



National Highway Traffic
Safety Administration

SAE Government / Industry Meeting

Update on NHTSA's Special Crash Investigations Back Over Crashes

February 5, 2009

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National Highway Traffic Safety Administration

Crash Investigation Division

Overview Of Presentation

- **Overview of Special Crash Investigations (SCI)**
- **Backover and Non-Crash Events Activities**
 - ◆ **Data collection**
 - ◆ **Breakdown of investigations**
 - ◆ **Accessing the data**

Overview of SCI

- **Examines safety impact of rapidly changing technologies**
- **Provide the Agency with early detection of alleged or potential vehicle defects**
- **Types of cases investigated include:**
 - **Certified Advanced Compliant Air Bag cases**
 - **School Bus Crashworthiness Investigations**
 - **Vehicles with Adaptive Vehicle Controls**
 - **Not In Traffic cases**
 - **Other vehicle safety issues as requested by the Agency**

Not in Traffic Case Types

- **Seeking incidents in the following areas:**
 - **Back Over**
 - **Backing light passenger vehicle strikes a person from the rear or approaching from the side**
 - **NHTSA focus is children**
 - **Window entrapment**
 - **Child strangled in a window**
 - **Hyper/Hypothermia**
 - **Children left unattended in cold / hot vehicles**
 - **Trunk entrapment**
 - **Children getting locked in a vehicle trunk**
 - **Rollaway**
 - **Vehicle slips out of gear and injures a non occupant**
 - **Carbon monoxide poisoning**
 - **Others as identified**

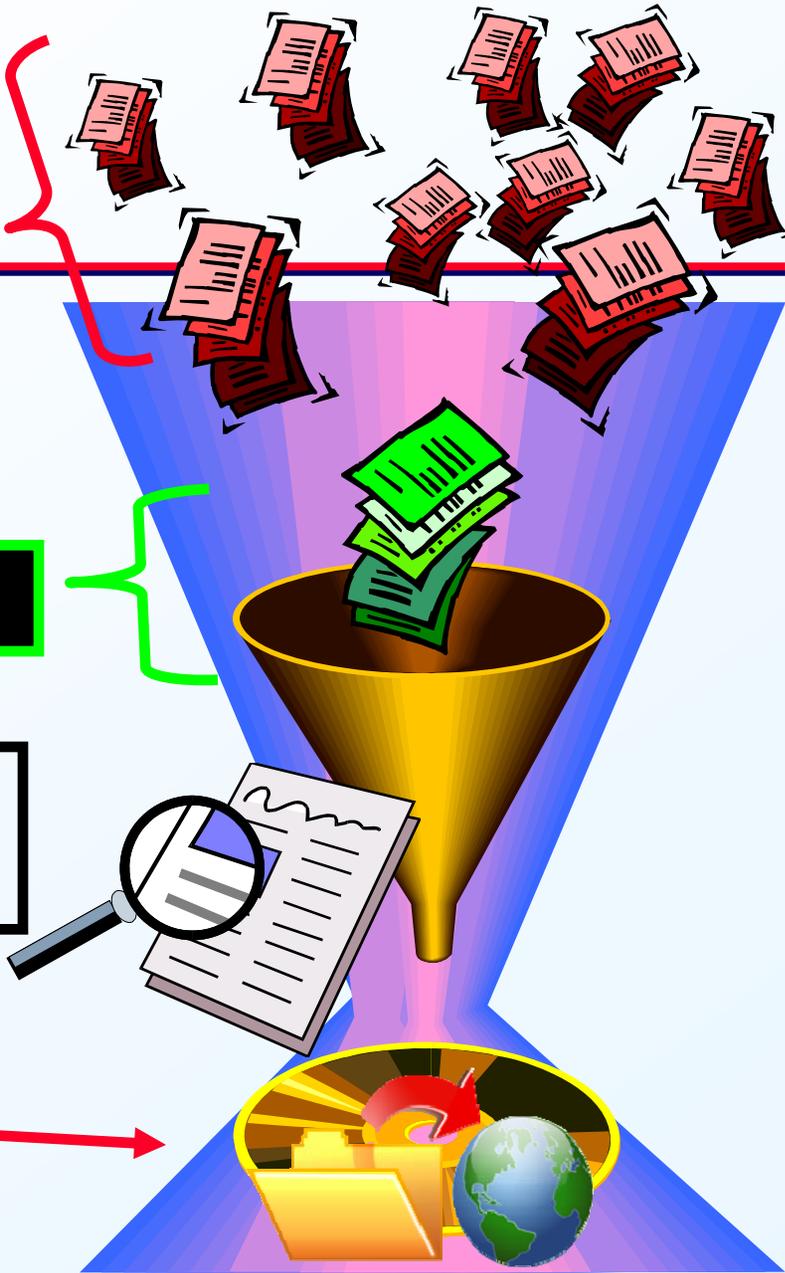
SCI Screening

Notifications

Incidents Pursued

**Initiated
Investigations**

Cases finalized and published



SCI Screening and Status

As of January 27, 2009

**Notifications from
network of sources**



Everything

**Filter out: Heavy Trucks, no
specifics, front over, etc.**

692

Incidents Pursued



**Filter for: Cooperation,
availability of components,
etc.**

246

**Initiated
Investigations**



**Contact, travel, secure
evidence/documents , etc.**

84

**Cases finalized and
published**



**Reviewed by NHTSA ...
AND published to Web**

71

Investigations Breakdown

- **Of the 71 Published Cases:**
 - **Back Over** **56**
 - **Hyperthermia** **8**
 - **Power Window Entrapment** **3**
 - **Trunk Entrapment** **2**
 - **Roll away** **2**

Back Over Breakdown

Vehicles Involved

- **56 Back Over cases comprising:**

- **18 Passenger cars**
- **25 Sport Utility Vehicles or Vans**
- **13 Pickup Trucks**



Back Over Breakdown

Ages

- **Of the 56 Back Over Cases:**
 - **Involved children** **50***
 - **< 1** **1**
 - **1 - 3** **34**
 - **4 - 8** **13**
 - **9 - 13** **2**
 - **Persons > 13** **8**
 - **Unknown** **0**

* Two cases involved two children ages 2, 4, 8 and 9

- **Focus of the Back Over cases is children, however some adults are included if seriously injured or the presence of an OEM (or post-OEM) backing or parking aid**

Back Over Breakdown

Severity

- **Of the 56 Back Over Cases:**
 - **Fatal Outcome 28**
 - **Non-Fatal 26**
(moderate to severe injuries)
 - **Unknown 4**

Note: two case involved two children – two fatal and two non-fatal

Back Over Breakdown

Victim Path

- **Of the 56 Back Over Cases:**
 - **41 are approaching from right or left of vehicle**
 - **10 are stationary (or close to stationary) behind the vehicle, playing behind, etc.**
 - **3 unknown path**
 - **2 Others (riding in hatch, running up to vehicle from behind and fell)**



National Highway Traffic Safety Administration
Our Mission: Save lives, prevent injuries, reduce vehicle-related crashes



What's New: ★ CONSUMER ADVISORY: Chicco recalls bases used in KeyFit and KeyFit 30 Rear-Facing Child

Search NHTSA

Information on ...

Quick Clicks

- Press Room
- Newest Studies and Reports
- Fuel Economy
- Speed-Related Information
- Locate a Child Seat Fitting Station
- Child Seat "Ease of Use" Ratings
- File a Complaint About Your Vehicle or Child Seat
- Recalls, Defects and Complaints Databases

Top Stories

Transportation Sec. Peters Announces Enhanced 5-Star Safety Ratings Program



Transportation Secretary Mary E. Peters and NHTSA Administrator Nicole R. Nason announce enhanced 5-Star Safety Ratings program that will provide consumers with more comprehensive safety information.

[News Release](#) | [Final Notice](#) | [Focus Group Report](#)

Administrator Nason Launches 2008 Click It or Ticket Campaign



Nationwide enforcement, supported by \$7.5 million national advertising campaign, focused on increasing teen seat belt use day and night. New data shows 4,842 teen passenger vehicle occupants died in traffic crashes during 2006.

[News Release](#) | [Kickoff Event Photos](#)

What's New, Latest Updates and Features on Our Site

- ▶ June 26: Statement by Administrator Nason on Adoption of Electronic Stability Control as a Global Technical Regulation
- ▶ DOT Sec. Peters Unveils Nationwide Youth Traffic Safety Campaign Competition
- ▶ 15-Passenger Van Users Urged to Drive with Caution this Summer
- ▶ April 22: New Fuel Economy Standards Proposed for 2011-2015 Passenger Cars and Light Trucks



Motorcycle Safety Awareness Month



File A Complaint

If you believe there is a safety-related

problem with your vehicle or child seat



How Safe is Your Car?

- NCSA Publications
- Available Data
- Data Requests
- Analysis & Statistics
- Crash Research
- State Data Program
- View Case Data**
- Regulatory Analysis
- Regulatory Evaluation
- State Traffic Safety Information (STSI)
- Traffic Records
- National Driver Register
- About NCSA
- Contact NCSA
- HIPAA Info

Quick Clicks

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The National Center for Statistics and Analysis (NCSA), an office of the National Highway Traffic Safety Administration (NHTSA), is responsible for providing a wide range of analytical and statistical support to NHTSA and the highway safety community at large.

Publications and Data Requests

Click the link below to visit our **Customer Automated Tracking System (CATS)** where you will find:

- Traffic Safety Fact Sheets
- FARS/GES Reports
- Research Notes and Crash*Stats
- Technical Reports
- Annual Assessments
- Documentation and Manuals for FARS, GES, and NASS-CDS.

Customers may also leave a customized data request.

▶ [NCSA Publications and Customized Data Requests \(CATS\)](#)



Motorcycle Safety Awareness Month

Share Road

File A Complaint
If you believe there is a safety-related problem with your vehicle or child seat

More On The Web

▶ [Traffic Records Coordinating Committee](#)

Related Links

- ▶ [NCSA Publications, Documentation & Manuals \(CATS\)](#)
- ▶ [FARS, State Data Systems, CODES](#)
- ▶ [FARS, NASS, NMVCC SCI](#)
- ▶ [FARS Web-Based Encyclopedia](#)
- ▶ [SCI Crash Notification Fax Back Form](#)
- ▶ [State Traffic Safety](#)



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NASS Case Viewers

Use the links at right to access individual case information or to select and review scanned paper cases.

Not In Traffic Surveillance (NITS)

Not in Traffic Surveillance incidents can fall into a variety of categories, some are crashes (which occur in private driveways) and some are incidents (occupant getting caught in a power window, hyper/hypothermia, etc.). The SCI program is actively pursuing NITS crashes from its network of sources to provide in-depth information on the particulars of the incident or crash.

[▶ Current NITS Case Totals \(PDF\)](#)

- Related Links**
- [▶ NASS/CDS EDR Reports \(2000-2006\) \(FTP Server\)](#)
 - [▶ NASS/CDS Case Viewer - XML Viewer \(2004-2005 Data\)](#)
 - [▶ NASS/CDS Case Viewer \(1997-2006 Data\)](#)
 - [▶ NASS/CDS Case Viewer - Preliminary Cases \(2007 Data\)](#)
 - [▶ NASS/CDS Scanned Paper Cases](#)
 - [▶ NASS LTCCS Case Viewer](#)
 - [▶ NASS Pedestrian Case Viewer](#)
- More >>

- More On The Web**
- [▶ Not In Traffic Surveillance \(NITS\) Case Viewer](#)



SCI Filter - Microsoft Internet Explorer

File Edit View Favorites Tools Help

Back Forward Stop Refresh Home Search Favorites

Address <http://www-nass.nhtsa.dot.gov/BIN/logon.exe/airmislogon> Go Links SnagIt

Special Crash Investigations Filters



NHTSA is authorized by congress (Volume 489, United States Code Chapter 301 Motor Vehicle Safety, Section 30166, 30168 and Volume 23 , Section 403) to collect information on motor vehicle crashes to aid in the development, implementation and evaluation of motor vehicle and highway safety countermeasures. The law requires the Agency to protect the privacy of individuals involved in crashes investigated. Agency procedure for release, accuracy and security of research data collected under the SCI program prohibit the dissemination of any information collected, assembled, derived or computed until all conditions of data gathering and reporting, case completeness, quality control and privacy have been completed. The cases available through the SCI web query system have met these conditions.

SINGLE CASE SELECTION

Case Number

MULTIPLE CASE SELECTION BASED ON FILTER CRITERIA

<h4>CASE TYPE</h4> <p>Type <input type="text" value="<All>"/></p>	<h4>CRASH</h4> <p>Year <input type="text" value="<All>"/></p> <p>State <input type="text" value="<All>"/></p>
<h4>VEHICLE</h4>	<h4>OCCUPANT</h4>

CASES FROM THE SPECIAL CRASH INVESTIGATION PROGRAM

CASE REPORT STATUS ¹	CRASH DATE	ST	AGE	HT (IN)	WT (LB)	BELT USE	VEHICLE	CHANGE IN VELOCITY (MPH)	PRE-IMPACT BRAKING	INJURY	INJURY SOURCE
	INVEST DATE		SEX								
CA06024 ECASE Available Technical Report	10/2006	VA	49 YR	72	209	Manual Belts not Used	2003 CHEVROLET AVALANCHE	E <6	Unknown	<No rank 1 injuries>	<No rank 1 injuries>
	10/2006		M								
CA06028 ECASE Fatal: Available Technical Report	11/2006	NY	39 YR	Unk	Unk	Unknown if Manual Belts used	2005 CADILLAC ESCALADE ESV	E minor	No	<No rank 1 injuries>	<No rank 1 injuries>
	12/2006		F								
DS06032 ECASE Fatal: Available Technical Report	3/2006	WA	22 YR	62	119	Unknown if Manual Belts used	1990 CHEVROLET C, K, R, V-SERIES PICKUP	E <6	No	Skull fracture NFS	Other exterior surface or tires (specify)
	12/2006		F								

Summary

- **NHTSA will continue to research and provide detailed information on a cross section of backover & non-crash incidents**
- **NHTSA will continue to work with States/jurisdictions to obtain motor vehicle related incident data**
- **SCI contact: SCI@dot.gov**