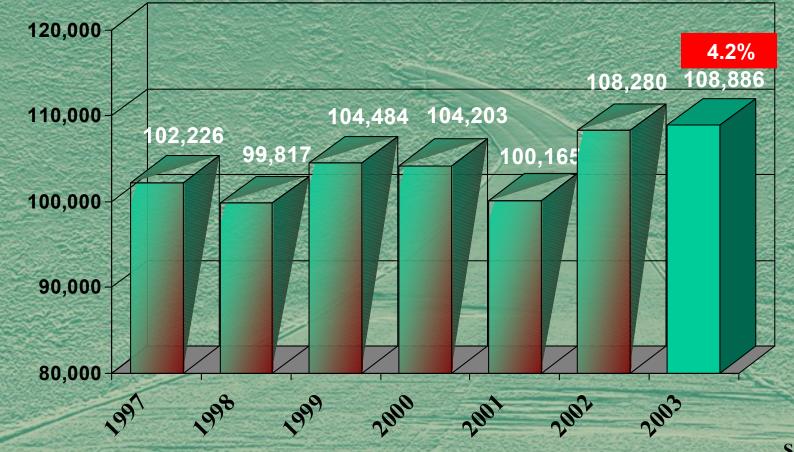
Highway Safety... It's a Team Effort

Terecia Wilson Director of Safety

Today's Presentation

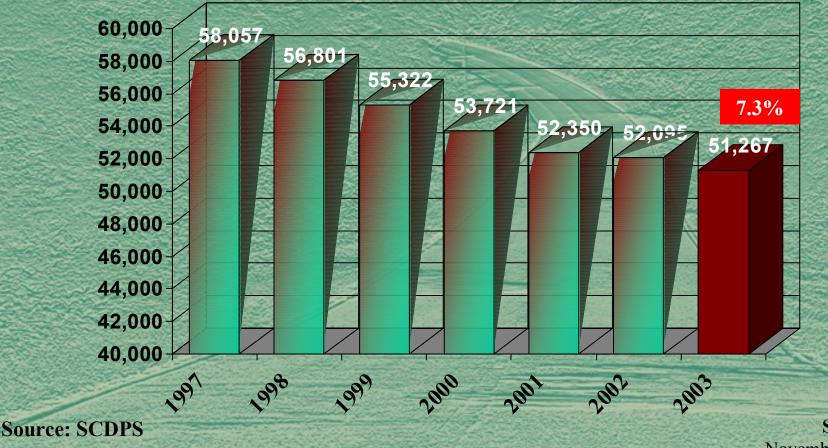
Review of Crash Trends
Update on Legislation
SCDOT Safety Programs
Ways You Can Help

South Carolina Traffic Trends Traffic Crashes



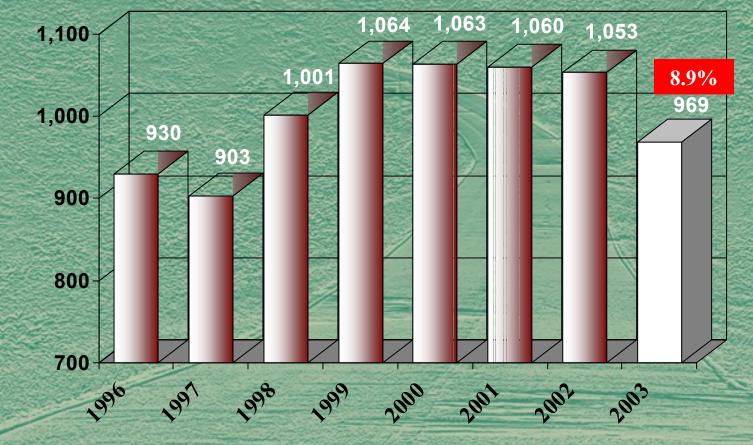
Source: SCDPS

South Carolina Traffic Trends Non-Fatal Traffic Injuries



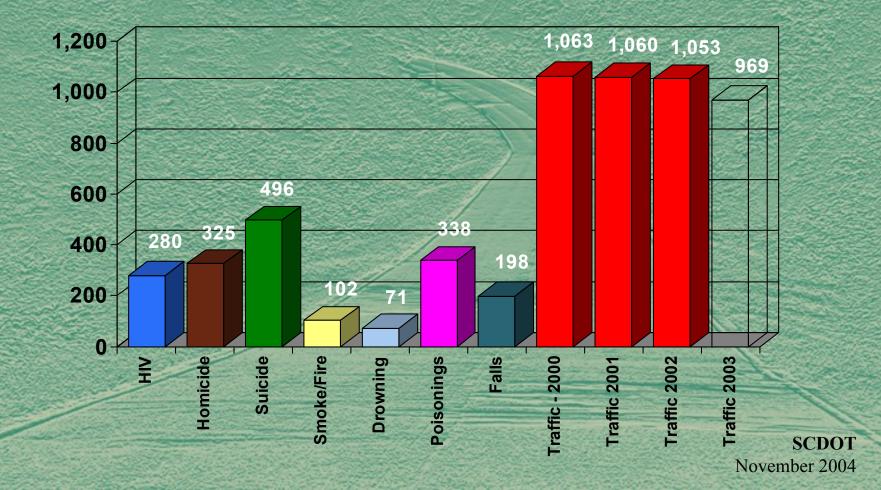
2003 data is preliminary

South Carolina Traffic Trends Traffic Fatalities



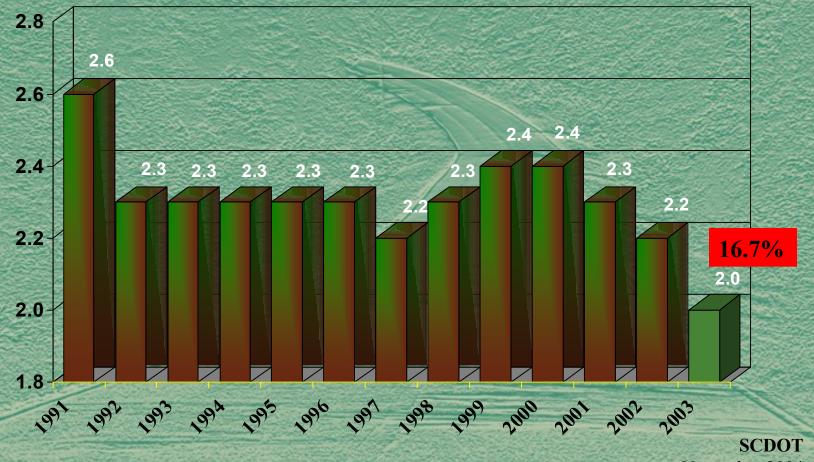
Source: SCDPS

South Carolina Traffic Trends Traffic Deaths vs. Deaths from Other Causes (Deaths from Other Causes are 2003 Figures as provided by SCDHEC)



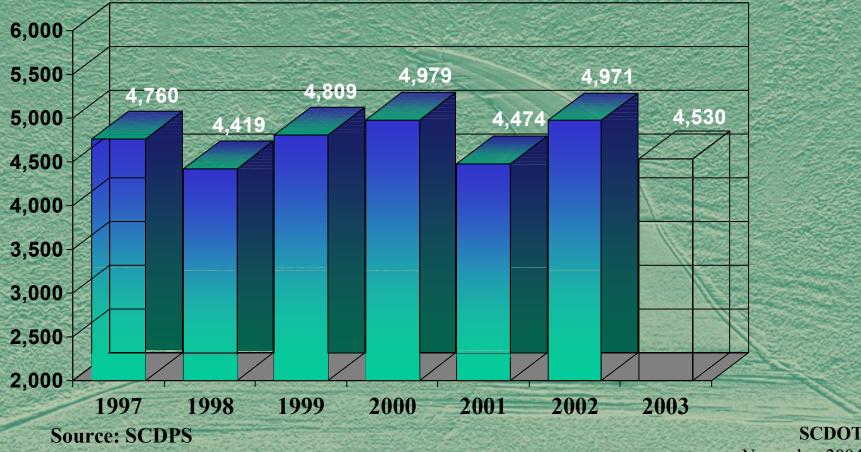
South Carolina Traffic Trends Mileage Death Rate

(Traffic Deaths per 100 million vehicle miles traveled)



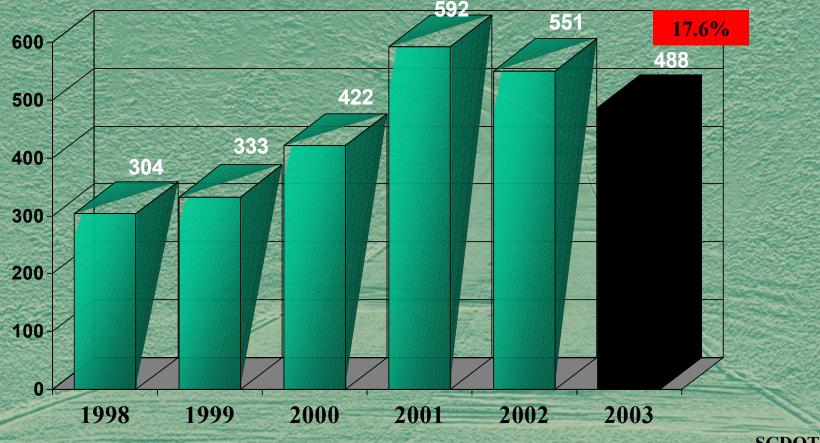
November 2004

South Carolina Traffic Trends Alcohol/Drug Related Collisions



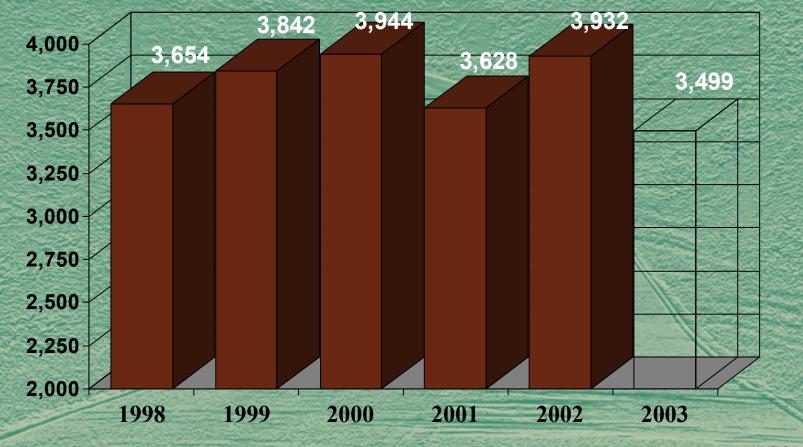
November 2004

South Carolina Traffic Trends Alcohol/Drug Related Fatalities



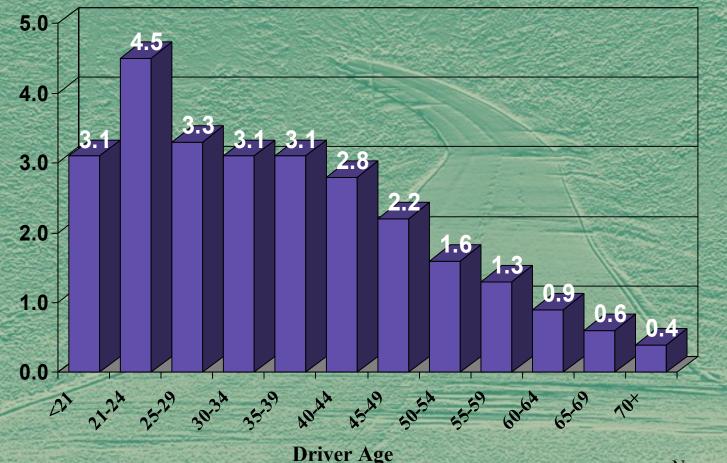
Source: FARS

South Carolina Traffic Trends Non-Fatal Injuries in Alcohol Involved Collisions

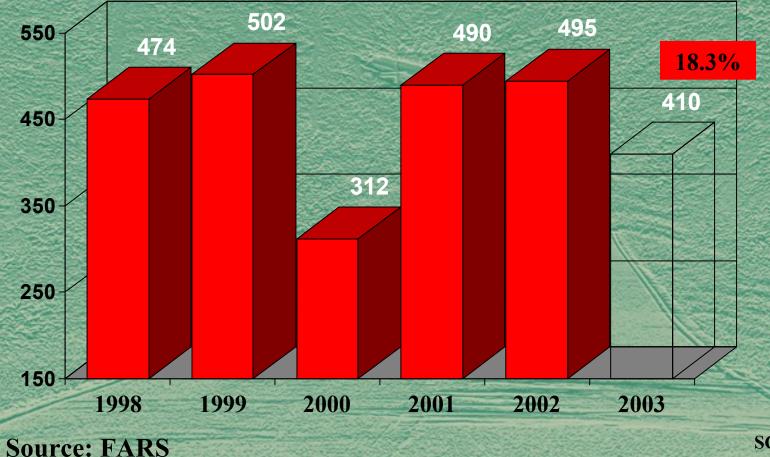


Source: SCDPS

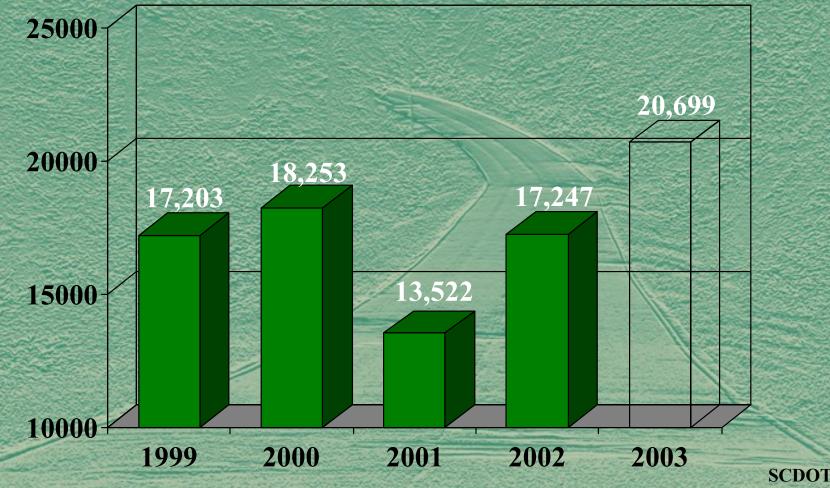
South Carolina Traffic Trends Drivers Involved in Traffic Collisions Where the Probable Cause was Alcohol or Drugs - 2002 (Per 1,000 Licensed Drivers)



South Carolina Traffic Trends Fatalities in Speed Related Collisions

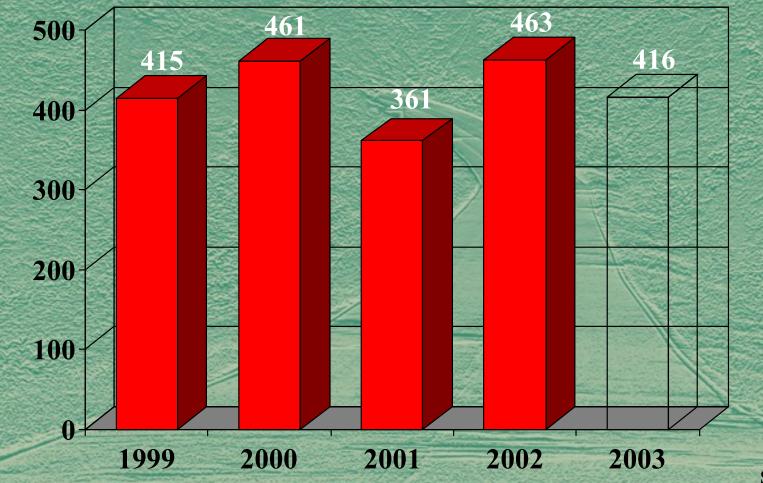


South Carolina Traffic Trends Run-Off-Road Crashes

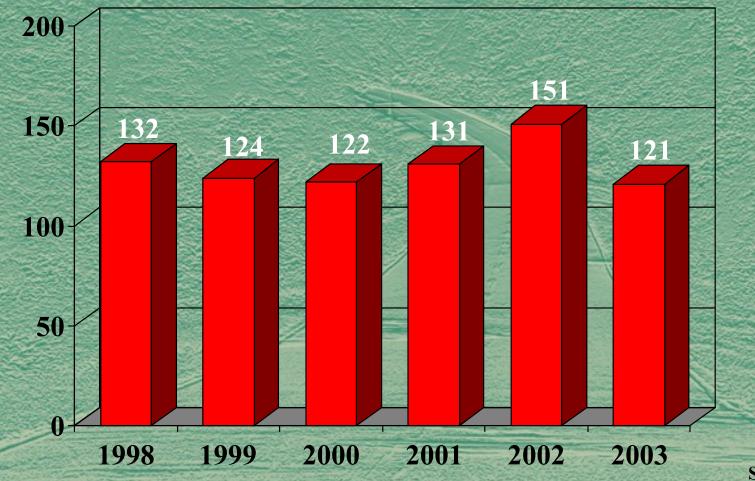


November 2004

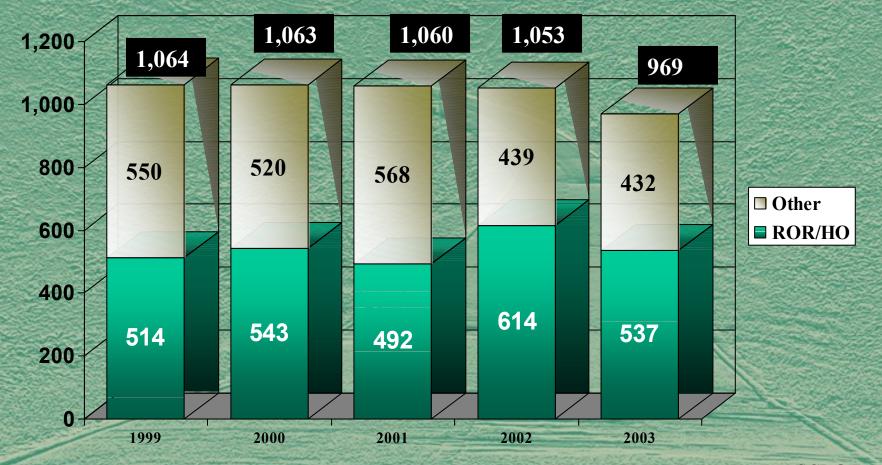
South Carolina Traffic Trends Run-Off-Road Fatalities



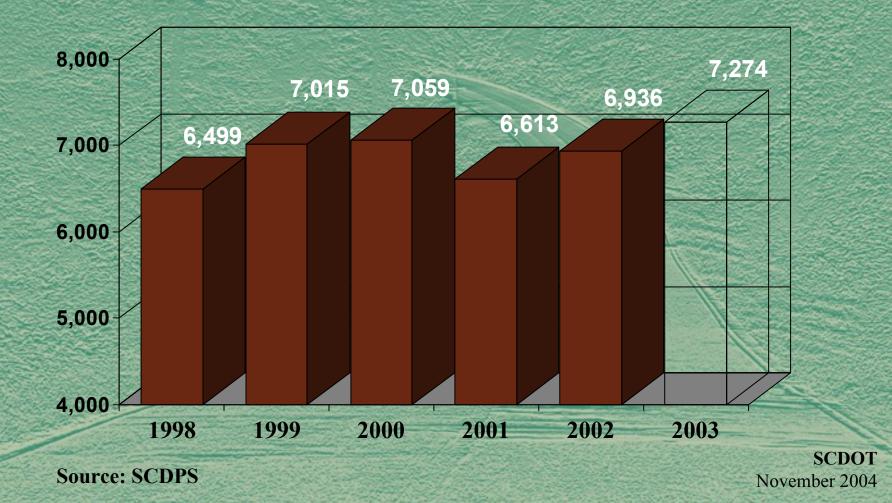
South Carolina Traffic Trends Head-on Traffic Fatalities



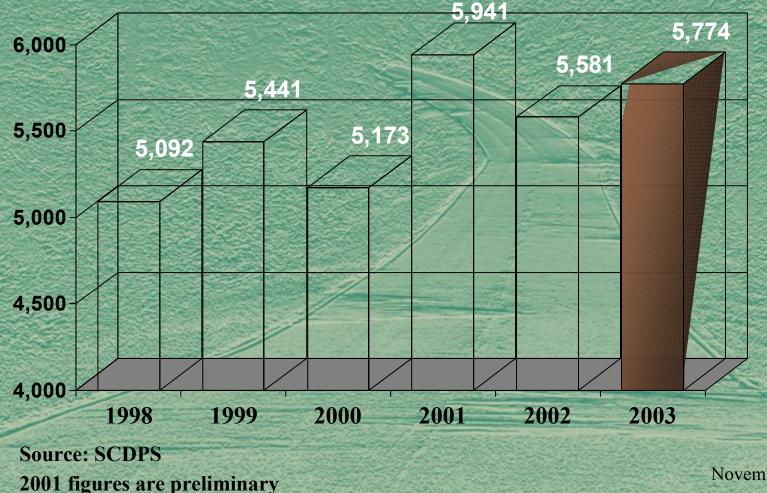
South Carolina Traffic Trends Run-off-Road/Head On Fatalities Compared to all Fatalities 1999-2003



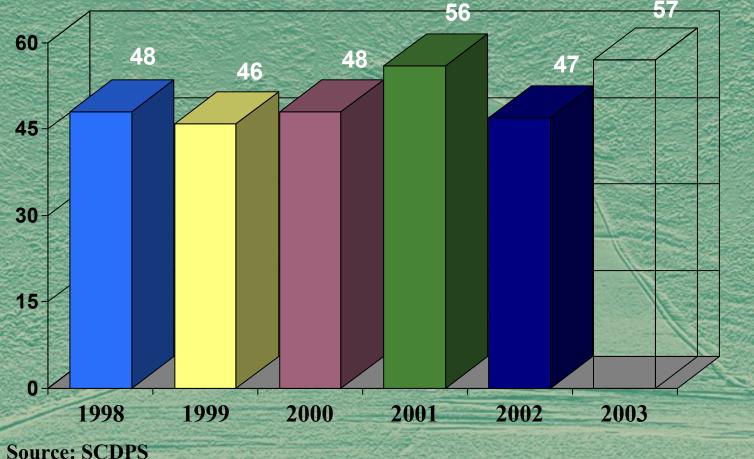
South Carolina Traffic Trends Following-Too-Closely Traffic Collisions



South Carolina Traffic Trends Traffic Collisions with Disregarding Sign/Signal as the Probable Cause

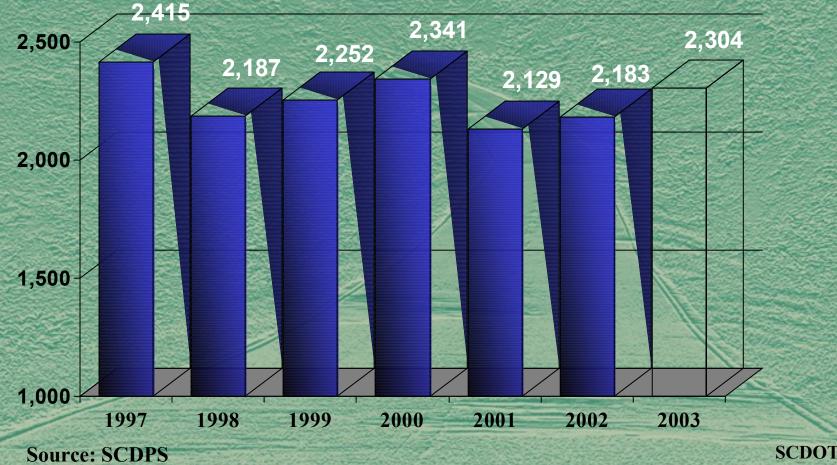


South Carolina Traffic Trends Traffic Fatalities with Disregarded Sign/Signal the Probable Cause



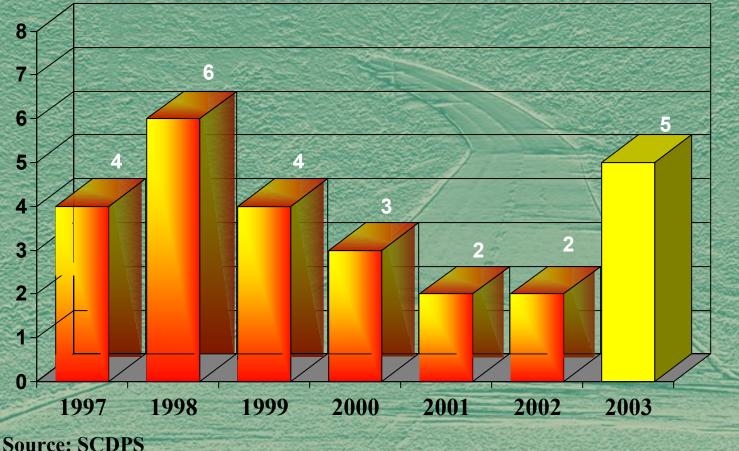
2003 figures are preliminary

South Carolina Traffic Trends Traffic Collisions with Improper Turn as the Probable Cause

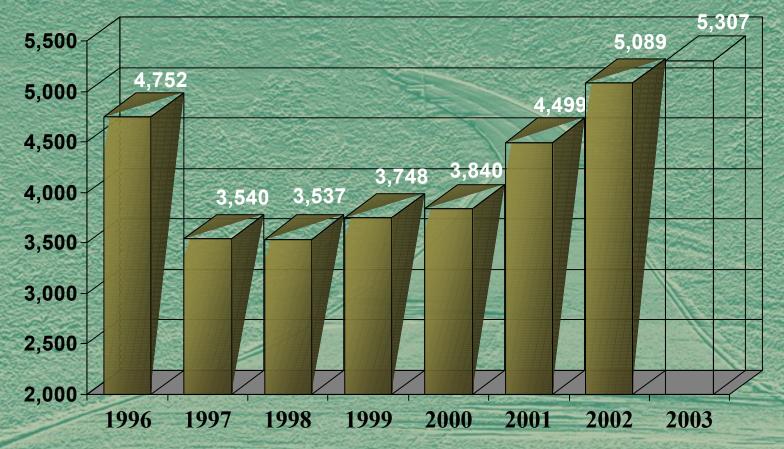


November 2004

South Carolina Traffic Trends Traffic Fatalities with Improper Turn as the Probable Cause



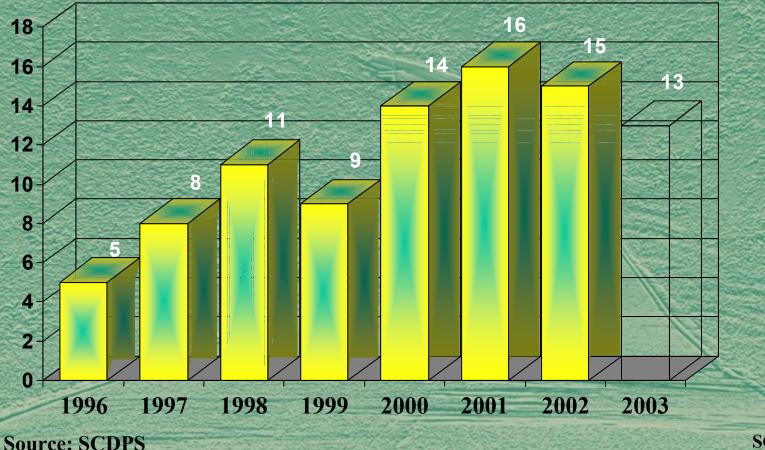
South Carolina Traffic Trends Traffic Collisions with Improper Lane Change as the Probable Cause



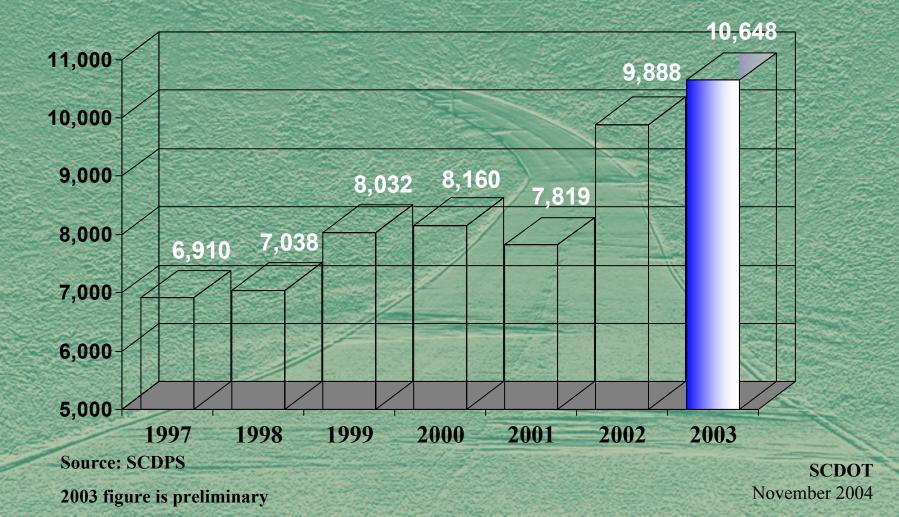
SCDOT November 2004

Source: SCDPS

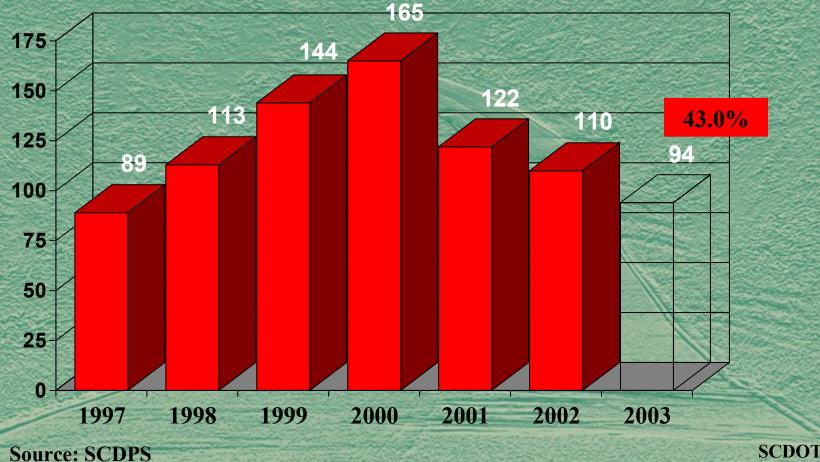
South Carolina Traffic Trends Traffic Fatalities with Improper Lane Change as the Probable Cause



South Carolina Traffic Trends Traffic Collisions on Interstate Highways

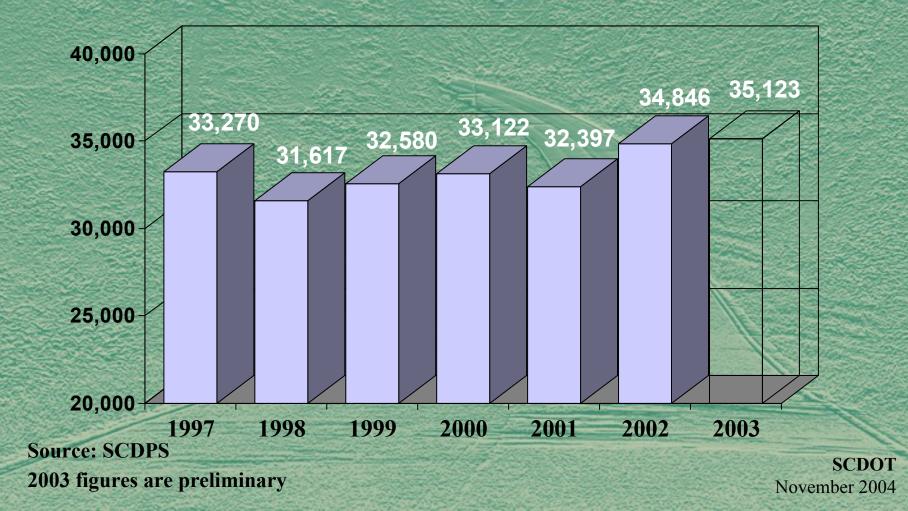


South Carolina Traffic Trends Traffic Fatalities on Interstate Highways

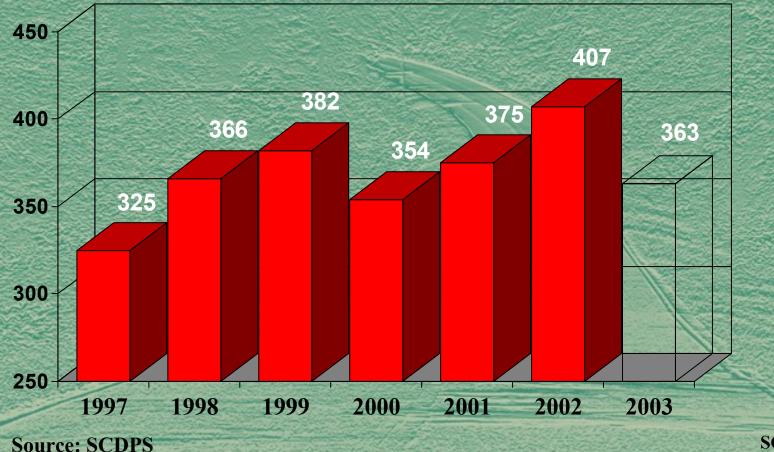


2003 figures are preliminary

South Carolina Traffic Trends Traffic Collisions on Secondary Highways

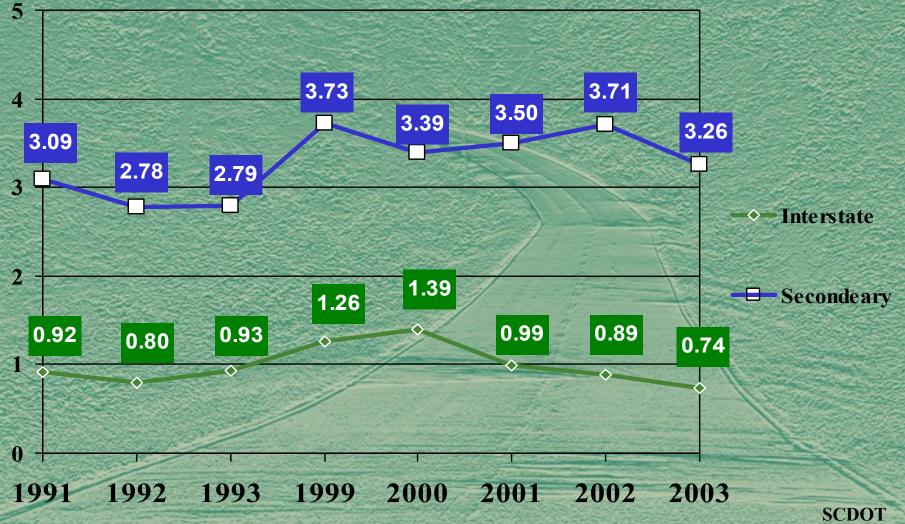


South Carolina Traffic Trends Traffic Fatalities on Secondary Highways



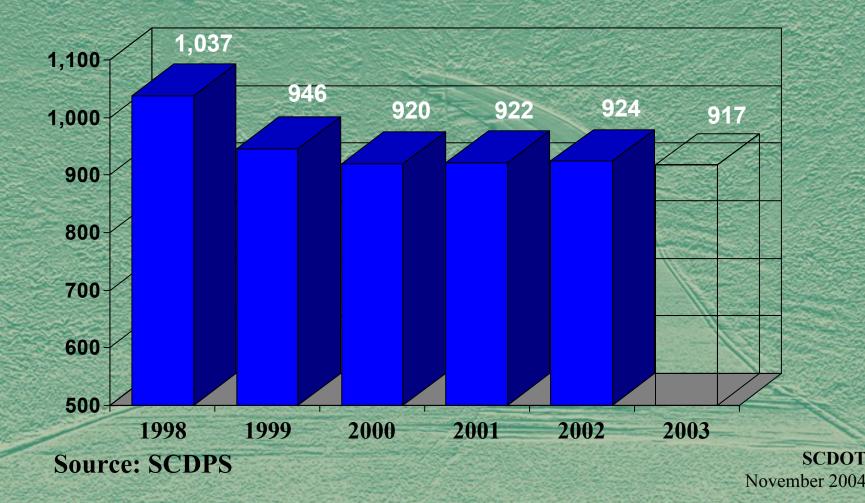
2003 figures are preliminary

South Carolina Mileage Death Rates Interstate vs Secondary Roads Traffic Deaths per 100 Million Vehicle Miles Traveled

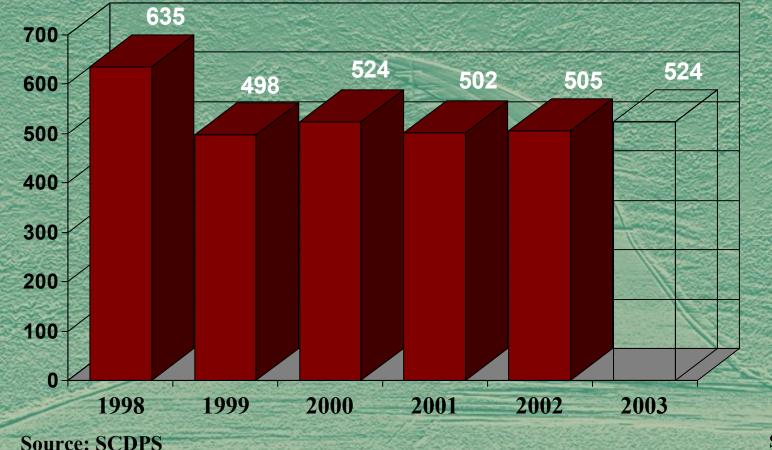


November 2004

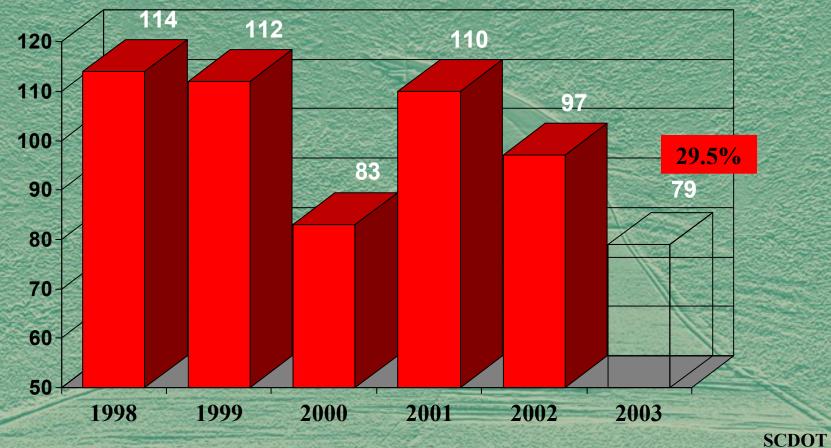
South Carolina Traffic Trends Traffic Collisions Involving Pedestrians



South Carolina Traffic Trends Non-Fatal Injuries in Collisions Involving Pedalcyclists

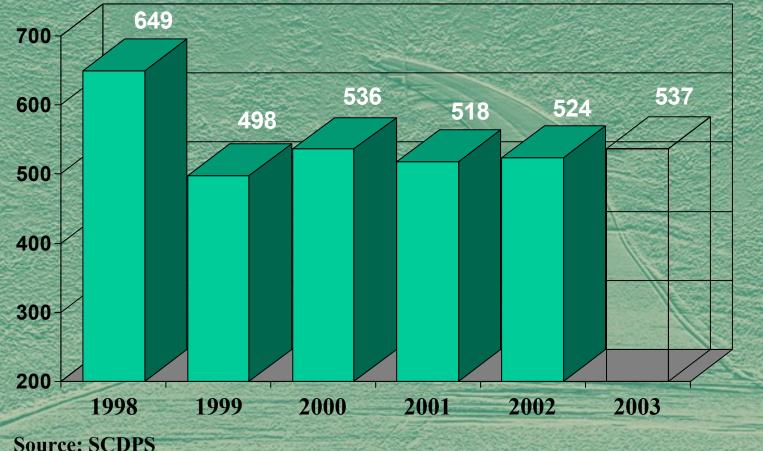


South Carolina Traffic Trends Fatalities in Collisions Involving Pedestrians

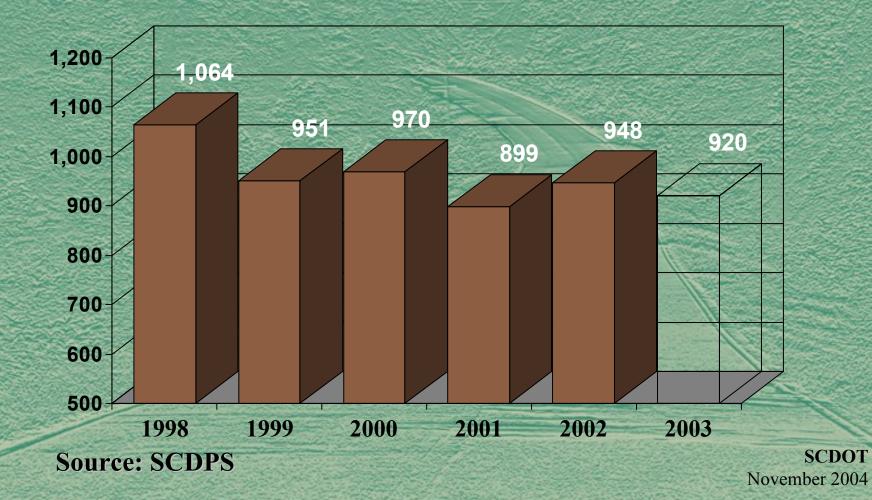


Source: SCDPS

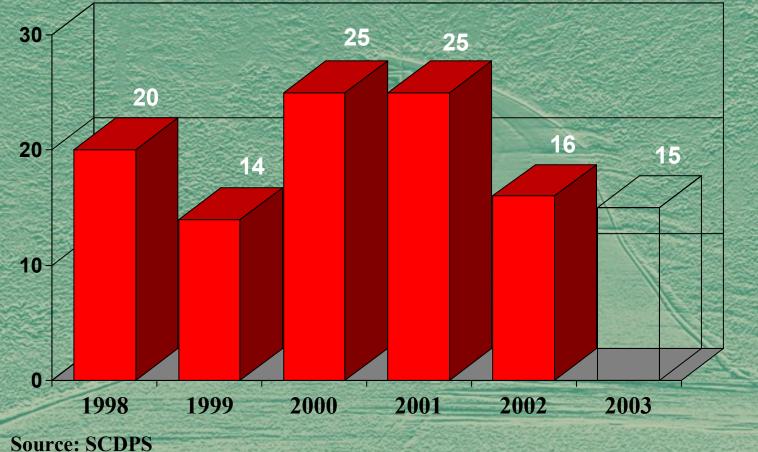
South Carolina Traffic Trends Traffic Collisions Involving Pedalcyclists



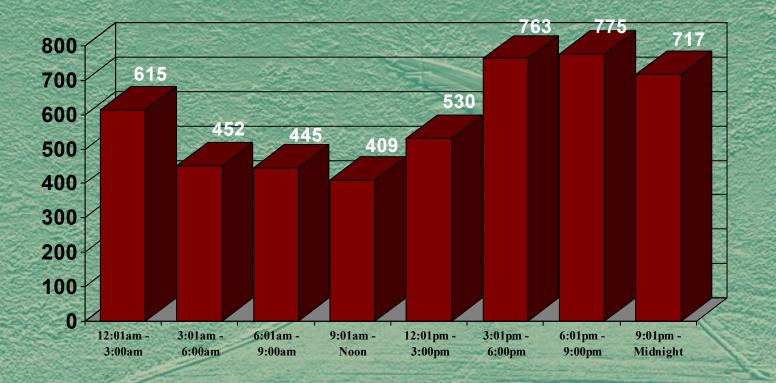
South Carolina Traffic Trends Non-Fatal Injuries in Collision Involving Pedestrians



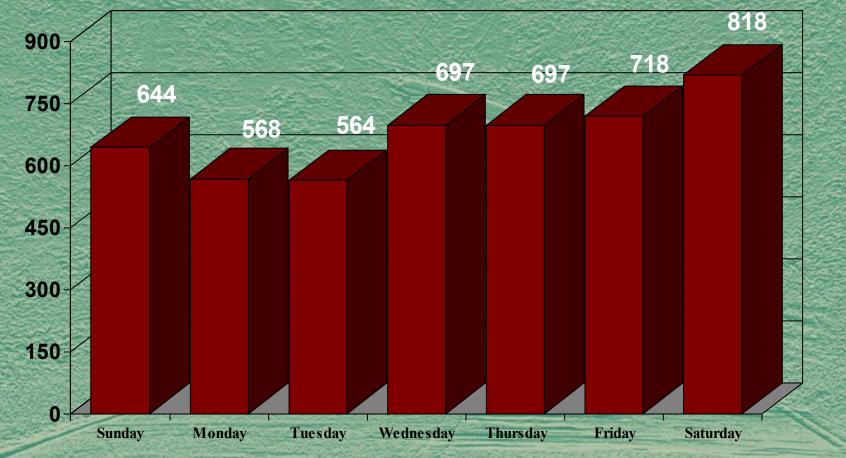
South Carolina Traffic Trends Fatalities in Collisions Involving Pedalcyclists



South Carolina Traffic Trends Fatal Traffic Crashes by Time of Day 1999-2003



South Carolina Traffic Trends Fatal Traffic Crashes by Day of Week 1999-2003

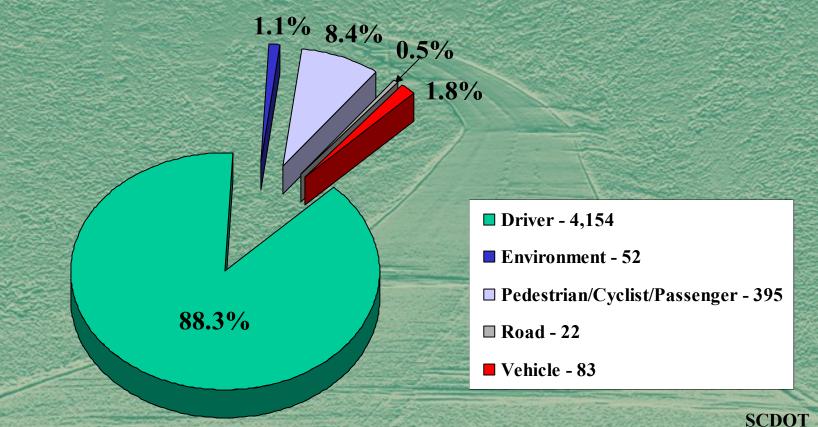


South Carolina Traffic Trends Vehicle Miles of Travel

(billions of miles) 60 7.9% 55 **42.91 44.29 45.08 45.56 47.07 47.82** 50 38.72 **39.65** 40.59 45 34.45 34.95^{36.13} 37.24 40 35 30 25 20 15 10 1091 1992 1993 1994 1995 1996 1991 1998 1999 2000 2001 SCDOT

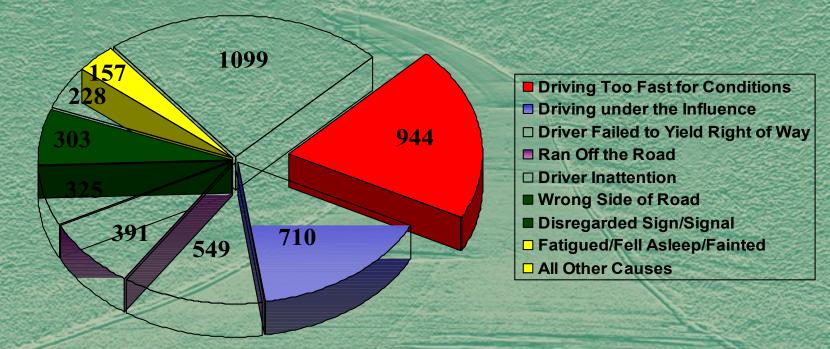
November 2004

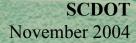
South Carolina Traffic Trends Fatality Crash Probable Cause Categories 1999-2003



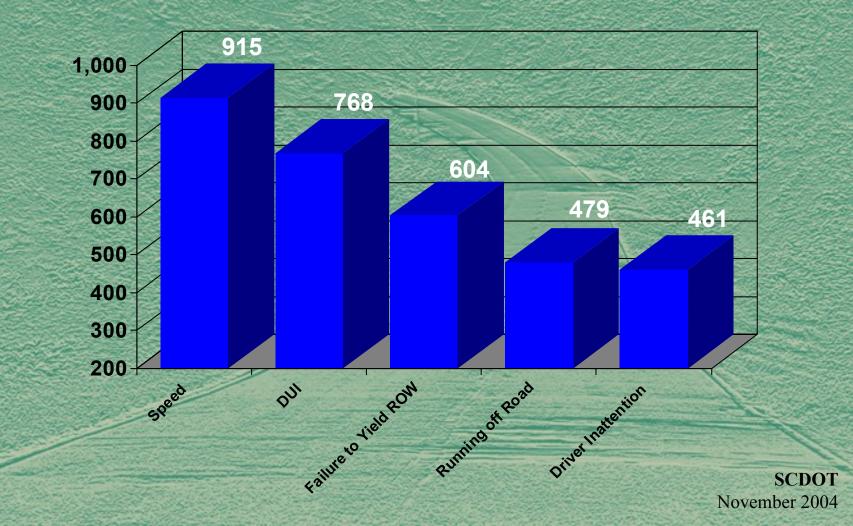
November 2004

South Carolina Traffic Trends Leading Driver Probable Causes Fatal Crashes: 1999-2003

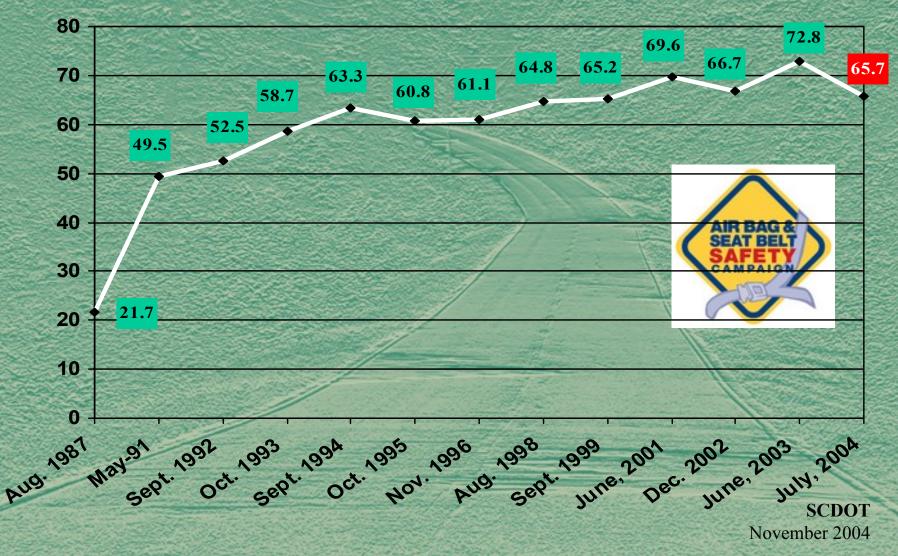


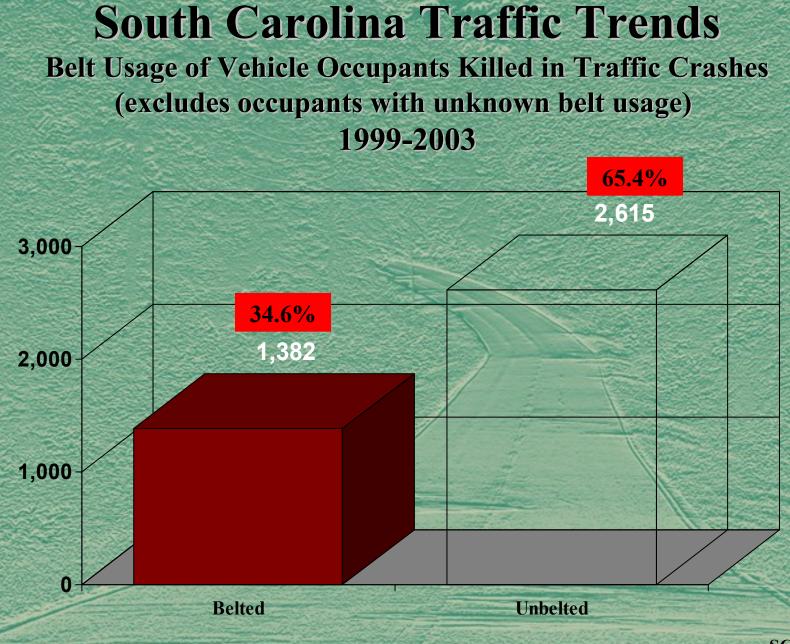


South Carolina Traffic Trends Traffic Fatalities - Leading Probable Causes 2003

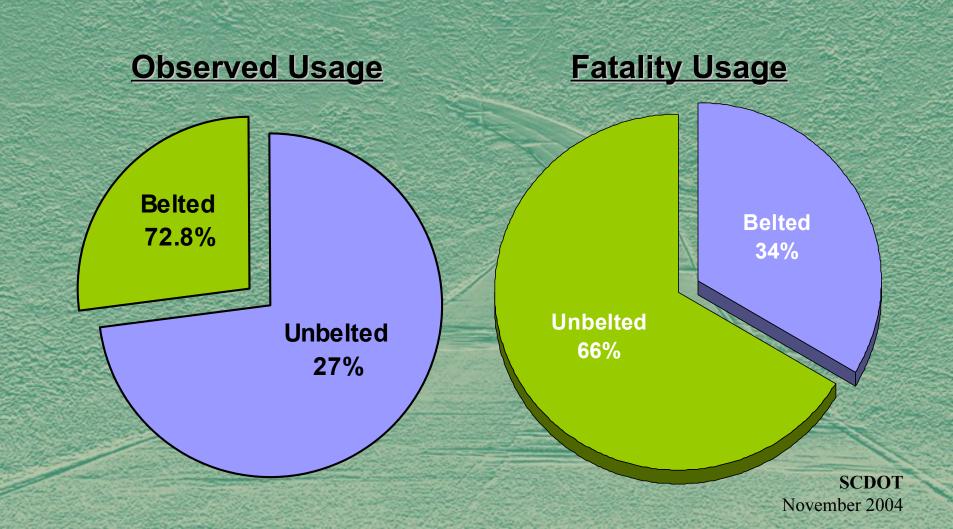


South Carolina Traffic Trends Restraint Utilization





Observed Belt Usage vs. Belt Usage for Fatalities in South Carolina 2003

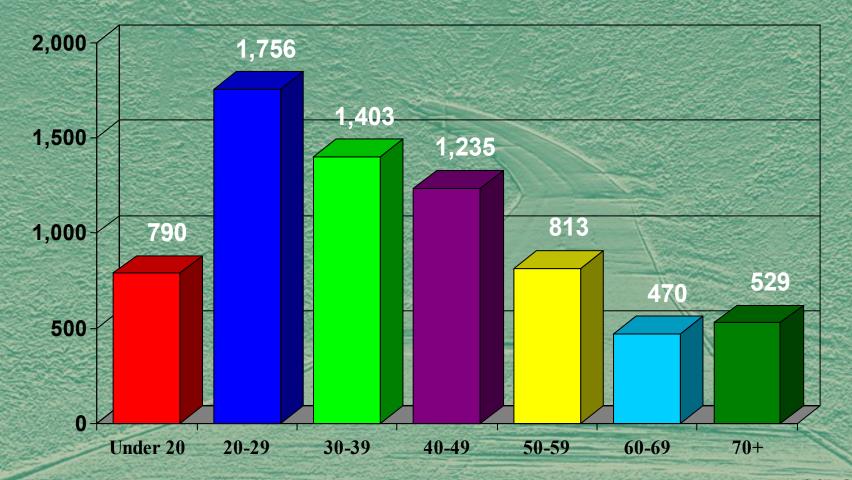


Leading Counties for Fatalities 1999-2003

- Horry 343
- Greenville 342
- Spartanburg 282

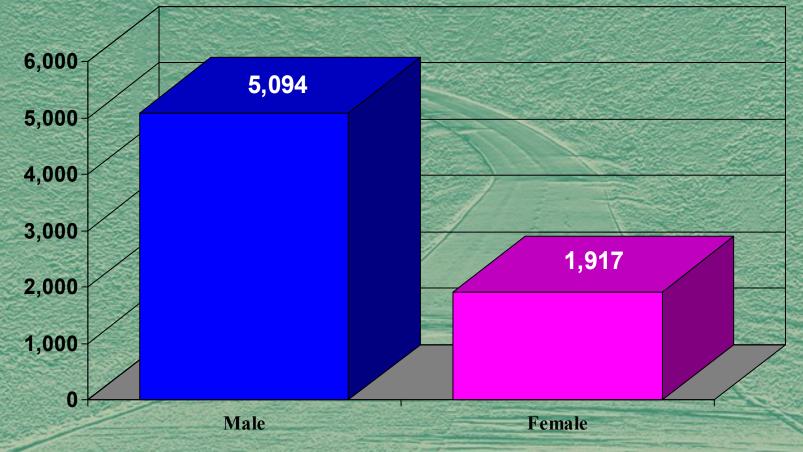
- Charleston 224

South Carolina Traffic Trends Age of Drivers in Fatal Traffic Crashes 1999-2003



Graph does not include 222 drivers with unspecified ages. Excludes pedestrians

South Carolina Traffic Trends Sex of Drivers in Fatal Crashes 1999-2003



Excludes Pedestrians. All other vehicle operators included.

Economic Loss Valuations (per incident)

Property Damage Only	\$	£00
Possible Injury	\$	9800
Non-incapacitating Injury	\$	17,500
Incapacitating Injury	\$	52,100
Fatality	\$1	,090,000
Average Cost Per Crash	\$	21,155

South Carolina Total Economic Loss in 2002: \$2,303,000.00 scdot November 2004

Economic Loss if You had to Pay

Cost Per Person\$ 555Cost Per Family of Four\$ 2,220



Young Driver

Crashes

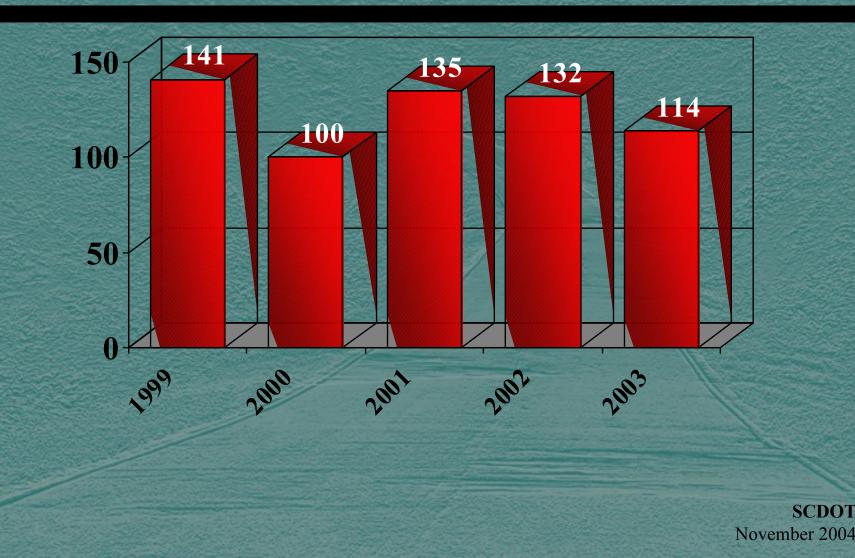
In South Carolina

Definition: Any Crash Involving One or More Drivers Age 15 - 18

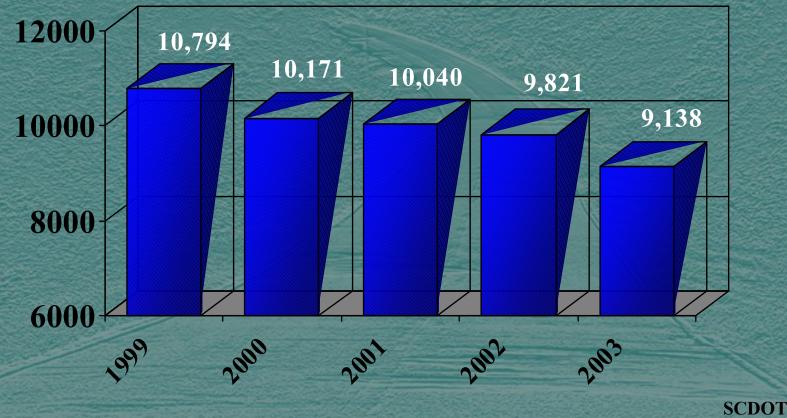
Young Driver Crashes 1999 - 2003



Young Driver Crash Fatalities 1999 - 2003



Young Driver Crash Injuries 1999 - 2003



November 2004

Economic Loss Resulting From South Carolina Young Driver 1998-2002

Property Damage Only Crashes \$ 36,600,000

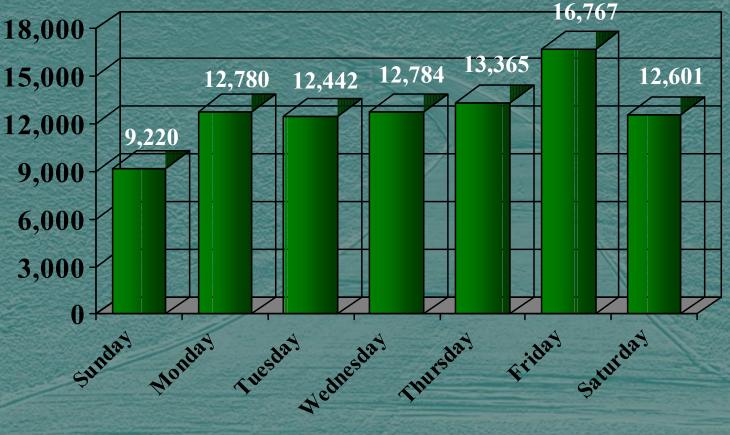
Young Driver Crash Fatalities \$ **8**5,600,000

Pedestrian Crash Injuries \$ 763,100,000

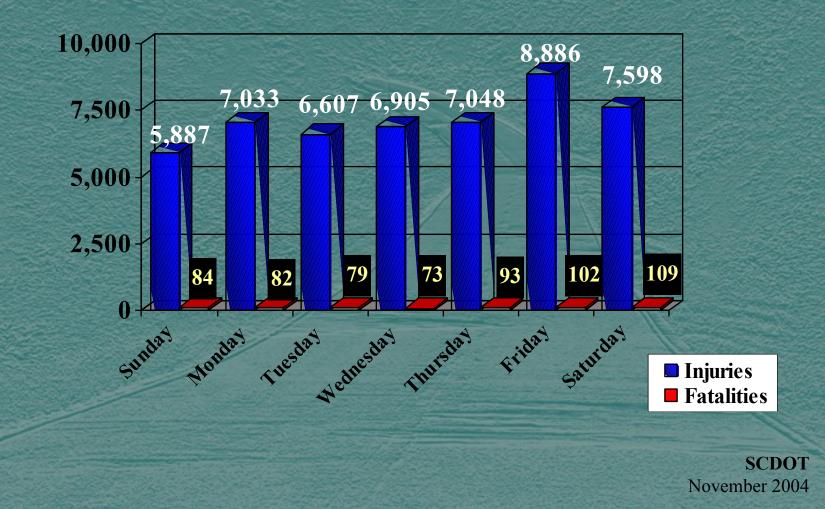
Total Economic Loss Due to Young Driver Crashes:

\$1,825,300,000

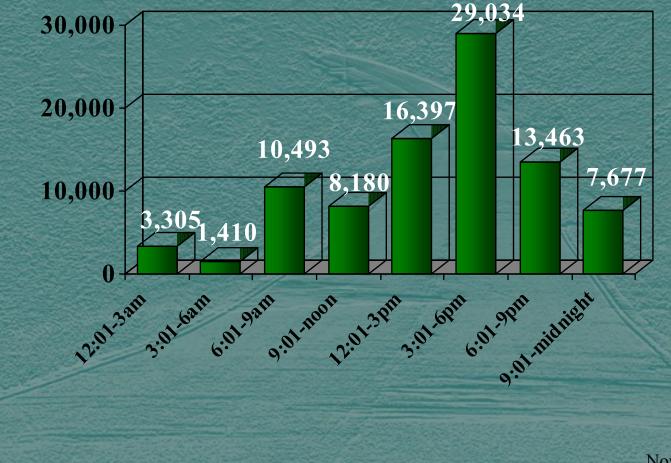
South Carolina Traffic Crashes Involving Young Drivers By Day of the Week – 1999 - 2003



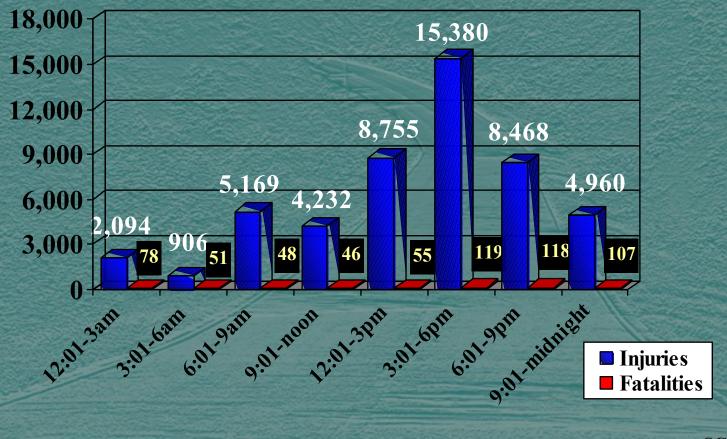
South Carolina Traffic Injuries/Fatalities Involving Young Drivers By Day of the Week – 1999 - 2003



South Carolina Traffic Crashes Involving Young Drivers By Time of Day – 1999 - 2003



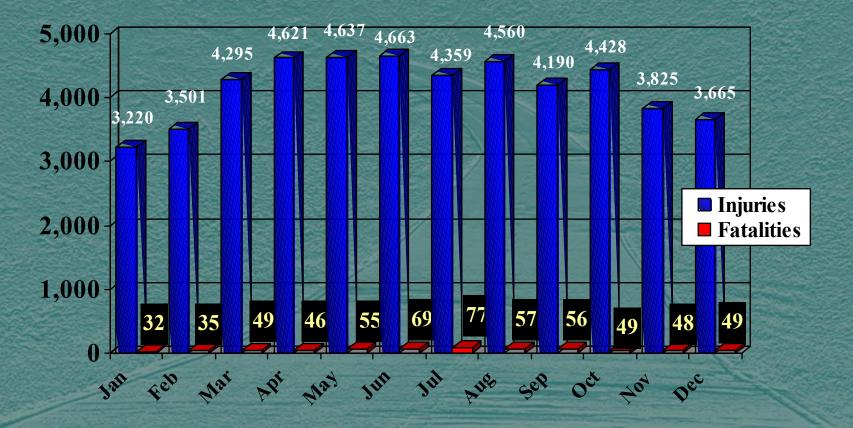
South Carolina Traffic Injuries/Fatalities Crashes Involving Young Drivers By Time of Day – 1999 - 2003



South Carolina Traffic Crashes Involving Young Drivers By Month – 1999 - 2003



South Carolina Traffic Injuries/Fatalities Involving Young Drivers By Month – 1999 – 2003



Young Driver Crashes Leading Probable Causes 1999 - 2003

Driver Failed to Yield Right of Way

Driver Inattention

Driving too fast for Conditions/Speeding

Following Too Closely

Disregarding Sign or Signal

SCDOT November 2004

22,397

18,042

16,647

7,132

4,504

Young Driver Crash Fatalities Leading Probable Causes 1999 - 2003

Driving too fast for Conditions/Speeding **Driver Failed to Yield Right of Way** Driving on Wrong Side of the Road Driving under the Influence Ran Off Road

174

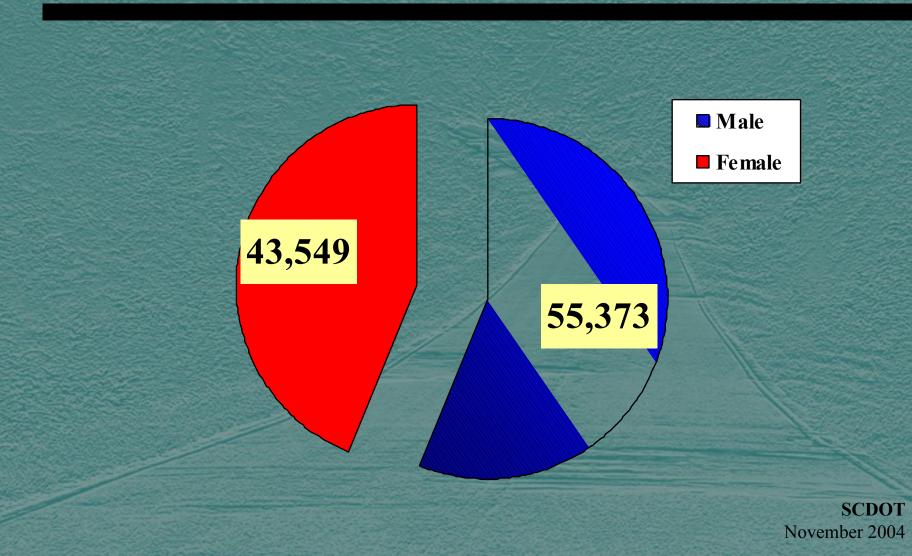
80

63

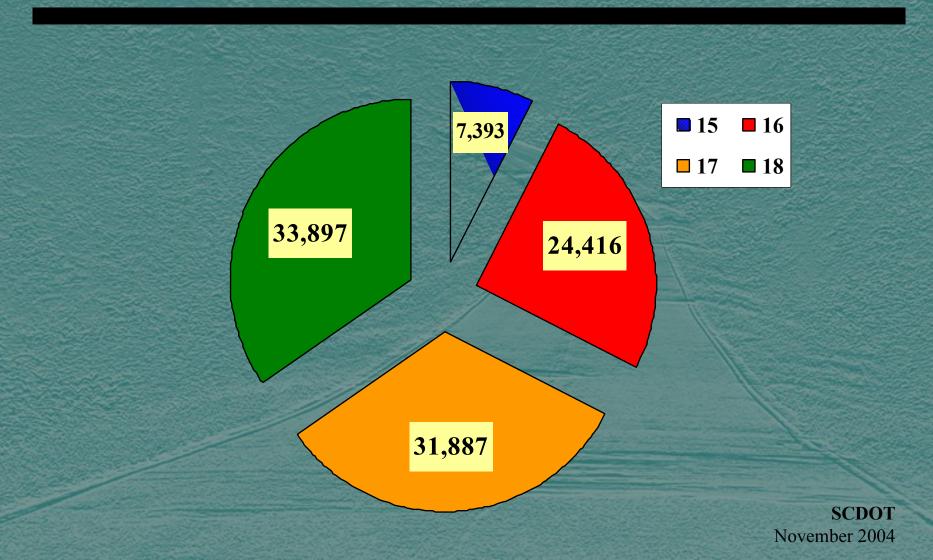
60

41

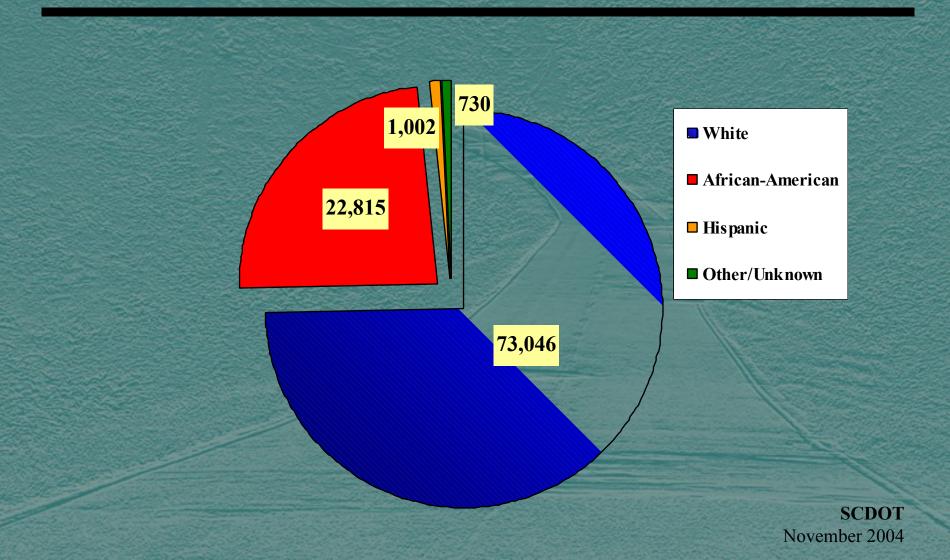
Young Driver Involvement in South Carolina Traffic Crashes By Sex - 1998-2002



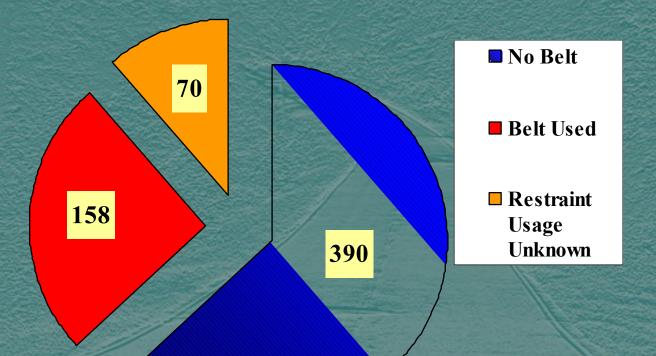
Young Driver Involvement in South Carolina Traffic Crashes By Age – 1999 - 2003



Young Driver Involvement in South Carolina Traffic Crashes By Race – 1999 - 2003

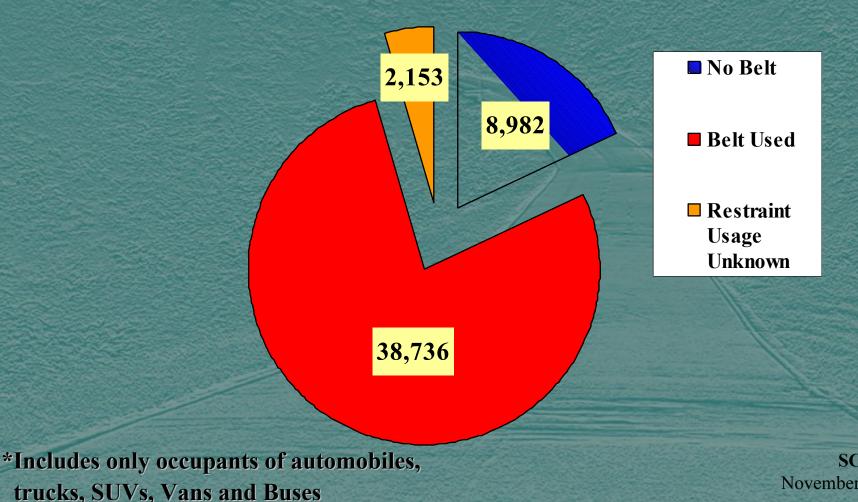


Fatally Injured Occupants* Age 15-18 in South Carolina Traffic Crashes By Restraint Usage – 1999 - 2003



*Includes only occupants of automobiles, trucks, SUVs, Vans and Buses

Non-Fatally Injured Occupants* Age 15 - 18 in South Carolina Traffic Crashes **By Restraint Usage – 1999 - 2008**



Legislative Update



ACT 307

Safe Routes To School

- Introduced in the House on February 11, 2004
- Introduced in the Senate on April 20, 2004
- Last Amended on June 3, 2004
- The General Assembly passed it on June 3, 2004
- Signed by the Governor on September 8, 2004

Safe Routes To School Bill

- Law is titled "South Carolina Safe Routes to Schools Act".
- Law is located in Chapter 17, Title 59 of the 1976 Code of Laws amended, Section 59-17-150.



Section 59-17-150. (A)

- Directs municipal and county governments to wolk with local shools to dentify poblems and/or hazards to children waking or bicycling toschool
- Directs municipalities, counties and school districts to develop a pan for funding improvements.
- Identifies surces option potential funding for inprovements
- Does ot object the surces isted toprovide funding

Section 59-17-150. (B)

- Encourages each school district to establish a Safe Routes to School Coordinating Committee
- Requires multidisciplinary and community representation on the committee
- Defines the dties/responsibilities 6 the Coordinating @mmittee
- Establishes and defines the composition and duties/responsibilities of a Safe Routes to School Team for each school where desired

The Coordinating Committee Members

- Parents
- Children
- Teachers
- Administrators
- Local Law Enforcement Officials
- Public Health Officials
- Interested Citizens
- Other persons familiar with the transportation needs or the school district

Duties of Coordinating Committee

- Gathering information (through surveys and traffic counts)
- Organizing incentive based events to encourage children to try new modes of transportation
- Promoting the program through newsletters, assemblies, web sites and other means to reach parents and students.

The Safe Routes To School Team

- The team shall include parents, clidren, teachers, administrators, and neighbors of the school.
- The team may be expanded
 include local law enforcement officials, public health officials, and other persons familiar with the transportation meeds of the school.
- The team shall select a epresentative to serve on the Coordinating Committee.



The Safe Routes To School Team Duties

Gathering information (through surveys and traffic counts)

 Organizing incentive based events to encourage children to try new modes of transportation

• Promoting the program through newsletters, and other means to reach parents and students.

Section 59-17-150. (C)

 Declares the first Wednesday of October each year as "Walk or Bicycle with Your Child to School Day"

ACT 286

Steer It and Clear It

- Introduced in the House on March 12, 2003
- Introduced in the Senate on February 26, 2004
- Last Amended on June 2, 2004
- The General Assembly passed it on June 3, 2004
- Signed by the Governor on July 22, 2004

Steer It Clear It

- In property damage only crashes, driver must move vehicle so traffic is not blocked.
- Driver does not have to wait for arrival of a law enforcement officer to move vehicle.
- Driver not considered liable for cause of the crash solely by reason of moving the vehicle.
- Instructional signs to be erected, asking drivers to move any vehicle capable of being driven off of roadway.

Rubbernecking Law

 (A) Defines a temporary work zone as "an area on a roadway identified by orange work zone signs or equipment with flashing lights, and the presence of workers on the scene."

 (B) Recognizes "A temporary work zone as a special hazard."

Rubbernecking Law

- Requires drivers approaching temporary work zones to:
 - keep vehicle under control
 - proceed with due caution
 - significantly reduce vehicle speed.
 - yield the right of way by making a lane change into a lane not adjacent to temporary work vehicle or equipment if on a highway with at least four lanes, with at least two lanes proceeding in the same direction
 - maintain safe speed for road conditions if changing lanes is impossible or unsafe

Rubbernecking Law

 Misdemeanor of endangering temporary work zone personnel

• Upon conviction fine not less than \$300.00 nor more than \$500.00.

SCIDOT Safety Programs...

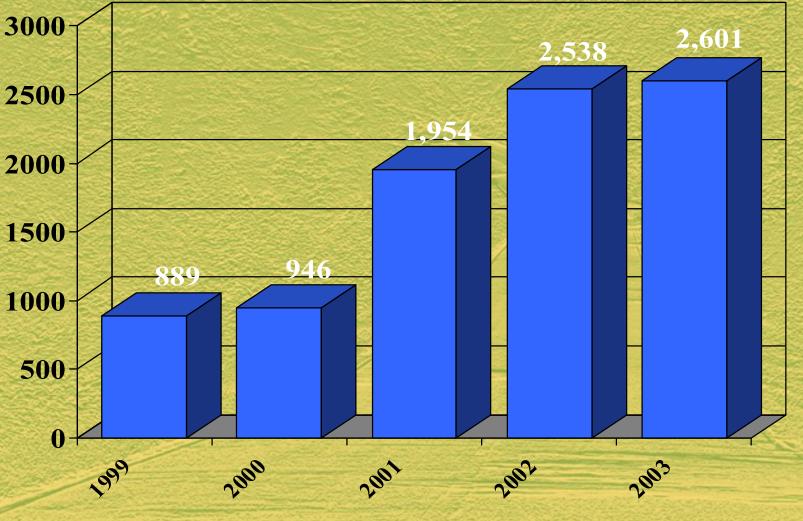
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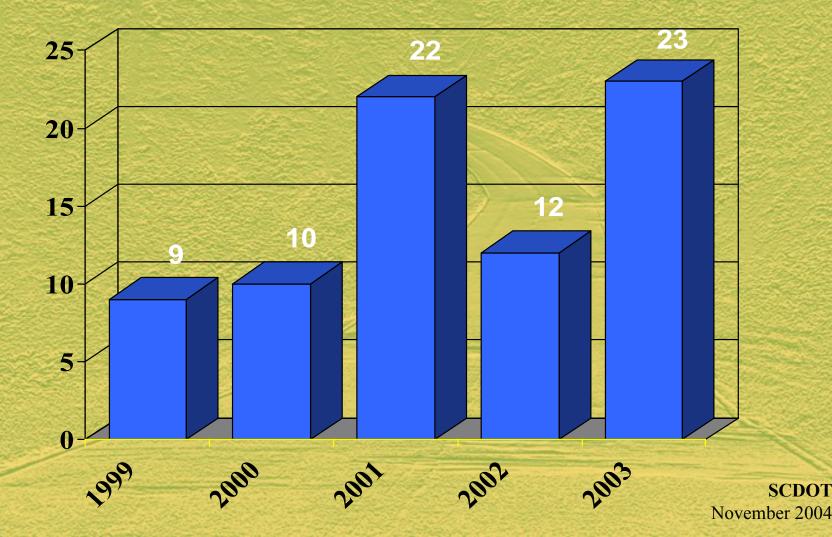
WORK ZONE SAFETY...

A Major Initiative at SCDOT

Work Zone Traffic Crashes 1999 - 2003



Work Zone Traffic Fatalities 1999 - 2003



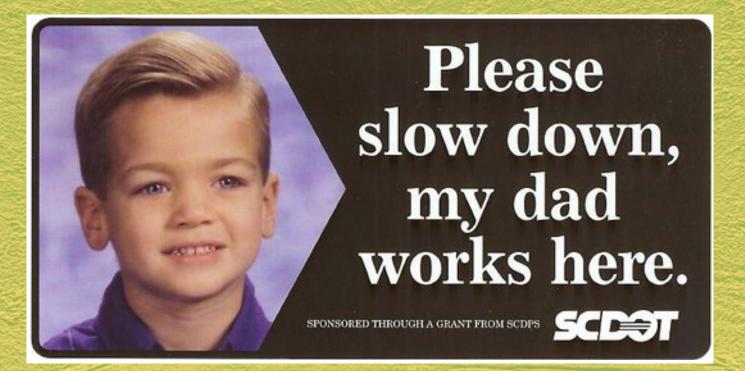
Award Winning Public Awareness Statewide Campaigns



Public Awareness Television PSA's

- Phase I, "At the Office and "In the Elevator" Aired 1,722 Times in 2002.
- In Phase II, "The Children" and "The Other Children" Aired 7,898 Times to Date
- In Phase III, "The Brad Sanders Story" and "The Ted Yandle Story" Aired over 7,900 Times to Date

The Children's Signs



The Children's Signs



SPONSORED THROUGH A GRANT FROM SCOPS

New Work Zone Initiatives

- High vibility enforcement pogram
- Program of be alunched April 2005
- Includes partnerships with SCHP and dcal law enforcement agencies
- Focus will be zero toerance for speeding and other violations in highway work zones
- Program includes media outreach

Special Partnerships with SCHP

- Agreement under development between DOT and SCDPS to fund trooper class of 24 to 30 troopers
- Troopers to be dedicated for 3 year period to enforcement of speed and DUI in highway work zones and high crash corridors

Safety Campaigns Coming in 2005

- Steer It Clear It Educational Campaign
- Rubbernecking Legislation Educational Campaign
- Statewide Public Information and Education Campaign focusing on prevention of speed related crashes/ reducing young driver involvement in crashes

Safety Conscious Planning (SCP) and the Integrated Safety Management Process (ISMP)

Safety Planning Requirement TEA-21 Moving Americans into the 21st Century

Each statewide and metropolitan planning process shall provide for consideration of projects and strategies that will increase the safety and security of the transportation system for motorized and non-motorized users.

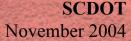
Safety Conscious Planning

"...a proactive approach for the prevention of motor vehicle crashes and unsafe transportation conditions."

Improving Safety on Our Highways

Safety Conscious Planning

... a comprehensive, system wide, multi-modal, proactive process that better integrates safety into surface transportation decision making.



Safety Conscious Planning (SCP) is... continued

- Considers all aspects of highway safety engineering, education, awareness, enforcement & emergency response
- Uses a system-wide approach including sites, corridors & entire state, regional & local transportation systems

SCP is.... continued

 SCP is multi-modal including transit, pedestrian & bicycle safety needs

 SCP is proactive - addresses current safety problems & looks for opportunities to prevent them in the future

SCP Communication: Forums

Planning

SCDOT

November 2004

- Purpose dialogue among key players
- Objective jump start the SCP process

Safety

Result - action plan

Communication: SCP Forums

 \mathbf{X}

S/Mex

★ Completed

Pending

Pre-Planning for the Forum

Began on August 28, 2002 with Planning Meeting

 Involved 25 key transportation and safety partners (all E's)

Allowed participants to determine focus

- Articulate Forum Objectives
- Outline an Agenda
- Develop a participant list

Address logistical and process issues

H Key Forum Objectives

 Brief safety and planning communities on current issues/practices

Help the partners understand the other's planning processes

 Facilitate apartnership that encourages collaborative planning and project selection

 Inform planners of products, programs, tools to support safety planning

Forum Participants

 Broad cross section of planning and safety communities

Statewide representation

Multidisciplinary group (including MPO's, COG's)

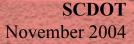
Federal partners (FHWA, NHTSA, FMCSA)

Teams Planning Meeting

Logistics & Pogram Team

• Data Tem

- Themes & Mesage Tem
- · Goals & Objectives Team



Plans Provided to Participants

- AASHTO Strategic Highway Safety Plan
- Emergency Medical Services State Plan
- Federal Railroad Administration Action Plan
- 402 Highway Safety Plan
- Injury Control Plan
- SCDOT Strategic Plan
- SC Long Range Transportation Plan
- Others

Data Guide

- SCDOT (Road Inventory, Traffic Counts, Mileage Reports)
- SCDPS (Collision File)
- SCDMV (Driver & Vehicle Files)
- EMS (Run Reports, Trauma Registry)
- DAODAS (School Age & Adult Surveys)
- Office of Research & Statistics (CODES, Census, Hospital Discharge)

Discussion Group Assignments

- Set safety goals
- Develop recommendations for how to incorporate safety in the planning process
- Identify innovative solutions & strategies; tools & resources
- Create messages & themes to improve safety

Next Steps

- Dissemination of Forum Final Report
- Schedule follow-up meetings of Discussion Groups
 - Complete discussions
 - Reach consensus on all recommendations
- Include the recommendations in the Comprehensive Safety Plan

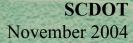
Forum Accomplishments

- Brought over 200 partners together, many 1st time
- Adopted several goals & strategies to improve safety – all willing to support in their plan
- Improved communications among partners (Email group)
- Enlightened participants on available data sources

Forum Accomplishments

- Gave SC a "step up" in complying with Reauthorization requirements for a State Strategic Highway Safety Plan
- Prepared SC for participation in National Pilot Program – Integrated Safety Management Process (ISMP)

Integrated Safety Management Process



The Integrated Safety Management Process (ISMP)

- Product of the National Cooperative Highway Research Program (NCHRP) Project 17-18
 (5) – NCHRP Report 501
- An integrated management system to reduce highway injuries and fatalities across a jurisdiction

The Big Picture

Safety Conscious Planning

> Other TIP STIP Term Plan Comprehensive Safety Plan

Integrated Safety Management Process

Integration at all Levels

- Integration starts at the decision making level with top management of various agencies working together
- Integration across 4 E's Enforcement, Engineering, Education, and Emergency Services
- Integration across safety agencies and jurisdictions
- Integration during implementation

Implementation Guides

 Emphasis areas (e.g. run-off-road, intersection crashes, aggressive driving)

 Part of AASHTO's Strategic Highway Safety Plan

Implementation Guides provide answers to:

- What goals should we set for a particular emphasis area? (85% statewide restraint use by the end of 2004)
- What are our priorities for a particular emphasis area? (Infants, young children)
- What strategies are available to us for a particular emphasis area? (Education for new mothers at hospitals)



Implementation Guides do NOT provide answers on:

- Which emphasis areas to prioritize?
- Which combination of strategies to apply?
- How to integrate the effort of multiple agencies implementing a single strategy?
- How to optimize the implementation of multiple strategies simultaneously?
- What level of deployment should be implemented for each strategy?

Establishing an ISMP

 In order to implement an ISMP, an ISMP must first be established

10 requirements

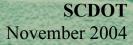


Requirements for Establishing an ISMP (1 of 2)

- 1. Form the Safety Program Leadership
- 2. Determine the coalition's mission
- 3. Create a Memorandum of Understanding
- 4. Develop a communication plan
- 5. Appraise the existing safety management system

Requirements for Establishing an ISMP (2 of 2)

- 6. Establish the administrative structure of the IMSP
- 7. Appoint an Operations Manager
- 8. Assemble the Risk Analysis and Evaluation Group (RAE)
- 9. Set a vision
- 10. Link databases



ISMP

Establishing the Integrated Road Safety System

5. Develop detailed action plans

6. Evaluation of performance

1. Review safety information

4. Determine appropriate combination of strategies

3. Develop objectives, strategies and preliminary action plans 2. Establish emphasis areas

Benefits of the ISMP (1 of 2)

- A protocol and organizational structure for integrating across the agencies responsible for road safety
- Data driven decision making
- Quantifiable results that can be demonstrated and used to leverage for additional support and funding
- Cost effective implementation

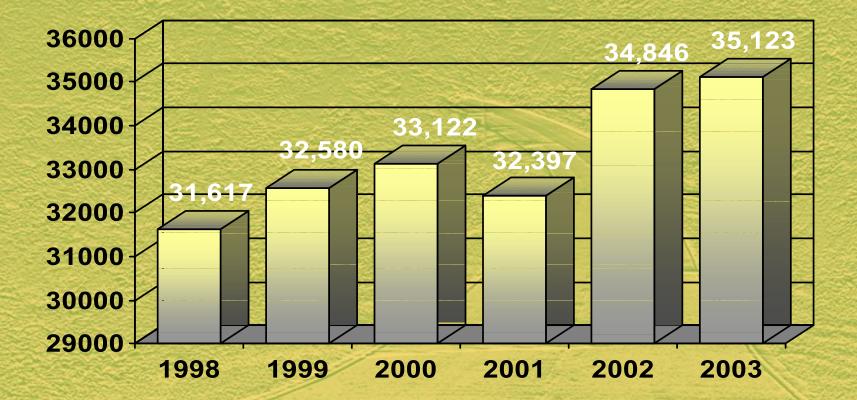
Benefits of the ISMP (2 of 2)

- Comprehensive Safety Plan (strategic, data driven, comprehensive collaborative, integrated)
- Greater safety benefit working together than independently
- Improved road safety, a reduction in both the number and severity of crashes

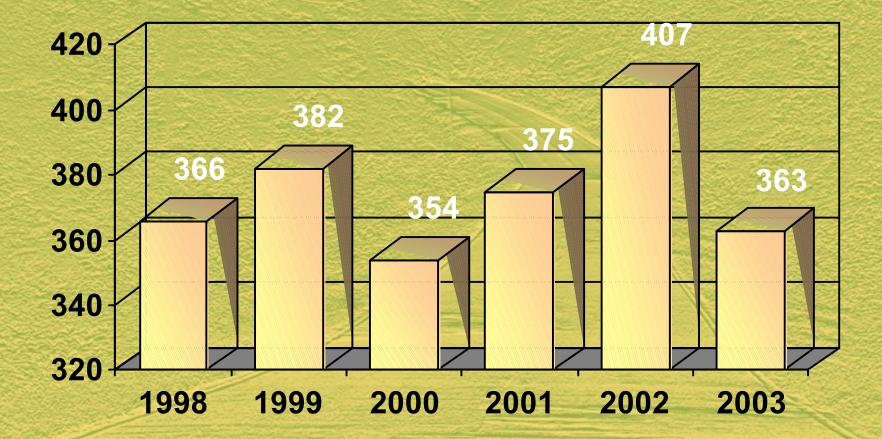
C'RIS'OS

Crash Reduction by Improving Safety on Secondaries

Traffic Collisions on Secondary Roads in South Carolina



Traffic Fatalities on Secondary Roads in South Carolina



CRISOS PROGRAM

- Focuses on safety improvements on federal aid and non-federal aid roads.
- Focuses on low-cost, short term strategies.
- Prioritizes roads based on crash rate, crash severity, and other factors.

CRISOS PROGRAM

 Focuses on safety improvements on federal aid and non-federal aid roads.

Includes a multi-disciplinary approach within SCDOT.

Includes local, community partners from EMS, law enforcement.

Contacts will be made to assist in the site visits.

Legislative Issues

- Primary Seat Belt Legislation
- Strengthened DUI Legislation
- Mini Bottle Legislation
- Increased Funding for Safety Improvement to Highways

Legislative Issues: Primary Seat Belt Legislation

- Crash rates for young people are four times that of older divers
- Fatality ates for young people are two itmes that of older divers
- In SC form 1998 2002, 956 gung people ages 16 24 deid ni cashes
- 707 young people were unbuckled
- Belt sage in SC crashes fo young people at 26%

Terecia Wilson

Director of Safety 803-737-1161

