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Fatality Analysis Reporting System (FARS)



- Purpose Provide an objective basis to evaluate the effectiveness of motor vehicle safety standards and highway safety programs
- All fatal crashes
 - ♦ Fatality w/in 30 Days of Crash
 ° ~ 37,000/year
 - ◆ Covers All 50 States, DC, and Puerto Rico
- Began Operation in 1975
- Operated Cooperatively with States





FARS Data Sources



- Police Crash Reports
- State Vehicle Registration Files
- State Driver Licensing Files
- State Highway Department Data
- Vital Statistics
- Death Certificates
- Coroner/Medical Examiner Reports
- Hospital Medical Records
- Emergency Medical Services Reports



FARS Data Elements



- Crash Characteristics
 - ◆ Describes Crash Environment
- Vehicle Information
 - Characteristics of Vehicles Involved
- Driver Level
 - Driver licensing
 - ♦ Previous violations
 - ◆ Driver zip code
- Person Level
 - ◆ Age and sex of driver
 - ◆ Alcohol test results





Availability of FARS Data



- Latest year data normally available during early summer for public use
 - ♦ For example, 2003 data released in early summer of 2004
 - "Final" File for Previous Year also released
 - ◆ Data from 1975 to 2002 available now
- Files placed on FTP site for downloading
 - ♦ ftp://ftp.nhtsa.dot.gov/FARS/
- Zip files available in three formats
 - ◆ DBF, SAS and SEQL



Uses of FARS Data



- Fatal crash rates for state and local jurisdictions
- Ascertaining crash and person level alcohol
- Repeat offenders
- Analysis of pedestrian fatalities
- Motorcycle helmet effectiveness
- Relationship between occupant compartment deformation and occupant injury



Uses of FARS Data



- Restraint use patterns
- The 65 MPH speed limit
- Safety design of cars and light trucks
- Safety of large trucks on the highway
- Airbag effectiveness research
- Evaluation of differences between urban and rural crashes





Older Driver (65+) Fatality Rates by State, 2002

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Population Estimates



- Census Bureau reported 36 million people 65 years and older lived in 2002
 - ◆ Estimated 12.5 percent of the population
 - North Dakota and the District of Columbia were the only two states that didn't experience an increase in the 65 and older population in 2002
- In 1993, 65+ population was 33 million accounting for 12.8 for the US population
 - ♦ Between 1993 and 2002, proportion of 65+ population declined by 2.3%



States with Lowest and Highest Residents 65+, 2002



Lowest		Highest	
Alaska	6.1%	lowa	14.7%
Utah	8.6%	North Dakota	14.8%
Georgia	9.5%	West Virginia	15.3%
Colorado	9.6%	Pennsylvania	15.5%
Texas	9.9%	Florida	17.1%



Lowest and Highest Older Driver Fatality Rates*, 2002



Lowest		Highest	
Hawaii	2.4	Georgia	18.8
District of Columbia	2.9	lowa	19.2
New York	4.8	Alaska	20.5
Massachusetts	5.0	Montana	25.2
Connecticut	8.0	Mississippi	27.7
*Rate per 100,000 population		National Rate: 11.1	



Licensed Drivers and Involvement Rates, 2002



- Older drivers represented 14.6% of <u>all</u> <u>licensed drivers</u>
 - ♦ In 1993, the proportion of 65+ drivers was 13.9%
- In 2002, for every 100,000 licensed older drivers
 - ♦ 22.1 were involved in fatal crashes
 - ♦ 13.9 were killed in fatal crashes



Lowest and Highest Older Driver Fatality Rates*, 2002



Lowest		Highest	
Hawaii	3.7	Alaska	22.9
District of Columbia	5.7	Georgia	22.9
Connecticut	5.7	Montana	29.5
Massachusetts	6.3	Kentucky	34.0
New York	7.3	Mississippi	36.1
*Rate per 100,000 licensed drivers National Rate: 13.9			



Older Drivers Involved in Fatal Crashes, 2002



- 57,803 drivers were involved in fatal crashes (1993 - 53,401)
 - ♦ 6,271 were older drivers (1993 5,848)
- 10.8 of every 100 drivers involved in fatal crashes were older drivers (1993 - 11.0)



Lowest and Highest Older Driver Involvement Rate* in Fatal Crashes, 2002



Lowest		Highest	
District of Columbia	4.2	New Jersey	14.0
New Mexico	6.7	Vermont	14.8
Nevada	7.0	Oregon	15.5
Wyoming	8.0	Maine	15.9
Alaska	8.1	North Dakota	17.6
*Rate per 100 drivers involved			



Older Driver Fatalities in Crashes, 2002



- 26,549 drivers killed in crashes
 - ♦ 3,951 were older drivers
- 14.9 of every 100 drivers killed in crashes were older drivers.



Lowest and Highest Older Driver Fatality Rate* in Crashes, 2002



Lowest		Highest	
District of Columbia	7.1	Iowa	18.7
Hawaii	7.4	Oregon	20.2
Wyoming	8.8	Maine	21.2
Nevada	9.3	New Jersey	23.2
New Mexico	9.7	North Dakota	23.5
Delaware	9.7		
*Rate per 100 drivers killed			



Passenger Vehicle Driver Restraint Use* in Fatal Crashes, 2002



- 58% of fatally injured passenger vehicle drivers in crashes were unrestrained
 - ♦ Older drivers 60%
 - ◆ Under 65 39%

^{*}Based on known use.



Lowest and Highest Older Driver Restraint Use in Fatal Crashes, 2002



Lowest		Highest	
North Dakota	21%	California	72 %
South Dakota	33%	North Carolina	73%
Nevada	37%	Maryland	73%
Mississippi	43%	Michigan	74%
Kansas	45%	District of Columbia	100%



Alcohol Use Among Older Drivers Killed in Crashes, 2002



- 37% of fatally injured drivers in crashes has a BAC of 0.01+
 - ♦ Only 9% of older drivers had a BAC of 0.01+



Lowest and Highest Older Driver Alcohol Use in Fatal Crashes, 2002



Lowest		Highest	
Delaware	1%	Montana	18%
Maine	1%	South Carolina	18%
Nebraska	1%	Hawaii	20%
Arkansas	4%	Vermont	23%
North Carolina	4%	Alaska	25%
Wisconsin	4%		



State Data Fact Sheet

National Center for Statistics & Analysis



ALABAMA

State Population Estimate	4,487,000
65+ Population Estimate	589, <mark>000</mark>
65+ as % of Total State Population	13.1 %
State Driver Fatality Rate per 100,000 Population	15.5
65+ Driver Fatality Rate per 100,000 Older Population	15.3
State Licensed Drivers Estimate	3,578,000
65+ Licensed Drivers Estimate	567,000
65+ as % of Total State Licensed Drivers	15.9 %
State Driver Fatality Rate per 100,000 Licensed Drivers	19.5
65+ Driver Fatality Rate per 100,000 Older Licensed Drivers	15.9
Restraint Usage - Passenger Vehicle Drivers Killed	41%
Restraint Usage - 65+ Passenger Vehicle Drivers Killed	57%
Alcohol Involvement - Drivers Killed	36%
Alcohol Involvement - 65+ Drivers Killed	7%
Drivers Involved in Fatal Crashes	1,349
65+ Driver Involved in Fatal Crashes	133
65+ Involvement Rate per 100 Drivers Involved	9.9
Drivers Killed in Fatal Crashes	696
65+ Drivers Killed in Fatal Crashes	90
65+ Fatality Rate per 100 Drivers Killed	12.9



Questions?



