

# 2002 Early Assessment

**National Center for Statistics & Analysis** 



#### Motor Vehicle Traffic Crash Fatality and Injury Estimates for 2002

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



### The 2002 Early Assessment

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This report compares preliminary estimates of fatalities and injuries resulting from motor vehicle traffic crashes occurring in 2002 with estimates from 2001. The 2002 preliminary estimates are based on a statistical procedure which uses partial year Fatality Analysis Reporting System (FARS) and NASS General Estimates System (GES) files, as indicated in the sources listed on page 91. These preliminary estimates will be superceded when Annual Report estimates, based on full year files, are released this summer.



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# Major Findings





- > The Estimated Number of Persons Killed in Motor Vehicle Traffic Crashes Increased to the Highest Level since 1990.
- > Injuries in Motor Vehicle Traffic Crashes Declined.
- > The Fatality Rate (Fatalities per 100 Million VMT) was Unchanged.
- > Injury Rates Declined





- > Occupant Fatalities Accounted for All of the Increase in Total Fatalities.
- > Non-Occupant Fatalities Declined.
- > Most of the Increase in Occupant Fatalities was in Pickup Trucks, SUVs and Vans.
- Most Passenger Vehicle Occupant Fatalities continue to be Unrestrained.





- > Alcohol-Related Fatalities Increased.
- The Increase in Alcohol-Related Fatalities was concentrated in Occupants of Vans and SUVs and Riders of Motorcycles.
- > SUVs, Vans, and Motorcycles had a larger increase in Alcohol-Involved Drivers than other vehicles.





- > Passenger Vehicle Occupant Fatalities in Rollover Crashes Increased.
- > Fatality Increases in SUV and Pickup Rollovers Accounted for:
  - > Nearly half of the Increase in Total Occupant Fatalities
  - > Most of the Increase in Passenger Vehicle Rollover Fatalities.



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- Passenger Car Occupant Fatalities in Two-Vehicle Crashes with a Pickup Truck, Van or SUV Increased.
- > Motorcyclist Fatalities continued to increase.
- Fatalities of Older Motorcyclists increased while Fatalities of Younger Motorcyclists declined.



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- > Fatalities for Children Ages 0 3 and Ages 4 7 Declined.
- > Fatalities for Occupants Ages 8 15 Increased.
- > Fatalities of Young Drivers (Ages 16 20)
  Increased



# Overall Statistics



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The Estimated Number of Persons Killed in Motor Vehicle Traffic Crashes Increased 1.7% ... to the Highest Level since 1990

The Estimated Number of Persons Injured Decreased almost 4%



# Persons Killed and Injured and Number of Crashes

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|                      | Уе        | %<br>Channa |        |
|----------------------|-----------|-------------|--------|
|                      | 2001      | 2002        | Change |
| Persons Killed       | 42,116    | 42,850      | +1.7%  |
| Persons Injured      | 3,033,000 | 2,914,000   | -3.9%  |
|                      |           |             |        |
| Fatal Crashes        | 37,795    | 38,356      | +1.5%  |
| Nonfatal Crashes     | 6,285,000 | 6,241,000   | -0.7%  |
| Injury Crashes       | 2,003,000 | 1,934,000   | -3.4%  |
| Property-Damage-Only | 4,282,000 | 4,307,000   | +0.6%  |

Note: Totals may not add due to rounding. Percentages computed after rounding.

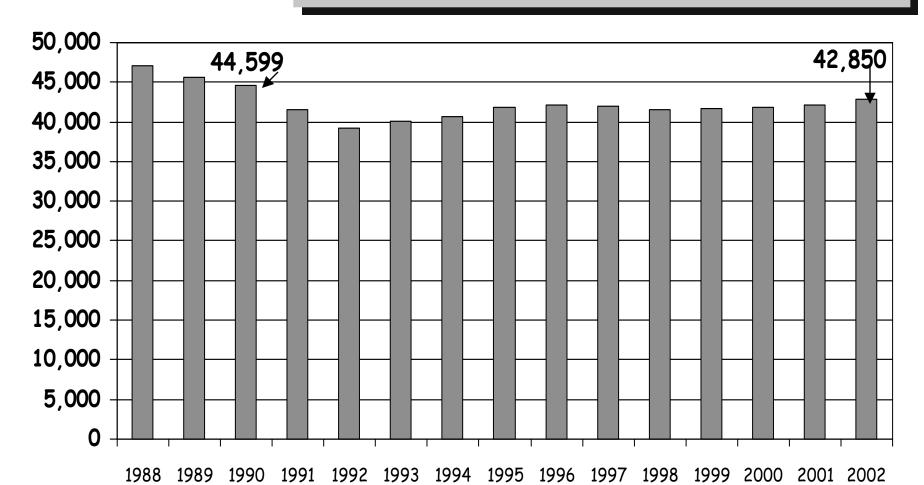
Sources: FARS, NASS GES



## Number of Persons Killed in Motor Vehicle Crashes, by Year

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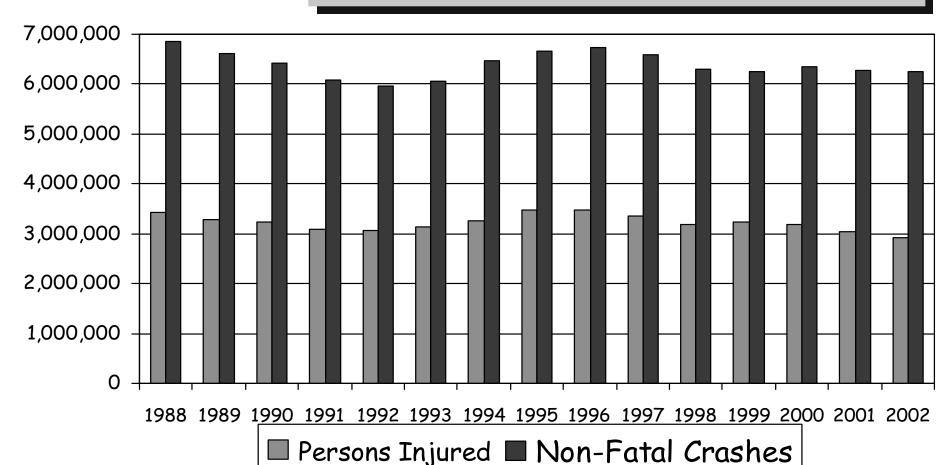
Source: FARS



## Non-Fatal Crashes and Persons Injured, by Year

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Sources: NASS GES



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Motor Vehicle Crash Fatality Rates were Unchanged, but ...

Injury Rates declined slightly



# Motor Vehicle Crash Fatality and Injury Rates

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|                     | Yea   | % Change |       |
|---------------------|-------|----------|-------|
| Rate                | 2001  | 2002     |       |
| Persons Killed      | 1     |          |       |
| /100M VMT           | 1.51  | 1.51     | 0%    |
| /100K Reg. Vehicles | 19.04 | 18.99*   | -0.3% |
| /100K Population    | 14.76 | 14.86    | +0.7% |
| Persons Injured     |       |          |       |
| /100M VMT           | 109   | 103      | -5.5% |
| /100K Reg. Vehicles | 1,371 | 1,292*   | -5.8% |
| /100K Population    | 1,063 | 1,011    | -4.9% |

<sup>\*</sup> Reg. Vehicles Based on NHTSA's Projections

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



### Exposure Data

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| Exposure                  | У           | %<br>Change   |       |
|---------------------------|-------------|---------------|-------|
| Measure                   | 2001 2002   |               |       |
| Vehicle Miles<br>Traveled | 2,781,462M  | 2,829,336M*   | +1.7% |
| Registered<br>Vehicles    | 221,230,000 | 225,655,000** | +2.0% |
| Population                | 285,317,559 | 288,368,698   | +1.1% |

<sup>\*</sup>FHWA's Early VMT Estimate from Dec. 2002 Travel Volume Trends

Sources: R.L. Polk, FHWA, Census Bureau

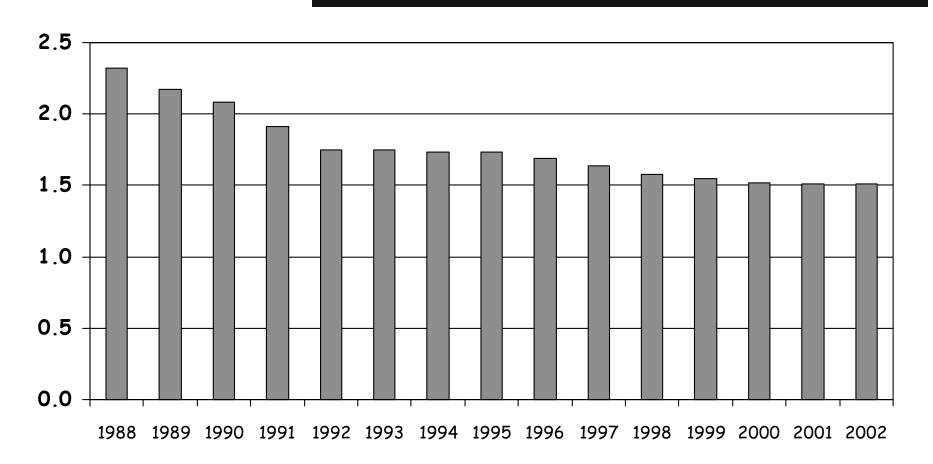
<sup>\*\*</sup>Based on NHTSA's Projections



#### Persons Killed in Motor Vehicle People Saving People Crashes per 100 M VMT, by Year

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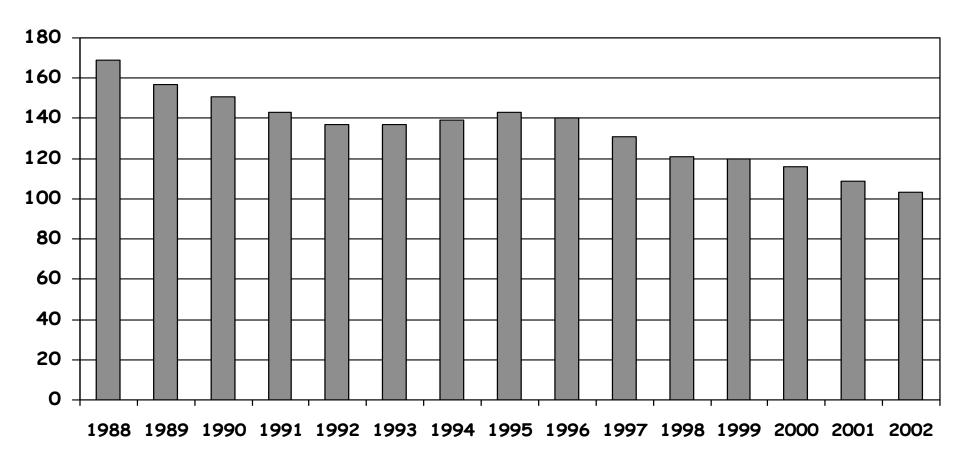
Source: FARS / FHWA VMT



# Person Injured in Motor Vehicle Crashes per 100 M VMT, by Year

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Sources: NASS GES / FHWA VMT



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> The Increase in Total Crash Fatalities was due to ...

Occupant Fatalities Increasing 2.6% and Motorcyclist Fatalities Increasing 3.0%

while ...

Non-Occupant Fatalities Declined 3.7%



## Persons Killed in Motor Vehicle Crashes, by Role

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| Role             | 2001   | 2002   | Change | % Change |
|------------------|--------|--------|--------|----------|
| Occupants        | 33,205 | 34,055 | +850   | +2.6%    |
| Drivers          | 22,898 | 23,671 | +773   | +3.4%    |
| Passengers       | 10,202 | 10,275 | +73    | +0.7%    |
| Unknown Occupant | 105    | 110    | +5     | +4.8%    |
| Motorcyclists    | 3,181  | 3,276  | +95    | +3.0%    |
| Non-Occupants    | 5,730  | 5,519  | -211   | -3.7%    |
| Pedestrians      | 4,882  | 4,776  | -106   | -2.2%    |
| Pedalcyclists    | 728    | 646    | -82    | -11%     |
| Other*           | 120    | 96     | -24    | -20%     |
| TOTAL            | 42,116 | 42,850 | +734   | +1.7%    |

<sup>\*</sup>Includes occupants of motor vehicles not in transport and of non-motor vehicle transport devices.

Source: FARS



# Persons Injured in Motor Vehicle Crashes, by Role

|               | Ye        | Year      |       |  |
|---------------|-----------|-----------|-------|--|
| Role          | 2001      | 2001 2002 |       |  |
| Occupants     | 2,841,000 | 2,723,000 | -4.2% |  |
| Drivers       | 1,934,000 | 1,856,000 | -4.1% |  |
| Passengers    | 907,000   | 867,000   | -4.4% |  |
| Motorcyclists | 60,000    | 65,000    | +8.3% |  |
| Non-Occupants | 131,000   | 127,000   | -3.1% |  |
| Pedestrians   | 78,000    | 72,000    | -7.7% |  |
| Pedalcyclists | 45,000    | 48,000    | +6.7% |  |
| Other*        | 8,000     | 7,000     | -12%  |  |
| TOTAL         | 3,033,000 | 2,914,000 | -3.9% |  |

<sup>\*</sup>Includes occupants of motor vehicles not in transport and of non-motor vehicle transport devices. Note: Totals may not add due to rounding. Percentages computed after rounding. Source: NASS GES



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# Occupants



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Occupant Fatalities in Pickup Trucks, SUVs and Vans accounted for 59% of the Increase in all Motor Vehicle Occupant Fatalities.

but ...

Fatalities in Passenger Cars were essentially Unchanged.



# Occupants Killed in Motor Vehicle Crashes, by Type of Vehicle

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|                      | Year   |        |        | %      |
|----------------------|--------|--------|--------|--------|
| Type of Vehicle      | 2001   | 2002   | Change | Change |
| TOTAL Occupants      | 33,205 | 34,055 | +850   | +2.6%  |
| Passenger Cars       | 20,233 | 20,158 | -75    | -0.4%  |
| LTVs*                | 11,677 | 12,176 | +499   | +4.3%  |
| Large Trucks         | 704    | 712    | +8     | +1.1%  |
| Other Vehicles**     | 430    | 476    | +46    | +11%   |
| Unknown Vehicle Type | 161    | 533    | +372   | n/a    |

<sup>\*</sup>LTV = Pickup Truck, Van, and Sport Utility Vehicle

Source: FARS

<sup>\*\*</sup>Includes vehicle occupant fatalities in buses and other, e.g., farm equipment, construction equipment, etc., vehicle types.



# Occupants Injured in Motor Vehicle Crashes, by Type of Vehicle

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|                  | Ye        |           |             |
|------------------|-----------|-----------|-------------|
| Type of Vehicle  | 2001      | 2002      | %<br>Change |
| TOTAL Occupants  | 2,841,000 | 2,722,000 | -3.9%       |
| Passenger Cars   | 1,927,000 | 1,822,000 | -5.4%       |
| LTVs*            | 861,000   | 848,000   | -1.5%       |
| Large Trucks     | 29,000    | 25,000    | -14%        |
| Other Vehicles** | 25,000    | 27,000    | +8.0%       |

<sup>\*</sup>LTV = Pickup Truck, Van, and Sport Utility Vehicle

Note: Totals may not add due to rounding. Percentages computed after rounding.

Source: NASS GES

<sup>\*\*</sup>Includes vehicle occupants injured in buses and other vehicle types.



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# Most Passenger Vehicle Occupants Killed in Motor Vehicle Crashes Continue to be

Unrestrained



# Passenger Vehicle Occupant Fatalities (All Ages), by Restraint Use\*

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|                    |        | Year |        |      |  |
|--------------------|--------|------|--------|------|--|
| Restraint Use      | 200    | 1    | 200    | 2    |  |
| Persons Killed     | 31,910 | 100% | 32,335 | 100% |  |
| Restraint Used**   | 12,908 | 40%  | 13,232 | 41%  |  |
| Restraint Not Used | 19,002 | 60%  | 19,103 | 59%  |  |

<sup>\*</sup>Occupant Fatalities whose restraint use was unknown were distributed proportionally to the known use categories. In both years restraint use was unknown for 8% of passenger vehicle occupants.

Source: FARS

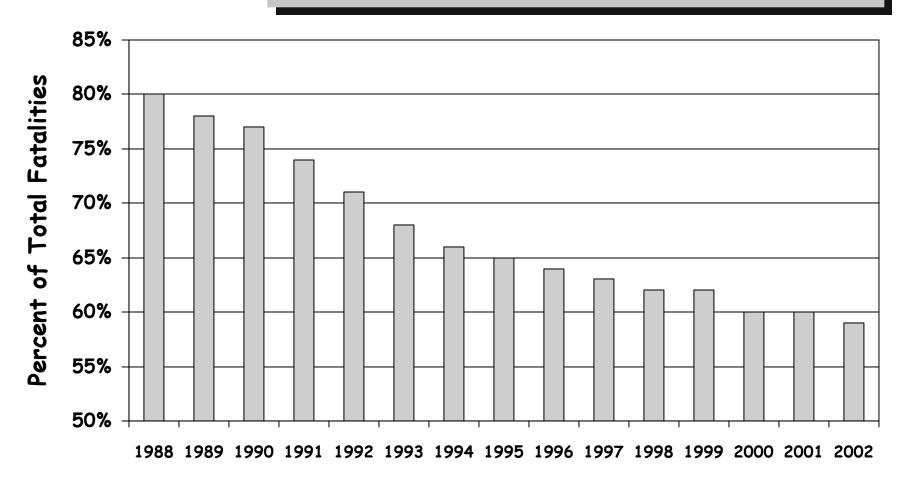
<sup>\*\*</sup> Restraint Used = Use of any type of restraint, e.g., lap belt, lap/shoulder belt, child safety seat, etc.



#### Percent of Total Passenger Vehicle Occupant Fatalities that were Unrestrained, by Year

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Source: FARS



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#### Alcohol-Related Crashes



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# > The Number of People Killed in Alcohol-Related Crashes

Increased



### Persons Killed by Highest BAC in Crash

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| Highest BAC                    | Year   |        | %      |
|--------------------------------|--------|--------|--------|
| in Crash                       | 2001   | 2002   | Change |
| Alcohol-Related Fatalities     | 17,448 | 17,970 | +3.0%  |
| % All Fatalities               | 41%    | 42%    |        |
| Fatality Rate / 100 M VMT      | 0.63   | 0.64   |        |
| Impaired (0.01 <= BAC <= 0.07) | 2,515  | 2,335  | -7.2%  |
| Intoxicated (0.08 <= BAC)      | 14,933 | 15,635 | +4.7%  |

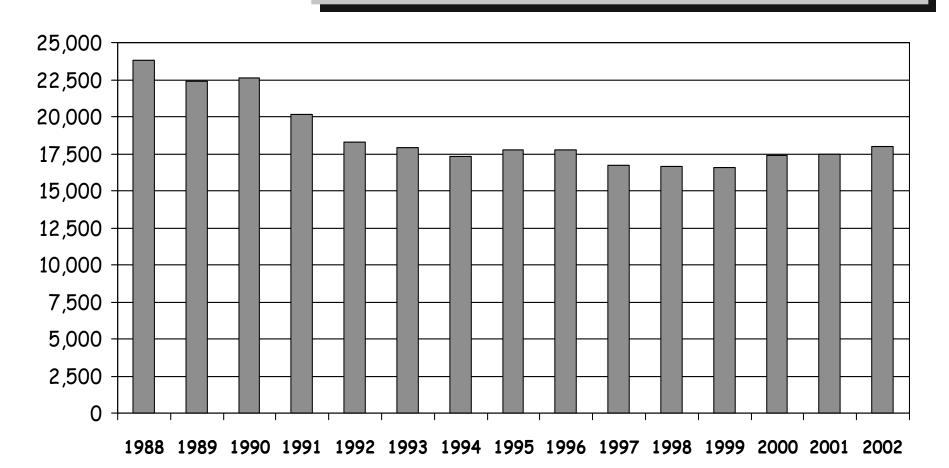
Source: FARS, FHWA



### Persons Killed in Alcohol-Related Traffic Crashes, by Year

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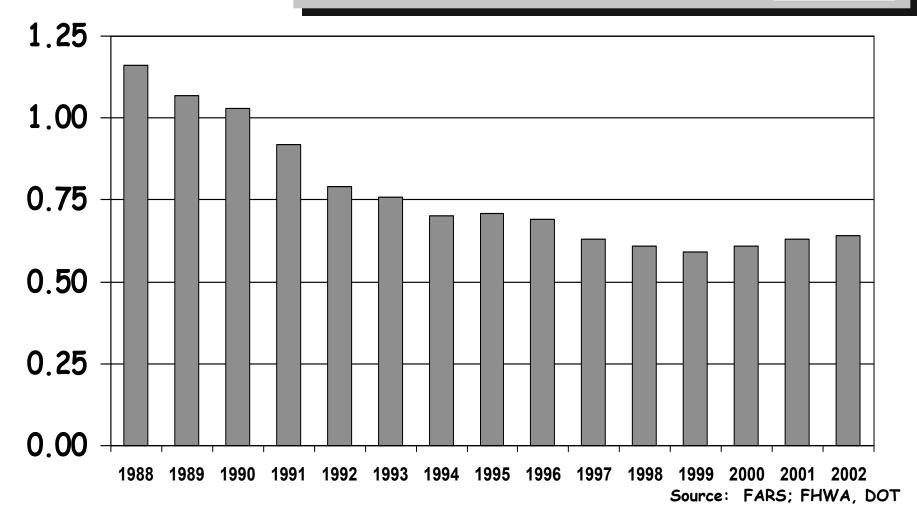
Source: FARS



# Number of Alcohol Related Fatalities per 100 Million VMT, by Year









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The Number of Motor Vehicle Occupants and Motorcyclists Killed in Alcohol-Related Crashes Increased, while the Number of Non-Occupants Killed Declined

Except for Motorcyclists, the Number of Persons Injured in Alcohol-Related
Crashes Declined



#### Persons Killed in Alcohol-Related Crashes, by Role

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| Role             | 2001   | 2002   | Change | % Change |
|------------------|--------|--------|--------|----------|
| Occupants        | 13,429 | 13,914 | +485   | +3.6%    |
| Drivers          | 9,562  | 9,871  | +309   | +3.2%    |
| Passengers       | 3,817  | 3,993  | +176   | +4.6%    |
| Unknown Occupant | 50     | 50     | 0      | -        |
| Motorcyclists    | 1,330  | 1,410  | +80    | +6.0%    |
| Non-Occupants    | 2,689  | 2,646  | -43    | -1.6%    |
| Pedestrians      | 2,369  | 2,362  | -7     | -0.3%    |
| Pedalcyclists    | 281    | 255    | -26    | -9.3%    |
| Other*           | 39     | 29     | -10    | -26%     |
| TOTAL            | 17,448 | 17,970 | +522   | +3.0%    |

<sup>\*</sup>Includes occupants of motor vehicles not in transport and of non-motor vehicle transport devices.



#### Persons Injured in Alcohol-Related Crashes, by Role

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|               | Ye      | Year    |        |  |
|---------------|---------|---------|--------|--|
| Role          | 2001    | 2002    | Change |  |
| Occupants     | 254,000 | 231,000 | -9.1%  |  |
| Drivers       | 173,000 | 157,000 | -9.2%  |  |
| Passengers    | 82,000  | 73,000  | -11%   |  |
| Motorcyclists | 7,000   | 8,000   | +14%   |  |
| Non-Occupants | 14,000  | 13,000  | -7.1%  |  |
| Pedestrians   | 11,000  | 10,000  | -9.1%  |  |
| Pedalcyclists | 2,000   | 2,000   | 0%     |  |
| Other*        | 1,000   | 1,000   | 0%     |  |
| TOTAL         | 275,000 | 252,000 | -8.4%  |  |

<sup>\*</sup>Includes occupants of motor vehicles not in transport and of non-motor vehicle transport devices.

Note: Totals may not add due to rounding. Percentages computed after rounding. Source: NASS GES



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> Alcohol-Related Occupant Fatalities
Increased 37% in Large Trucks,
9% in Vans and 7% in SUVs

Which was More than the 3.6%

Overall Increase in Alcohol
Related Occupant Fatalities



## Occupants Killed in Alcohol-Related Crashes, by Vehicle Type

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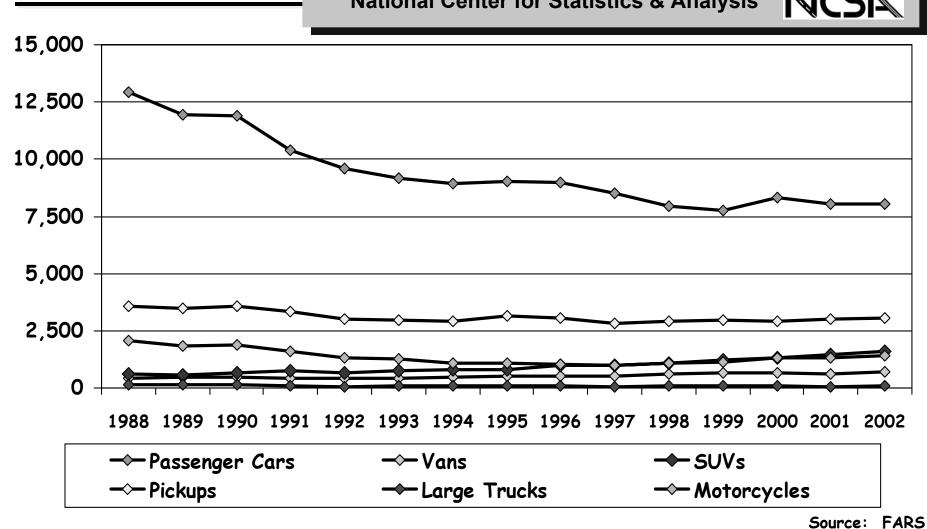
| Type of Vehicle                 | Year   |        | %      |
|---------------------------------|--------|--------|--------|
|                                 | 2001   | 2002   | Change |
| Motor Vehicle Occupants Killed* | 13,429 | 13,914 | +3.6%  |
| Passenger Car                   | 8,034  | 8,059  | +0.3%  |
| Vans                            | 631    | 690    | +9.4%  |
| SUVs                            | 1,472  | 1,577  | +7.1%  |
| Pickup Truck                    | 2,988  | 3,058  | +2.3%  |
| Large Trucks                    | 63     | 86     | +37%   |

<sup>\*</sup>Includes Buses, Other Vehicles and Vehicles with Unknown Body Type



## Occupants and Motorcyclists Killed in Alcohol-Related Crashes,

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> In Fatal Crashes, the Increase in the Number of Alcohol-Involved Drivers of SUVs (11%), Motorcycles (7%) and Vans (6%) was More than the Overall Increase (4.2%)



#### Alcohol-Involved Drivers in Fatal Crashes by Vehicle Type

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| Type of Vehicle | Ye     | % Change |       |
|-----------------|--------|----------|-------|
|                 | 2001   | 2002     |       |
| Total*          | 14,706 | 15,327   | +4.2% |
| Passenger Car   | 7,413  | 7,456    | +0.6% |
| Vans            | 605    | 641      | +6.0% |
| SUVs            | 1,562  | 1,733    | +11%  |
| Pickup Truck    | 3,362  | 3,441    | +2.3% |
| Large Trucks    | 117    | 114      | -2.6% |
| Motorcycles     | 1,191  | 1,275    | +7.1% |

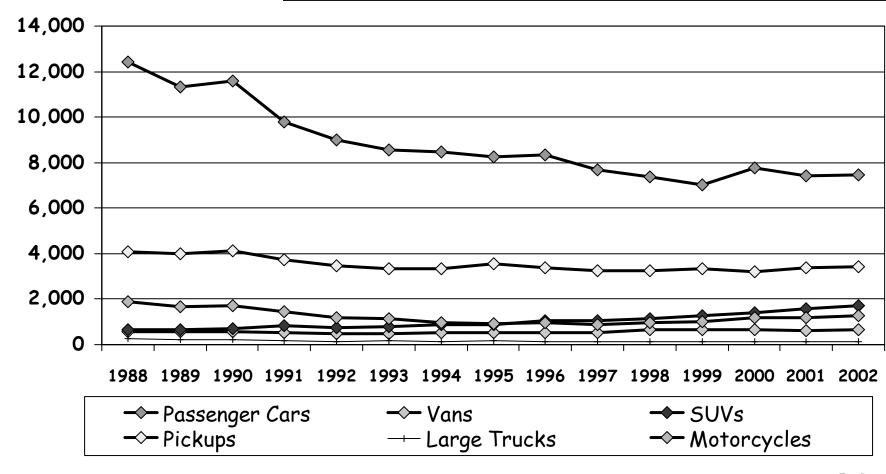
<sup>\*</sup>Includes Buses, Other Vehicles and Vehicles with Unknown Body Type



#### Alcohol-Involved Drivers in Fatal Crashes, by Vehicle Type

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#### Rollover Crashes



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Passenger Vehicle Occupant Fatalities in Rollover Crashes Increased for All Types of Vehicles except Vans

Total Injuries in Rollover Crashes also Increased



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

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| Type of Vehicle | 2001    | 2002    | % Change |
|-----------------|---------|---------|----------|
| Persons Killed* | 10,130  | 10,626  | +4.9%    |
| Passenger Car   | 4,549   | 4,746   | +4.4%    |
| Van             | 784     | 695     | -11%     |
| SUV             | 2,142   | 2,353   | +9.8%    |
| Pickup Truck    | 2,643   | 2,819   | +6.7%    |
| Persons Injured | 155,000 | 170,000 | +9.7%    |
| Passenger Car   | 71,000  | 83,000  | +17%     |
| Van             | 10,000  | 10,000  | 0%       |
| SUV             | 38,000  | 42,000  | +11%     |
| Pickup Truck    | 36,000  | 35,000  | -2.8%    |

<sup>·</sup>Total Killed includes Occupants of Other Light Trucks

·Note: Totals may not add due to rounding. Percentages computed after rounding.

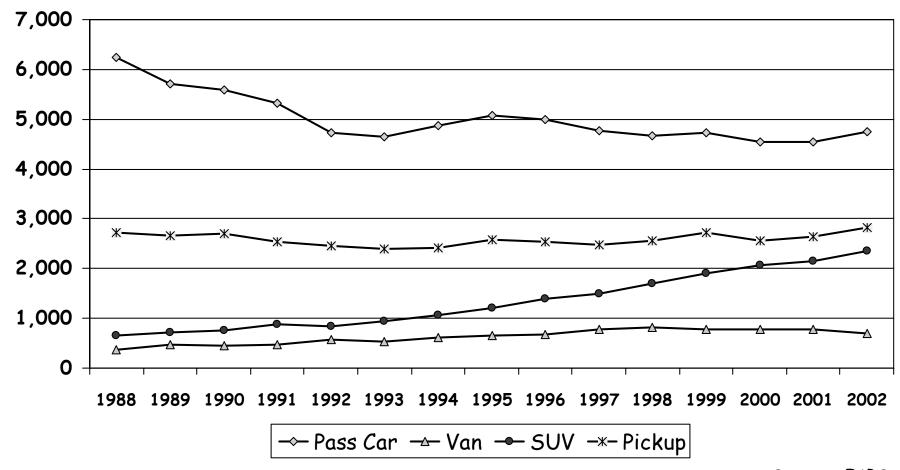
Source: FARS, NASS GES



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

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> 61% of SUV Occupant Fatalities Continued to Occur in Rollover Crashes.

The Next Highest Proportion of Occupant Fatalities in Rollover Crashes was 46% in Pickup Trucks



# Passenger Vehicle Occupants Killed and Injured, by Percent Rollover and Type of Vehicle

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|                 | 2001  |      |           |       | 2002 |           |
|-----------------|-------|------|-----------|-------|------|-----------|
|                 | Rollo | over | Total     | Rollo | ver  | Total     |
| Persons Killed  | Yes   | No   |           | Yes   | No   |           |
| Passenger Car   | 22%   | 78%  | 20,233    | 24%   | 76%  | 20,159    |
| Van             | 39%   | 61%  | 2,011     | 33%   | 67%  | 2,112     |
| SUV             | 61%   | 39%  | 3,515     | 61%   | 39%  | 3,855     |
| Pickup Truck    | 43%   | 57%  | 6,116     | 46%   | 54%  | 6,167     |
| Persons Injured | ·     |      |           |       |      |           |
| Passenger Car   | 4%    | 96%  | 1,922,000 | 5%    | 95%  | 1,819,000 |
| Van             | 5%    | 95%  | 204,000   | 5%    | 95%  | 194,000   |
| SUV             | 13%   | 87%  | 295,000   | 13%   | 87%  | 312,000   |
| Pickup Truck    | 10%   | 90%  | 360,000   | 10%   | 90%  | 336,000   |

Note: Totals may not add due to rounding. Percentages computed after rounding.

Source: FARS, NASS GES

April 2003



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## > The Increase in SUV and Pickup Truck Rollover Crash Fatalities

Accounted for 46% of the Increase in All Occupant Fatalities and 78% of the Increase in Passenger Vehicle Rollover Fatalities.



#### Number of Persons Killed in Motor Vehicle Crashes, by Type

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|                     |        |        |        | %      | % Tot    | % Occ    | % Roll   |
|---------------------|--------|--------|--------|--------|----------|----------|----------|
|                     | 2001   | 2002   | Change | Change | Increase | Increase | Increase |
| Fatalities          | 42,116 | 42,850 | 734    | +1.7%  | 100%     |          |          |
| Non-Occupants       | 5,730  | 5,519  | -211   | -3.7%  | -29%     |          |          |
| Motorcyclists       | 3,181  | 3,276  | 95     | +3.0%  | 13%      |          |          |
| Occupants           | 33,205 | 34,055 | 850    | +2.6%  | 116%     | 100%     |          |
| PV Occ Non-rollover | 21,781 | 21,708 | -73    | -0.3%  |          |          |          |
| PV Occ Rollover     | 10,129 | 10,626 | 497    | +4.9%  | 68%      | 58%      | 100%     |
| PCar Occ Roll       | 4,549  | 4,747  | 198    | +4.3%  | 27%      | 23%      | 40%      |
| SUV Occ Roll        | 2,142  | 2,353  | 211    | +9.8%  | 29%      | 25%      | 42%      |
| PU Occ Roll         | 2,643  | 2,819  | 176    | +6.6%  | 24%      | 21%      | 35%      |
| Van Occ Roll        | 784    | 695    | -89    |        |          |          |          |

# Two-Vehicle Crashes between Passenger Cars and LTVs

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The Number of Passenger Car Occupant Fatalities in Two-Vehicle Crashes with a Pickup Truck, Van or SUV (LTV) Increased

while the Number of Fatalities in the LTV in these crashes Declined.

## Persons Killed and Injured in Two Vehicle People Saving People Crashes Involving a Passenger Car and a LTV\*

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|                 | Yeo     | %       |        |
|-----------------|---------|---------|--------|
|                 | 2001    | 2002    | Change |
| Fatal Crashes   |         |         |        |
| Killed in PC    | 4,375   | 4,446   | +1.6%  |
| Killed in LTV*  | 1,150   | 1,122   | -2.4%  |
| Injury Crashes  |         |         |        |
| Injured in PC   | 471,000 | 450,000 | -4.5%  |
| Injured in LTV* | 307,000 | 291,000 | -5.2%  |

\*LTV = Pickup Truck, Van, and Sport Utility Vehicle

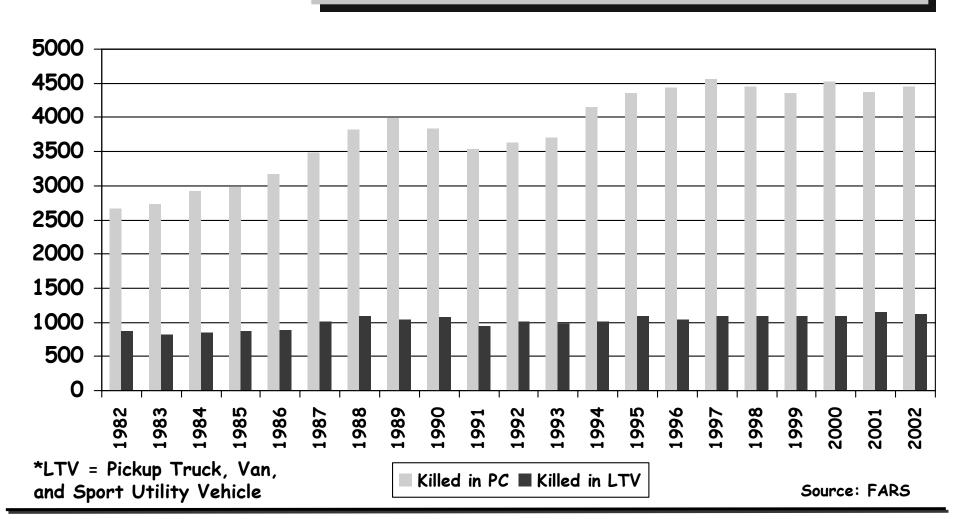
Sources: FARS, NASS GES



#### Persons Killed in Two Vehicle Crashes Involving a Passenger Car and a LTV\*, by Year

**National Center for Statistics & Analysis** 







## Motorcycles



#### 2002 Early Assessment Shows

**National Center for Statistics & Analysis** 



The Increase in Motorcyclists
Killed continued,
but at a slower rate.

The Number of Motorcyclists Injured also Increased



#### Motorcyclists Killed and Injured, by Year, 1997-2002

**National Center for Statistics & Analysis** 

**NCS**A

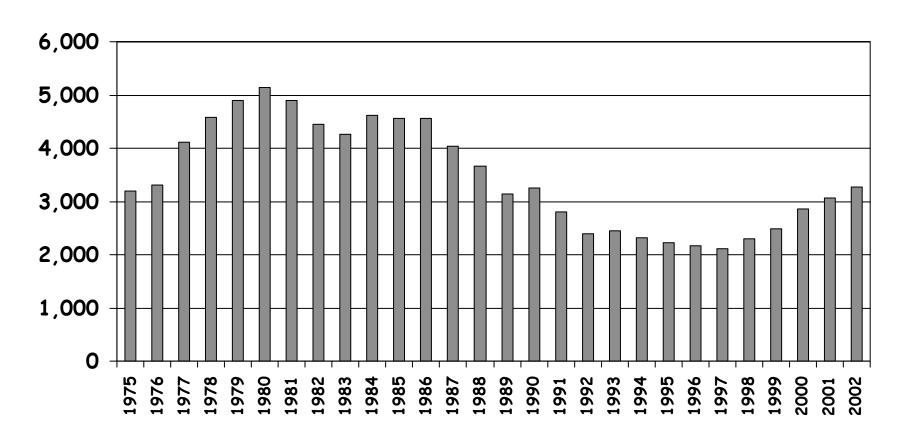
| <b>F</b>                  | Year   |        |        |        |        |        |
|---------------------------|--------|--------|--------|--------|--------|--------|
| Fatalities                | 1997   | 1998   | 1999   | 2000   | 2001   | 2002   |
| Total Killed              | 42,013 | 41,501 | 41,717 | 41,945 | 42,116 | 42,850 |
| Change                    |        | -512   | +216   | +228   | +171   | +734   |
| Motorcyclists<br>Killed   | 2,116  | 2,294  | 2,483  | 2,897  | 3,181  | 3,276  |
| Change                    |        | +178   | +189   | +414   | +284   | +95    |
| %Change                   |        | 8.4%   | 8.2%   | 16%    | 9.8%   | 3.0%   |
| Percent of all Fatalities | 5.0%   | 5.5%   | 6.0%   | 6.9%   | 7.6%   | 7.6%   |
| Motorcylists<br>Injured   | 53,000 | 49,000 | 50,000 | 58,000 | 60,000 | 65,000 |



## Motorcyclists Killed by Year

**National Center for Statistics & Analysis** 







#### 2002 Early Assessment Shows

**National Center for Statistics & Analysis** 



> Fatalities of Older Motorcycle Riders (Ages 40 +) Increased,

while Younger Rider Fatalities
Declined



#### Number of Motorcyclists Killed, by Age Group

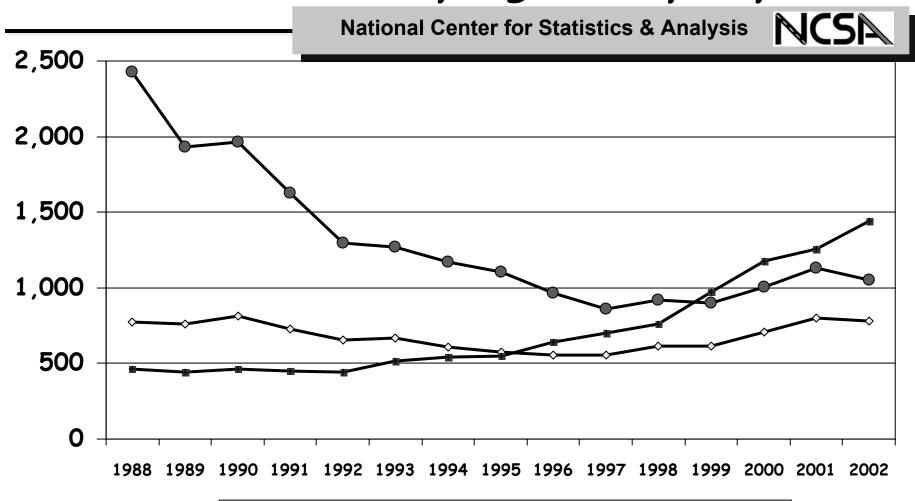
**National Center for Statistics & Analysis** 

**NCS** 

| Age Group   | Ye    | Change |       |
|-------------|-------|--------|-------|
|             | 2001  | 2002   |       |
| Under 20    | 209   | 190    | -9.2% |
| 20 - 29     | 919   | 863    | -6.1% |
| 30 - 39     | 797   | 779    | -2.2% |
| 40 - 49     | 722   | 781    | +8.2% |
| 50 and Over | 532   | 659    | +24%  |
| Unknown     | 2     | 4      | n/a   |
| Total       | 3,181 | 3,276  | +3.0% |



#### Number of Motorcyclists Killed, by Age Group, by Year



 $\longrightarrow$  Ages < 30  $\longrightarrow$  Ages 30 - 39  $\longrightarrow$  Ages 40 and over



### Large Trucks



#### 2002 Early Assessment Shows

**National Center for Statistics & Analysis** 



The Number of Persons Killed and Injured in Crashes involving Large Trucks Continued it's recent decline.



#### Persons Killed in Large Truck Crashes, by Type

**National Center for Statistics & Analysis** 

**NCSI** 

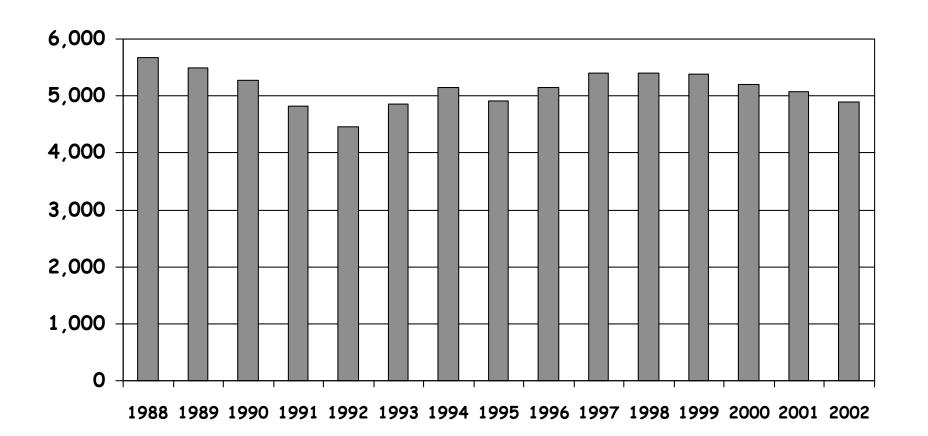
|                         | Yea   |       |          |
|-------------------------|-------|-------|----------|
| Type                    | 2001  | 2002  | % Change |
| Truck Occupants         | 704   | 712   | +1.2%    |
| Single Vehicle          | 471   | 458   | -2.7%    |
| Multiple Vehicle        | 233   | 254   | +9.2%    |
| Other Vehicle Occupants | 3,940 | 3,816 | -3.2%    |
| Non-Occupants           | 438   | 374   | -15%     |
| Total                   | 5,082 | 4,902 | -3.5%    |



#### Persons Killed in Large Truck Crashes, by Year

**National Center for Statistics & Analysis** 







#### Persons Injured in Large Truck Crashes, by Type

**National Center for Statistics & Analysis** 

**NCS**A

|                         | Ye      |         |             |
|-------------------------|---------|---------|-------------|
| Type                    | 2001    | 2002    | %<br>Change |
| Truck Occupants         | 29,000  | 25,000  | -14%        |
| Single Vehicle          | 13,000  | 12,000  | -7.7%       |
| Multiple Vehicle        | 16,000  | 13,000  | -19%        |
| Other Vehicle Occupants | 99,000  | 99,000  | +0%         |
| Non-Occupants           | 3,000   | 3,000   | +0%         |
| Total                   | 131,000 | 127,000 | -3.1%       |

Note: Totals may not add due to rounding. Percentages computed after rounding.

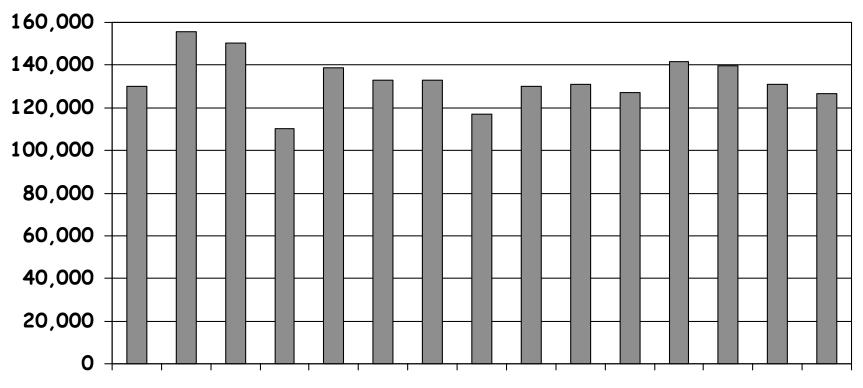
Source: NASS GES



#### Persons Injured in Large Truck Crashes, by Year

**National Center for Statistics & Analysis** 





1988 1989 1990 1991 1992 1993 1994 1995 1996 1997 1998 1999 2000 2001 2002

Source: NASS GES



## Non-Occupants



#### 2002 Early Assessment Shows

**National Center for Statistics & Analysis** 



# The Number of Non-Occupants of All Types Killed Declined

The Total Number of Non-Occupants Injured Declined



#### Non-Occupants Killed or Injured, by Type

**National Center for Statistics & Analysis** 

**NCS** 

|                 | Year    |         | %      |
|-----------------|---------|---------|--------|
| Туре            | 2001    | 2002    | Change |
| Persons Killed  | 5,730   | 5,519   | -3.7%  |
| Pedestrians     | 4,882   | 4,776   | -2.2%  |
| Pedalcyclists   | 728     | 646     | -11%   |
| Others *        | 120     | 96      | -20%   |
| Persons Injured | 131,000 | 127,000 | -3.1%  |
| Pedestrians     | 78,000  | 72,000  | -7.7%  |
| Pedalcyclists   | 45,000  | 48,000  | +6.7%  |
| Others *        | 8,000   | 7,000   | -13%   |

Note: Totals may not add due to rounding. Percentages computed after rounding.

Source: FARS, NASS GES

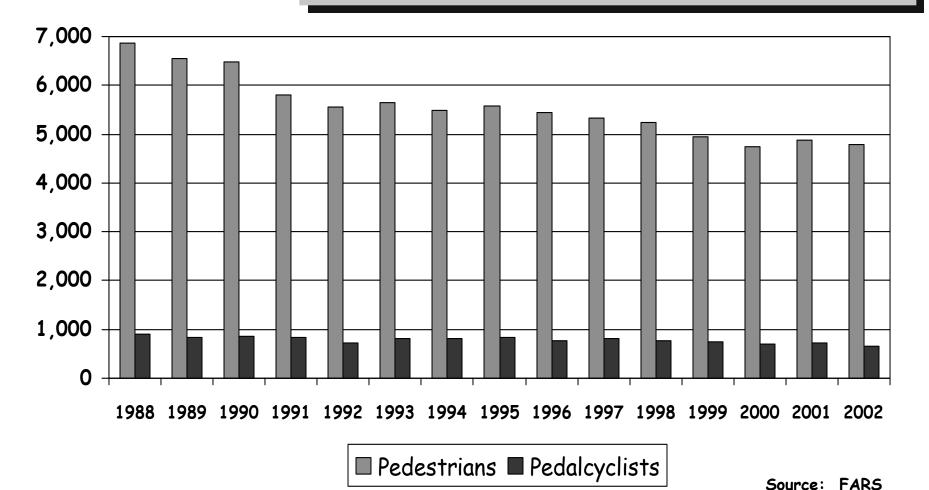
<sup>\*</sup>Includes occupants of motor vehicles not in transport and of non-motor vehicle transport devices.



#### Pedestrians and Pedalcyclists Killed, by Year

**National Center for Statistics & Analysis** 





April 2003



### Intersection Crashes



**National Center for Statistics & Analysis** 



The Number of Intersection and Intersection-Related Fatalities Increased Slightly

While Injuries Declined.



# Persons Killed, by Relation to a Roadway Junction

**National Center for Statistics & Analysis** 

NCSA

| Relation to Junction    | 2001   | 2002   | Change | % Change |
|-------------------------|--------|--------|--------|----------|
| At Junction             | 9,316  | 9,410  | +94    | +1.5%    |
| Intersection            | 7,717  | 7,750  | +33    | +0.4%    |
| Intersection<br>Related | 1,599  | 1,660  | +61    | +3.8%    |
| Non-junction            | 30,602 | 30,837 | +235   | +0.8%    |
| Other/Unknown           | 2,198  | 2,603  | +405   | n/a      |
| Total                   | 42,116 | 42,850 | +734   | +1.7%    |



# Persons Injured, by Relation to a Roadway Junction

**National Center for Statistics & Analysis** 

NCSA

| Relation to Junction    | 2001      | 2002      | % Change |
|-------------------------|-----------|-----------|----------|
| Junction                | 1,537,000 | 1,493,000 | -2.7%    |
| Intersection            | 986,000   | 961,000   | -2.5%    |
| Intersection<br>Related | 551,000   | 532,000   | -3.4%    |
| Non-junction            | 1,118,000 | 1,083,000 | -3.2%    |
| Other                   | 378,000   | 338,000   | -10%     |
| Total                   | 3,033,000 | 2,914,000 | -3.9%    |

Note: Totals may not add due to rounding. Percentages computed after rounding.

Source: NASS GES



### Children and Youth



**National Center for Statistics & Analysis** 

**NCSI** 

Fatalities for Children Ages 0 - 3 Continued Their Recent Decline to Below 500 for the First Time

Although Injuries were virtually Unchanged



### Children, Under Age 4, Killed or Injured, by Role

**National Center for Statistics & Analysis** 

**NCSI** 

|               | Year   |        | %<br>Class as a |
|---------------|--------|--------|-----------------|
| Role          | 2001   | 2002   | Change          |
| Killed        | 513    | 484    | -5.7%           |
| Occupants     | 409    | 380    | -7.1%           |
| Non Occupants | 104    | 104    | 0.0%            |
| Injured       | 47,000 | 48,000 | +2.1%           |
| Occupants     | 45,000 | 47,000 | +4.4%           |
| Non Occupants | 2,000  | 2,000  | 0.0%            |

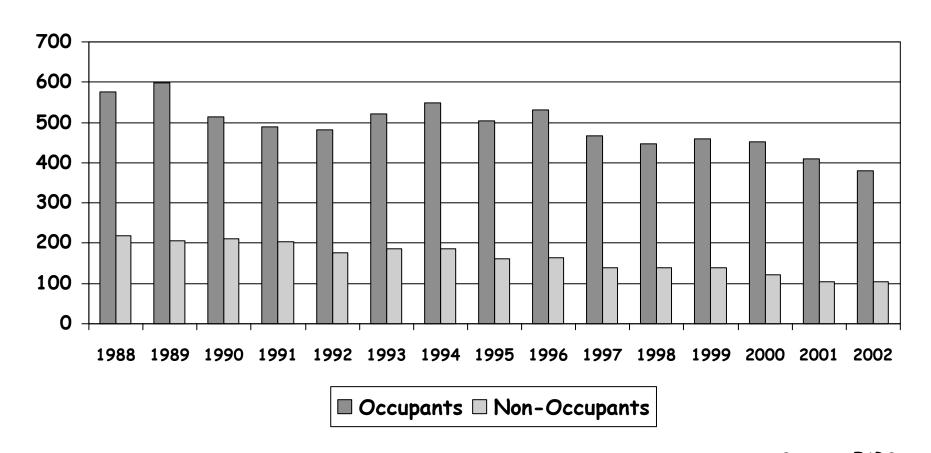
Note: Totals may not add due to rounding. Percentages computed after rounding.



## Children Under Age 4, Killed, by Year and Role

**National Center for Statistics & Analysis** 







**National Center for Statistics & Analysis** 

NCSA

➤ Fatalities for Children Ages 4 - 7 also Declined (by 8%) to Below 500 for the First Time

Injuries to Children of These Ages also Declined



### Children, Ages 4 thru 7 Killed or Injured, by Role

National Center for Statistics & Analysis

NCSA

|               | Year   |        | %<br>Chanas |
|---------------|--------|--------|-------------|
| Role          | 2001   | 2002   | Change      |
| Killed        | 540    | 496    | -8.1%       |
| Occupants     | 385    | 354    | -8.1%       |
| Non Occupants | 155    | 142    | -8.4%       |
| Injured       | 66,000 | 62,000 | -6.1%       |
| Occupants     | 58,000 | 54,000 | -6.9%       |
| Non Occupants | 8,000  | 8,000  | 0.0%        |

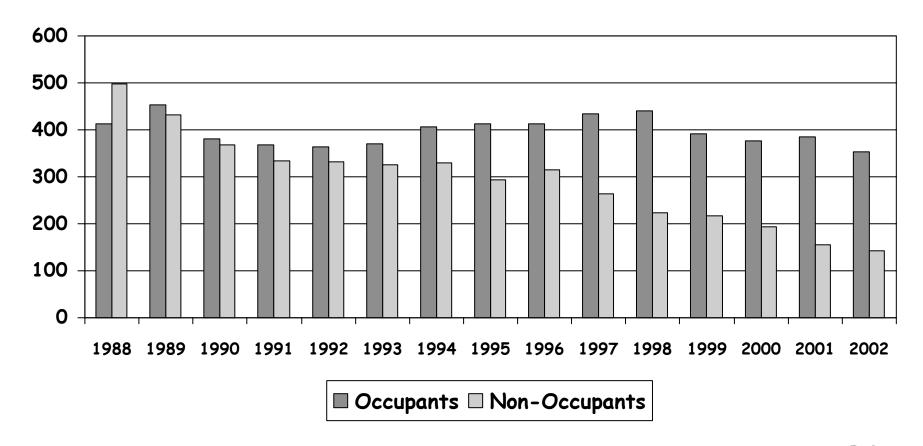
Note: Totals may not add due to rounding. Percentages computed after rounding.



#### Children Ages 4-7, Killed, by Year and Role

**National Center for Statistics & Analysis** 







**National Center for Statistics & Analysis** 



Fatalities for Children and Youth
Ages 8 - 15 who were
Motor Vehicle Occupants
Increased by almost 9%

But Injuries Declined



#### Children and Youth, Ages 8-15, Killed or Injured, by Role

**National Center for Statistics & Analysis** 

NCSA

|               | Year    |         | %      |
|---------------|---------|---------|--------|
| Role          | 2001    | 2002    | Change |
| Killed        | 1,535   | 1,604   | +4.5%  |
| Occupants     | 1,116   | 1,215   | +8.9%  |
| Non Occupants | 419     | 389     | -7.2%  |
| Injured       | 191,000 | 184,000 | -3.7%  |
| Occupants     | 159,000 | 156,000 | -1.9%  |
| Non Occupants | 32,000  | 29,000  | -9.4%  |

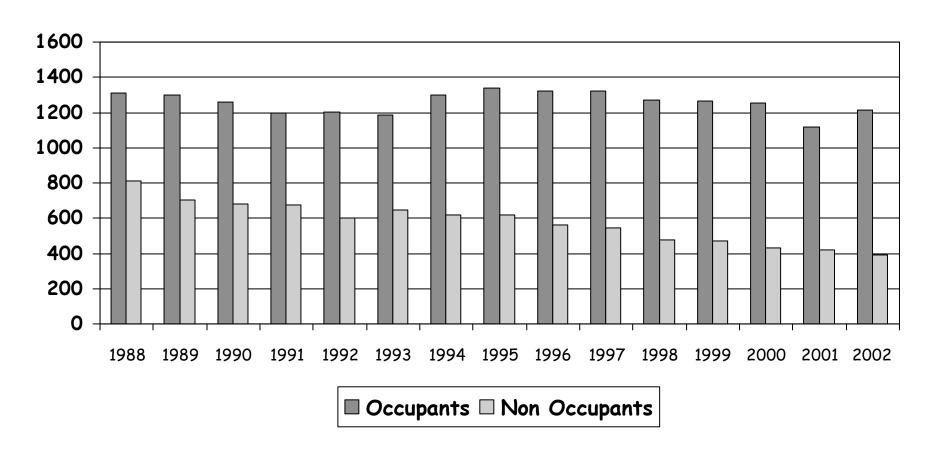
Note: Totals may not add due to rounding. Percentages computed after rounding.



## Children and Youth (Ages 8-15) Fatalities, by Year and Role

**National Center for Statistics & Analysis** 







## People Saving People 2002 Early Assessment Shows

**National Center for Statistics & Analysis** 



> The Number of Young Drivers (Ages 16 - 20) Killed Increased by more than 200

But Total Crash Involvements of Young Drivers Declined



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

**National Center for Statistics & Analysis** 

NCSA

| Crashes or     | Year      |           |          |
|----------------|-----------|-----------|----------|
| Persons Killed | 2001      | 2002      | % Change |
| Crashes        | 1,666,000 | 1,624,000 | -2.5%    |
| Fatal          | 7,598     | 7,722     | +1.6%    |
| Injury         | 564,000   | 544,000   | -3.5%    |
| PDO            | 1,094,000 | 1,072,000 | -2.0%    |
| Persons Killed | 8,839     | 8,996     | +1.8%    |
| Young Drivers  | 3,529     | 3,738     | +5.9%    |
| Passengers*    | 2,441     | 2,461     | +0.8%    |
| Others         | 2,869     | 2,798     | -2.5%    |

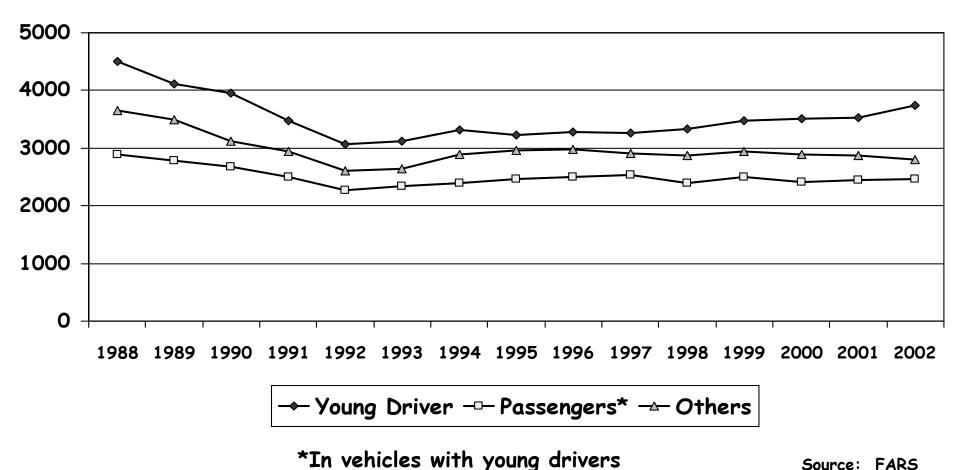
<sup>\*</sup>In vehicles with young drivers



#### Persons Killed in Crashes Involving Young Drivers (Ages 16-20), by Year and Role

**National Center for Statistics & Analysis** 





April 2003



#### Data Sources

#### **National Center for Statistics & Analysis**



- Crash Data
  - ◆ Fatality Analysis Reporting System (FARS)
    - 2001 Annual File (Final File in prior years)
    - 2002 Early Assessment File
  - NASS General Estimates System (GES )
    - $^\circ$  2001 (and prior years) Annual File
    - 2002 Three Quarter Year File
- Exposure Data
  - ♦ Vehicle Miles of Travel (VMT)
    - Federal Highway Administration (FHWA)
    - December 2002 Traffic Volume Trends Report
  - → Population Projection (based on 2000 Census)
    - ° Census Bureau
  - ◆ Registered Vehicles
    - NHTSA's Projection for 2002
    - Based on FHWA Registered Vehicles



## Questions about the data in this report may be sent by E-Mail to: ncsaweb@nhtsa.dot.gov made by phone to: 1.800.934.8517