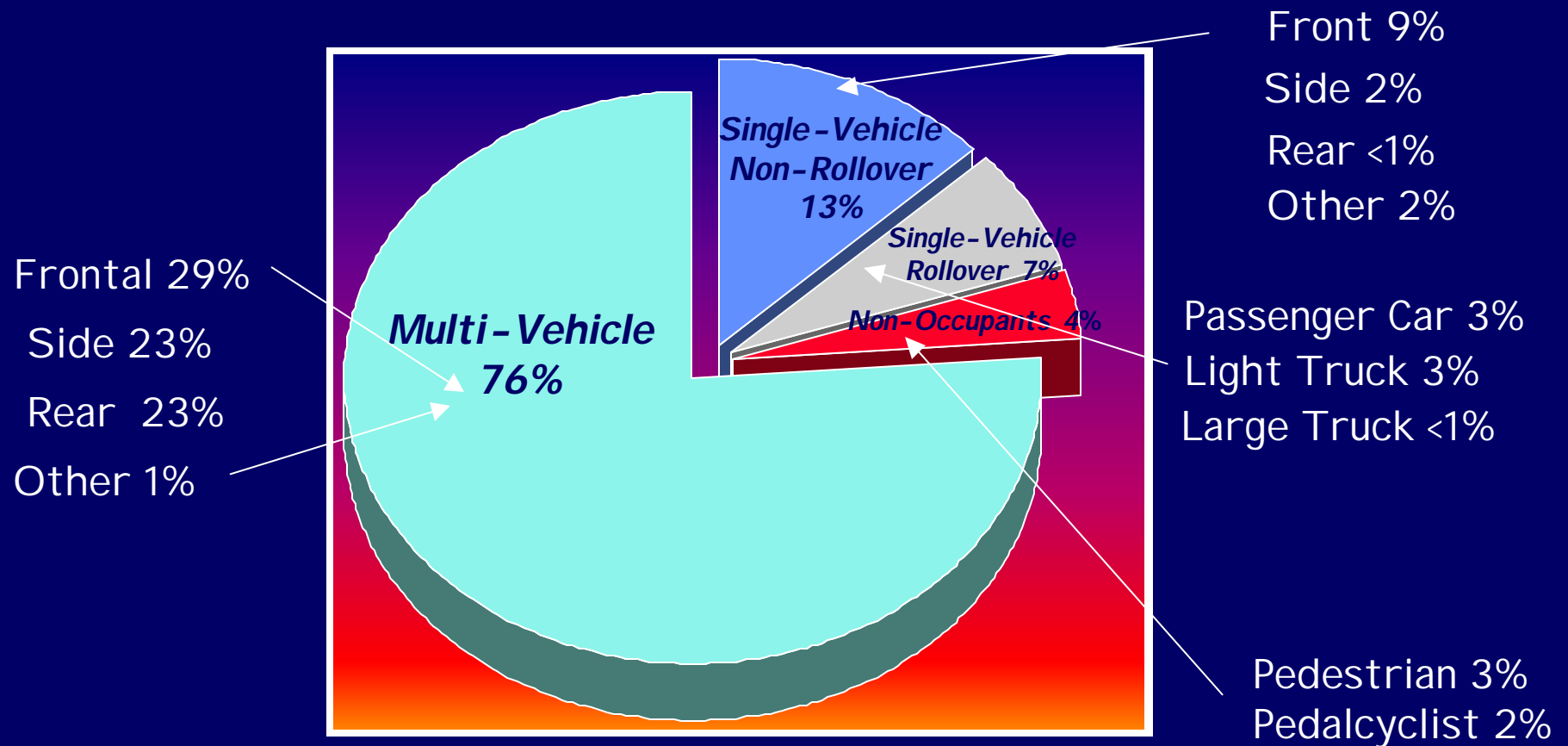


Source: FARS



Persons Injured in 2000, by Type of Crash (Percent)

National Center for Statistics & Analysis



Source: NASS GES



Passenger Vehicle Occupants Killed, by Restraint Use Status, Type of Crash

National Center for Statistics & Analysis

	<u>1999</u>	<u>2000</u>
• Restraint Use Status		
◆ Restraint Used	11,101	11,247
◆ No Restraint Used	18,317	17,961
◆ Unknown	2,643	2,685
• Type of Crash		
◆ Rollover	10,133	10,108
◆ Non Rollover	21,928	21,786

Source: FARS



Passenger Vehicle Occupants Killed in Rollover Crashes, by Type of Crash and Type of Vehicle

National Center for Statistics & Analysis

	<u>1999</u>	<u>2000</u>
• Single-Vehicle Crash		
◆ Passenger Car	3,985	3,938
◆ Van	554	558
◆ Sport Utility Vehicle	1,542	1,624
◆ Light Truck	2,256	2,234
• Multi-Vehicle Crash		
◆ Passenger Car	731	723
◆ Van	226	199
◆ Sport Utility Vehicle	356	327
◆ Light Truck	483	504

Source: FARS



Children and Youth Killed by Age Group and Role

National Center for Statistics & Analysis

	<u>1999</u>	<u>2000</u>
• Age Group / Role		
◆ Ages 0 - 4		
◦ Occupants	555	542
◦ Non Occupants	178	190
◆ Ages 5 - 15		
◦ Occupants	1,553	1,525
◦ Non Occupants	645	578
◆ Ages 16 - 20		
◦ Drivers	3,481	3,570
◦ Passengers	2,086	2,132
◦ Non Occupants	350	344

Source: FARS



Children and Youth Injured, by Age Group and Role

National Center for Statistics & Analysis

	<u>1999</u>	<u>2000</u>
• Age Group / Role		
◆ Ages 0 - 4		
◦ Occupants	72,000	69,000
◦ Non Occupants	4,000	3,000
◆ Ages 5 - 15		
◦ Occupants	250,000	227,000
◦ Non Occupants	47,000	44,000
◆ Ages 16 - 20		
◦ Drivers	355,000	344,000
◦ Occupants	205,000	210,000
◦ Non Occupants	14,000	15,000

Source: FARS, GES



Number of Crashes and Persons Killed in Crashes Involving Young Drivers (Ages 16-20)

National Center for Statistics & Analysis

	<u>1999</u>	<u>2000</u>
• Total Crashes		
◆ Fatal	7,609	7,639
◆ Injury	588,000	572,000
◆ PDO	1,149,000	1,110,000
• Persons Killed		
◆ Young Drivers	3,481	3,570
◆ Passengers (Ages 16-20)*	1,379	1,376
◆ Others	4,048	3,919

* In vehicles with young drivers

Source: FARS, GES



Persons Killed or Injured in School Bus or School Bus Related Crashes

National Center for Statistics & Analysis

	<u>1999</u>	<u>2000</u>
• Fatalities	164	161
◆ School Bus Occupants	10	17
◆ Others	154	144
• Persons Injured	18,000	23,000
◆ School Bus Occupants	10,000	11,000
◆ Others	9,000	11,000

Note: Totals may not add due to rounding.

Sources: FARS and NASS GES



People Saving People

National Center for Statistics & Analysis

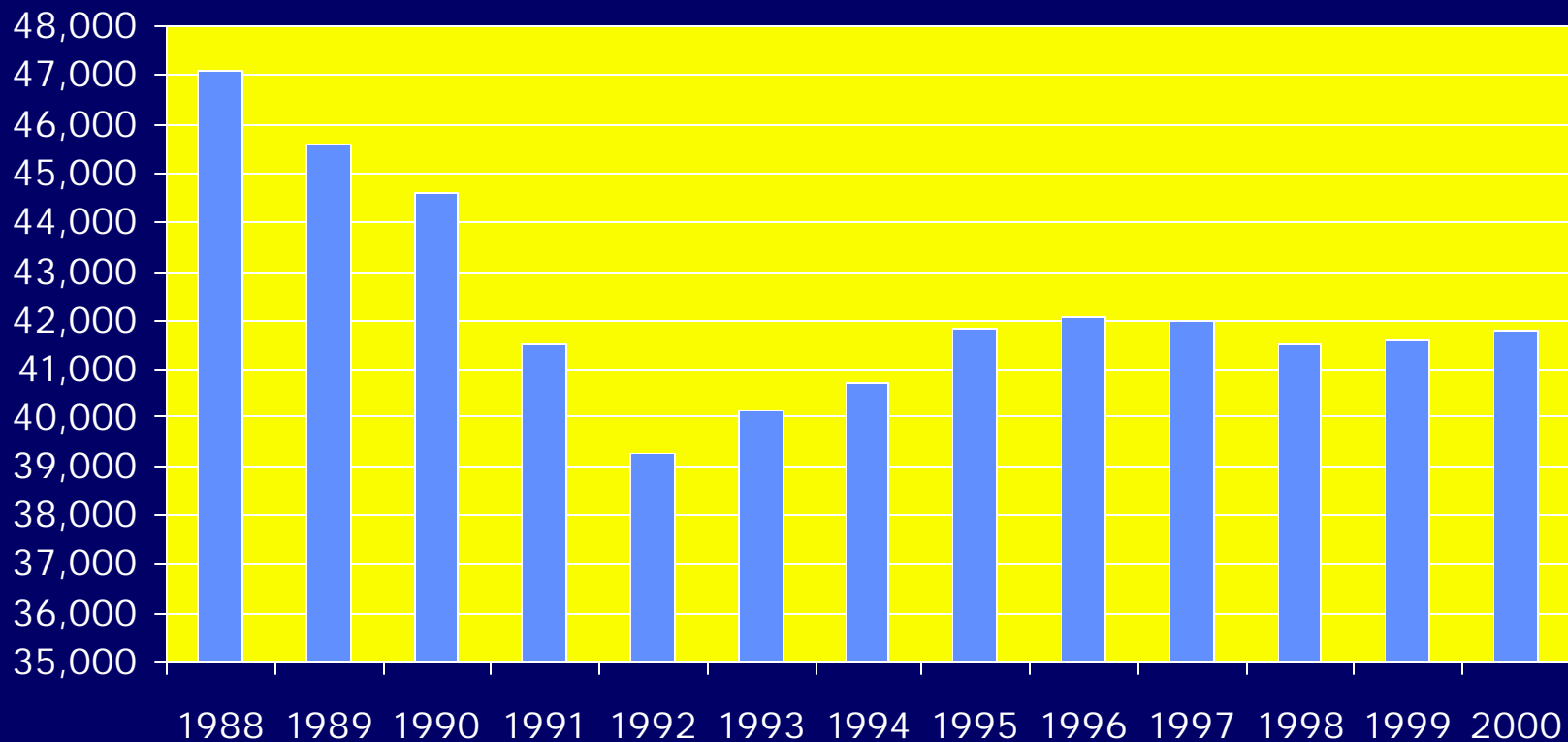
Trends

1988 - 2000



Persons Killed in Traffic Crashes, by Year

National Center for Statistics & Analysis

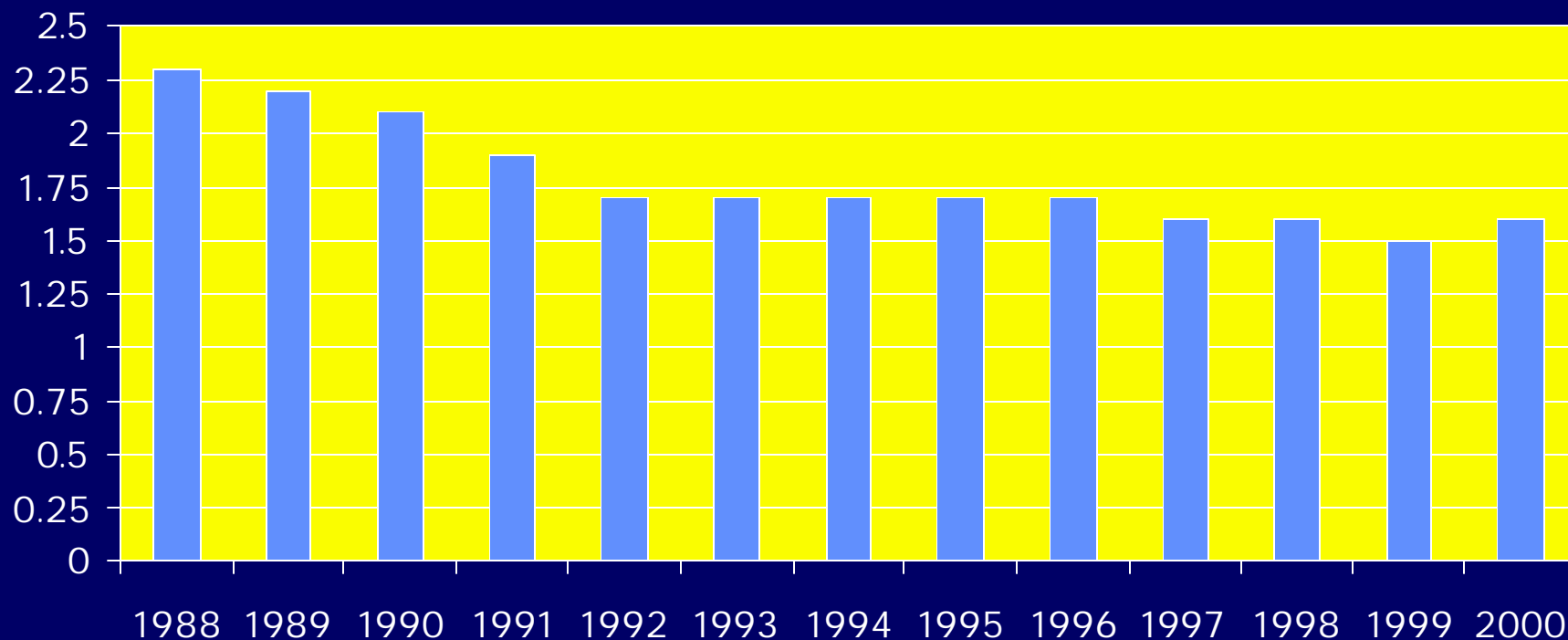


Source: FARS



Crash Fatality Rate, by Year

National Center for Statistics & Analysis



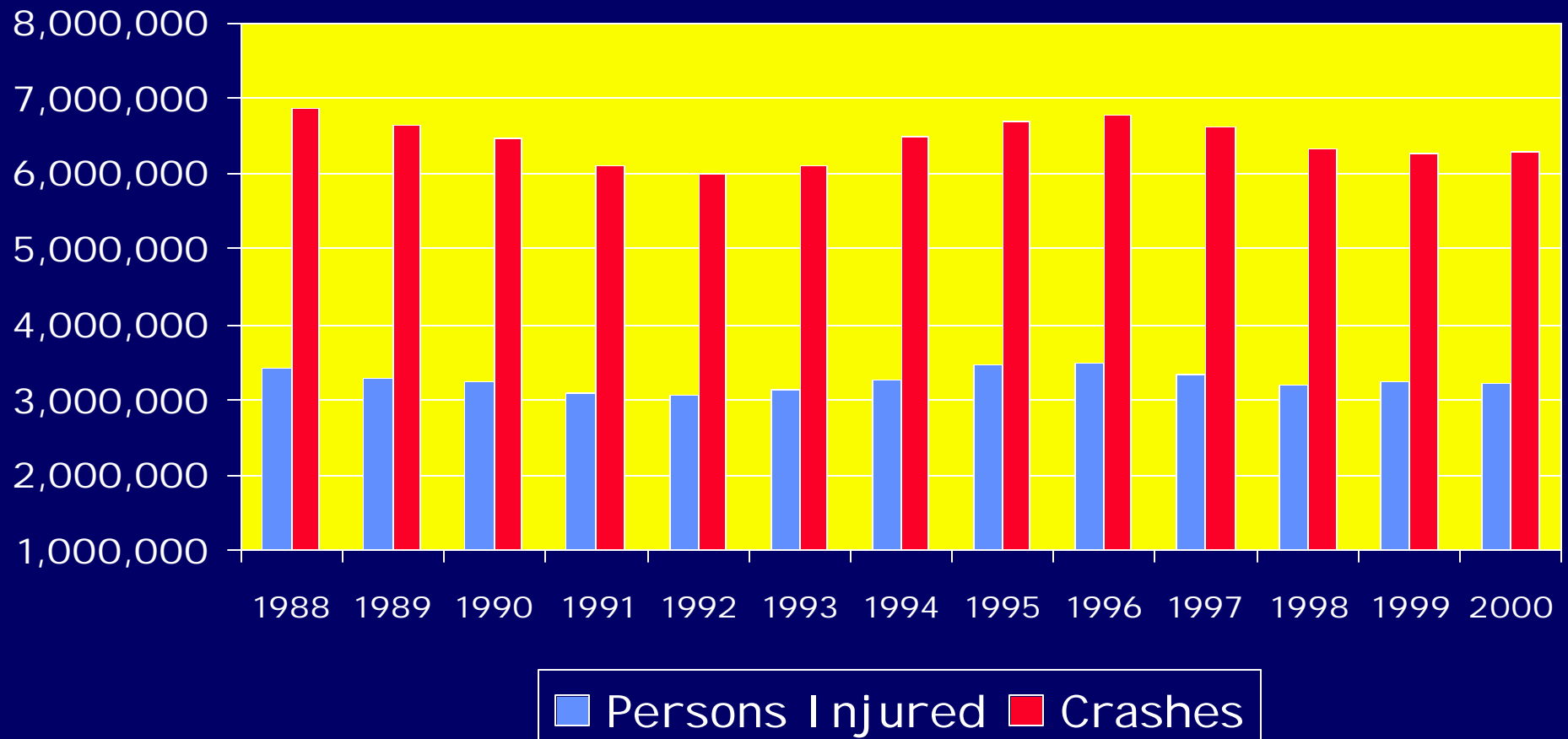
■ Persons Killed / 100M VMT

Source: FARS, FHWA VMT



Total Crashes and Persons Injured by Year

National Center for Statistics & Analysis

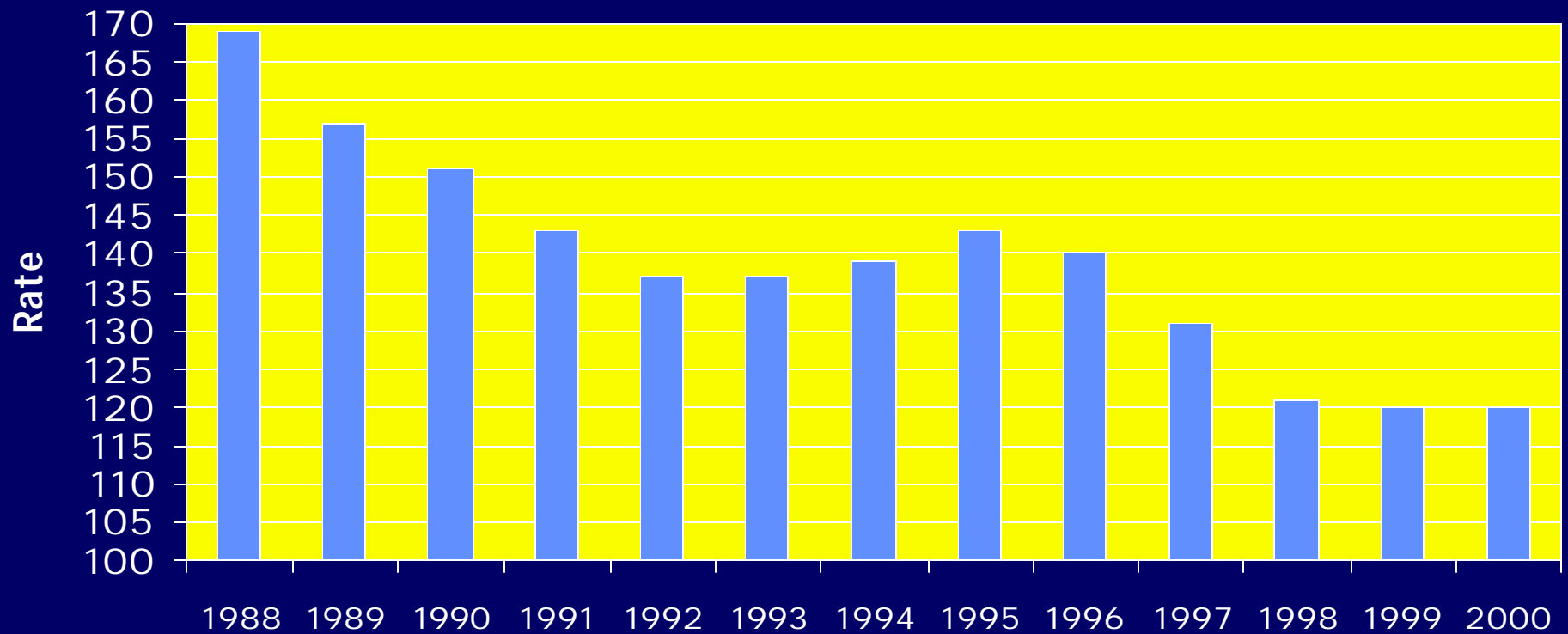


Sources: NASS GES



Crash Injury Rate by Year

National Center for Statistics & Analysis



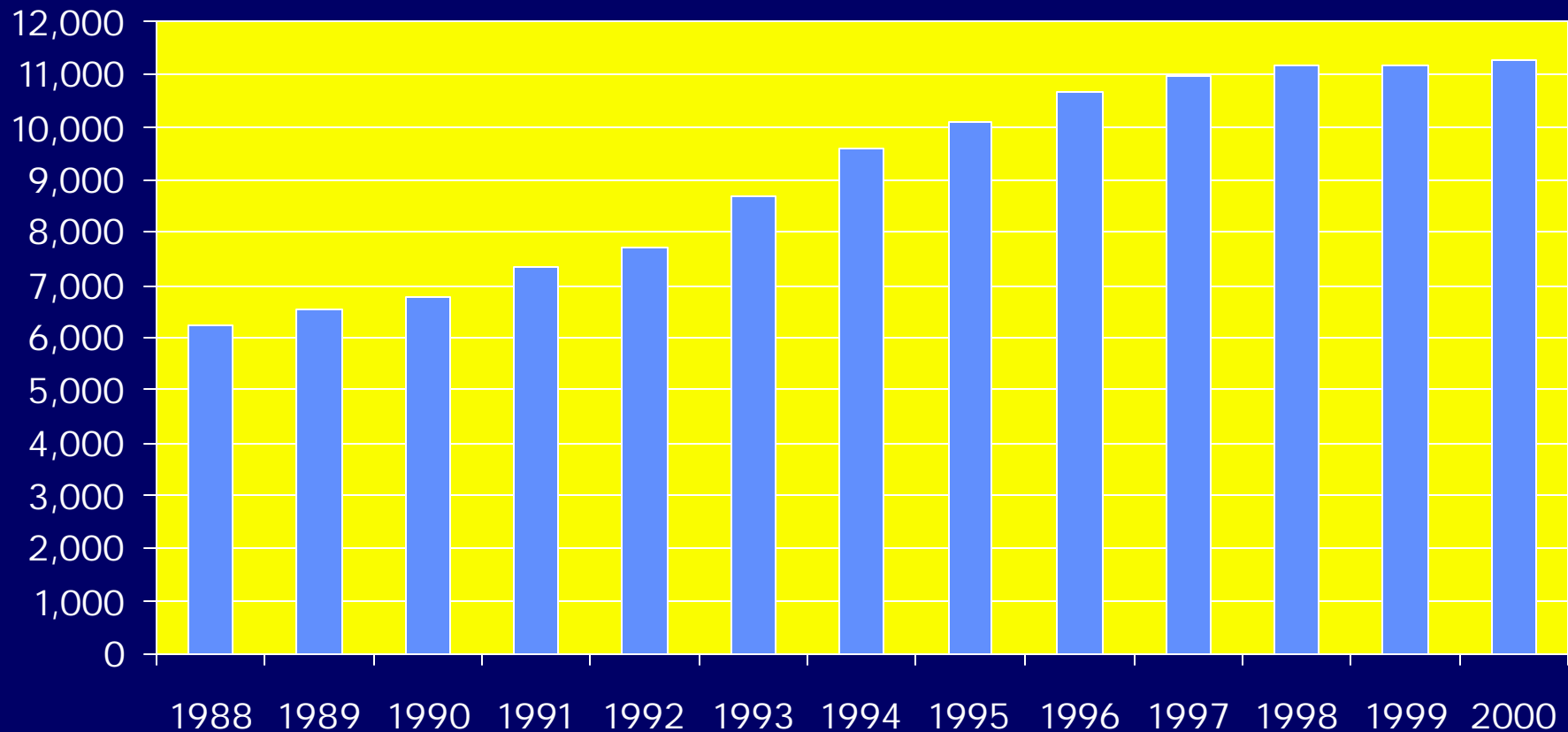
■ Persons Injured / 100M VMT

Sources: NASS GES/ FHWA VMT



Restrained Passenger Vehicle Occupants Killed, by Year

National Center for Statistics & Analysis

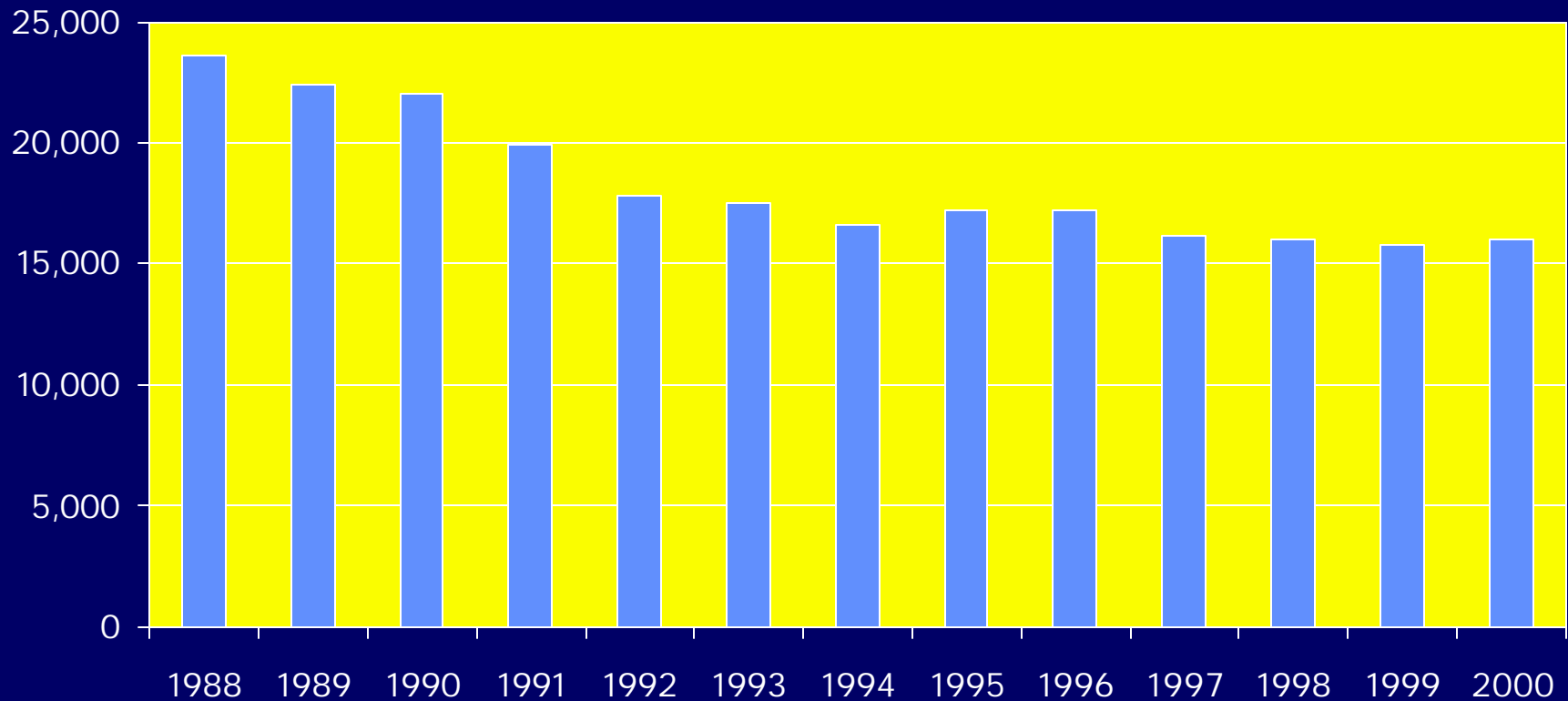


Source: FARS



Persons Killed in Alcohol-Related Traffic Crashes, by Year

National Center for Statistics & Analysis

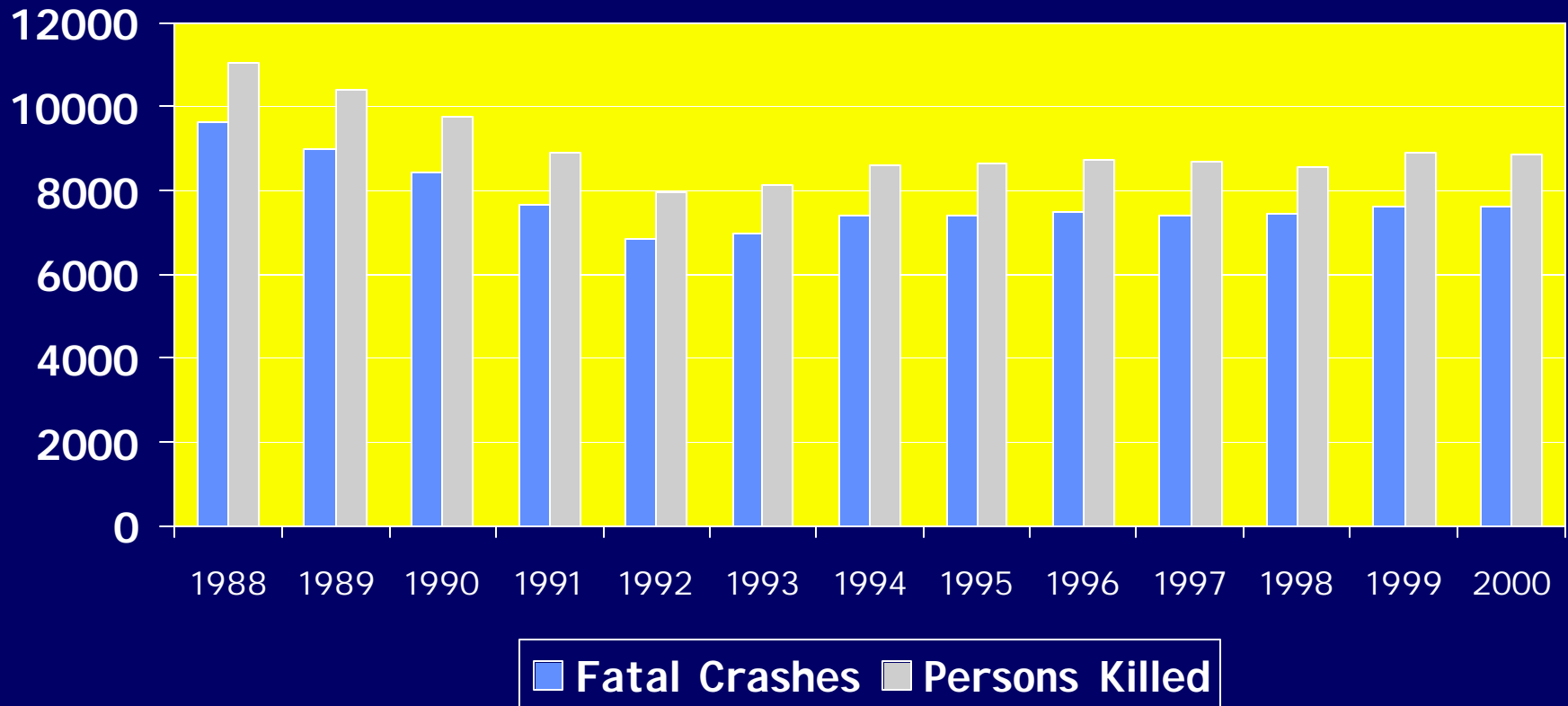


Source: FARS



Number of Crashes and Persons Killed in Fatal Crashes Involving Young Drivers (16-20), by Year

National Center for Statistics & Analysis

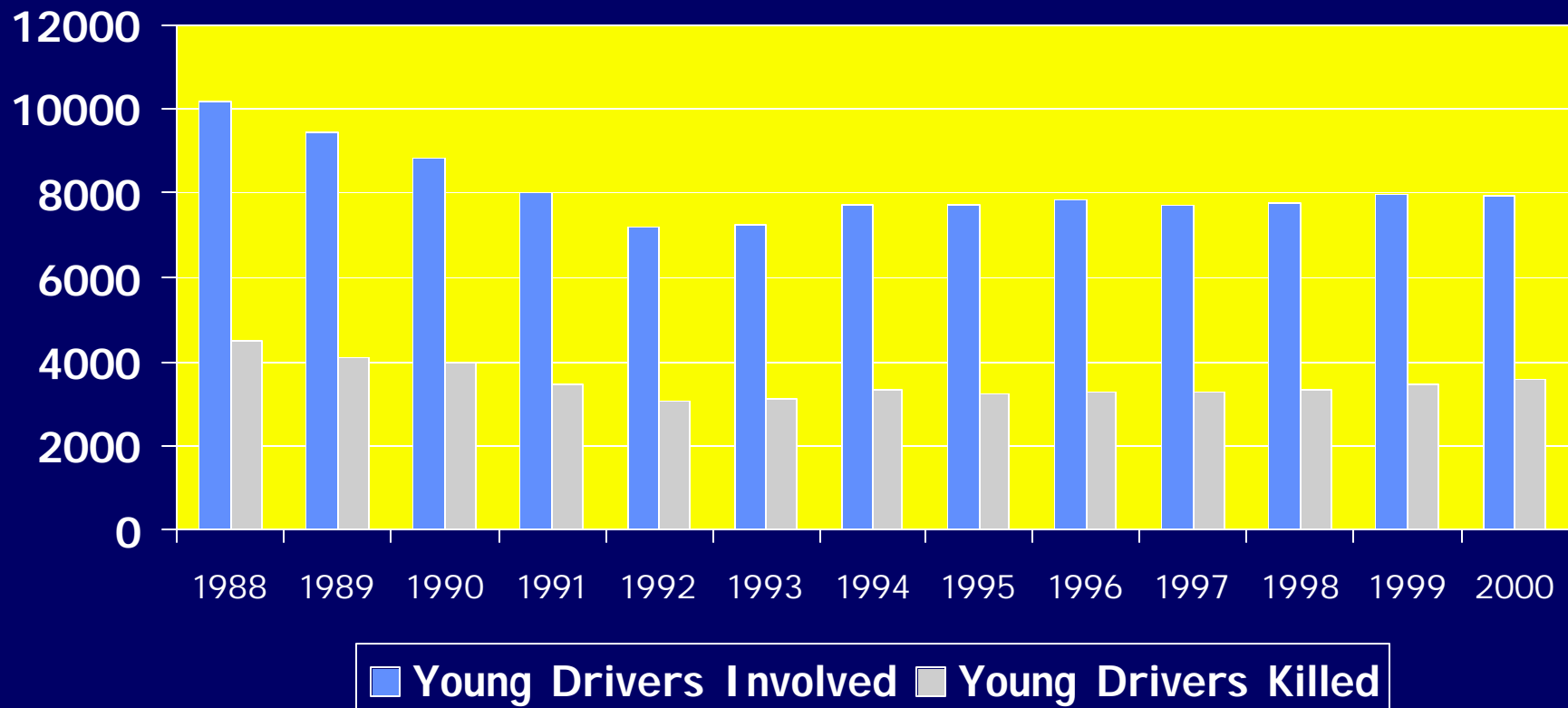


Source: FARS



Young Drivers (16-20) Involved and Killed in Fatal Crashes, by Year

National Center for Statistics & Analysis

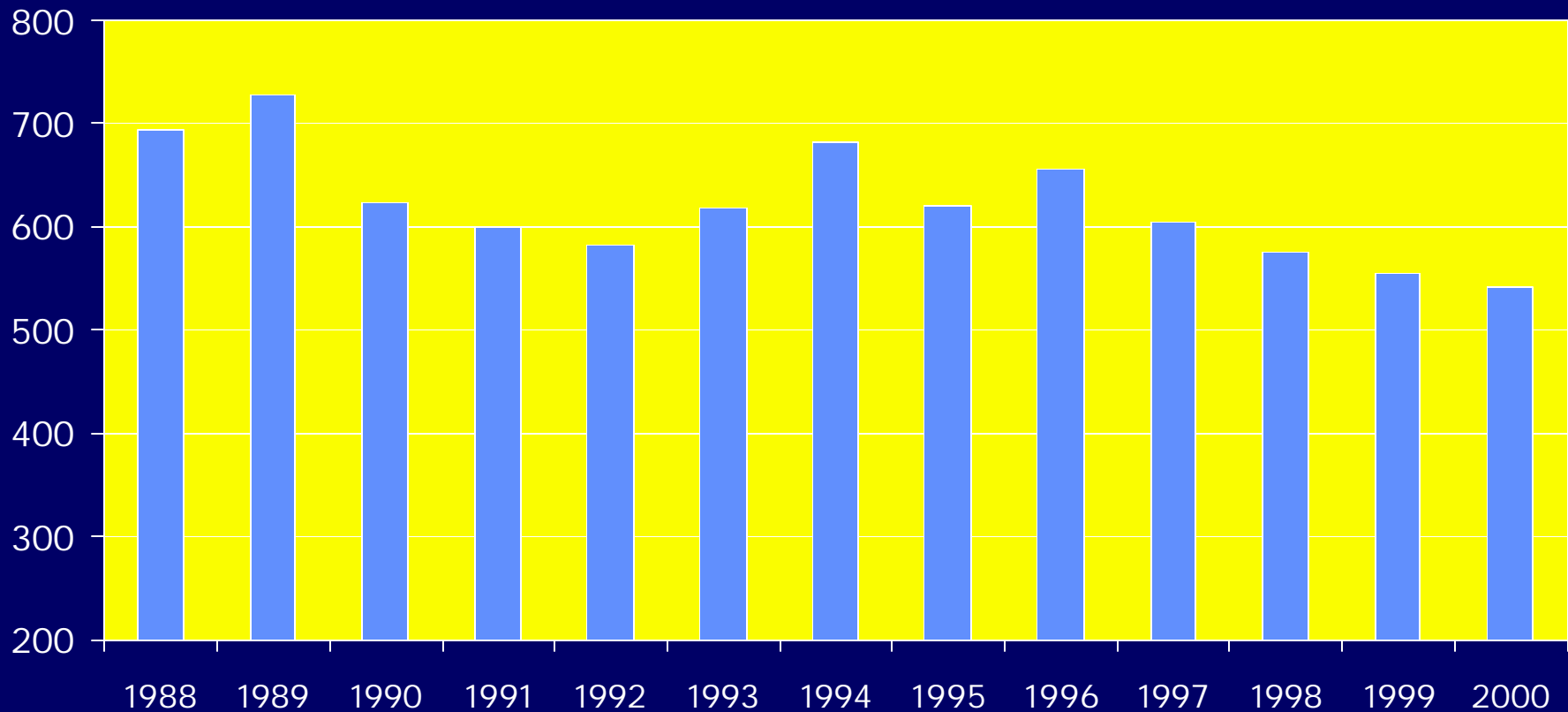


Source: FARS



Child (Under 5) Occupant Fatalities, by Year

National Center for Statistics & Analysis

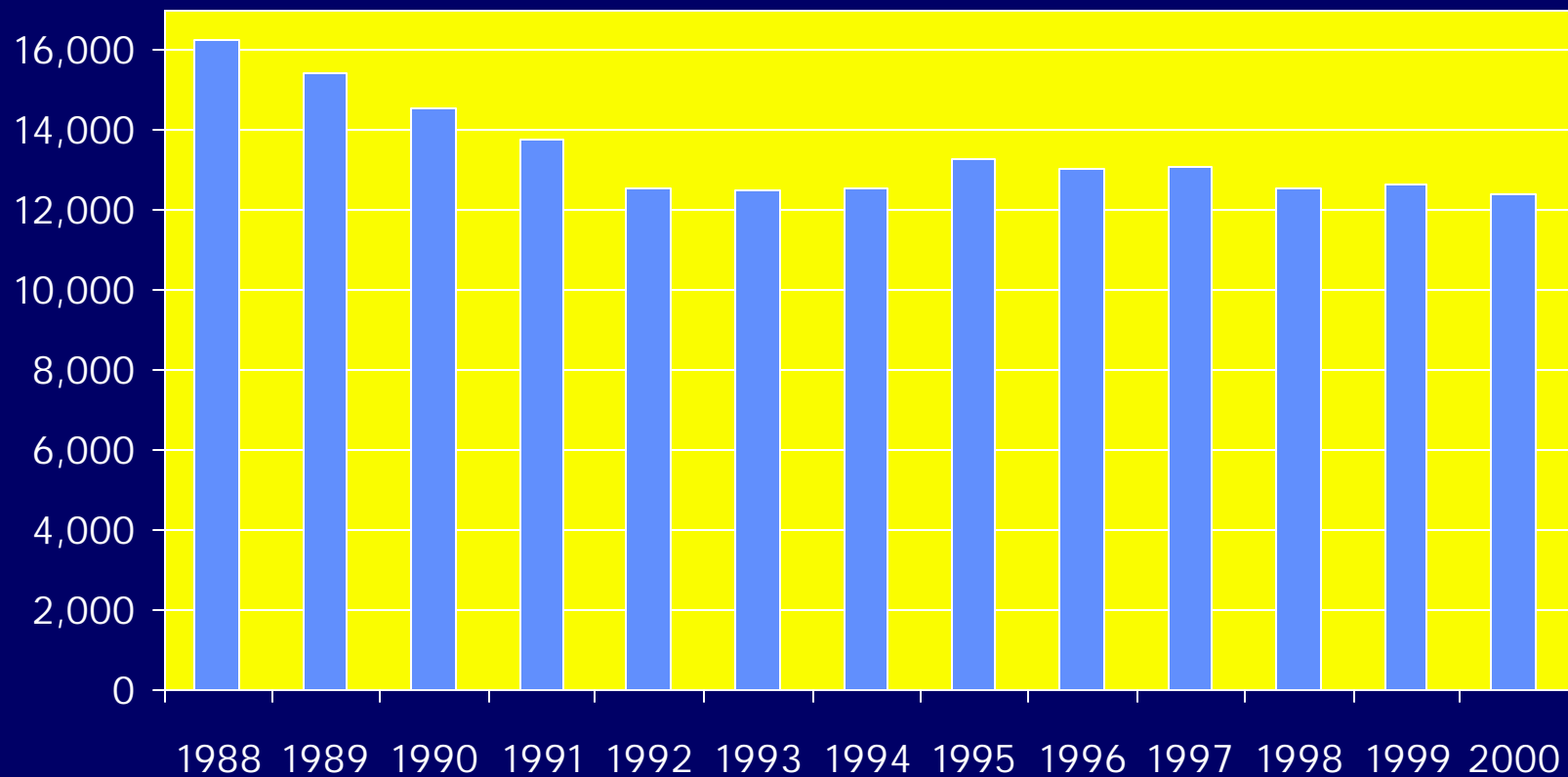


Source: FARS



Persons Killed in Speeding-Related Traffic Crashes

National Center for Statistics & Analysis

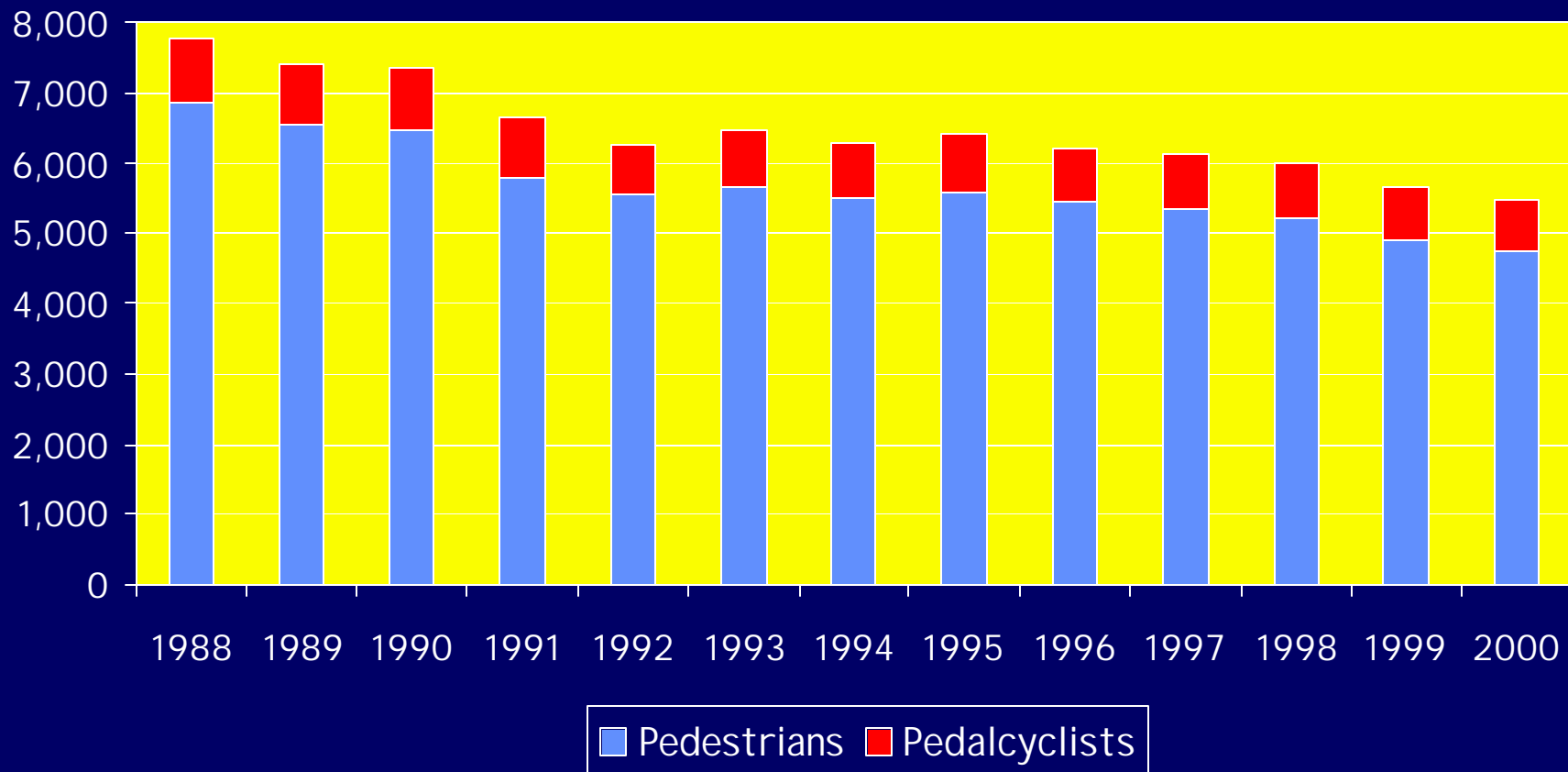


Source: FARS



Pedestrians and Pedalcyclists Killed in Traffic Crashes, by Year

National Center for Statistics & Analysis



Source: FARS



Early Assessment Data Sources

National Center for Statistics & Analysis

- **Fatality Analysis Reporting System**
 - ◆ 1999 Annual Report File
 - ◆ 2000 Early Assessment File (Jul-Dec Imputed)
- **NASS General Estimates System**
 - ◆ 1999 Annual File
 - ◆ 2000 Early Assessment File (Oct-Dec Imputed)
- **FHWA Vehicle Miles Traveled**
 - ◆ December 2000 Traffic Volume Report
- **Census Bureau**
 - ◆ Population Projection (based on 1990 Census)
- **Registered Vehicles**
 - ◆ NHTSA's Projection for 2000