



U.S. Department of Transportation

National Highway Traffic Safety Administration

Dear Crash Data Researchers/Users:

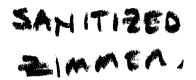
Thank you for choosing crash data from the National Highway Traffic Safety Administration (NHTSA) for your research or other use. The information contained in this motor vehicle crash report is collected, maintained and distributed in accordance with Public Law 89-564. In accordance with this Public Law, NHTSA is required not to release any case information until completion of quality control procedures. These procedures include a review of the case material to extract all names, licenses and registration numbers, non-coded interview material, non-research related researcher comments in the margins, non-factual data, and the production number portion of the vehicle identification number (VIN).

If you requested NHTSA to query its database files in order to identify a specific crash, then that query was made using non-personal descriptors you provided for use in our search. This motor vehicle crash may have been identified from a data search and matches the general, non-personal descriptors you provided, but we cannot confirm that this is the specific crash report you requested.

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TRANSPORTATION SCIENCES CENTER ACCIDENT RESEARCH GROUP

Division of Calspan Corporation



CALSPAN REMOTE AIR BAG DEPLOYMENT INVESTIGATION

CALSPAN CASE NO. 94-29 VEHICLE: 1992 FORD TAURUS LOCATION: MD MD DATE: 1994

Contract No. DTNH22-94-D-07058

Prepared for:

U.S. Department of Transportation National Highway Traffic Safety Administration Washington, D.C.

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The crash investigation process is an inexact science which requires that physical evidence such as skid marks, vehicular damage measurements, and occupant contact points are coupled with the investigator's expert knowledge and experience of vehicle dynamics and occupant kinematics in order to determine the pre-crash, crash, and post-crash movements of involved vehicles and occupants.

Because each crash is a unique sequence of events, generalized conclusions cannot be made concerning the crashworthiness performance of the involved vehicle(s) or their safety systems.

TECHNICAL REPORT STANDARD TITLE PAGE

1. Report No. 94-29	2. Government Accession No.	3. Recipien	t's Catalog No.			
4. Title and Subtitle Calspan Remote Air Bag De	ployment Investigation	5. Report L	5. Report Date: 19956. Performing Organization Code			
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CALSPAN REMOTE AIR BAG DEPLOYMENT INVESTIGATION CALSPAN CASE NO. 94-29

VEHICLE: 1992 FORD TAURUS LOCATION: , MD DATE: 1994

SUMMARY

This remote investigation of an air bag deployment crash focused on the eye injuries sustained by a 6 year old right front occupant of a 1992 Ford Taurus that was equipped with dual driver and passenger side air bags. The frontal area of the Taurus struck the left side of a 1985 Ford Escort as the Escort initiated a U-turn across the Taurus' path of travel. The Taurus underwent a sufficient longitudinal deceleration which deployed the supplemental driver and passenger side air bags. The 73 year old female driver of the Taurus sustained right anterior arm contusions and a right chest contusion from contact with the deployed driver's side air bag. The 6 year old right front passenger was struck in the face by the deploying passenger side air bag and sustained multiple facial abrasions, bilateral eyelid abrasions, bilateral corneal abrasions, traumatic hyphema of the left eye, and bilateral conjunctival hemorrhage. He was transported by ambulance to a local hospital and subsequently transferred to an eye clinic of a major medical center where he was admitted for 5 days for treatment of the eye injuries.

The crash occurred in a mid block area on a five lane state route on during daylight hours. The police report indicated that the road surface was straight, level, and dry with a posted speed limit of 80 km/h (50 mph). Parallel parking was permitted along both edges of the roadway.

The air bag equipped vehicle was a 1992 Ford Taurus GL, 4 door sedan. The vehicle was equipped with the Supplemental Restraint System (SRS) which consisted of the standard driver's side air bag and the optional passenger side air bag. The air bags were combined into a single system and as a result of the crash, the system deployed. The vehicle was identified by the following vehicle identification number (VIN): 1FALP52U3NA.

The driver of the Ford Taurus was a 73 year old female with a stated height of 160 cm (63") and weight of 61 kg (135 lbs.). She was traveling in a southerly direction in the left lane of the state route at an estimated speed of 65 km/h (40 mph). The driver stated that a van type vehicle was parallel parked at the right roadedge with vehicle #2 parked forward of the van. As she approached the parked vehicles, the driver of the Escort accelerated from her parked position and initiated a U-turn across the southbound travel lanes. The driver of the Ford Taurus stated that the parked van obstructed her view of the Ford Escort prior to its departure from its parked position. There was no police reported physical evidence at the scene, however, the driver of the Taurus probably braked in an attempt to avoid the impending crash. It was unknown if the driver of the Ford Escort initiated avoidance action.

The left and center zones of the frontal area of the Ford Taurus impacted the left passenger compartment area of the U-turning Ford Escort. Based on photographs of the damage to the Taurus and the impact configuration, resultant directions of force were within the 12-1 o'clock sectors for the Taurus and probably within the 9-10 o'clock sectors for the struck Ford Escort. The impact resulted in an estimated longitudinal deceleration of 18-21 km/h (11-13 mph) for the Taurus which was sufficient to deploy the vehicle's supplemental driver and passenger air bag system.

As a result of the crash, the Ford Taurus sustained moderate frontal damage. Direct contact damage began at the left front corner and extended approximately 142 cm (56") to the right, ending at a point near the inboard third of the right headlamp assembly. Based on the attached photographs, the left front bumper corner was minimally displaced rearward, however, both bumper energy absorbing units probably fully stroked and returned to their original positions. Damaged components included the front bumper facia, hood, header panel, left turn signal assembly, and the left front fender. The driver of the vehicle reported the vehicle damage repair cost at approximately \$5K.

The driver stated during the interview process that the triangular plastic trim panels that were mounted to the mid instrument panel adjacent to the passenger side air bag module assembly separated from the panel during the deployment and were recovered from the floor of the vehicle post-crash. Based on photographs supplied by the families' attorney and the inspection of an exemplary vehicle, these plastic trim panels were affixed to the mid panel by three spring clips. The left side panel was approximately 28 cm (11") in length and 14.6 cm (5.75") in height adjacent to the air bag module assembly and 3.8 cm (1.5") in height at the left edge. The right side panel was approximately 20.3 cm (8.0") in length and 12.7 cm (5.0") in height adjacent to the right side of the air bag module. These trim panels were repositioned and are depicted in Photograph No. 8.

In addition to the displacement of the right side trim panels, the rear view mirror was separated from its windshield mount by probable contact from the deploying passenger side air bag. The mirror was observed in the attached photographs lying on the front seat cushion with the glass cracked across the length of the mirror. The steering wheel mounted cruise control switches, which were positioned between the spokes of the wheel, separated from the wheel as a result of deployment of the driver's side air bag.

HUMAN FACTORS/OCCUPANT DATA

Driver (Air Bag Vehicle)

Age/Sex: 73 years old female Height: 160 cm (63")

Height: 160 cm (63") Weight: 61 kg (135 lbs.)

Manual Restraint

System Usage: 3-point lap and shoulder belt system

Usage Source: Driver interview, police report

Eyeware: Prescription eyeglasses, slightly deformed, remained on face

Driver (Cont'd):

Vehicle Familiarity:

2 years

Route Familiarity:

Frequent

Mode of Transport

From Scene:

Ambulance

Type of Medical

Treatment:

Treated and release at local hospital

DRIVER INJURIES

Injury	Severity (OIC/AIS)	Injury Mechanism
Contusion of right chest and right breast	Minor (490402.11)	Driver's side air bag
Contusion of the anterior aspect of the right upper arm	Minor (790402.11)	Driver's side air bag

DRIVER KINEMATICS

The driver of the Ford Taurus was in a normal driving posture with the seat adjusted to a mid track position and the tilt steering column set at the center adjustment point. She stated that she was properly restrained by the manual 3-point lap and shoulder belt system.

At impact, the supplemental air bag system deployed and the driver initiated a forward trajectory in response to the frontal impact. She loaded the manual belt webbing and the deploying driver's side air bag which prevented her from contact with frontal components. Her involvement with the deploying air bag resulted in contusions across the right chest and right breast and a contusion of the anterior right upper arm. The driver's face loaded the air bag which deformed her eyeglass frames, however, the eyeglasses remained on her face. She was also wearing a necklace and a watch on her left wrist; both jewelry items remained intact and were not damaged.

The driver came to rest in an upright seated position behind the steering wheel. She glanced over at her grandson who was seated in the right front position and noted injury to his face. The driver remained in the vehicle and waited for emergency personnel to arrive on scene. She and her grandson were transported by ambulance to a local hospital for treatment of their injuries. The driver was released following a brief examination.

Right Front Occupant

Age/Sex:

6 year old male

Height:

114 cm (45")

Weight:

20 kg (45 lbs.)

Manual Restraint

System Usage:

3-point lap and shoulder belt system

Usage Source:

Driver interview

Eyeware:

None

Mode of Transport

from Scene:

Ambulance

Type of Medical

Treatment:

Treated at a local hospital then transferred to an eye clinic where he was

admitted for five (5) days for treatment of his injuries

PASSENGER INJURIES

Injury	Severity (OIC/AIS)	Injury Mechanism
1.5 mm traumatic hyphema of the left eye	Minor (240604.12)	Passenger side air bag
Right corneal abrasion	Minor (240602.11)	Passenger side air bag
Left corneal abrasion	Minor (240602.12)	Passenger side air bag
Bilateral abrasions of the upper and lower eyelids	Minor (297202.11, 297202.12)	Passenger side air bag
Multiple abrasions across both cheeks of the face	Minor (290202.11, 290202.12)	Passenger side air bag
Abrasions across the nose	Minor (290202.14)	Passenger side air bag
Abrasions over the forehead	Minor (290202.17)	Passenger side air bag
Right conjunctival hemorrhage	Minor (240416.11)	Passenger side air bag
Left conjunctival hyperemia with area of subconjunctival hemorrhage temporally	Minor (240416.12)	Passenger side air bag
Left periorbital edema	Minor (297402.12)	Passenger side air bag
Abrasions across both lips	Minor (290202.18)	Passenger side air bag

Right Front Passenger Kinematics

The 6 year old right front occupant of the 1992 Ford Taurus was presumably in a normal seated posture with the seat adjusted to a mid track position. The driver of the vehicle (grandmother) stated that he was properly wearing the manual 3-point lap and shoulder belt system.

Based on the driver estimated pre-impact travel speed of the Taurus and the moderate frontal damage to the vehicle, the driver probably braked in an attempt to avoid the U-turning Ford Escort. As a result of the pre-impact braking, the child passenger possibly responded by moving forward from his pre-event position, thus placing himself closer to the passenger side air bag module.

At impact, the supplemental driver and passenger side air bag deployed. The passenger side air bag fabric contacted the 6 year old child's face as he continued to move forward in response to the frontal impact force. The air bag contact and expansion of the bag across the child's face produced abrasions to the upper and lower eyelids bilaterally, left periorbital edema, and multiple abrasions across both cheeks, nose, lips and forehead. The air bag fabric also produced bilateral corneal abrasions, traumatic hyphema of the left eye, right conjunctival hemorrhage, and left subconjunctival hemorrhage with conjunctival hyperemia.

It was reported by the driver of the vehicle that the plastic trim panels located adjacent to the passenger side air bag module separated from the instrument panel and contacted the child passenger resulting in the injuries identified above. Although these trim panels may have the potential to cause significant injury as they separate during deployment, Calspan does not believe that these panels contributed to the injuries sustained by the child occupant. The facial abrasions and eye injuries sustained by this child are similar to occupants of other cases where the sole injury mechanism was the air bag fabric. It would be suspected that injury caused by the plastic trim panel would be more severe than abrasive type injuries and would probably involve lacerations and facial bone fractures given the rigid construction of the trim panels and the velocity at which the panels could be expelled from the instrument panel.

The child occupant was transported by ambulance to a local hospital where he was examined in the emergency room and was diagnosed with the facial abrasions, right corneal abrasions, left subconjunctival hemorrhage and hyphema. The attending physician noted on the emergency room report that the child occupant's left eye reacted to light. He referred the child to an eye clinic at a major medical facility.

The child was subsequently transferred to the eye clinic by his parents where he was admitted for treatment of the injuries. Upon admission, the ophthalmologist examined the child's eyes and reported that his visual acuity was rated at 20/60 - 20/40 in the right eye, however, the child was only able to briefly count fingers with the left eye at several feet, therefore no acuity range was assigned. The pupils were 3 mm and trace reactive on the right and 4 mm and trace reactive on the left with no definite afferent pupillary defect. Eye pressures were measured by tonometry at 20 on the right and 20-25 on the left side. The ophthalmologist treated the eyes with oral dosages of Amicar which

decreases the risk of post-injury hemorrhage. In addition, he applied *Erythromycin* ointment to both eyes, prescribed *Atropine* 1% twice a day, *Pred Forte* to be administered four times a day to the left eye, and placed a shield over the left eye.

On the day following the injury, the ophthalmologist examined the child and measured the eye pressures at 9-12 in the right eye and 15-16 in the left eye. He reported that the child was able to count fingers with either eye at a distance of five feet.

On the third day following the injury, the ophthalmologist reported the child's vision at 20/60 in the right eye and the ability to detect hand motions at one foot in the left eye. He recorded the left eye pressures at 16-23 by tonometry.

On the fifth day following the injury, the ophthalmologist reported visual acuity at 20/40 - 20/50 in the right eye and 20/300 in the left eye. The left eye pressure was measured at 13-15 while the right eye pressure was not reported. The left eye hyphema was reduced to a diameter of approximately 0.5 mm and the corneal abrasions had resolved. He was discharged from the eye clinic with the left eye shield in place and instructions for quiet activity.

The child occupant's vision had returned to the pre-accident acuity of approximately 20/20 bilaterally, however, it was reported that his left pupil had remained slightly larger than the right and that the eyes are light sensitive. The parents were advised that he has an increased risk of developing glaucoma and additional injury could cause serious damage to the eyes.

"GRAPHIC" PHOTOGRAPHS AND IMAGES

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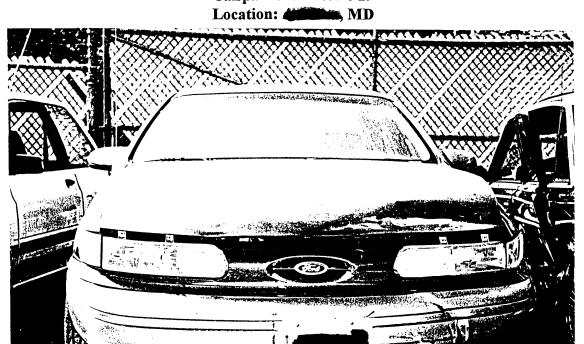
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If you would like a copy of these photographs and/or images please write to:

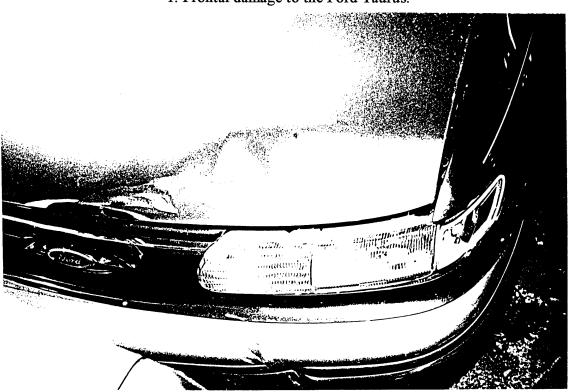
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In the body of your request please include the case, photograph and image number(s).

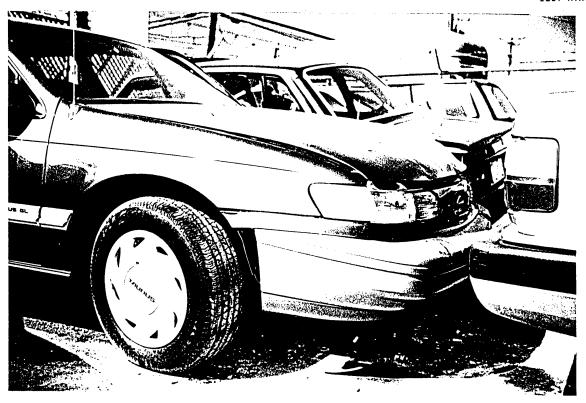
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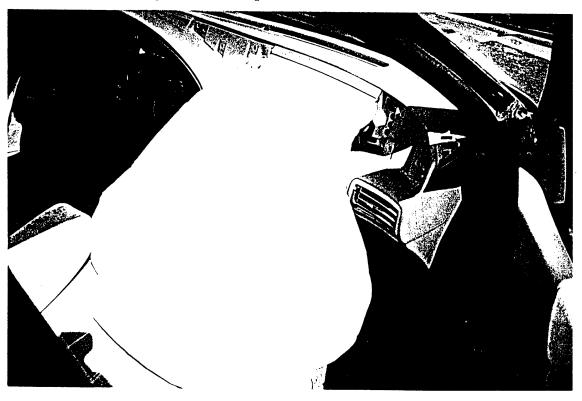
1. Frontal damage to the Ford Taurus.



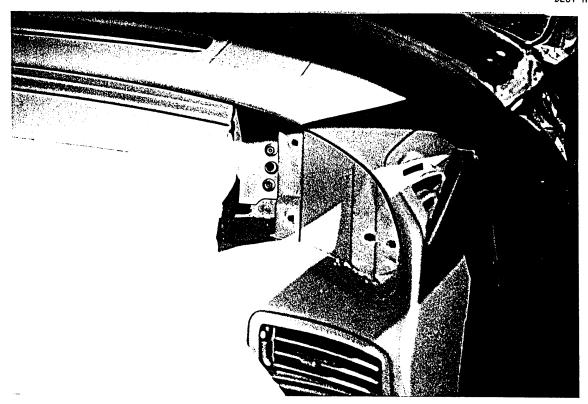
2. Overhead view of the damage at the left front corner area.



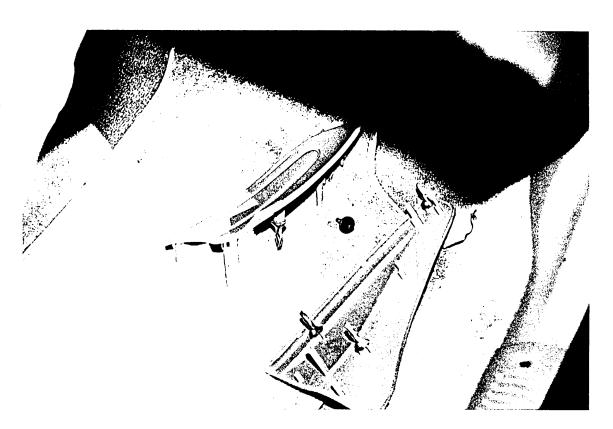
3. Right front three-quarter view of the Ford Taurus.



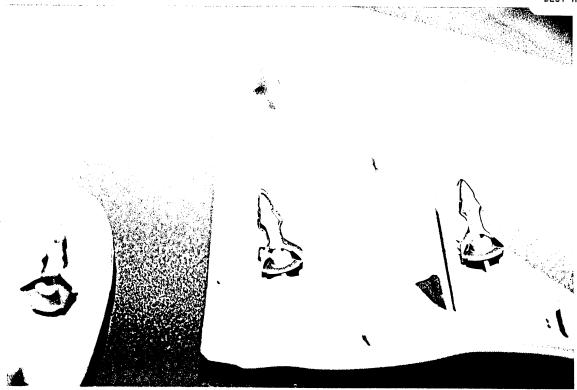
4. Overall interior view of the deployed passenger side air bag and the separated instrument trim panels.



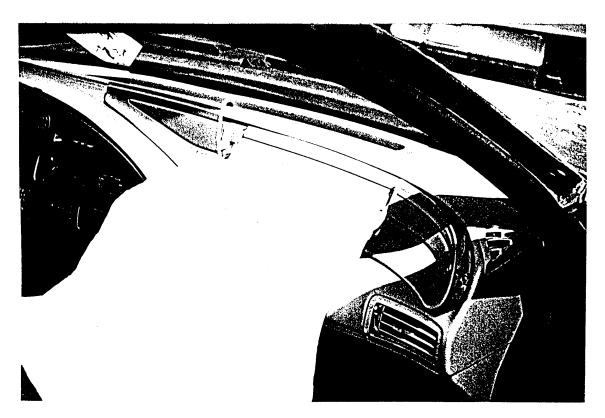
5. Close-up view of the right instrument panel and the separated trim panel.



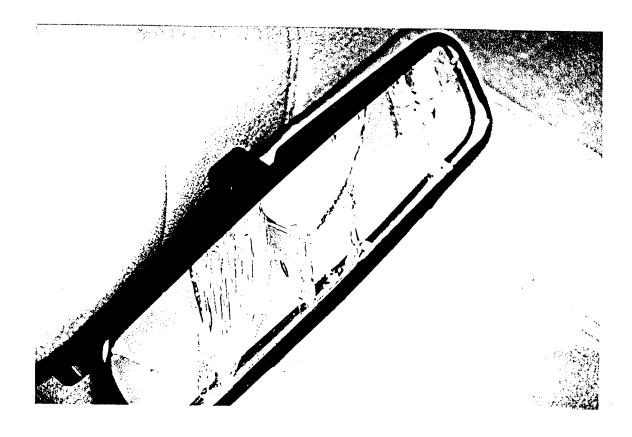
6. Separated trim panels positioned on the right front floor.



7. Push type spring clips which retained the trim panels to the instrument panel.



8. Right instrument panel with trim panels repositioned into their respective locations.



9. Separated and cracked review mirror.

ATTACHMENT B

Police Accident Report

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W West	13 Crash Attenuator	O7 Patigues
N Forth E tast S South W West P Farking Number (Pos. 2)	48 - 8-81 + 201-01-01-01-01-01-01-01-01-01-01-01-01-0	OB Apparently Asleep
Number (Pos. 2)	40 COLLISION TYPE (Veh-to-Veh)	52 BURGTANCE DETECTED
w (Salie w. C till 9)	•	D1 No Substance Detected
R Might Turn	a. `	11 Alcohol Present
L Light Turn A Acceleration	ا خيست ال	12 Illegal Drug Present
D Paceleration	ng - 13 - 4	13 Medication Present
D Gecaleration S Shoulder X Grospover O G1 Road	01 · 4 14 · 4	14 Combined Subst. Present 21 Alcohol Contributed
X Greenver		22 Illegal Drug Contributed
O OF Road	02	23 Medication Contributed
G Core M Nedian	63	24 Combination Contributed
G Core M Median L (Parking) Lot	94	44
	17 - SMOLE VEH	63 TEST ADMINISTERED
24 ROA CONDITION 01 No Defects		01 Test (b) Metused 02 Positive Prelim, Test
01 ND Defects		03 Evidence Test Given
02 Snoulder Defect 03 Holes, Ruts, Etc.	41 LIGHT	
O4 Aprojes Material	01 Daylight	56 PED TYPE
04 Pereign Material 05 Licae Surface Material 06 Costruction Not Lighted	02 Dawn or Duck	01 Pedestrian
OB Costruction Not Lighted	03 Dark: Street Lights On 04 Dark: No Street Lights	02 Bicyclist 03 Other Pedalcyclist
07 Obstruct. Not Signaled	OT DEIK. NO BUTEL LIGHTS	04 Rider of animal
07 Obstruct. Not Signaled 08 View Obstructed	42 WEATHER	05 in animal-drawn vehicle
The state of the s	01 Clear or Cloudy	08 Machine operator/rider
30 ROAD DIVISION	02 Foody	07 Other Conveyance
01 Not Divided 02 Ohs Way Road or Street	03 Figining	87 PED LOCATION
DS Divided: Median strip	04 Snow or Bleet	01 Shoulder
without Barrier	QS Sayere winds	02 Curb
04 Divided: Median strip	45 BEX	03 Bidewalk
with Barrier	01 Male	04 Outside Right of Way
24 RUBBACE CONDITION	D2 Female	05 On Roadway at Crosswalk 05 On Roadway Not at Crswik
34 SURFACE CONDITION	4.4. ****	07 in School Bue Zane
DS FEA	40 HAPURY	08 in Bikeway
03 Show 04 Ida	01 Not injurnished known 02 Possible injury	·
	03 Inj.—not incapacitated	55 PED OBEDIENCE
D5 Nud	64 Disabled (Incapacitates)	01 No pedestrian signal
38 JUNETION RELATIONSHIP	05 Fatel	92 Obeyed pedestrian signal 93 Disobeyed pad. signal
38 JUNETION RELATIONSHIP 01 Non-Intersection		U4 Ped. signal maifunction
Of Imprescion	SO MOYEMENT	-
DE Intersection D3 Intersection Related	Vehicle Movement	59 PED VISIBILITY
04 📭 iveway Accèss	01 Meving Constant Speed	01 Light Clething
	02 Appelerating 03 Slowing or Stopping	02 Dark Clothing
	AA AMANINE OF AMBERIE	
3/ MAMBRUL EVERI-1	04 Starting from Traffic Lane	03 Mixed Olything
37 HARBFUL EVENT-1 30 HARBFUL EVENT-2	04 Starting from Traffic Lane	04 Reflective Material 05 Head Light
Collision With:	04 Starting from Traffic Lane 05 Starting from Parked Pos. 06 Stopped in Traffic Lane	04 Reflective Material 05 Head Light
Collision With:	04 Starting from Traffic Lane 05 Starting from Parked Poa. 08 Stepped in Traffic Lane 07 Changing Lanes	04 Reflective Material 05 Head Light
Collision With: O1 Cher Motor Vehicle In Transport	04 Starting from Traffic Lane 05 Starting from Parked Poa. 06 Stopped in Traffic Lane 07 Changing Lanea 08 Passing	04 Reflective Material 05 Head Light 06 Rear Light Reflector 07 Head Light & Rear Reflect
Collision With: O1 C her Motor Vehicle if Transport	04 Starting from Traffic Lane 05 Starting from Partied Pos. 06 Stopped in Traffic Lane 07 Changing Lanes 08 Passing 09 Parting	04 Reflective Material 05 Head Light 06 Rear Light Reflector 07 Head Light & Rear Reflect 01 DR SAPETY EQUIP DEE
Collision With: O1 Cher Motor Vehicle in Transport O2 Parised Motor Vehicle O3 Padgetrian	04 Starting from Traffic Lane 05 Starting from Partiad Pos. 05 Stepped in Traffic Lane 07 Changing Lanes 08 Passing 09 Parting 10 Partiad 11 Heaking	04 Reflective Material 05 Head Light 06 Rear Light Reflector 07 Head Light a Rear Reflect 61 DR SAPETY EQUIP USE 01 None
Collision With: O1 Cher Motor Vehicle in Transport O2 Parised Motor Vehicle O3 Padgetrian	04 Starting from Traffic Lane 05 Starting from Partiad Pos. 05 Stepped in Traffic Lane 07 Changing Lanes 08 Passing 09 Parting 10 Partiad 11 Heaking	04 Reflective Material 05 Head Light 06 Rear Light Reflector 07 Head Light & Rear Reflect 01 DR SAPETY EQUIP USE 01 None 11 Lee Sett Only 12 Shoulder Beit Only
Collision With: O1 Cher Motor Vehicle if Transport O2 Parked Motor Vehicle O3 Pedestrian D4 acycle O5 Cher Pedeloyole	04 Starting from Traffic Lane 05 Starting from Partied Pos. 08 Stopped in Traffic Lane 07 Changing Lanes 08 Passing 09 Parting 10 Partied 11 Sasking 12 Making Left Turn 13 Making Right Turn	04 Reflective Material 05 Head Light 06 Rear Light Reflector 07 Head Light & Rear Reflect 61 DR SAPETY EQUIP USE 01 None 11 Lee Sett Only 12 Shoulder Belt (e)
Collision With: Of Cher Motor Vehicle if Transport Os Parked Motor Vehicle OS Podestrian O4 acycle O5 Cher Pedsigyols O6 her Conveyance O7 Pallway Train	04 Starting from Traffic Lane 05 Starting from Parked Poa. 08 Stepped in Traffic Lane 07 Changing Lanea 08 Parking 10 Parking 11 Backing 12 Making Left Turn 13 Making Right Turn 14 Making Right Turn	04 Reflective Material 05 Head Light 06 Rear Light Reflector 07 Head Light & Rear Reflect 61 DR SAPETY EQUIP USE 01 None 11 Les Sett Only 12 Shoulder Beit Only 13 Shoulder Alep Beit (s) 14 Child/Youth Restraint
Collision With: Of Cher Motor Vehicle if Transport Os Parked Motor Vehicle OS Podestrian O4 acycle O5 Cher Pedsigyols O6 her Conveyance O7 Pallway Train	04 Starting from Traffic Lane 05 Starting from Partiad Pos. 08 Stepped in Traffic Lane 07 Changing Lanea 08 Passing 09 Partiang 10 Partiad 11 Seeking 12 Making Left Turn 13 Making Right Turn 14 Making Right Turn 15 Making U Turn	04 Reflective Material 05 Head Light 06 Rear Light Reflector 07 Head Light & Rear Reflect 01 None 11 Les Sett Only 12 Shoulder Beit Only 13 Shoulder/Lap Selt (s) 14 Child/Youth Restraint
Collision With: Of Cher Motor Vehicle in Transport Os Parked Motor Vehicle Os Padestrian O4 Ecycle O5 Cher Pedsloycle O6 Cher Conveyance O7 Pallway Train O8 Animal O9 Pade Object	04 Starting from Traffic Lane 05 Starting from Partiad Pos. 08 Stepped in Traffic Lane 07 Changing Lanes 08 Passing 09 Parting 10 Partiad 11 Sasking 12 Making Left Turn 13 Making Right Turn 14 Making Right Turn on Red 15 Making U Turn 18 Skidding	04 Reflective Material 05 Head Light 06 Rear Light Reflector 07 Head Light & Rear Reflect 61 DR SAPETY EQUIP USE 01 None 11 Les Sett Only 12 Shoulder Beit Only 13 Shoulder/Lep Sett (s) 14 Child/You'lt Restraint 81 MC/Bite Helmet 22 MC/Bite Helmet & Shield
Collision With: Of Cher Motor Vehicle if Transport Os Parked Motor Vehicle OS Podestrian O4 acycle O5 Cher Pedsigyols O6 her Conveyance O7 Pallway Train	04 Starting from Traffic Lane 05 Starting from Parked Pos. 08 Stepped in Traffic Lane 07 Changing Lanea 08 Passing 09 Parking 10 Parked 11 Sasking 12 Making Left Turn 13 Making Right Turn 14 Making Right Turn 15 Making Right Turn 16 Making U Turn 17 Driveriess Meving Vehicle	04 Reflective Material 05 Head Light 06 Rear Light Reflector 07 Head Light & Rear Reflect 01 None 11 Les Bett Only 12 Shoulder Beit Only 13 Shoulder/Les Beit (s) 14 Child/Youth Restraint 21 MC/Bike Heimert 22 MC/Bike Heimert & Snield 31 Air Bas (Only)
Collision With: O1 Cher Motor Vehicle if Transport D2 Parked Motor Vehicle O3 Pedestrian D4 a cycle O5 Cher Pedaloyola O6 Cher Conveyance O7 Palway Train O8 Alimai O9 Pked Object 10 Cher Object	04 Starting from Traffic Lane 05 Starting from Parked Pos. 08 Stepped in Traffic Lane 07 Changing Lanes 08 Passing 09 Parking 10 Parked 11 Seeking 12 Making Left Turn 13 Making Right Turn 14 Making Right Turn 15 Making U Turn 16 Skidding 17 Driveriess Moving Vehicle PEO Movament	04 Reflective Material 05 Head Light 06 Rear Light Reflector 07 Head Light & Rear Reflect 61 DR SAPETY EQUIP USE 01 None 11 Les Sett Only 12 Shoulder Beit Only 13 Shoulder/Lep Sett (s) 14 Child/You'lt Restraint 81 MC/Bite Helmet 22 MC/Bite Helmet & Shield
Collision With: Of Cher Motor Vehicle in Transport Of Parked Motor Vehicle Of Padestrian Of Ecycle Of Cher Pedsleyds Of Cher Conveyance Of Pallway Train Of Animal Of Fed Object Non-collision:	04 Starting from Traffic Lane 05 Starting from Parked Pos. 08 Stepped in Traffic Lane 07 Changing Lanes 08 Passing 09 Parked 10 Parked 11 Backing 12 Making Left Turn 13 Making Right Turn 14 Making Right Turn on Rad 15 Making U Turn 16 Skidding 17 Driveriess Meving Vahicle PED Moranack 81 Gross/Enter at Intersection	04 Reflective Material 05 Head Light 06 Rear Light Reflector 07 Head Light & Rear Reflect 61 DR SAPETY EQUIP USE 01 None 11 Les Sett Only 12 Shoulder Beit Only 13 Shoulder/Lep Sett (s) 14 Child/You'ld Restraint 21 MC/Bike Helmet 22 MC/Bike Eye Shield Only 23 MC/Bike Helment & Shield 31 Air Bas (Only) 32 Air Bas & Sett (s)
Collision With: O1 Cher Motor Vehicle in Transport O2 Parked Motor Vehicle O3 Padgetrian O4 Ecycle O5 Cher Pedsleyele O6 Cher Conveyance O7 Pallway Train O8 Animal O9 Pade Object 10 Cher Object Ann-collision:	04 Starting from Traffic Lane 05 Starting from Parked Pos. 08 Stepped in Traffic Lane 07 Changing Lanea 08 Passing 09 Parking 10 Parked 11 Sacking 12 Making Left Turn 13 Making Right Turn 14 Making Right Turn 15 Making U Turn 16 Skidding U Turn 17 Driveriess Meving Vehicle PED Morament 17 Orosa/Enter at Intersection 18 Cross/Enter at Intersection	O4 Reflective Material O5 Head Light O6 Rear Light Reflector O7 Head Light & Rear Reflect 61 DR SAFETY EQUIP USE O1 None 11 Les Belt Only 12 Shoulder Belt Only 13 Shoulder/Les Belt (s) 14 Child/Youth Restraint 21 MC/Bike Helment 22 MC/Bike Eye Shield Only 23 MC/Bike Eye Shield Only 23 MC/Bike (Only) 32 Air Bag & Belt (s) E2 DR EQUIPMENT PROSIZEM
Collision With: O1 Cher Motor Vehicle in Transport D2 Parked Motor Vehicle D3 Pedestrian D4 Ecycle D5 Cher Pedeloyole O6 Cher Conveyance O7 Pallway Train O8 Animal O9 Pked Object 10 Cher Object Annocollision: 11 Cverturn 12 Spilled Cargo	04 Starting from Traffic Lane 05 Starting from Parked Pos. 06 Stepped in Traffic Lane 07 Changing Lanes 08 Passing 09 Parked 11 Backing 10 Parked 11 Backing Left Turn 13 Making Right Turn 14 Making Right Turn on Rad 15 Making U Turn 16 Skidding 17 Driverloss Moving Vehicle PED Morament 51 Orosa/Enter at Intersection 52 Crosa/Enter at Intersection 53 Walking/Riding w/Traffic 54 Walk/Ride Against Traffic	O4 Reflective Material O5 Head Light O6 Rear Light Reflector O7 Head Light & Rear Reflect 61 DR SAPETY EQUIP USE O1 None 11 Les Sett Only 12 Shoulder Beit Only 13 Shoulder/Lap Sett (s) 14 Child/Youth Restraint S1 MC/Bike Heiment 22 MC/Bike Eye Shield Only 23 MC/Bike Eye Shield Only 23 MC/Bike Heiment & Shield 31 Air Bas (Only) 32 Air Bas & Selt (s) B2 DR EQUIPMENT PROBLEM O1 No Mause/Problem (Use OK)
Collision With: O1 Cher Motor Vehicle in Transport D2 Parked Motor Vehicle D3 Pedestrian D4 Ecycle D5 Cher Pedeloyole O6 Cher Conveyance O7 Pallway Train O8 Animal O9 Pked Object 10 Cher Object Annocollision: 11 Cverturn 12 Spilled Cargo	04 Starting from Traffic Lane 05 Starting from Parked Pos. 08 Stopped in Traffic Lane 07 Changing Lanea 08 Passing 09 Parking 10 Parked 11 Seeking 12 Making Left Turn 13 Making Right Turn 14 Making Right Turn 15 Making U Turn 16 Strigding 17 Driveriess Moving Vehicle PEC Morament 07 Walking/Riding w/Traffic 84 Walking/Riding w/Traffic 84 Walking/Riding w/Traffic 85 Playing	04 Reflective Material 05 Head Light 06 Rear Light Reflector 07 Head Light & Rear Reflect 61 DR SAPETY EQUIP USE 01 None 11 Lee Sett Only 12 Shoulder Beit Only 13 Shoulder/Lee Sett (e) 14 Child/Youth Restraint 21 MC/Bike Helmert 22 MC/Bike Eye Shield Only 23 MC/Bike Helmert & Shield 31 Air Bag & Sett (a) DR EQUIPMENT PROSILEM 01 No Misser/Problem (Use OK) 11 Sett (a)/Anohor (c) Broke
Collision With: O1 Cher Motor Vehicle in Transport O2 Parked Motor Vehicle O3 Padgetrian O4 Ecycle O5 Cher Pedsleyele O6 Cher Conveyance O7 Pallway Train O8 Animal O9 Pade Object 10 Cher Object Ann-collision:	04 Starting from Traffic Lane 05 Starting from Parked Pos. 06 Stepped in Traffic Lane 07 Changing Lanes 08 Passing 09 Parked 11 Backing 10 Parked 11 Backing Left Turn 13 Making Right Turn 14 Making Right Turn on Rad 15 Making U Turn 16 Skidding 17 Driverloss Moving Vehicle PED Morament 51 Orosa/Enter at Intersection 52 Crosa/Enter at Intersection 53 Walking/Riding w/Traffic 54 Walk/Ride Against Traffic	O4 Reflective Material O5 Head Light O6 Rear Light Reflector O7 Head Light & Rear Reflect 61 DR SAPETY EQUIP USE O1 None 11 Les Sett Only 12 Shoulder Beit Only 13 Shoulder/Lap Sett (s) 14 Child/Youth Restraint S1 MC/Bike Heiment 22 MC/Bike Eye Shield Only 23 MC/Bike Eye Shield Only 23 MC/Bike Heiment & Shield 31 Air Bas (Only) 32 Air Bas & Selt (s) B2 DR EQUIPMENT PROBLEM O1 No Mause/Problem (Use OK)

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DA K. HON 84-1/2/24 CONTRIB CIRCUMSTANCE 87/88 FIRST/MAIN IMPACT PTS 01 Not ejected; not trapped 02 Fully Ejected Driver/Fed/Cyclist
Under Influence of drugs 90 (VEH) AREAS DAMAGED , # 03 Partially Ejected 1 4 1 7 Under influence: alsohol Under infl. of medication 00 04 Tranped 60 R Under combined influence 2 . 86/70 (DIFFECTION) GOING/CONTINU OF Physical/ment. difficulty OS Fell asisep, fainted, etc. 0 01 North 02 South 1 10 Falled to give full time 03 East 04 W and attention Did not comply with floonee restrictions 17 72 IRREGULAR CONDITION 11 Fall: yield right of way 12 Fall to obey stop sign 13 Fall: obey traffic signal 18 Roof/Tep Truck 01 Commercial 02 Parked Windshield 20 03 Hit & Run 04 Non-Contact 05 Driveriess 14 Fall: obey oth fraf contr 15 Fall: keep right of center 16 Fall: step for sehool bus 17 Wrong way on one way road 18 Exceeded speed limit Underside 23 Overturn (overall) 06 Caught Fire (VEH) DAMAGE EXTENT 01 Ne Damage 02 Superficial or Minor 03 Functional (VEH) BODY TYPE 01 Motorcycle 78 Too fast for conditions 22 Followed too closely 02 Automobile 03 Station Wapon Improper turn Improper lane change (mproper backing Improper passing Improper signal 24 04 Diesbling 04 Limousins 26 05 Destroyed Bingle Truck 2 exles Bingle Truck 3 axles Truck Tractor 68 06 07 27 28 SEAT POSITION Improper parking Interference/Obstruction 01 Driver/MCycle Operator 02 Center Front Seat Truck Tractor
Recreational Vehicle
Farm Vehicle
Transit Bus
Cross Country Bus 08 09 10 25 by passenger
Ped/Crollst ONLY
Illegally in readway
Bioyole violation
Ciothing not visible
Endmoment 03 Right Front Seat 04 Left Rear/MC Passenger 11 05 Center Rear Seat 05 Right Rear Seat 07 Other Seat IN Vehicle School Bus 32 Ambulance/Emergency
Ambulance/Non-Emergency
Fire Vehicle/Emergency 02 In Cargo Area
09 OUTSIDE Vehicle Smog, smoke Steet, hall, freez, rain Fire Vehicle/Non-Emerg 16 Pelice Veh/Emergency -Police Veh/Non-Emerg 17 43 Blowing sand, soil, ditt 44 Severe crosswinds 100 DEX 01 Male 02 Female 19 Maped 46 Bain, snew Pickup Truck Animai Vision ebstruction (incl. 20 VAA 102 SAPETY EQUIPMENT USE bilinded by sun or lights) 01 None 75 COMM SODY TYPE Vehicle Brakes 11 Lap Belt Only 01 Bus 02 Ven/Encl. Box 51 12 Shoulder Belt Only 15 Shoulder/Lap Belt (e) Tires Steering 6.0 Truck-Tractor Cargo Tank Flathed 15 Shoulder/Lap be:: (a)
14 Child/Youth Restraint
21 MC/Bike Heimet
22 MC/Bike Heimet & Shield Only
23 MC/Bike Heimet & Shield
31 Air Bag (Only)
32 Air Bag & Balt (a) 04 06 Lights Windows/windshield 22 Wheel (s) Trailer beupling 06 07 Dump Concrete Mixer 66 57 Aulo Transporter **34** Boad Wet Garbage/Refuse TOS EQUIPMENT PROBLEM Adult/Youth Restraint
Adult/Youth Restraint
1 No Misuse/Problem (Use OK)
1 Beit (a)/Ancher (a) Broke
13 Beit (a) Misused
31 Air Bag Failed to Deploy
Child Restraint
42 Facing Wrong Way
43 Not Anchered Right
44 Ancher Not Secure
45 Not Strapped Right
46 Strap/Tether Loose
47 Size/Type Improper 90 (VRH) MOST HARMFUL EVENT ley or slushy Debris or obstruction 82 Coileion With: Other Motor Vehicle in Transport Ruts, holes, bumps Road under const/maint. Traffic control device M Transport
Parked Motor Vehicle
Padestrian
Bioyole
Other Padalcycle
Other Conveyance \$7 Shoulders low, soft, high is4 (VEH) TOWED VEHICLES
91-1 Semi Trailer
92-1 Semi + 1 Full Trailer
93-1 Full Trailer
94-2 Full Trailers
96-3 Trailers 05 05 Railway Train 30 90 Animal Fixed Object 22.25 10 Other Object 194 PASS INJURY SEVERITY Automobile Utility Trailer Bost Trailer 01 Not injured/not known 02 Possible injury 03 Inj.—net inespecitated Non-collision: Overturn Spilled Cargo 67 64 69 12 Comper Travel/Home Trailer 04 Disabled (Inaspectated) 05 Fata: Jackne 10 able Home Separation of Units Other Non-collision Farm Equipment 105 EJECTION 01 Not ejected; not trapped 02 Fully Ejected 03 Partially Ejected 04 Trapped

State of Maryland Motor Vehicle Accident Report

Detailed brearing the

ATTACHMENT C

NASS Occupant Forms



OCCUPANT ASSESSMENT FORM

Form Approved O.M.B. No. 2127-0021

U.S. Department of Transportation
National Highway Traffic Safety

NATIONAL ACCIDENT SAMPLING SYSTEM
CRASHWORTHINESS DATA SYSTEM

Administration	OCCUPANT'S SEATING
1. Primary Sampling Unit Number	
2. Case Number - Stratum 94-29	10. Occupant's Seat Position
3. Vehicle Number	(11) Left side (12) Middle
4. Occupant Number	(13) Right side (14) Other (specify):
OCCUPANT'S CHARACTERISTICS	(14) Other (specify)(15) On or in the lap of another occupant
5. Occupant's Age Code actual age at time of accident. (00) Less than one year old (specify by month): (97) 97 years and older (99) Unknown	Second Seat (21) Left side (22) Middle (23) Right side (24) Other (specify): (25) On or in the lap of another occupant
6. Occupant's Sex (1) Male (2) Female (9) Unknown	Third Seat (31) Left side (32) Middle (33) Right side (34) Other (specify): (35) On or in the lap of another occupant
7. Occupant's Height	Fourth Seat (41) Left side (42) Middle (43) Right side (44) Other (specify): (45) On or in the lap of another occupant
<u>6</u> <u>3</u> inches X 2.54 = <u>1</u> <u>6</u> <u>O</u> centimeters	(97) In or on unenclosed area (98) Other seat (specify): (99) Unknown
8. Occupant's Weight Code actual weight to the nearest kilogram. (999)Unknown 135 pounds X .4536 = 061 kilograms 9. Occupant's Role (1) Driver (2) Passenger (9) Unknown	11. Occupant's Posture (0) Normal posture Abnormal posture (1) Kneeling or standing on seat (2) Lying on or across seat (3) Kneeling, standing or sitting in front of seat (4) Sitting sideways or turned to talk with another occupant or to look out a rear window (5) Sitting on a console (6) Lying back in a reclined seat position (7) Bracing with feet or hands on a surface in front of seat (8) Other abnormal posture (specify): (9) Unknown

EJECTION	ENTRAPMENT
12. Ejection (0) No ejection (1) Complete ejection (2) Partial ejection (3) Ejection, unknown degree (9) Unknown	15. Medium Status (Immediately Prior To Impact) (O) No ejection (1) Open (2) Closed (3) Integral structure (9) Unknown
13. Ejection Area (0) No ejection (1) Windshield (2) Left front (3) Right front (4) Left rear (5) Right rear (6) Rear (7) Roof (8) Other area (e.g., back of pickup, etc.) (specify): (9) Unknown	16. Entrapment (NOTE: Entrapped means that part of the person was in the vehicle and mechanically restrained; jammed doors and immobilizing injuries by themselves are not sufficient to constitute entrapment.) (0) Not entrapped (1) Entrapped (9) Unknown
14. Ejection Medium (0) No ejection (1) Door/hatch/tailgate (2) Nonfixed roof structure (3) Fixed glazing (4) Nonfixed glazing (specify): (5) Integral structure (8) Other medium (specify):	
(9) Unknown	

RESTRAINT SYSTEM EVALUATION				
17. Manual (Active) Belt System Availability (0) None available (1) Belt removed/destroyed (2) Shoulder belt (3) Lap belt (4) Lap and shoulder belt (5) Belt available—type unknown Integral Belt Partially Destroyed (6) Shoulder belt (lap belt destroyed/removed)	21. Air Bag System Availability/Function (0) Not equipped/not available (1) Air bag Non-functional (2) Air bag disconnected (specify): (3) Air bag not reinstalled (9) Unknown			
(7) Lap belt (shoulder belt destroyed/removed) (8) Other belt (specify): (9) Unknown 18. Manual (Active) Belt System Use (00) None used, not available, or belt removed/destroyed (01) Inoperative (specify): (02) Shoulder belt (03) Lap belt (04) Lap and shoulder belt (05) Belt used—type unknown (08) Other belt used (specify):	22. Air Bag System Deployment (0) Not equipped/not available (1) Air bag deployed during accident (as a result of impact) (2) Air bag deployed inadvertently just prior to accident (3) Air bag deployed, accident sequence undetermined (4) Nondeployed (5) Unknown if deployed (6) Air bag deployed as a result of a noncollision event during accident sequence (e.g., fire, explosion, electrical)			
(12) Shoulder belt used with child safety seat (13) Lap belt used with child safety seat (14) Lap and shoulder belt used with child safety seat (15) Belt used with child safety seat—type unknown (18) Other belt used with child safety seat (specify): (99) Unknown if belt used 19. Proper Use of Manual (Active) Belts (0) None used or not available (1) Belt used properly	(9) Unknown 23. Are There Indications of Air Bag System Failure? (0) Not equipped/not available (1) No (2) Yes (specify): (9) Unknown Note: See Variables 44 through 48 (Page 5) for Information on Automatic Belts			
(2) Belt used properly with child safety seat Belt Used Improperly (3) Shoulder belt worn under arm (4) Shoulder belt worn behind back or seat (5) Belt worn around more than one person (6) Lap belt worn on abdomen (7) Lap belt or lap and shoulder belt used improperly with child safety seat (specify): (8) Other improper use of manual belt system (specify):	24. Police Reported Restraint Use (0) None used (1) Police did not indicate restraint use (2) Shoulder belt (3) Lap belt (4) Lap and shoulder belt (5) Belt used, type not specified (6) Child safety seat (7) Other or automatic restraint (specify): (8) Restrained, type unknown (9) Police indicated "unknown"			
20. Manual (Active) Belt Failure Modes During Accident (0) No manual belt used (1) No manual belt failure(s) (2) Torn webbing (stretched webbing not included) (3) Broken buckle or latchplate (4) Upper anchorage separated (5) Other anchorage separated (specify): (6) Broken retractor (7) Combination of above (specify): (8) Other manual belt failure (specify):	(a) Folice indicated unknown			

	HEAD RESTRAINT AN	D SEAT EVALUATION
25.	Head Restraint Type/Damage by Occupant at This Occupant Position (0) No head restraints (1) Integral—no damage (2) Integral—damaged during accident (3) Adjustable—no damage (4) Adjustable—damaged during accident (5) Add-on—no damage (6) Add-on—damaged during accident (8) Other (specify):	27. Seat Performance (this Occupant Position) (0) Occupant not seated or no seat (1) No seat performance failure(s) (2) Seat adjusters failed (3) Seat back folding locks or "seat back" failed (specify): (4) Seat track/anchors failed (5) Deformed by impact of occupant (6) Deformed by passenger compartment intrusion (specify):
	(9) Unknown	(7) Combination of above (specify):
26.	Seat Type (this Occupant Position)	(8) Other (specify):
	(00) Occupant not seated or no seat (01) Bucket	(9) Unknown
	 (02) Bucket with folding back (03) Bench (04) Bench with separate back cushions (05) Bench with folding back(s) (06) Split bench with separate back cushions (07) Split bench with folding back(s) (08) Pedestal (i.e., column supported) (09) Other seat type (specify): 	
	(10) Box mounted seat (i.e., van type) (99) Unknown	

31. Child Safety Seat Harness Usage O O
32. Child Safety Seat Shield Usage OO
33. Child Safety Seat Tether Usage Note: Options below applicable to Variables OA31-OA33. (00) No child safety seat
Not Designed With Harness/Shield/Tether (01) After market harness/shield/tether added, not used (02) After market harness/shield/tether used (03) Child safety seat used, but no after market harness/shield/tether added (09) Unknown if harness/shield/tether added or used Designed With Harness/Shield/Tether (11) Harness/shield/tether not used (12) Harness/shield/tether used
Unknown if Designed With Harness/Shield/Tether (21) Harness/shield/tether not used (22) Harness/shield/tether used (29) Unknown if harness/shield/tether used (99) Unknown if child safety seat used

	INJURY CONSEQUENCES	38. Working Days Lost OO
34.	Injury Severity (Police Rating)	Code the number of days (up through 60) that the occupant
	(0) O - No injury	lost from work due to the accident
	(1) C - Possible injury	(00) No working days lost
	(2) B - Nonincapacitating injury	(61) 61 days or more
	(3) A - Incapacitating injury	(62) Fatally injured (97) Not working prior to accident
	(4) K - Killed	(99) Unknown
	(5) U - Injury, severity unknown	(00) 0111(10)
	(6) Died prior to accident (9) Unknown	
	(9) Unknown	STOP - GO TO VARIABLE 44 ON PAGE 7
25	Turning Manualia.	VARIABLES 39 THROUGH 43 ARE
J 35.	Treatment - Mortality (0) No treatment	COMPLETED BY THE ZONE CENTER
	(1) Fatal	
	(2) Fatal - ruled disease (specify):	20. Time to Doroth
ļ	(12) Fatal Fata discuss (openiny).	39. Time to Death Code number of hours from time of
		accident to time of death up through 24
	Nonfatal	hours. If time of death is greater than 24
	(3) Hospitalization	hours, code number of days. (Note: 1 day =
l	(4) Transported and released	$31, 2 \text{ days} = 32, \dots \text{ n days} = 30 + \text{n up}$
	(5) Treatment at scene - nontransported	through 30 days = 60)
	(6) Treatment later	(00) Not fatal
	(8) Treatment - other (specify):	(96) Fatal - ruled disease
	(9) Unknown	(99) Unknown
	(o) Chanowh	
	T 0(1) 15 15 15 15 15 15 15 15 15 15 15 15 15	40. 1st Medically Reported Cause of Death
36.	Type Of Medical Facility (for Initial Treatment)	
	(1) Trauma center	41. 2nd Medically Reported Cause of Death OO
	(2) Hospital	42 2rd Madically Bonardad Course of Death
	(3) Medical clinic	42. 3rd Medically Reported Cause of DeathOO
	(4) Physician's office	number(s) for the medically reported
	(5) Treatment later at medical facility	injury(s) which reportedly contributed to
l	(8) Other (specify):	this occupant's death
	(0) 11-1	(00) Not fatal or no additional causes
	(9) Unknown	(96) Mode of death given but specific
		injuries are not linked to cause
37.	Hospital Stay	of death. (specify):
	(00) Not Hospitalized	(97) Other result (includes fatal ruled
ļ	Code the number of days (up through 60)	disease) (specify):
1	that the occupant stayed in hospital.	discase, (specify).
	(61) 61 days or more	(99) Unknown
1	(99) Unknown	
		43. Number of Recorded Injuries for
		This Occupant O 2
1		Code the actual number of
		injuries recorded for this occupant. (00) No recorded injuries
1		(97) Injured, details unknown
		(99) Unknown if injured
1		
1		

	AUTOMATIC BELT SYSTEM		48.	Automatic (Passive) Belt Failure Modes			
	Automatic (Passive) Belt System Availability/ Function (0) Not equipped/not available (1) 2 point automatic belts (2) 3 point automatic belts (3) Automatic belts - type unknown Non-functional (4) Automatic belts destroyed or rendered inoperative (9) Unknown Automatic (Passive) Belt System Use	2		During Accident (0) Not equipped/not available/not in use (1) No automatic belt failure(s) (2) Torn webbing (stretched webbing not included) (3) Broken buckle or latchplate (4) Upper anchorage separated (5) Other anchorage separated (specify): (6) Broken retractor (7) Combination of above (specify): (8) Other automatic belt failure (specify):			
	(0) Not equipped/not available/destroyed or rendered inoperative (1) Automatic belt in use (2) Automatic belt not in use (manually disconnected, motorized track inoperative) (specify): (3) Automatic belt use unknown (9) Unknown		49.	Seat Orientation (this Occupant Position) (0) Occupant not seated or no seat (1) Forward facing seat (2) Rear facing seat (3) Side facing seat (inward) (4) Side facing seat (outward) (8) Other (specify):			
46.	Automatic (Passive) Belt System Type (0) Not equipped/not available (1) Non-motorized system (2) Motorized system (9) Unknown	2		Check the Primary Source Used In Determining Belt Use.			
47.	Proper Use of Automatic (Passive) Belt System (0) Not equipped/not available/not used (1) Automatic belt used properly (2) Automatic belt used properly with child safety seat Automatic Belt Used Improperly (3) Automatic shoulder belt worn under arm (4) Automatic shoulder belt worn behind back (5) Automatic belt worn around more than one person (6) Lap portion of automatic belt worn on abdomen (7) Automatic lap and shoulder belt or automatic shoulder belt used improperly with child safety seat (specify): (8) Other improper use of automatic belt system (specify): (9) Unknown	>		[] Not equipped/not available/destroyed or rendered inoperative [] Vehicle inspection [] Official injury data [
•	ARE ALL APPLICABLE MEDICAL RECO	OR	lDS	INCLUDED NO[] YES[]			
	UPDATE CANDIDATE? NO [] YES []						

STOR WARRANTER FO TURNING FO ARE	BELT USE DETERMINATION
TRAUMA DATA	53. Primary Source of Belt Use Determination (0) Not equipped/not available/destroyed or rendered inoperative (1) Vehicle inspection (2) Official injury data
50. Glasgow Coma Scale (GCS) Score (at Medical Facility) (00) Not injured (01) Injured - not treated at medical facility (02) No GCS Score at medical facility (03-15) Code the actual value of the initial GCS Score recorded at medical facility. (97) Injured, details unknown (99) Unknown if injured	(3) Driver/occupant interview (8) Other (specify): (9) Unknown if belt used
51. Was the Occupant Given Blood? (1) No - blood not given (2) Yes - blood given (specify units): (9) Unknown if blood given	
52. Arterial Blood Gases (ABG) – HCO ₃ (00) Not injured (01) Injured, ABGs not measured or reported (02-50) Code the actual value of theHCO ₃ (96) ABGs reported, HCO ₃ unknown (97) Injured, details unknown (99) Unknown if injured	



U.S. Department of Transportation

National Highway Traffic Safety Administration

OCCUPANT INJURY FORM

Form Approved O.M.B. No. 2127-0021

NATIONAL ACCIDENT SAMPLING SYSTEM CRASHWORTHINESS DATA SYSTEM

1. Primary Sampling Unit Number

2. Case Number - Stratum

94 - 29

4. Occupant Number

0 1

INJURY DATA

Record below the actual injuries sustained by this occupant that were identified from the official and unofficial data sources. Remember not to double count an injury just because it was identified from two different sources. If greater than ten injuries have been documented, encode the balance on the Occupant Injury Supplement.

			A.I.S 90						Injury		Occupant
	Source of Injury Data	Body Region	Type of Anatomic Structure	Specific Anatomic Structure	Level of Injury	A.I.S. Severity	Aspect	Injury Source	Source Confidence Level	Direct/ Indirect Injury	Area Intrusion Number
1st	5. <u>/</u>	6. <u>4</u>	7.9	₃. <u>૦૫</u>	9. <u>O }</u>	10	11. <u>L</u>	12. <u>45</u>	13. <u>L</u>	14. <u> </u>	15. <u>/ / C</u>
2nd	16. <u>7</u>	17. <u>7</u>	18. <u>9</u> 1:	∍. <u>04</u>	20. <u>O L</u>	21	22	23. <u>45</u>	24. <u>l</u> .	25. <u> </u>	26. <u>0</u> 0
3rd	27	28	29 30	o	31	32	33	34	35	36,	37
4th	38	39	404	1	42	43	44	45	46	47. <u> </u>	48
5th	49	50	51 5;	2	53	54	55	56	57	58	59,
6th	60	61	62 6:	3.	64	65	66	67	68	59	70
7th	71.	72	737	4	75	76	77	78	79	30,	81. <u> </u>
8th	82	83	84 8!	5	86	87	88	89	90	91	92
9th	93	94	959	6	97	98	99	100	1011	02 1	03
10th	104	105	10610	7 1	08	109	110	111	112. 1	13. 1	14.

SOURCE OF INJURY DATA OFFICIAL

- (1) Autopsy records with or without hospital/ medical records
- (2) Hospital/medical records other than emergency room (e.g., discharge summary)
- (3) Emergency room records only (including associated X-rays or other lab reports)
- Private physician, walk-in or emergency clinic

UNOFFICIAL

- (5) Lay coroner report
- E.M.S. personnel
- Interviewee
- Other source (specify):
- (9) Police

INJURY SOURCE

FRONT

- (01) Windshield
- (02) Mirror
- (03) Sunvisor
- (04) Steering wheel rim
- (05) Steering wheel hub/spoke (06) Steering wheel (combination of codes 04 and 05)
- (07) Steering column, transmission selector lever, other attachment
- (08) Add on equipment (e.g., CB, tape deck, air conditioner)
- (09) Left instrument panel and below
- Center instrument panel and below (10)
- (11) Right instrument panel and below
- (12) Glove compartment door
- (13) Knee bolster
- (14)Windshield including one or more of the following: front header, A (A1/A2)-pillar, instrument panel, mirror, or steering assembly (driver side only)
- (15) Windshield including one or more of the following: front header, A (A1/A2)-pillar, instrument panel, or mirror (passenger side only)
- (16) Driver side air bag compartment cover
- Passenger side air bag compartment cover
- Windshield reinforced by exterior object (18)(specify):
- (19)Other front object (specify):

LEFT SIDE

- (20) Left side interior surface, excluding hardware or armrests
- Left side hardware or armrest (22) Left A (A1/A2)-pillar
- (23) Left B-pillar
- (24) Other left pillar (specify):

- (25) Left side window glass or frame
- (26) Left side window glass including one or more of the following: frame, window sill, A (A1/A2)-pillar, B-pillar, or roof side rail.
- (27) Other left side object (specify):
- (28) Left side window sill

RIGHT SIDE

- (30) Right side interior surface, excluding hardware or armrests
- Right side hardware or armrest
- (32) Right A (A1/A2)-pillar
- (33) Right B-pillar
- (34) Other right pillar (specify):
- Right side window glass or frame (35)
- (36)Right side window glass including one or more of the following: frame, window sill, A (A1/A2)-pillar, B-pillar, or roof side rail.
- (37) Other right side object (specify):
- (38) Right side window sill

- (40) Seat, back support
- (41) Belt restraint webbing/buckle
- Belt restraint B-pillar or door frame (42)attachment point
- Other restraint system component (specify):
- Head restraint system
- (45)Air bag (use codes "16" and "17" for injuries sustained from air bag compartment covers)
- (46)Other occupants (specify):
- (47)Interior loose objects
- (48)Child safety seat (specify):
- (49) Other interior object (specify):

ROOF

- (50) Front header
- (51)Rear header
- (52)Roof left side rail (53)
- Roof right side rail
- (54)Roof or convertible top

FLOOR

- (56) Floor (including toe pan)
- (57) Floor or console mounted transmission lever, including console
- (58) Parking brake handle
- (59) Foot controls including parking brake

REAR

(60) Backlight (rear window)

- (61) Backlight storage rack, door, etc.
- (62) Other rear object (specify):

EXTERIOR of OCCUPANT'S VEHICLE

- (65) Hood
- (66) Outside hardware (e.g., outside mirror, antenna)
- Other exterior surface or tires (specify):
- Unknown exterior objects

EXTERIOR OF OTHER MOTOR VEHICLE

- (70) Front bumper
- (71) Hood edge
- (72) Other front of vehicle (specify):
- (73) Hood
- (74) Hood ornament
- (75)Windshield, roof rail, A-pillar
- (76)Side surface
- Side mirrors
- Other side protrusions (specify)
- (79) Rear surface
- (80) Undercarriage
- (81) Tires and wheels
- Other exterior of other motor vehicle (82) (specify):
- (83) Unknown exterior of other motor vehicle

OTHER VEHICLE OR OBJECT IN THE **ENVIRONMENT**

- (84) Ground
- (85) Other vehicle or object (specify)
- (86) Unknown vehicle or object

NONCONTACT INJURY

- (90) Fire in vehicle
- (91) Flying glass (92)
- Other noncontact injury source (specify):
- (93) Air bag exhaust gases
- (97) Injured, unknown source

INJURY SOURCE CONFIDENCE LEVEL

- (1)Certain
- (2) Probable
- (3) Possible
- (9) Unknown

DIRECT/INDIRECT INJURY

- Direct contact injury (1)
- Indirect contact injury (2)
- (3) Noncontact injury Injured, unknown source

OCCUPANT INJURY CLASSIFICATION

Body Region

- Head
- Face (3)
- Neck (4) Thorax
- (5) Abdomen
- (6) Spine Upper Extremity
- (8) **Lower Extremity** Unspecified
- Whole Area
- (2) Vessels
- (3) Nerves (4) Organs (includes muscles/ Skeletal (includes joints)

Type of Anatomic Structure

- ligaments)
- Head LOC (6) 191 Skin

(5)

- Specific Anatomic Structure
- Whole Area (02) Skin Abrasion (04) Skin Contusion
- Skin Laceration (OR) Skin - Avulsion
- (10) Amputation Burn
- iani Crush
- (40)Degloving Injury - NFS (50)
- (90) Trauma, other than mechanical

- Length of LOC
- (04, 06, 08) Level of Consciousness
- (10) Concussion

- Cervical Thoracic (02) (04) (06) Lumbar
- Vessels, Nerves, Organs. Bones, Joints are assigned consecutive two digit numbers beginning with 02

Level of Injury

Specific injuries are assigned consecutive two-digit numbers beginning with 02.

To the extent possible, within the organizational framework of the AIS, 00 is assigned to an injury NFS as to severity or where only one injury is given in the dictionary for that anatomic structure. 99 is assigned to any injury NFS as to lesion or severity.

Abbreviated Injury Scale

- Minor injury
- Moderate injury Serious injury
- (2) (3)
- (4) (5) Critical injury
- Maximum (untreatable) (7) Injured, unknown severity

Aspect

- Right
- (2) Left
- Bilateral
- Central Anterior
- (5) (6) (7) Posterior Superior
- (8) Inferior (9) Unknown
- Whole region



OCCUPANT ASSESSMENT FORM

Form Approved O.M.B. No. 2127-0021

NATIONAL ACCIDENT SAMPLING SYSTEM CRASHWORTHINESS DATA SYSTEM

U.S. Department of Transportation National Highway Traffic Safety Administration

annie de teat	OCCUPANT'S SEATING
1. Primary Sampling Unit Number	10. Occupant's Seat Position
2. Case Number - Stratum 94-29	Front Seat
3. Vehicle Number Ol	(11) Left side (12) Middle
4. Occupant Number	(13) Right side
OCCUPANT'S CHARACTERISTICS	(14) Other (specify):(15) On or in the lap of another occupant
5. Occupant's Age Code actual age at time of accident. (00) Less than one year old (specify by month): (97) 97 years and older (99) Unknown	Second Seat (21) Left side (22) Middle (23) Right side (24) Other (specify): (25) On or in the lap of another occupant
6. Occupant's Sex (1) Male (2) Female (9) Unknown	Third Seat (31) Left side (32) Middle (33) Right side (34) Other (specify): (35) On or in the lap of another occupant
7. Occupant's Height Code actual height to the nearest centimeter. (999) Unknown	Fourth Seat (41) Left side (42) Middle (43) Right side (44) Other (specify): (45) On or in the lap of another occupant
<u>4</u> <u>5</u> inches X 2.54 = <u>l l 4</u> centimeters	(97) In or on unenclosed area (98) Other seat (specify): (99) Unknown
8. Occupant's Weight Code actual weight to the nearest kilogram. (999)Unknown OTE pounds X .4536 = ORO kilograms 9. Occupant's Role (1) Driver (2) Passenger (9) Unknown	11. Occupant's Posture (0) Normal posture Abnormal posture (1) Kneeling or standing on seat (2) Lying on or across seat (3) Kneeling, standing or sitting in front of seat (4) Sitting sideways or turned to talk with another occupant or to look out a rear window (5) Sitting on a console (6) Lying back in a reclined seat position (7) Bracing with feet or hands on a surface in front
, , , , , , , , , , , , , , , , , , , ,	of seat (8) Other abnormal posture (specify): (9) Unknown

		EJECT	ION/E	NTRAPMENT
		and the state of t	ా ఈంచ్రాలో ఇక్	
12.		ition	<u>o.</u>	15. Medium Status (Immediately Prior To Impact)
		No ejection	, e	(0) No ejection
		Complete ejection Partial ejection		(1) Open
		Ejection, unknown degree		(2) Closed
		Unknown		(3) Integral structure (9) Unknown
			_	
13.		ction Area	0	16. Entrapment
		No ejection Windshield		(NOTE: Entrapped means that part of the
		Left front		person was in the vehicle and mechanically restrained; jammed doors and immobilizing
		Right front	(9) - 4	injuries by themselves are not sufficient to
		Left rear		constitute entrapment.)
		Right rear Rear		(0) Not entrapped
		Roof		(1) Entrapped (9) Unknown
	(8)	Other area (e.g., back of pickup, etc.)		(a) Olikilowii
	/ 0\	(specify):		
	(9)	Unknown		
		$\mathcal{T}(\mathbf{w}_{\mathbf{k}}^{(i)}) = (-1)^{i} \mathcal{T}(\mathbf{w}_{\mathbf{k}}^{(i)}) + (-1)^{i} \mathcal{T}(\mathbf{w}_{\mathbf{k}}^{(i)}) = (-1)^{i} \mathcal{T}(\mathbf{w}_{\mathbf{k}}^{(i)})$		
14.		ction Medium	0	
		No ejection Door/hatch/tailgate		
		Nonfixed roof structure	15	
		Fixed glazing		
	(4)	Nonfixed glazing (specify):		
	(5)	Integral structure		er i s
		Other medium (specify):		
	/0 \	T-1		
	(9)	Unknown		A. W. C.
			· · ·	
				·
		en e		
1				
2				

RESTRAINT SYST	EM EVALUATION
17. Manual (Active) Belt System Availability (0) None available (1) Belt removed/destroyed (2) Shoulder belt	21. Air Bag System Availability/Function (0) Not equipped/not available (1) Air bag
(3) Lap belt(4) Lap and shoulder belt(5) Belt available—type unknown	Non-functional (2) Air bag disconnected (specify):
Integral Belt Partially Destroyed (6) Shoulder belt (lap belt destroyed/removed) (7) Lap belt (shoulder belt destroyed/removed)	(3) Air bag not reinstalled (9) Unknown
(8) Other belt (specify):	22. Air Bag System Deployment (0) Not equipped/not available
(9) Unknown	(1) Air bag deployed during accident (as a result of impact)
18. Manual (Active) Belt System Use (00) None used, not available, or belt removed/destroyed	 (2) Air bag deployed inadvertently just prior to accident (3) Air bag deployed, accident sequence undetermined
(01) Inoperative (specify): (02) Shoulder belt	(4) Nondeployed (5) Unknown if deployed
(03) Lap belt (04) Lap and shoulder belt (05) Belt used—type unknown (08) Other belt used (specify):	(6) Air bag deployed as a result of a noncollision event during accident sequence (e.g., fire, explosion, electrical) (9) Unknown
 (12) Shoulder belt used with child safety seat (13) Lap belt used with child safety seat (14) Lap and shoulder belt used with child safety seat (15) Belt used with child safety seat—type unknown 	23. Are There Indications of Air Bag System Failure? (0) Not equipped/not available
(18) Other belt used with child safety seat (specify): (99) Unknown if belt used	(1) No (2) Yes (specify):
	(9) Unknown
19. Proper Use of Manual (Active) Belts (0) None used or not available (1) Belt used properly (2) Belt used properly with child safety seat	Note: See Variables 44 through 48 (Page 5) for Information on Automatic Belts
Belt Used Improperly (3) Shoulder belt worn under arm (4) Shoulder belt worn behind back or seat (5) Belt worn around more than one person (6) Lap belt worn on abdomen (7) Lap belt or lap and shoulder belt used improperly with child safety seat (specify):	24. Police Reported Restraint Use (0) None used (1) Police did not indicate restraint use (2) Shoulder belt (3) Lap belt (4) Lap and shoulder belt
(8) Other improper use of manual belt system (specify):	(5) Belt used, type not specified(6) Child safety seat(7) Other or automatic restraint (specify):
(9) Unknown	(8) Restrained, type unknown (9) Police indicated "unknown"
20. Manual (Active) Belt Failure Modes During Accident (0) No manual belt used (1) No manual belt failure(s) (2) Torn webbing (stretched webbing not included) (3) Broken buckle or latchplate (4) Upper anchorage separated (5) Other anchorage separated (specify): (6) Broken retractor (7) Combination of above (specify):	
(8) Other manual belt failure (specify):	
(9) Unknown	1

HEAD RESTRAINT AN	D SEAT EVALUATION
	D SEAT EVALUATION
25. Head Restraint Type/Damage by Occupant at This Occupant Position (0) No head restraints (1) Integral—no damage (2) Integral—damaged during accident (3) Adjustable—no damage (4) Adjustable—damaged during accident (5) Add-on—no damage (6) Add-on—damaged during accident (8) Other (specify):	27. Seat Performance (this Occupant Position) (0) Occupant not seated or no seat (1) No seat performance failure(s) (2) Seat adjusters failed (3) Seat back folding locks or "seat back" failed (specify): (4) Seat track/anchors failed (5) Deformed by impact of occupant (6) Deformed by passenger compartment intrusion (specify): (7) Combination of above (specify):
	(8) Other (specify):
26. Seat Type (this Occupant Position) 9 9 9 9	(9) Unknown
(01) Bucket (02) Bucket with folding back	
(03) Bench (04) Bench with separate back cushions (05) Bench with folding back(s) (06) Split bench with separate back cushions (07) Split bench with folding back(s) (08) Pedestal (i.e., column supported)	
(09) Other seat type (specify):	
(10) Box mounted seat (i.e., van type) (99) Unknown	

	CHILD SAF	ETY SEAT
28.	Child Safety Seat Make/Model (000) No child safety seat Applicable codes are found in your NASS CDS	31. Child Safety Seat Harness Usage <u>Ö</u>
	Data Collection, Coding and Editing (950) Built-in child safety seat (997) Other make/model (specify):	32. Child Safety Seat Shield Usage
	(998) Unknown make/model	33. Child Safety Seat Tether UsageO_O_
	(999) Unknown if child safety seat used	Note: Options below applicable to Variables OA31-OA33. (00) No child safety seat
29.	Type of Child Safety Seat (0) No child safety seat (1) Infant seat (2) Toddler seat (3) Convertible seat (4) Booster seat (7) Other type child safety seat (specify): (8) Unknown child safety seat type	Not Designed With Harness/Shield/Tether (01) After market harness/shield/tether added, not used (02) After market harness/shield/tether used (03) Child safety seat used, but no after market harness/shield/tether added (09) Unknown if harness/shield/tether added or used
	(9) Unknown if child safety seat used	Designed With Harness/Shield/Tether (11) Harness/shield/tether not used (12) Harness/shield/tether used (19) Unknown if harness/shield/tether used
30.	Child Safety Seat Orientation (00) No child safety seat Designed for Rear Facing for This Age/Weight	Unknown If Designed With Harness/Shield/Tether (21) Harness/shield/tether not used (22) Harness/shield/tether used
	(01) Rear facing(02) Forward facing(08) Other orientation (specify):	(29) Unknown if harness/shield/tether used (99) Unknown if child safety seat used
	(09) Unknown orientation	
	Designed For Forward Facing for This Age/Weight (11) Rear facing (12) Forward facing	
	(18) Other orientation (specify):	
	(19) Unknown orientation	
	Unknown Design or Orientation For This Age/Weight, or Unknown Age/Weight (21) Rear facing (22) Forward facing (28) Other orientation (specify):	
	(29) Unknown orientation	
	(99) Unknown if child safety seat used	
1		

	INJURY CONSEQUENCES	38. Working Days Lost O O
34.	Injury Severity (Police Rating)	Code the number of days (up through 60) that the occupant
	(0) O - No injury	lost from work due to the accident
	(1) C - Possible injury	(00) No working days lost
	(O) D. Mantagarantastan tatum	(61) 61 days or more
	(3) A - Incapacitating injury NOT REPORTED	(62) Fatally injured (97) Not working prior to accident
	(4) K - Killed	(99) Unknown
	(5) U - Injury, severity unknown	
	(6) Died prior to accident (9) Unknown	CTOD ON TO VARIABLE AS ON DAGE 7
	(a) Children	STOP - GO TO VARIABLE 44 ON PAGE 7
		VARIABLES 39 THROUGH 43 ARE
35.	Treatment - Mortality 3	COMPLETED BY THE ZONE CENTER
	(0) No treatment (1) Fatal	
	(2) Fatal - ruled disease (specify):	39. Time to Death
	(2) Tatal Toled discuse (specify).	39. Time to Death Code number of hours from time of
		accident to time of death up through 24
	Nonfatal	hours. If time of death is greater than 24
	(3) Hospitalization	hours, code number of days. (Note: 1 day =
	(4) Transported and released (5) Treatment at scene - nontransported	$31, 2 \text{ days} = 32, \dots \text{n days} = 30 + \text{n up}$
	(6) Treatment later	through 30 days = 60)
	(8) Treatment - other (specify):	(00) Not fatal (96) Fatal - ruled disease
		(99) Unknown
	(9) Unknown	, , , , , , , , , , , , , , , , , , , ,
36.	Type Of Medical Facility (for Initial Treatment) (40. 1st Medically Reported Cause of DeathO
	(0) Not treated at a medical facility	41. 2nd Medically Reported Cause of Death OO
Ì	(1) Trauma center	The Misdistry Reported States of Beath
	(2) Hospital	42. 3rd Medically Reported Cause of DeathO O
	(3) Medical clinic (4) Physician's office	Code the Occupant Injury from line
	(5) Treatment later at medical facility	number(s) for the medically reported
	(8) Other (specify):	injury(s) which reportedly contributed to this occupant's death
		(00) Not fatal or no additional causes
	(9) Unknown	(96) Mode of death given but specific
		injuries are not linked to cause
37.	Hospital Stay	of death. (specify):
	(00) Not Hospitalized	(97) Other result (includes fatal ruled
	Code the number of days (up through 60)	disease) (specify):
	that the occupant stayed in hospital.	Coosto, (oponi,)
	(61) 61 days or more	(99) Unknown
	(99) Unknown	
		43. Number of Recorded Injuries for
		This Occupant 1 3
		Code the actual number of
		injuries recorded for this occupant.
		(00) No recorded injuries
		(97) Injured, details unknown
		(99) Unknown if injured
1		

	ALITOMATIC PELT SYSTEM			
44.	AUTOMATIC BELT SYSTEM Automatic (Passive) Belt System Availability/ Function (0) Not equipped/not available (1) 2 point automatic belts (2) 3 point automatic belts (3) Automatic belts - type unknown Non-functional (4) Automatic belts destroyed or rendered incongrative	0	48.	Automatic (Passive) Belt Failure Modes During Accident (0) Not equipped/not available/not in use (1) No automatic belt failure(s) (2) Torn webbing (stretched webbing not included) (3) Broken buckle or latchplate (4) Upper anchorage separated (5) Other anchorage separated (specify): (6) Broken retractor (7) Combination of above (specify):
45	inoperative (9) Unknown	~		(8) Other automatic belt failure (specify): (9) Unknown
45.	Automatic (Passive) Belt System Use (0) Not equipped/not available/destroyed or rendered inoperative (1) Automatic belt in use (2) Automatic belt not in use (manually disconnected, motorized track inoperative) (specify): (3) Automatic belt use unknown (9) Unknown	0	49.	Seat Orientation (this Occupant Position) (0) Occupant not seated or no seat (1) Forward facing seat (2) Rear facing seat (3) Side facing seat (inward) (4) Side facing seat (outward) (8) Other (specify):
46.	Automatic (Passive) Belt System Type (0) Not equipped/not available (1) Non-motorized system (2) Motorized system (9) Unknown	0		(3) Olikilowii
				Check the Primary Source Used In Determining Belt Use.
47.	Proper Use of Automatic (Passive) Belt System (0) Not equipped/not available/not used (1) Automatic belt used properly (2) Automatic belt used properly with child safety seat	0		 [] Not equipped/not available/destroyed or rendered inoperative [] Vehicle inspection [] Official injury data [⋈ Driver/occupant interview [] Other (specify):
	Automatic Belt Used Improperly (3) Automatic shoulder belt worn under arm (4) Automatic shoulder belt worn behind back (5) Automatic belt worn around more than one person (6) Lap portion of automatic belt worn on abdomen			[] Unknown if belt used
	(7) Automatic lap and shoulder belt or automatic shoulder belt used improperly with child safety seat (specify):			
	(8) Other improper use of automatic belt system (specify):(9) Unknown	n		
	ARE ALL APPLICABLE MEDICAL REC	COF	≀DS	INCLUDED NO[] YES[]
	UPDATE CANDIDAT	Γ Ε ?		NO[] YES[]

STOP - VARIABLES 50 THROUGH 53 ARE	BELT USE DETERMINATION
STOP - VARIABLES 50 THROUGH 53 ARE COMPLETED BY THE ZONE CENTER TRAUMA DATA	53. Primary Source of Belt Use Determination (0) Not equipped/not available/destroyed or rendered inoperative (1) Vehicle inspection
50. Glasgow Coma Scale (GCS) Score (at Medical Facility) (00) Not injured	(2) Official injury data (3) Driver/occupant interview (8) Other (specify): (9) Unknown if belt used
 (01) Injured - not treated at medical facility (02) No GCS Score at medical facility (03-15) Code the actual value of the initial GCS Score recorded at medical facility. (97) Injured, details unknown 	
(99) Unknown if injured	
51. Was the Occupant Given Blood? (1) No - blood not given (2) Yes - blood given	
(specify units):(9) Unknown if blood given	
52. Arterial Blood Gases (ABG) – HCO ₃ (00) Not injured (01) Injured, ABGs not measured or reported (02-50) Code the actual value of theHCO ₃ (96) ABGs reported, HCO ₃ unknown (97) Injured, details unknown	
(99) Unknown if injured	

U.S. Department of Transportation

2. Case Number - Stratum-

National Highway Traffic Safety Administration

OCCUPANT INJURY FORM

Form Approved O.M.B. No. 2127-0021

NATIONAL ACCIDENT SAMPLING SYSTEM CRASHWORTHINESS DATA SYSTEM

1. Primary Sampling Unit Number		3.	Vehicle	Number

4. Occupant Number

01

INJURY DATA

Record below the actual injuries sustained by this occupant that were identified from the official and unofficial data sources. Remember not to double count an injury just because it was identified from two different sources. If greater than ten injuries have been documented, encode the balance on the Occupant Injury Supplement.

		A.I.S 90							e e	-	Injury		Occupant
	Source of Injury Data	Body Region	Type of Anatomic Structure	Specific Anatomic Structure		Level of Injury	A.I.S. Severity	Aspect		Injury Source	Source Confidence Level	Direct/ Indirect Injury	Area Intrusion Number
1st	5. <u>2</u>	6. <u>2</u>	7. <u>५</u> 8	- <u>06</u>	9.	<u>04</u>	10. <u>l</u>	11. 2	12.	<u>45</u>	131	4. <u>1</u>	15. <u>00</u>
2nd	16. <u>2</u>	17. <u>2</u>	18. <u>Ч</u> 19	. <u>06</u>	20.	<u>02</u> .	21. <u>l</u>	22. <u> </u>	23.	<u>45</u>	24. <u>l</u> 2	25. <u> </u>	_{26.} <u>0</u> 0
3rd	27.2	28. <u>2</u> :	29. <u>Ч</u> 30	. <u>0 6</u>	31.	<u>01</u>	32. <u> </u>	33. <u>2</u>	34.	<u>45</u>	35, <u>l</u> :	s6. <u>1</u>	_{37.} <u>0</u> 0
4th	38. <u>2</u>	39. <u>2</u>	40. <u>9</u> 41	. <u>72</u>	42.	<u>02</u>	43. <u></u>	44. <u> </u>	45.	<u>45</u>	46. <u>l</u> 4	17. <u>l</u>	48. <u>00</u>
5th	49. <u>2</u>	50. <u>2</u> 1	51. <u>9</u> - 52	. <u>7.2</u>	53.	<u>02</u>	64. <u> </u>	55. <u>2</u>	56.	<u> ५८</u>	57. <u> </u>	58. <u>L</u>	_{59.} <u>00</u>
6th	60. 2	61. <u>2</u>	62. <u>9</u> 63	. <u>02</u>	64.	<u>0</u> 3	65. <u>1</u>	66. <u>Y</u>	67.	<u>45</u>	68. <u>1</u> 6	39. <u> </u>	70. <u>O P</u>
7th	71. <u>2</u>	72. <u>2</u>	73. <u>9</u> 74	. <u>02</u>	75.	<u>02</u>	76. <u>l</u>	77. <u>T</u>	78.	<u>45</u>	79. <u> </u>	30. <u>l</u>	81. <u>00</u>
8th	82. <u>1</u>	83. <u>A</u>	84. <u>4</u> 85	. <u>04</u>	86.	16	87. <u>l</u>	88. <u> </u>	89.	<u>45</u>	90. <u> </u> \$	1. <u>l</u>	92. <u>O D</u>
9th	93. <u>2</u>	94. <u>2</u>	95. <u>4</u> 96	. <u>04</u>	97.	<u>16</u>	98. <u>l</u>	99. <u>2</u>	100.	45	101, 10)2. <u>l </u>	03. <u>D D</u>
10th	104. 2 1	105. <u>2</u> 10	06. <u>9</u> ` 107	. <u>74</u>	108.	<u>0</u> 2	109. <u> </u>	110. <u>2</u>	111.	<u>45</u>	112. <u>l</u> 11	13. <u> </u>	14. <u>00</u>

OCCUPANT INJURY DATA											
	Source of Injury Data	Body Region	Type of Anatomic Structure	A.I.S 90 Specific Anatomic Structure	Level of Injury	A.I.S. Severity	Aspect	Injury Source	Injury Source Confidence Level	Direct/ Indirect Injury	Occupant Area Intrusion Number
11th	<u>a</u>	<u>2</u>	9_	<u>02</u>	<u>02</u>	<u>.1</u>	1	45		1	00
12th	2	2	<u>9</u>	<u>07</u>	02	_1	2	<u>45</u>	<u>1</u>	<u>.1</u>	00
13th	2	<u>2</u>	<u>9</u>	<u>01</u>	<u>02</u>	<u></u>	8	<u>45</u>	<u>.l</u>	<u>.1</u>	00
14th											
15th			<u></u>				—	<u></u>	<u></u>		
16th			—				<u></u>		_		
17th									_		
18th	_	_					_		_		——
19th		_	_		——	—	—		_	—	
20th	<u></u>		_						<u></u>		
21st		—							_		
22 nd	<u></u>		—				<u></u>			<u>-</u>	
23rd	<u>—</u>								_		
24th		_				—					
25th	<u> </u>								_	_	

SOURCE OF INJURY DATA

OFFICIAL

- (1) Autopsy records with or without hospital/ medical records
- Hospital/medical records other than emergency room (e.g., discharge summary)
- (3) Emergency room records only (including associated X-rays or other lab reports)
- Private physician, walk-in or emergency

UNOFFICIAL.

- (5) Lay coroner report
- (6) E.M.S. personnel
- (7) Interviewee
- Other source (specify):
- (9) Police

INJURY SOURCE

- (01) Windshield
- (02) Mirror
- (03) Sunvisor
- (04) Steering wheel rim
- (05) Steering wheel hub/spoke
- (06) Steering wheel (combination of codes 04 and 05)
- (07) Steering column, transmission selector lever, other attachment
- (08) Add on equipment (e.g., CB, tape deck, air conditioner)
- (09) Left instrument panel and below
- (10) Center instrument panel and below
- (11) Right instrument panel and below (12) Glove compartment door
- (13) Knee bolster
- (14) Windshield including one or more of the following: front header, A (A1/A2)-pillar, instrument panel, mirror, or steering assembly (driver side only)
- (15) Windshield including one or more of the following: front header, A (A1/A2)-pillar, instrument panel, or mirror (passenger side only)
- Driver side air bag compartment cover
- Passenger side air bag compartment cover Windshield reinforced by exterior object
 - (specify):
- (19) Other front object (specify):

LEFT SIDE

- (20) Left side interior surface,
- excluding hardware or armrests (21) Left side hardware or armrest
- (22) Left A (A1/A2)-pillar
- (23) Left B-pillar
- (24) Other left pillar (specify):

- (25) Left side window glass or frame
- (26) Left side window glass including one or more of the following: frame, window sill, A (A1/A2)-pillar, B-pillar, or roof side rail.
- (27) Other left side object (specify):
- (28) Left side window sill

RIGHT SIDE

- (30) Right side interior surface, excluding hardware or armrests
- Right side hardware or armrest
- (32) Right A (A1/A2)-pillar
- (33) Right B-pillar
- (34) Other right pillar (specify):
- (35) Right side window glass or frame
- Right side window glass including one or more of the following: frame, window sill, A (A1/A2)-pillar, B-pillar, or roof side rail.
- (37) Other right side object (specify):
- (38) Right side window sill

- (40) Seat, back support
- (41) Belt restraint webbing/buckle
- (42) Belt restraint B-pillar or door frame attachment point
- Other restraint system component (specify):
- (44) Head restraint system
- (45) Air bag (use codes "16" and "17" for injuries sustained from air bag compartment covers)
- (46) Other occupants (specify):
- (47) Interior loose objects
- (48) Child safety seat (specify):
- (49) Other interior object (specify):

ROOF

- (50) Front header
- (51) Rear header
- (52) Roof left side rail
- (53) Roof right side rail
- (54) Roof or convertible top

FLOOR

- (56) Floor (including toe pan)
- (57) Floor or console mounted transmission lever, including console
- (58) Parking brake handle
- (59) Foot controls including parking brake

REAR

(60) Backlight (rear window)

- (61) Backlight storage rack, door, etc.
- (62) Other rear object (specify):

EXTERIOR of OCCUPANT'S VEHICLE

- (65) Hood
- (66) Outside hardware (e.g., outside mirror, antenna)
- (67) Other exterior surface or tires (specify):
- (68) Unknown exterior objects

EXTERIOR OF OTHER MOTOR VEHICLE

- (70) Front bumper
- (71) Hood edge
- (72) Other front of vehicle (specify):
- (74) Hood ornament
- (75) Windshield, roof rail, A-pillar
- (76) Side surface
- (77) Side mirrors
- (78) Other side protrusions (specify)
- (79) Rear surface
- (RO) Undercarriage
- (81) Tires and wheels
- Other exterior of other motor vehicle (82)(specify):
- (83) Unknown exterior of other motor vehicle

OTHER VEHICLE OR OBJECT IN THE ENVIRONMENT

- (84) Ground
- (85) Other vehicle or object (specify)
- (86) Unknown vehicle or object

NONCONTACT INJURY

- (90) Fire in vehicle
- (91) Flying glass
- Other noncontact injury source (specify):
- (93) Air bag exhaust gases
- (97) Injured, unknown source

INJURY SOURCE CONFIDENCE LEVEL

- Certain
- (2) Probable
- (3) Possible
- (9) Unknown

DIRECT/INDIRECT INJURY

- Direct contact injury
- (2) Indirect contact injury
- Noncontact injury (7)Injured, unknown source

OCCUPANT INJURY CLASSIFICATION

Body Region

- Head
- Face 131 Neck
- (4) Thorax
- Abdomen
- (6) Spine (7)**Upper Extremity**
- Lower Extremity Unspecified

Type of Anatomic Structure

- Whole Area
- Vessels
- (3) (4)Organs (includes muscles/
- ligaments) Skeletal (includes joints)
- (6) Head - LOC Skin

(5)

- Specific Anatomic Structure
- Whole Area (02) Skin Abrasion (04) Skin Contusion
- (06) Skin - Laceration (08) Skin - Avulsion
- Amputation (10)Burn
- i30) Crush
- Degloving Injury NFS (40)
- (90) Trauma, other than mechanical

- Length of LOC
- (04, 06, 08) Level of Consciousness
- (10) Concussion

- (02) Cervical (04) Thoracic (06) Lumbar
- Vessels, Nerves, Organs. Bones, Joints are assigned consecutive two digit numbers beginning with 02

Level of Injury

Specific injuries are assigned consecutive two-digit numbers beginning with 02.

To the extent possible, within the organizational framework of the AIS, 00 is assigned to an injury NFS as to severity or where only one injury is given in the dictionary for that anatomic structure. 99 is assigned to any injury NFS as to begin or causiful. lesion or severity.

Abbreviated Injury Scale

- Minor injury
- Moderate injury
- (3) Serious injury Severe injury
- Critical injury (5)
- (6) (7) Maximum (untreatable) Injured, unknown severity

Aspect

- Right
- Bilateral
- Central Anterior
- (6) (7) **Posterior** Superior
- Inferior
- Unknown Whole region