

2006 Projections

Estimates of Motor Vehicle Traffic Crash Fatalities and People Injured

Based on

The Fatality Analysis Reporting System (FARS) and

The National Automotive Sampling System (NASS)
General Estimates System (GES)

DOT HS 810 755

May 25, 2007



The 2006 Projections

The numbers from these 2006 projections are subject to change when the data from the full Year 2006 Annual Assessment is released this summer.

2006 projections are compared to fatality counts and people injured from the 2005 Annual Report. Sources of the data are indicated in the listing on slide 27.



The 2006 Projections

The 2006 "PROJECTIONS" contained in this report are based on statistical procedures which use "PARTIAL" year FARS and NASS GES files.



Overall Statistics

- The number of people killed in motor vehicle traffic crashes is projected to decline slightly.
- The estimate of people injured in motor vehicle traffic crashes is projected to decline by 6 percent.
- ➤ The estimated number of nonfatal crashes are projected below 6 million for the first time (if these projected numbers are to hold when full year data are available later)



Overall Statistics

	Y	% Change		
	2005	2006 Projected	70 Onange	
People Killed	43,443	43,300	-0.3%	
People Injured	2,699,000	2,536,000	-6.0%	
Fatal Crashes	39,189	39,182	-0.0%	
Nonfatal Crashes	6,120,000	5,891,000	-3.7%	
Injury Crashes	1,816,000	1,710,000	-5.8%	
Property-Damage-Only	4,304,000	4,181,000	-2.9%	

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

Sources: FARS, NASS GES



2006 Projections Show

- ➤ The fatality rate per 100 million vehicle miles traveled (VMT) is projected to remain almost the same.
 - Based on FHWA's current estimate of VMT (increase of just 0.3% from 2005)
- ➤ The injury rate per 100 million VMT is projected to decline.



Motor Vehicle Crash Fatality and Injury Rates

Rate	Year		0/ Channa	
Rale	2005	2006 Projected	% Change	
People Killed				
/100M VMT	1.45	1.44*	-0.7%	
/100K Reg. Vehicles	17.69	17.20**	-2.8%	
/100K Population***	14.65	14.46	-1.3%	
People Injured				
/100M VMT	90	85*	-5.6%	
/100K Reg. Vehicles	1,099	1,007**	-8.4%	
/100K Population***	910	847	-6.9%	

*Based on January 2007 FHWA Traffic Volume Trends
***July, 1 estimates – Dec 22, 2006 release

**Based on NHTSA projection for registered vehicles Sources: FARS, NASS GES, FHWA, and Census Bureau



Exposure Data

Exposuro Moosuro	Y	% Change	
Exposure Measure	2005	2006	% Change
Vehicle Miles Traveled	2,989,807 M	2,997,660 M*	+0.3%
Registered Vehicles	245,641,663	251,806,000**	+2.5%
Population***	296,507,061	299,398,484	+1.0%

^{*} FHWA January 2007 Traffic Volume Trends.

M-Millions

^{**} Based on NHTSA projection for registered vehicles.

^{***} July 1 Census Bureau estimates, release date December 22, 2006.



People Killed in Motor Vehicle Crashes, by Role

- Occupant fatalities are projected to decline by about 1 percent
- Motorcycle rider fatalities are projected to increase for the ninth year in a row
 - ➤ More than 125 percent increase since 1997
- Nonoccupant fatalities are projected to decline by about 2 percent



People Killed in Motor Vehicle Crashes, by Role

Role	Y	'ear	Changa	% Change	
Roie	2005	2006 Projected	Change	% Change	
Occupants*	33,041	32,756	-285	-0.9%	
Drivers	23,240	23,277	+37	+0.2%	
Passengers	9,718	9,379	-339	-3.5%	
Motorcycle Riders	4,553	4,798	+245	+5.4%	
Nonoccupants	5,849	5,746	-103	-1.8%	
Pedestrians	4,881	4,768	-113	-2.3%	
Pedalcyclists	784	789	+5	+0.6%	
Other**	184	189	+5	+2.7%	
TOTAL	43,443	43,300	-143	-0.3%	

^{*} Includes unknown occupants

^{**} Includes occupants of motor vehicles not in transport and of non-motor vehicle transport devices. Source: FARS



Estimate of People Injured in Motor Vehicle Crashes, by Role

Changes in People Injured by Role for 2006:

- Decline in occupants injured by about 6 percent
- Motorcyclists injured remained the same
- Decline in nonoccupants injured by about 8 percent



Estimate of People Injured in Motor Vehicle Crashes, by Role

Role	Y	Year		
Role	2005	2006 Projected	% Change	
Occupants	2,494,000	2,339,000	-6.2%	
Drivers	1,743,000	1,626,000	-6.7%	
Passengers	750,000	713,000	-4.9%	
Motorcycle Riders	87,000	87,000	0.0%	
Nonoccupants	118,000	109,000	-7.6%	
Pedestrians	64,000	58,000	-9.4%	
Pedalcyclists	45,000	45,000	0.0%	
Other/Unknown Occupants	8,000	7,000	-13%	
TOTAL*	2,699,000	2,535,000	-6.1%	

^{*}Totals may not add due to rounding. Percentages computed after rounding.

Source: NASS GES



Occupants Killed and Injured in Motor Vehicle Crashes, by Vehicle Type

- Passenger vehicle occupant fatalities are projected to decline
- Passenger vehicle occupants injured are projected to decline



Occupants Killed in Motor Vehicle Crashes, by Vehicle Type

Vahiala Typa	Year		Changa	0/ Change	
Vehicle Type	2005	2006 Projected	Change	% Change	
Total Passenger Vehicles	31,415	30,850	-565	-1.8%	
Passenger Cars	18,440	17,941	-499	-2.7%	
Light Trucks	12,975	12,909	-66	-0.5%	
Large Trucks	803	798	-5	-0.6%	
Other Vehicles*	545	515	-30	-5.5%	
Unknown**	278	593	+315	+113%	
TOTAL	33,041	32,756	-285	-0.9%	

^{*}Includes vehicle occupants killed in buses and other vehicle types.

Source: FARS

^{**}Many of the unknown vehicle types in the 2006 Early Projection file will be resolved in the 2006 Annual Report file.



Occupants Injured in Motor Vehicle Crashes, by Vehicle Type

Vahiala Typa	Y	% Change	
Vehicle Type	2005	2006 Projected	% Change
Total Passenger Vehicles	2,446,000	2,291,000	-6.3%
Passenger Cars	1,573,000	1,457,000	-7.4%
Light Trucks	872,000	834,000	-4.4%
Large Trucks	27,000	27,000	0.0%
Other Vehicles*	21,000	21,000	0.0%
TOTAL**	2,494,000	2,339,000	-6.2%

^{*}Includes vehicle occupants injured in buses and other vehicle types.

Source: NASS GES

^{**}Totals may not add due to rounding. Percentages computed after rounding.



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

Restraint use by fatally injured passenger vehicle occupants is expected to remain the same

Restraint Use	Year		
Restraint Use	2005	2006 Projected	
Restraint Used*	45%	45%	
Restraint Not Used	55%	55%	

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

Source: FARS



People Killed in Large-Truck Crashes

- Fatalities in large-truck crashes are projected to decline by about 4 percent.
- People injured in large-truck crashes are projected to decline.



People Killed in Large-Truck Crashes, by Type

Type	Y	Year		
Type	2005	2006 Projected	% Change	
Truck Occupants	803	798	-0.6%	
Single-vehicle	480	503	+4.8%	
Multivehicle	323	295	-8.7%	
Other Vehicle Occupants	3,944	3,791	-3.9%	
Nonoccupants	465	429	-7.7%	
Total	5,212	5,018	-3.7%	

Source: FARS



People Injured in Large-Truck Crashes, by Type

Typo	Y	Year		
Type	2005	2006 Projected	% Change	
Truck Occupants	27,000	27,000	0.0%	
Single-vehicle	10,000	13,000	+30%	
Multivehicle	17,000	14,000	-18%	
Other Vehicle Occupants	84,000	84,000	0.0%	
Nonoccupants	2,000	2,000	0.0%	
Total*	114,000	113,000	-0.9%	

^{*}Totals may not add due to rounding. Percentages computed after rounding.

Source: NASS GES



People Killed in Alcohol-Related Crashes

- ➤ The estimate of people killed in alcohol-related crashes is projected to increase by about 2 percent
 - Highest level killed since 1992
- ➤ Fatalities in crashes involving at least one driver, pedestrian or pedalcyclist with a BAC of .08+ are projected to increase by about 3 percent.
- The alcohol-related fatality percentage is projected to increase
 - From 40 percent to 41 percent

Note: The number of alcohol-related fatalities for the 2005 Annual Report File (ARF) is being revised due to State-reporting problems in Blood Alcohol Concentration (BAC) values that were discovered in the process of building the final file for 2005.



People Killed, by Highest Estimated BAC in Crash

Highart BAC in Crach	Year		%
Highest BAC in Crash	2005*	2006 Projected	Change
Alcohol-Related Fatalities	17,525	17,941	+2.4%
Fatality Rate / 100 M VMT	0.59	0.60	
% All Fatalities	40%	41%	
.01 = BAC = .07 g/dL	2,428	2,362	-2.7%
BAC = .08 g/dL	15,097	15,579	+3.2%
BAC = .08 Fatalities/100M VMT	0.50	0.52	
$BAC = .08 g/dL^{**}$	13,613	13,990	+2.8%

Source: FARS, FHWA

^{*} Revised Numbers -- Due to State-reporting problems in Blood Alcohol Concentration (BAC) values that were discovered in the 2005 ARF file during production of the 2005 Final file.

^{**} In crashes based on highest driver/motorcycle operator BAC in the crash

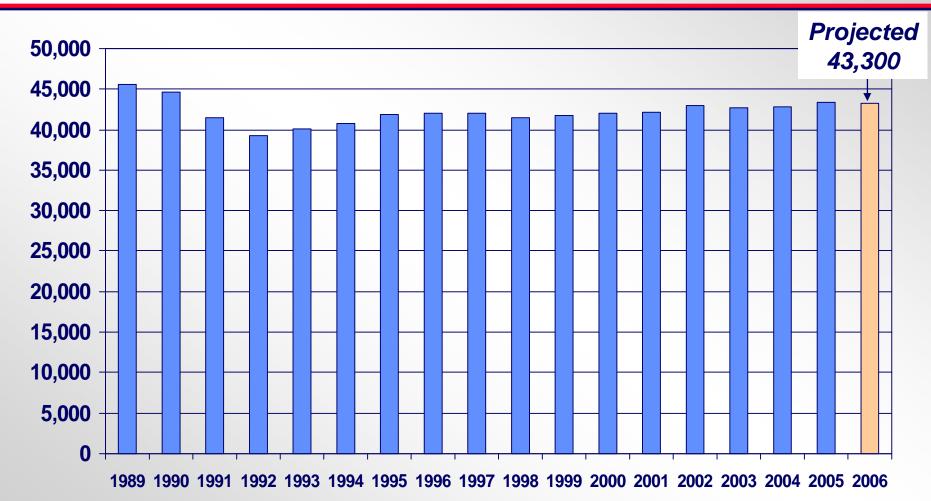


Long-Term Trends

- 1. People Killed by Year
- 2. Fatality and Injury Rates by Year
- 3. Alcohol-Related Fatalities and Fatality Rate by Year
- 4. Nonfatal Crashes and People Injured by Year



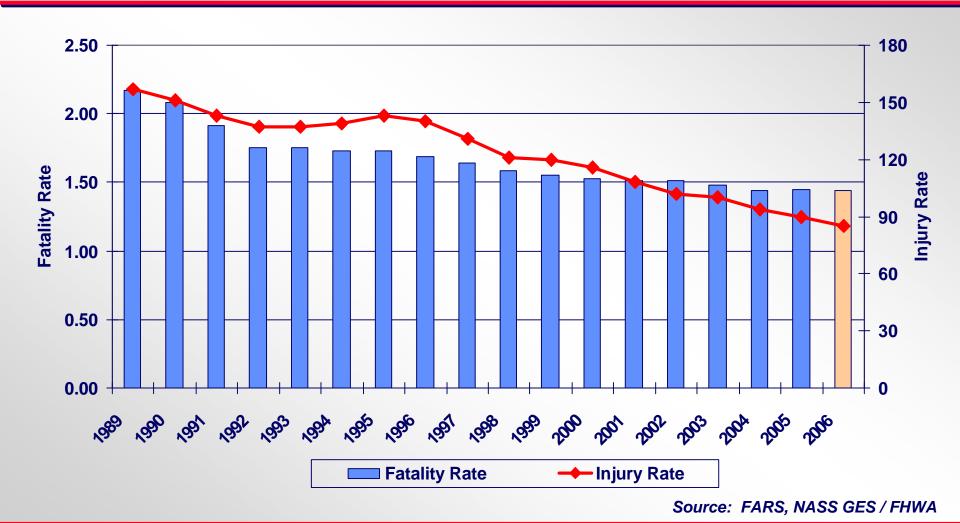
Number of People Killed in Motor Vehicle Crashes, by Year



Source: FARS



Fatality and Injury Rates per 100 Million VMT, by Year





Alcohol-Related Fatalities and Fatality Rate, by Year



^{*} Revised Numbers -- Due to State-reporting problems in Blood Alcohol Concentration (BAC) values that were discovered in the 2005 ARF file during production of the 2005 Final file.

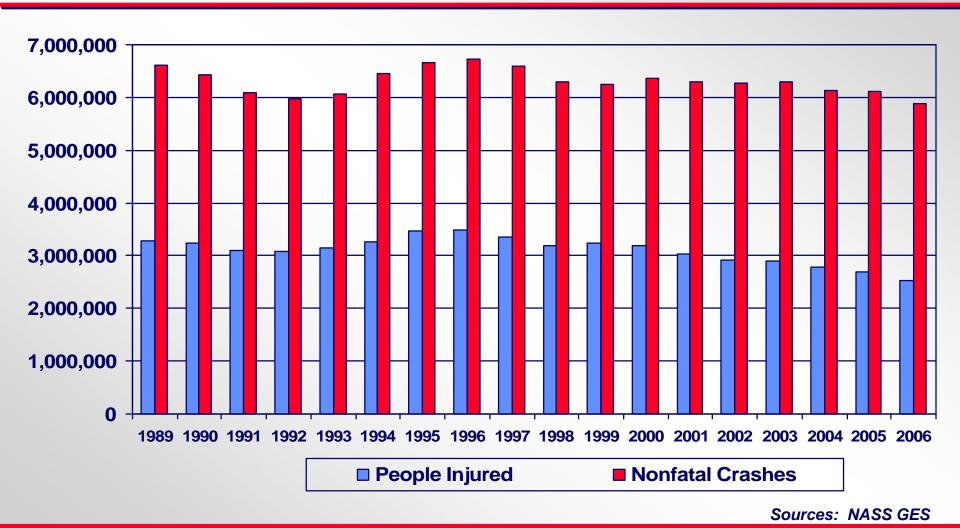
Source: FARS, FHWA

2006 Projections

Release May 25, 2007



Nonfatal Crashes and People Injured, by Year



2006 Projections

Release May 25, 2007



Data Sources

- Crash Data
 - ◆ Fatality Analysis Reporting System (FARS)
 - 2004 and prior years Final File
 - ° 2005 Annual Report File
 - 2006 Early Projection File
 - NASS General Estimates System (GES)
 - 2005 and prior years Annual File
 - 2006 9-Month File
- Exposure Data
 - ♦ Vehicle Miles of Travel (VMT) Federal Highway Administration (FHWA)
 - 2005 and prior years Annual Highway Statistics
 - 2006 January 2007 Traffic Volume Trends Report
 - ◆ Population Estimates (based on 2000 Census)
 - ° Census Bureau, July 1 estimates released on Dec. 22, 2006
 - Registered Vehicles
 - R.L. Polk & Company and FHWA
 - NHTSA's Projection for 2006



Questions about the data in this report may be sent by e-mail to: ncsaweb@nhtsa.dot.gov or made by phone to: 800-934-8517