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of Transportation

**National Highway
Traffic Safety
Administration**

400 Seventh Street, S.W.
Washington, D.C. 20590

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*** **



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TRANSPORTATION RESEARCH CENTER

Indiana University
[REDACTED]

REMOTE AIR BAG INVESTIGATION

CASE NO. - 94-21
FLEET - PRIVATE VEHICLE
LOCATION - [REDACTED]
ACCIDENT DATE [REDACTED] 1994

Submitted By:

[REDACTED]
[REDACTED]
[REDACTED] 1995

Revised Submission:

[REDACTED], 1995

Contract Number: DTNH22-94-D-17058

Prepared for:

U.S. Department of Transportation
National Highway Traffic Safety Administration
National Center for Statistics and Analysis
Washington, D.C. 20590

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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 be 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.

1. Report No. TRC/IU Case No. 94-21		2. Government Accession No.		3. Recipient's Catalog No.	
4. Title and Subtitle Remote Air Bag Investigation Private Vehicle Location - [REDACTED]				5. Report Date [REDACTED] 1995; R- [REDACTED] 95	
				6. Performing Organization Code	
7. Author(s) [REDACTED]				8. Performing Organization Report No. TRC/IU 94-21, Task 9507	
9. Performing Organization Name and Address Indiana University Transportation Research Center [REDACTED] [REDACTED], Indiana [REDACTED]				10. Work Unit No. (TRAIS)	
				11. Contract or Grant No. DTNH22-94-D-17058	
12. Sponsoring Agency Name and Address U.S. Department of Transportation (NRD-32) National Highway Traffic Safety Administration National Center for Statistics and Analysis Washington, D.C. 20590				13. Type of Report and Period Covered [REDACTED] 1994	
				14. Sponsoring Agency Code	
15. Supplementary Notes Remote air bag investigation involving a 1993 Toyota Camry, 4-door sedan, with manual lap and shoulder belts and driver's air bag					
16. Abstract This report covers a remote investigation of an air bag deployment crash that involved a 1993 Toyota Camry, a 1993 Ford Escort LX, and a 1993 Jeep Grand Cherokee Limited. The Camry was traveling south in the southbound lane of a two-lane, undivided, city roadway and, according to its driver, braked and swerved right just prior to the crash. The Escort was traveling east in the eastbound lane of an intersecting two-lane, undivided, city roadway. Based on the Police Accident Report sketches and the interview with the case vehicle driver, the front left of the Camry (case vehicle) impacted the left front of the Escort (vehicle #2) causing the case vehicle's driver side supplemental restraint system (air bag) to deploy. The case vehicle rotated approximately 30 degrees counterclockwise after impact and came to rest in the middle of the intersection heading south-southeast. Vehicle #2 was deflected south-eastward after the initial impact and subsequently impacted the Grand Cherokee (vehicle #3) which was stopped, on the south leg of the four-leg intersection, heading northward, in the northbound lane of the same two-lane, undivided, city roadway as the case vehicle. Vehicle #2 most likely came to rest just south of the intersection heading east-southeast. Vehicle #3 most likely remained near its impact position after impact and came to rest heading essentially northward. The case vehicle's driver (49 year-old female) was also restrained by the available, active, three-point lap and shoulder belt and sustained bilateral forearm injuries of an undetermined nature. According to her interview, she had multiple fractures to her forearms; according to the Police Accident Report, her forearms were contused. Because of a lack of cooperation, this discrepancy cannot be reconciled.					
17. Key Words Motor Vehicle Traffic Accident Air Bag Deployment Injury Severity			18. Distribution Statement General Public		
19. Security Classif. (of this report) Unclassified		20. Security Classif. (of this page) Unclassified		21. No. of Pages 41	22. Price \$4,100

TABLE OF CONTENTS

	<u>Page No.</u>
ACCIDENT DATA	1
AMBIENT CONDITIONS	1
ROADWAY	1
VEHICLES	2
VEHICLE DAMAGE	3
Deployment Impact	3
Nondeployment Impact	3
COLLISION SEQUENCE	4
Pre-Crash	4
Crash	4
DRIVER DATA	5
DRIVER INJURIES	6
Appendix A: Location of the Village of [REDACTED]	7
Appendix B: Police Accident Report	9
Appendix C: NASS CDS Accident Form	12
Appendix D: NASS CDS General Vehicle Form: Case Vehicle	14
Appendix E: NASS CDS General Vehicle Form: Vehicle #2	18
Appendix F: NASS CDS General Vehicle Form: Vehicle #3	22
Appendix G: NASS CDS Interview Form: Case Vehicle Driver	26
Appendix H: NASS CDS Occupant Assessment Form: Case Vehicle Driver	33
Appendix I: NASS CDS Occupant Injury Form: Case Vehicle Driver	38

TRC/IU REMOTE AIR BAG REPORT

TRC/IU CASE NO. 94-21

FLEET - PRIVATE VEHICLE

LOCATION - [REDACTED] NEW YORK

Summary

This report concerns a motor vehicle crash involving an air bag equipped 1993 Toyota Camry, a 1993 Ford Escort LX, and a 1993 Jeep Grand Cherokee Limited occurring on [REDACTED] 1994 at [REDACTED] a.m., in the village of [REDACTED], New York on a city street. This crash is of special interest because the air bag in the case vehicle is alleged to have caused arm fractures as a result of a "low-speed" crash.

The Camry was traveling south in the southbound lane of a two-lane, undivided, city roadway and, according to the driver, braked and swerved right just prior to impacting the Escort which was traveling east in the eastbound lane of an intersecting two-lane, undivided, city roadway. The Camry rotated approximately 30 degrees counterclockwise after impact and came to rest in the middle of the intersection heading south-southeast. The Escort was deflected southeastward after the initial impact and subsequently impacted the Grand Cherokee which was stopped, on the south leg of the four-leg intersection, heading northward, in the northbound lane of the same two-lane, undivided, city roadway as the Camry. The Escort most likely came to rest just south of the intersection heading east-southeast next to the Grand Cherokee. The Grand Cherokee most likely remained near its impact position after impact and came to rest heading essentially northward.

Based on the Police Accident Report sketches and the interview with the case vehicle driver, the front left of the Camry impacted the left front of the Escort. Subsequently, the front right of the Escort impacted the left front of the Grand Cherokee. With no available vehicle photographs, the CDCs are not estimable for the Camry, Escort, and Grand Cherokee. No reconstruction program was used on this crash because the NASS, CDS, CRASH3PC protocol requires that actual vehicular crush measurements be obtained.

The 1993 Toyota Camry was equipped with a driver supplemental restraint system (air bag) which deployed as a result of the left front impact. The driver of the Camry (49 year-old female) was also restrained by the available, active, three-point lap and shoulder belt. According to her interview, she sustained multiple fractures to both forearms. The driver of the Camry was listed on the Police Accident Report as sustaining a "B" (nonincapacitating-evident) injury, and her forearms were indicated to be contused. Because of a lack of cooperation, this discrepancy cannot be reconciled, and the forearm injuries are considered to be of an undetermined nature. The driver (26 year-old female) of the Escort was listed on the Police Accident Report as sustaining a "C" (possible) injury (i.e., complaint of head pain), and the driver (42 year-old male) of the Grand Cherokee was listed on the Police Accident Report as not sustaining any injury as a result of this crash.

TRC/IU REMOTE AIR BAG REPORT

TRC/IU CASE NO. 94-21

FLEET - PRIVATE VEHICLE
LOCATION - [REDACTED] NEW YORK

ACCIDENT DATA¹

Location/Street: City Street
City/Township: [REDACTED] County, village of [REDACTED]
near [REDACTED] City, New York
Area/Type: Urban, residential
Accident Date/Time: [REDACTED] 1994, @ [REDACTED] a.m.
Investigating Police Agency: [REDACTED] City Police Department¹
Accident Type: Car / Car - right angle
Occupant Injury Severity
(air bag vehicle): ▲ Bilateral forearm injuries of undetermined
nature (AIS-7)

AMBIENT CONDITIONS

Light Conditions: Daylight
Weather Condition: Clear
Precipitation: None
Road Surface: Wet

ROADWAY

	<u>Case Vehicle</u>	<u>Vehicle #2</u>	<u>Vehicle #3</u>
Location:	City street	City street	City street
Number of Travel Lanes:	2-lanes, undivided	2-lanes, undivided	2-lanes, undivided
Width:	Unknown	Unknown	Unknown
Surface Type:	Unknown	Unknown	Unknown

¹ See APPENDIX A for approximate location of the [REDACTED] This map was taken from the [REDACTED]

ROADWAY (CONTINUED)

	<u>Case Vehicle</u>	<u>Vehicle #2</u>	<u>Vehicle #3</u>
Horizontal alignment:	Straight	Straight	Straight
Vertical alignment:	Level	Level	Level
Traffic Density:	Unknown	Unknown	Unknown
Speed Limit:	Unknown	Unknown	Unknown
Traffic Controls:	Flashing red intersection control beacon and most likely a STOP sign	Flashing yellow intersection control beacon	Flashing red intersection control beacon and most likely a STOP sign

VEHICLES²

	<u>Case Vehicle</u>	<u>Vehicle #2</u>	<u>Vehicle #3</u>
Year:	1993	1993	1993
Make:	Toyota	Ford	Jeep
Model:	Camry	Escort	Grand Cherokee Limited
Body Type:	4-door sedan	3-door hatchback	4-door sport utility
V.I.N. ²	4T1VK12E6PU----- ²	1FAPP11J1PW-----	1J4GZ78S9PC-----
Mileage:	~ 20,900 km (~ 13,000 m)	Unknown	Unknown
Securiflex windshield:	None	None	None
Windshield damage/source:	Unknown	Unknown	Unknown
Active Restraints:	3-point, manual, lap and shoulder belts in front and rear outboard seating positions; lap belt only at rear center position	2-point, manual, lap belts in front outboard seating positions; 3-point, manual, lap and shoulder belts in rear outboard seating positions, and lap belt only at rear center position	3-point, manual, lap and shoulder belts in front and rear outboard seating positions; lap belt only at rear center position

² The case vehicle's, vehicle #2's and vehicle #3's Vehicle Identification Numbers were obtained from the State of New York's vehicle registration records.

VEHICLES (CONTINUED)

	<u>Case Vehicle</u>	<u>Vehicle #2</u>	<u>Vehicle #3</u>
Passive Restraints:	Factory installed driver supplemental restraint system (air bag)	2-point shoulder belts in front out-board seating positions	None
Fleet:	Private vehicle	Private vehicle	Private vehicle
Tow status:	Towed due to damage	Towed due to damage	Driven from scene
Reported Defects:	Unknown	Unknown	Unknown

VEHICLE DAMAGE³

	<u>Case Vehicle</u>	<u>Vehicle #2</u>	<u>Vehicle #3</u>
<u>Deployment Impact</u>			
Event number:	First	First	
Object struck:	Vehicle #2	Case Vehicle	
Damage location:	Front	Unknown if front or left	
CDC:	Unknown ³	Unknown	
Estimated maximum crush:	Unknown	Unknown	
Damaged components:	Unknown ³	Unknown	
Repair estimate:	Unknown ³	Unknown	
Interior damage:	Unknown ³	Unknown	
<u>Nondeployment Impact</u>			
Event number:		Second	Second
Object struck:		Vehicle #3	Vehicle #2
Damage location:		Front	Front
CDC:		Unknown	Unknown

³ The case vehicle driver promised this contractor photographs of the damaged case vehicle and a copy of the repair estimate. This promise was reiterated several times by the case vehicle's driver over a three-month period (i.e., [REDACTED] 1994 through [REDACTED] 1995). This contractor finally concluded that needed materials were never going to be forthcoming.

VEHICLE DAMAGE (CONTINUED)

<u>Case Vehicle</u>	<u>Vehicle #2</u>	<u>Vehicle #3</u>
<u>Nondeployment Impact</u> (Continued)		
Estimated maximum crush:	Unknown	Unknown
Damaged components:	Unknown	Unknown
Repair estimate:	Unknown	Unknown
Interior damage:	Unknown	Unknown

COLLISION SEQUENCE

Pre-Crash: According to the Police Accident Report and the case vehicle's driver, the case vehicle (Camry) was traveling south in the southbound lane of a two-lane, undivided, city roadway and was attempting to continue in its southward direction of travel. Vehicle #2 (Escort) was traveling east in the eastbound lane of an intersecting two-lane, undivided, city roadway and was attempting to continue in its eastward direction of travel. Vehicle #3 (Grand Cherokee) was stopped, on the south leg of the four-leg intersection, heading northward, in the northbound lane of the same two-lane, undivided, city roadway as the case vehicle, and waiting to proceed northward through the intersection. According to the case vehicle's driver, the case vehicle entered the intersection after stopping for the flashing control beacon and prior to observing vehicle #2 enter the intersection. After observing vehicle #2, the case vehicle driver indicated that she attempted to brake and swerve right just prior to impacting vehicle #2. According to the Police Accident Report, the driver of vehicle #3 indicated that the case vehicle never stopped prior to entering the intersection⁴. Based on the Police Accident Report sketches and the interview with the case vehicle driver, the case vehicle swerved sharply toward the right prior to impact. Based on the Police Accident Report, the driver of vehicle #2 made no pre-crash avoidance maneuvers. Vehicle #2 continued straight ahead prior to impact. Based on the Police Accident Report, the driver of vehicle #3 made no pre-crash avoidance maneuvers. Vehicle #3 remained headed northward prior to impact. The crash occurred in the four-leg intersection of the two roadways.

Crash: Based on the Police Accident Report sketches and the interview with the case vehicle driver, the front left of the case vehicle impacted the left front of vehicle #2 causing the driver side supplemental restraint system (air bag) to deploy. According to the case vehicle driver, the case vehicle rotated approximately 30 degrees counterclockwise after impact and came to rest in the middle

⁴ The issue of whether or not the case vehicle driver stopped prior to entering the intersection is not important from a crashworthiness standpoint. However, the factual contradiction is discussed here because this issue reflects on the trustworthiness and credibility of the case vehicle driver's allegations of severe forearm fractures resulting from the deployment the driver's side air bag.

COLLISION SEQUENCE (CONTINUED)

Crash: (Continued)

of the intersection heading south-southeast. According to the Police Accident Report, vehicle #2 was deflected southeastward after the initial impact, and subsequently, the front right of vehicle #2 impacted the left front of vehicle #3. Vehicle #2 most likely came to rest just south of the intersection heading east-southeast next to vehicle #3. Vehicle #3 most likely remained near its impact position after impact and came to rest heading essentially northward.

DRIVER DATA

	<u>Case Vehicle</u>	<u>Vehicle #2</u>	<u>Vehicle #3</u>
Age:	49	26	42
Sex:	Female	Female	Male
Height:	165 cm (65 in)	Unknown	Unknown
Weight:	48 kg (105 lbs)	Unknown	Unknown
Occupation:	Housewife	Unknown	Unknown
Active Restraint System/Usage:	3-point lap and shoulder/used	2-point lap/used	3-point lap and shoulder/used
Usage Source:	Interviewee and Police Accident Report	Police Accident Report	Police Accident Report
Passive Restraint System/Usage:	Air bag/deployed	2-point shoul- der/used	Not applicable
Usage Source:	Interviewee and Police Accident Report	Police Accident Report	Not applicable
Eye glasses/contacts:	None	Unknown	Unknown
Vehicle Familiarity:	Very familiar	Unknown	Unknown
Route Familiarity:	Once a month	Unknown	Unknown
Trip Plan:	Home to friend's house	Unknown	Unknown
Manner of Leaving Scene:	Ambulance	Ambulance	Drove vehicle from scene

DRIVER DATA (CONTINUED)⁵

	<u>Case Vehicle</u>	<u>Vehicle #2</u>	<u>Vehicle #3</u>
Type of Medical Treatment:	Hospitalized ⁵	Unknown treatment	Unknown if treated

DRIVER INJURIES^{6,7}

<u>Description of Injury</u>	<u>A.I.S.</u>	<u>Source of Data</u>	<u>Injury Mechanism</u>	<u>Certainty</u>
Fractured ⁶ right forearm	751800.2,1	7	Air bag ⁷	{Possible}
Fractured ⁶ left forearm	751800.2,2	7	Air bag ⁷	{Possible}

⁵ The case vehicle driver promised this contractor a signed medical release for each of the two medical facilities from which she allegedly received treatment (i.e., the hospital where she was allegedly hospitalized, and the physician from which she received follow-up treatment). This promise was reiterated several times by the case vehicle's driver over a three-month period (i.e., [REDACTED] 1994 through [REDACTED] 1995). This contractor finally concluded that the signed medical releases were never going to be forthcoming.

⁶ The available evidence is contradictory. The case vehicle driver alleges that both of her forearms were fractured in multiple places by the deploying driver's side air bag. In fact, the case vehicle driver alleges in her interview that her right forearm required "plates and pins" and her left required "pins and rods". She promised this contractor her cooperation and agreed telephonically, on several occasions, to sign and send us a medical release, which this contractor supplied her on two distinct occasions. The case vehicle driver explained her tardiness in sending this contractor the information that she promised by using the excuse that both of her arms were in casts and that she could not drive to mail this contractor the promised information. She added that she had to depend on "family" to pick-up (e.g., the promised photographs) and send (e.g., mail) this contractor the promised information. All of this indicates that the alleged fractures were very severe. On the other hand, the investigating police officer—the only other source of information, indicated on the Police Accident Report that the case vehicle driver sustained "elbow-lower arm-hand" contusions. Given that injury to the forearm area was the only cited injury location by both the case vehicle driver and the investigating police officer, this contractor is skeptical that such severe (i.e., AIS-3 injuries if documented) injuries would be unobserved (i.e., swelling, deformity, etc.) at the crash scene. Given this discrepancy and the failure of the case vehicle driver to deliver on her promises, this contractor concludes that the case vehicle driver has injuries of an unknown nature to her forearms, bilaterally. Because AIS-'90 does not provide a code for "injured unknown severity" in the upper extremities, the injuries cited by the case vehicle driver are listed. This contractor would code unknown for the TYPE OF ANATOMIC STRUCTURE, SPECIFIC ANATOMIC STRUCTURE, AND LEVEL OF INJURY. In addition, this contractor considers the appropriate AIS to be "7", "INJURED UNKNOWN SEVERITY".

⁷ The case vehicle driver indicated that the air bag fractured her arms. Because the SOURCE OF INJURY DATA used here is INTERVIEWEE, this contractor has chosen to report the "air bag" as the INJURY SOURCE to be consistent. However, if the alleged fractures to the case vehicle driver's ulna, radius, and/or carpal bones did actually occur, then this contractor believes that the steering wheel rim or the air bag's cover flaps would more likely be the INJURY SOURCE.

Appendix A:

LOCATION OF THE VILLAGE OF [REDACTED]

Appendix B:

POLICE ACCIDENT REPORT

Page 1 of 2 Pages

Local Codes

POLICE ACCIDENT REPORT

MV-104A (6/92)

POLICE AGENCY COPY 1

1	Accident Date Mo. 99 Day of Week mo Time 0841 AM	No. of Vehicles 3	No. Injured 2	No. Killed -	Non-Highway <input type="checkbox"/>	Not Investigated at Scene <input type="checkbox"/>	Left Scene <input type="checkbox"/>	Police Photos <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No								
2	VEHICLE 1				VEHICLE 2				BICYCLIST				PEDESTRIAN			
3	Name — exactly as printed on license				DMV USE				Name — exactly as printed on license				DMV USE			
4	Number and Street								Number and Street							
5	City				State				City				State			
6	Zip Code								Zip Code							
7	Date of Birth Mo. 45 Day 5 Year F	Sex F	Unlicensed <input type="checkbox"/>	No. of Occup. 1	Public Property Damaged <input type="checkbox"/>	State of License NY	Date of Birth Mo. 26 Day 68 Year F	Sex F	Unlicensed <input type="checkbox"/>	No. of Occup. 1	Public Property Damaged <input type="checkbox"/>	State of License NY				
8	Name — exactly as printed on registration				Date of Birth Mo. / Day / Year				Name — exactly as printed on registration				Date of Birth Mo. / Day / Year			
9	Number and Street				Hazardous Material Code				Number and Street				Hazardous Material Code			
10	City				State				City				State			
11	Zip Code								Zip Code							
12	Plate Number NY	State of Reg. NY	Yr. & Vehicle Make 93 Toyota	Vehicle Type 4050	Ins. Code 011	Plate Number NY	State of Reg. NY	Yr. & Vehicle Make 93 Ford	Vehicle Type 2050	Ins. Code 011						
13	Check if involved vehicle:				ACCIDENT DIAGRAM				Check if involved vehicle:							
14	<input type="checkbox"/> is a commercial motor vehicle;				Rear End				<input type="checkbox"/> is a commercial motor vehicle;							
15	<input type="checkbox"/> is more than 95 inches wide;				Left Turn				<input type="checkbox"/> is more than 95 inches wide;							
16	<input type="checkbox"/> is more than 34 feet long;				Right Turn				<input type="checkbox"/> is more than 34 feet long;							
17	<input type="checkbox"/> was operated with an overweight permit;				Head On				<input type="checkbox"/> was operated with an overweight permit;							
18	<input type="checkbox"/> was operated with an overdimension permit.				Overtaking				<input type="checkbox"/> was operated with an overdimension permit.							
19	VEHICLE 1 DAMAGE				Left Turn				VEHICLE 2 DAMAGE							
20					Right Turn											
21	Vehicle Towed By				Vehicle Towed To				Vehicle Towed By				Vehicle Towed To			
22	Reference Marker				DMV USE ONLY				Reference Marker				DMV USE ONLY			
23	County				City				County				City			
24	Route No. and Street Name				on				Route No. and Street Name				on			
25	Ticket/Arrest				Violation Section(s)				Ticket/Arrest				Violation Section(s)			
26	Accident Description/Officer's Notes								Accident Description/Officer's Notes							
27	Vehicle #1 pulled stop hit Vehicle #2 causing Vehicle #2 to								Vehicle #1 pulled stop hit Vehicle #2 causing Vehicle #2 to							
28	hit Vehicle #3 at intersection of								hit Vehicle #3 at intersection of							
29	Vehicle #1 stated leaving south on								Vehicle #1 stated leaving south on							
30	at flashing light pulled into intersection and hit Vehicle #2 causing								at flashing light pulled into intersection and hit Vehicle #2 causing							
31	it to hit Vehicle #3.								it to hit Vehicle #3.							
32	Names - If Deceased Give Date of Death								Names - If Deceased Give Date of Death							
33	A	1	1	3	1	49	F	8	10	6						
34	B	2	1	3	1	26	F	1	12	6						
35	C															
36	D															
37	E															
38	F															
39	G															
40	Officer's Rank and Name				Badge No.				Department				Precinct/Post Troop/Zone			
41	Station/Beat Sector				Reviewing Officer				Date/Time Reviewed							

USE COVER SHEET

J

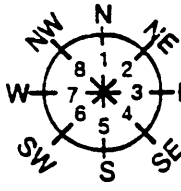
MV-104A (6/92)

POLICE AGENCY COPY 1

USE
COVER
SHEET

J

SIGN HERE	Officer's Rank and Name Po. [REDACTED]	Badge No. [REDACTED]	Department [REDACTED]	Precinct/Post Troop/Zone [REDACTED]	Station/Beat/ Sector [REDACTED]	Reviewing Officer [REDACTED]	Date/Time Reviewed [REDACTED] 94 4:30 PM
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PEDESTRIAN/BICYCLIST LOCATION			APPARENT CONTRIBUTING FACTORS			VEHICULAR		
1. Pedestrian/Bicyclist at Intersection 2. Pedestrian/Bicyclist Not at Intersection			HUMAN 2. Alcohol Involvement 3. Backing Unsafely 4. Driver Inattention (Indicate) * 5. Driver Inexperience (Indicate) * 6. Drugs (Illegal) 7. Failure to Yield Right-of-Way 8. Fell Asleep 9. Following Too Closely 10. Illness 11. Lost Consciousness 12. Passenger Distraction 13. Passing or Lane Usage Improper 14. Pedestrian's/Bicyclist's Error/Confusion 15. Physical Disability 16. Prescription Medication 17. Traffic Control Disregarded 18. Turning Improperly 19. Unsafe Speed 20. Unsafe Lane Changing 40. Other Human *			41. Accelerator Defective 42. Brakes Defective 43. Headlights Defective 44. Other Lighting Defects 45. Oversized Vehicle 46. Steering Failure 47. Tire Failure/Inadequate 48. Tow Hitch Defective 49. Windshield Inadequate 60. Other Vehicular * ENVIRONMENTAL 61. Animal's Action 62. Glare 63. Lane Marking Improper/Inadequate 64. Obstruction/Debris 65. Pavement Defective 66. Pavement Slippery 67. Shoulders Defective/Improper 68. Traffic Control Device Improper/Non-Working 69. View Obstructed/Limited 80. Other Environmental *		
PEDESTRIAN/BICYCLIST ACTION 1. Crossing, With Signal 2. Crossing, Against Signal 3. Crossing, No Signal, Marked Crosswalk 4. Crossing, No Signal or Crosswalk 5. Riding/Walking Along Highway With Traffic 6. Riding/Walking Along Highway Against Traffic 7. Emerging from in Front of/Behind Parked Vehicle 8. Going To/From Stopped School Bus 9. Getting On/Off Vehicle Other Than School Bus 10. Pushing/Working On Car 11. Working in Roadway 12. Playing in Roadway 13. Other Actions in Roadway * 14. Not in Roadway (Indicate)			<div style="border: 1px solid black; padding: 10px; margin: 0 auto; width: 80%;"> <p style="text-align: center;">New York State Department of Motor Vehicles</p> <p style="text-align: center;">POLICE ACCIDENT REPORT</p> <p style="text-align: center;">MV-104A (6/92)</p> <p style="text-align: center;">* EXPLAIN IN ACCIDENT DESCRIPTION</p> <p style="text-align: center;">If a question DOES NOT APPLY, enter a dash (—).</p> <p style="text-align: center;">If an answer is UNKNOWN, enter an "X"</p> </div>			VEHICLE 1 19 VEHICLE 2 20 VEHICLE 3 21 VEHICLE 4 22 VEHICLE 5 23 VEHICLE 6 24 VEHICLE 7 25 VEHICLE 8 26 VEHICLE 9 27 VEHICLE 10 28 VEHICLE 11 29 VEHICLE 12 30		
TRAFFIC CONTROL 1. None 2. Traffic Signal 3. Stop Sign 4. Flashing Light 5. Yield Sign 6. Officer/Guard 7. No Passing Zone 8. RR Crossing Sign 9. RR Crossing Flashing Lt. 10. RR Crossing Gates 11. Stopped School Bus-Red Lights Flashing 12. Construction Work Area 13. Maintenance Work Area 14. Utility Work Area 20. Other *						DIRECTION OF TRAVEL 		
LIGHT CONDITIONS 1. Daylight 2. Dawn 3. Dusk 4. Dark-Road Lighted 5. Dark-Road Unlighted			PRE-ACCIDENT VEHICLE ACTION 1. Going Straight Ahead 2. Making Right Turn 3. Making Left Turn 4. Making U Turn 5. Starting from Parking 6. Starting in Traffic 7. Slowing or Stopping 8. Stopped in Traffic 9. Entering Parked Position 10. Parked 11. Avoiding Object in Roadway 12. Changing Lanes 13. Overtaking 14. Merging 15. Backing 20. Other *					
ROADWAY CHARACTER 1. Straight and Level 2. Straight and Grade 3. Straight at Hillcrest 4. Curve and Level 5. Curve and Grade 6. Curve at Hillcrest								
ROADWAY SURFACE CONDITION 1. Dry 2. Wet 3. Muddy 4. Snow/Ice 5. Slush 0. Other *			LOCATION OF MOST SEVERE PHYSICAL COMPLAINT 1. Head 2. Face 3. Eye 4. Neck 5. Chest 6. Back 7. Shoulder-Upper Arm 8. Elbow-Lower Arm-Hand 9. Abdomen - Pelvis 10. Hip-Upper Leg 11. Knee-Lower Leg-Foot 12. Entire Body					
WEATHER 1. Clear 2. Cloudy 3. Rain 4. Snow 5. Sleet/Hail/Freezing Rain 6. Fog/Smog/Smoke 0. Other *								
WHICH VEHICLE OCCUPIED 1. Vehicle No. 1 2. Vehicle No. 2 B. Bicyclist P. Pedestrian O. Other *			TYPE OF ACCIDENT 1. Other Motor Vehicle 2. Pedestrian 3. Bicyclist 4. Animal 5. Railroad Train 10. Other Object (Not Fixed) COLLISION WITH FIXED OBJECT 11. Light Support/Utility Pole 12. Guide Rail 13. Crash Cushion 14. Sign Post 15. Tree 16. Building/Wall 17. Curbing 18. Fence 19. Bridge Structure 20. Culvert/Head Wall 21. Median/Barrier 22. Snow Embankment 23. Earth Embankment/Rock Cut/Ditch 24. Fire Hydrant 30. Other Fixed Object * NON-COLLISION 31. Overturned 32. Fire/Explosion 33. Submersion 34. Ran Off Roadway Only 40. Other *					
POSITION IN/ON VEHICLE 1. Driver 2-7. Passengers 8. Riding/Hanging on Outside								
SAFETY EQUIPMENT USED 1. None 2. Lap Belt 3. Harness 4. Lap Belt/Harness 5. Child Restraint Only 6. Helmet 7. Air Bag Only 8. Air Bag/Lap Belt 9. Air Bag/Harness A. Air Bag/Lap Belt/Harness B. Air Bag/Child Restraint 0. Other *			TYPE OF PHYSICAL COMPLAINT 1. Amputation 2. Concussion 3. Internal 4. Minor Bleeding 5. Severe Bleeding 6. Minor Burn 7. Moderate Burn 8. Severe Burn 9. Fracture - Dislocation 10. Contusion - Bruise 11. Abrasion 12. Complaint of Pain 13. None Visible					
EJECTION FROM VEHICLE 1. Not Ejected 2. Partially Ejected 3. Ejected								
AGE SEX M / F			VICTIM'S PHYSICAL AND EMOTIONAL STATUS 1. Apparent Death 2. Unconscious 3. Semiconscious 4. Incoherent 5. Shock 6. Conscious					
INJURED TAKEN 17 BY TO 18								

Appendix C:

NASS CDS ACCIDENT FORM



ACCIDENT FORM

1. Primary Sampling Unit Number 10

2. Case Number - Stratum 9421

IDENTIFICATION

3. Number of General Vehicle
Forms Submitted 03

4. Date of Accident
(Month, Day, Year) 9 4

5. Time of Accident 0841

Code reported military time of accident.

NOTE: Midnight = 2400
Unknown = 9999

SPECIAL STUDIES - INDICATORS

Check (✓) each special study (SS14-SS18 below) that has been completed; code 1 for the checked special studies and 0 for the special studies not checked.

6. SS15 Administrative Use

7. SS16 Pedestrian Crash Data Study

8. SS17 Impact Fires

9. SS18

10. SS19

NUMBER OF EVENTS

11. Number of Recorded Events
in This Accident 02

Code the number of events which occurred
in this accident.

ACCIDENT EVENTS

For each event that occurred in the accident, code the lowest numbered vehicle in the left columns and the other involved vehicle or object on the right.

Accident Event Sequence Number	Vehicle Number	Class Of Vehicle	General Area of Damage	Vehicle Number or Object Contacted	Class Of Vehicle	General Area of Damage
12. <u>0 1</u>	13. <u>01</u>	14. <u>02</u>	15. <u>F</u>	16. <u>02</u>	17. <u>01</u>	18. <u>U</u>
19. <u>0 2</u>	20. <u>02</u>	21. <u>01</u>	22. <u>F</u>	23. <u>03</u>	24. <u>11</u>	25. <u>R</u>
26. <u>0 3</u>	27. <u> </u>	28. <u> </u>	29. <u> </u>	30. <u> </u>	31. <u> </u>	32. <u> </u>
33. <u>0 4</u>	34. <u> </u>	35. <u> </u>	36. <u> </u>	37. <u> </u>	38. <u> </u>	39. <u> </u>
40. <u>0 5</u>	41. <u> </u>	42. <u> </u>	43. <u> </u>	44. <u> </u>	45. <u> </u>	46. <u> </u>

IF GREATER THAN FIVE EVENTS, CONTINUE CODING ON THE ACCIDENT EVENT SUPPLEMENT

CODES FOR CLASS OF VEHICLE

- (00) Not a motor vehicle
- (01) Subcompact/mini (wheelbase < 254 cm)
- (02) Compact (wheelbase ≥ 254 but < 265 cm)
- (03) Intermediate (wheelbase ≥ 265 but < 278 cm)
- (04) Full size (wheelbase ≥ 278 but < 291 cm)
- (05) Largest (wheelbase ≥ 291 cm)
- (09) Unknown passenger car size
- (11) Compact utility vehicle
- (12) Large utility vehicle (≤ 4,500 kgs GVWR)
- (13) Passenger van (≤ 4,500 kgs GVWR)
- (14) Other van (≤ 4,500 kgs GVWR)
- (15) Pickup truck (≤ 4,500 kgs GVWR)
- (18) Other truck (≤ 4,500 kgs GVWR)
- (19) Unknown light truck type
- (20) School bus
- (21) Other bus
- (22) Truck (> 4,500 kgs GVWR)
- (23) Tractor without trailer
- (24) Tractor-trailer(s)
- (25) Motored cycle
- (28) Other vehicle
- (99) Unknown

CODES FOR GENERAL AREA OF DAMAGE (GAD)

CDS APPLICABLE AND OTHER VEHICLES

- (O) Not a motor vehicle
- (N) Noncollision
- (F) Front
- (R) Right side
- (L) Left side
- (B) Back
- (T) Top
- (U) Undercarriage
- (9) Unknown

TDC APPLICABLE VEHICLES

- (O) Not a motor vehicle
- (N) Noncollision
- (F) Front
- (R) Right side
- (L) Left side
- (B) Back of unit with cargo
area (rear of trailer or
straight truck)
- (D) Back (rear of tractor)
- (C) Rear of cab
- (V) Front of cargo area
- (T) Top
- (U) Undercarriage
- (9) Unknown

CODES FOR VEHICLE NUMBER OR OBJECT CONTACTED

(01-30) — Vehicle Number

Noncollision

- (31) Overturn — rollover
- (32) Fire or explosion
- (33) Jackknife
- (34) Other intraunit damage (specify):

(35) Noncollision injury

(38) Other noncollision (specify):

(39) Noncollision — details unknown

Collision With Fixed Object

- (41) Tree (≤ 10 cm in diameter)
- (42) Tree (> 10 cm in diameter)
- (43) Shrubbery or bush
- (44) Embankment

(45) Breakaway pole or post (any diameter)

Nonbreakaway Pole or Post

- (50) Pole or post (≤ 10 cm in diameter)
- (51) Pole or post (> 10 cm but ≤ 30 cm in
diameter)
- (52) Pole or post (> 30 cm in diameter)
- (53) Pole or post (diameter unknown)

(54) Concrete traffic barrier

(55) Impact attenuator

(56) Other traffic barrier (includes guardrail)
(specify):

(57) Fence

(58) Wall

(59) Building

(60) Ditch or culvert

(61) Ground

(62) Fire hydrant

(63) Curb

(64) Bridge

(68) Other fixed object (specify):

(69) Unknown fixed object

Collision with Nonfixed Object

(71) Motor vehicle not in-transport

(72) Pedestrian

(73) Cyclist or cycle

(74) Other nonmotorist or conveyance

(75) Vehicle occupant

(76) Animal

(77) Train

(78) Trailer, disconnected in transport

(79) Object fell from vehicle in-transport

(88) Other nonfixed object (specify):

(89) Unknown nonfixed object

(98) Other event (specify):

(99) Unknown event or object

Appendix D:

NASS CDS GENERAL VEHICLE FORM: CASE VEHICLE



U.S. Department of Transportation

National Highway Traffic Safety
Administration

GENERAL VEHICLE FORM

NATIONAL ACCIDENT SAMPLING SYSTEM
CRASHWORTHINESS DATA SYSTEM

1. Primary Sampling Unit Number 10
2. Case Number - Stratum 9421
3. Vehicle Number 01

VEHICLE IDENTIFICATION

4. Vehicle Model Year 93
Code the last two digits of the model year
(99) Unknown
5. Vehicle Make (specify): 49
TOYOTA
Applicable codes are found in your
NASS Data Collection, Coding and
Editing Manual.
(99) Unknown

6. Vehicle Model (specify): 040
CAMRY LE
Applicable codes are found in your
NASS Data Collection, Coding and
Editing Manual.
(999) Unknown

7. Body Type 04
Note: Applicable codes may be found on
the back of this page.

8. Vehicle Identification Number
4T1VK12E6PU
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17

Left justify; Slash zeros and letter Z (0 and Z)
No VIN—Code all zeros
Unknown—Code all nines

OFFICIAL RECORDS

9. Police Reported Vehicle Disposition 1
(0) Not towed due to vehicle damage
(1) Towed due to vehicle damage
(9) Unknown
10. Police Reported Travel Speed 999
Code to the nearest kph (NOTE: 000 means
less than 0.5 kph)
(160) 159.5 kph and above
(999) Unknown
____ mph X 1.6093 = ____ kph

11. Police Reported Alcohol Presence 0
(0) No alcohol present
(1) Yes (alcohol present)
(7) Not reported
(8) No driver present
(9) Unknown

Note: See variables 37 through 55
(Page 4) for information on Other Drugs

12. Alcohol Test Result For Driver 96
Code actual value (decimal implied
before first digit—0.xx)
(95) Test refused
(96) None given
(97) AC test performed, results unknown
(98) No driver present
(99) Unknown

Source: 1

ACCIDENT RELATED

13. Speed Limit 999
(000) No statutory limit
Code posted or statutory speed limit
in kph
(999) Unknown

____ mph X 1.6093 = ____ kph

14. Attempted Avoidance Maneuver 09
(01) No avoidance actions
(02) Braking (no lockup)
(03) Braking (lockup)
(04) Braking (lockup unknown)
(05) Releasing brakes
(06) Steering left
(07) Steering right
(08) Braking and steering left
(09) Braking and steering right
(10) Accelerating
(11) Accelerating and steering left
(12) Accelerating and steering right
(97) No driver present
(98) Other action (specify):
(99) Unknown

15. Accident Type 88
Applicable codes may be found on the
back of page two of this field form
(00) No impact
Code the number of the diagram that
best describes the accident circumstance
(98) Other accident type (specify):
(99) Unknown

**** SKIP TO VARIABLE GV37 IF GV07 DOES NOT EQUAL 01-49 ****

OCCUPANT RELATED

16. Driver Presence in Vehicle

- (0) Driver not present
(1) Driver present
(9) Unknown

1

17. Number of Occupants This Vehicle

- (00-96) Code actual number of occupants for this vehicle
(97) 97 or more
(99) Unknown

01

18. Number of Occupant Forms Submitted

01**VEHICLE WEIGHT ITEMS**

19. Vehicle Curb Weight

- Code weight to nearest 10 kilograms.
(045) Less than 450 kilograms
(610) 6,100 kilograms or more
(999) Unknown

1.3302943 lbs X .4536 = 1.3349 kgsSource: AUTO NEWS

20. Vehicle Cargo Weight

- Code weight to nearest 10 kilograms.
(000) Less than 5 kilograms
(450) 4,500 kilograms or more
(999) Unknown

0.000

____ lbs X .4536 = ____ kgs

RECONSTRUCTION DATA

21. Towed Trailing Unit

- (0) No towed unit
(1) Yes—towed trailing unit
(9) Unknown

0

22. Documentation of Trajectory Data for This Vehicle

- (0) No
(1) Yes

0

23. Post Collision Condition of Tree or Pole (For Highest Delta V)

- (0) Not collision (for highest delta V) with tree or pole
(1) Not damaged
(2) Cracked/sheared
(3) Tilted < 45 degrees
(4) Tilted ≥ 45 degrees
(5) Uprooted tree
(6) Separated pole from base
(7) Pole replaced
(8) Other (specify):
(9) Unknown

0

24. Rollover

- (0) No rollover (no overturning)

0*Rollover (primarily about the longitudinal axis)*

- (1) Rollover, 1 quarter turn only
(2) Rollover, 2 quarter turns
(3) Rollover, 3 quarter turns
(4) Rollover, 4 or more quarter turns (specify):

- (5) Rollover--end-over-end (i.e., primarily about the lateral axis)

- (9) Rollover (overturn), details unknown

OVERRIDE/UNDERRIDE (THIS VEHICLE)

25. Front Override/Underride (this Vehicle)

0

26. Rear Override/Underride (this Vehicle)

0

- (0) No override/underride, or not an end-to-end impact

Override (see specific CDC)

- (1) 1st CDC
(2) 2nd CDC
(3) Other not automated CDC (specify):

Underride (see specific CDC)

- (4) 1st CDC
(5) 2nd CDC
(6) Other not automated CDC (specify):

- (7) Medium/heavy truck or bus override
(9) Unknown

HEADING ANGLE AT IMPACT FOR HIGHEST DELTA V

- Values: (000)-(359) Code actual value
(997) Noncollision
(998) Impact with object
(999) Unknown

27. Heading Angle For This Vehicle

999

28. Heading Angle For Other Vehicle

999

29. Basis for Total Delta V (highest) 6*Delta V Calculated*

- (1) CRASH program—damage only routine
- (2) CRASH program—damage and trajectory routine
- (3) Missing vehicle algorithm

Delta V Not Calculated

- (4) At least one vehicle (which may be this vehicle) is beyond the scope of an acceptable reconstruction program, regardless of collision conditions.
- (5) All vehicles within scope (CDC applicable) of CRASH program but one of the collision conditions is beyond the scope of the CRASH program or other acceptable reconstruction technique, regardless of adequacy of damage data.
- (6) All vehicle and collision conditions are within scope of one of the acceptable reconstruction programs, but there is insufficient data available.

32. Lateral Component of Delta V + 999 Highest

_____ Nearest kph (highest)

_____ Nearest kph (secondary)

(NOTE: 000 means greater than
 -0.5 kph and less than +0.5 kph)
 (± 160) ± 159.5 kph and above
 (999) Unknown

33. Energy Absorption 999.9 00

_____ Nearest 100 joules (highest)

_____ Nearest 100 joules (secondary)

(NOTE: 0000 means less than 50 joules)
 (9997) 999,650 joules or more
 (9999) Unknown

COMPUTER GENERATED DELTA V

30. Total Delta V

Highest

999

_____ Nearest kph (highest)

_____ Nearest kph (secondary)

(NOTE: 000 means less than
 0.5 kph)
 (160) 159.5 kph and above
 (999) Unknown

31. Longitudinal Component of
Delta V+ 999

_____ Nearest kph (highest)

_____ Nearest kph (secondary)

(NOTE: 000 means greater than
 -0.5 kph and less than +0.5 kph)
 (± 160) ± 159.5 kph and above
 (999) Unknown

34. Confidence In Reconstruction Program
Results (For Highest Delta V) 0

(0) No reconstruction

(1) Collision fits model — results appear reasonable

(2) Collision fits model — results appear high

(3) Collision fits model — results appear low

(4) Borderline reconstruction — results appear reasonable

35. Type of Vehicle Inspection 0

(0) No inspection

(1) Complete inspection

(2) Partial inspection (specify):
_____36. Is this an AOPS Vehicle? 1

(0) No

(1) Yes - researcher determined

(2) VIN determined air bag system

(3) VIN determined automatic (passive) belts

(4) VIN determined air bag and automatic (passive) belts

IS OLDMISS APPLICABLE FOR THIS VEHICLE? [] YES [X] NO

IF YES: IS A COMPLETED OLDMISS PROGRAM SUMMARY INCLUDED? [] YES [] NO

37. Police Reported Other Drug Presence 7

- (0) No other drug(s) present
 (1) Yes [other drug(s) present]
 (7) Not reported
 (8) No driver present
 (9) Unknown

38. Police Reported Drug Evaluation Classification (DEC) Test For Driver 0

- (0) No DEC process available or given
 (1) DEC process given, results known
 (2) DEC process given, results unknown
 (3) DEC process available, unknown if given
 (8) No driver present

39. Other Drug Specimen Test Type For Driver 0

- (0) No specimen test given
 (1) Blood test
 (2) Urine test
 (3) Other specimen tests (specify):

 (7) Unspecified specimen test
 (8) No driver present
 (9) Unknown if specimen test given

DRUG EVALUATION CLASSIFICATION

OTHER DRUGS TEST RESULTS FOR DRIVER

	DEC Test Results	Specimen Test Results
Narcotic Drug	40. <u>0</u>	41. <u>0</u>
Depressant Drug	42. <u>0</u>	43. <u>0</u>
Stimulant Drug	44. <u>0</u>	45. <u>0</u>
Hallucinogen Drug	46. <u>0</u>	47. <u>0</u>
Cannabinoid Drug	48. <u>0</u>	49. <u>0</u>
Phencyclidine (PCP)	50. <u>0</u>	51. <u>0</u>
Inhalant Drug	52. <u>0</u>	53. <u>0</u>
Other Drug (Excluding Nicotine, Aspirin, Alcohol, Drugs Administered Post-Crash)	54. <u>0</u>	55. <u>0</u>

Codes For DEC Test Results

- (0) No DEC test given
 (1) Passed DEC test
 (2) Failed DEC test
 (3) DEC test given—results unknown
 (8) No driver present
 (9) Unknown if DEC test given

Codes for Specimen Test Results

- (0) No specimen test given
 (1) Drug not found in specimen
 (2) Drug found in specimen
 (7) Specimen test given, results unknown or not obtained
 (8) No driver present
 (9) Unknown if specimen test given

OTHER DATA**56. Driver's Zip Code**

- (00000) Driver not present
 (00001) Driver not a resident of U.S. or territories
 Code actual 5-digit zip code
 (99999) Unknown

57. Driver's Race/Ethnic Origin

- (0) Driver not present
 (1) White (non-Hispanic)
 (2) Black (non-Hispanic)
 (3) White (Hispanic)
 (4) Black (Hispanic)
 (5) American Indian, Eskimo or Aleut
 (6) Asian or Pacific Islander
 (8) Other (specify):
 (9) Unknown

58. Vehicle Special Use (This Trip)

- (0) No special use
 (1) Taxi
 (2) Vehicle used as school bus
 (3) Vehicle used as other bus
 (4) Military
 (5) Police
 (6) Ambulance
 (7) Fire truck or car
 (8) Other (specify):
 (9) Unknown

ROLLOVER DATA

If GV07 (Body Type) \neq 1-49, leave GV59-GV63 blank.
 If GV24 (Rollover) = 0, then GV59-GV63 must equal 0.
 If GV24 = 9, then GV59-GV63 must equal 9.

59. Rollover Initiation Type

- (0) No rollover
 (1) Trip-over
 (2) Flip-over
 (3) Turn-over
 (4) Climb-over
 (5) Fall-over
 (6) Bounce-over
 (7) Collision with another vehicle
 (8) Other rollover initiation type specify:
 (9) Unknown rollover initiation type

60. Location of Rollover Initiation

- (0) No rollover
 (1) On roadway
 (2) On shoulder—paved
 (3) On shoulder—unpaved
 (4) On roadside or divided trafficway median
 (9) Unknown

61. Rollover Initiation Object Contacted**62. Location on Vehicle Where Initial Principal Tripping Force Is Applied**

- (0) No rollover
 (1) Wheels/tires
 (2) Side plane
 (3) End plane
 (4) Undercarriage
 (5) Other location on vehicle (specify):
 (8) Non-contact rollover forces (specify):
 (9) Unknown

63. Direction of Initial Roll

- (0) No rollover
 (1) Roll right - primarily about the longitudinal axis
 (2) Roll left - primarily about the longitudinal axis
 (5) End-over-end (i.e., primarily about the lateral axis)
 (9) Unknown roll direction

PRECRASH DATA**64. Pre-Event Movement (Prior to Recognition of Critical Event)**

- (01) Going straight
 (02) Slowing or stopping in traffic lane
 (03) Starting in traffic lane
 (04) Stopped in traffic lane
 (05) Passing or overtaking another vehicle
 (06) Disabled or parked in travel lane
 (07) Leaving a parking position
 (08) Entering a parking position
 (09) Turning right
 (10) Turning left
 (11) Making a U-turn
 (12) Backing up (other than for parking position)
 (13) Negotiating a curve
 (14) Changing lanes
 (15) Merging
 (16) Successful avoidance maneuver to a previous critical event
 (97) Other (specify):
 (98) No driver present
 (99) Unknown

PRECRASH DATA (Continued)

65. Critical Precrash Event 17*This Vehicle Loss of Control Due To:*

- (01) Blow out or flat tire
- (02) Stalled engine
- (03) Disabling vehicle failure (e.g., wheel fell off) (specify): _____
- (04) Non-disabling vehicle problem (e.g., hood flew up) (specify): _____
- (05) Poor road conditions (puddle, pot hole, ice, etc.) (specify): _____
- (06) Traveling too fast for conditions
- (08) Other cause of control loss (specify): _____
- (09) Unknown cause of control loss

This Vehicle Traveling

- (10) Over the lane line on left side of travel lane
- (11) Over the lane line on right side of travel lane
- (12) Off the edge of the road on the left side
- (13) Off the edge of the road on the right side
- (14) End departure
- (15) Turning left at intersection
- (16) Turning right at intersection
- (17) Crossing over (passing through) intersection
- (19) Unknown travel direction

Other Motor Vehicle In Lane

- (50) Stopped
- (51) Traveling in same direction with lower speed (i.e., lower steady speed or decelerating)
- (52) Traveling in same direction with higher speed
- (53) Traveling in opposite direction
- (54) In crossover
- (55) Backing
- (59) Unknown travel direction of other motor vehicle in lane

Other Motor Vehicle Encroaching Into Lane

- (60) From adjacent lane (same direction)—over left lane line
- (61) From adjacent lane (same direction)—over right lane line
- (62) From opposite direction—over left lane line
- (63) From opposite direction—over right lane line
- (64) From parking lane
- (65) From crossing street, turning into same direction
- (66) From crossing street, across path
- (67) From crossing street, turning into opposite direction
- (68) From crossing street, intended path not known
- (70) From driveway, turning into same direction
- (71) From driveway, across path
- (72) From driveway, turning into opposite direction
- (73) From driveway, intended path not known
- (74) From entrance to limited access highway
- (78) Encroachment by other vehicle—details unknown

Pedestrian or Pedalcyclist, or Other Nonmotorist

- (80) Pedestrian in roadway
- (81) Pedestrian approaching roadway
- (82) Pedestrian—unknown location
- (83) Pedalcyclist or other nonmotorist in roadway (specify): _____
- (84) Pedalcyclist or other nonmotorist approaching roadway (specify): _____
- (85) Pedalcyclist or other nonmotorist—unknown location (specify): _____

Object or Animal

- (87) Animal in roadway
- (88) Animal approaching roadway
- (89) Animal—unknown location
- (90) Object in roadway
- (91) Object approaching roadway
- (92) Object—unknown location

(98) Other critical precrash event (specify): _____

(99) Unknown

For Corrective Actions Attempted see variable GV14 (Attempted Avoidance Maneuver)

66. Precrash Stability After Avoidance Maneuver 1

- (0) No avoidance maneuver
- (1) Tracking
- (2) Skidding longitudinally—rotation less than 30 degrees
- (3) Skidding laterally—clockwise rotation
- (4) Skidding laterally—counterclockwise rotation
- (7) Other vehicle loss-of-control (specify): _____
- (8) No driver present
- (9) Precrash stability unknown

67. Precrash Directional Consequences of Avoidance Maneuver (Corrective Action) 1

- (0) No avoidance maneuver
- (1) Vehicle stayed in travel lane where avoidance maneuver was initiated
- (2) Vehicle stayed on roadway but left travel lane where avoidance maneuver was initiated
- (3) Vehicle stayed on roadway, not known if left travel lane where avoidance maneuver was initiated
- (4) Vehicle departed roadway
- (5) Avoidance maneuver initiated off roadway
- (8) No driver present
- (9) Directional consequences unknown

*** IF THE CDS APPLICABLE VEHICLE WAS NOT INSPECTED (I.E., GV35 = 0), ***
DO NOT COMPLETE THE EXTERIOR AND INTERIOR VEHICLE FORMS.

*** IF GV07 DOES NOT EQUAL 01-49, DO NOT COMPLETE ***
THE EXTERIOR VEHICLE, INTERIOR VEHICLE,
OCCUPANT ASSESSMENT, AND OCCUPANT INJURY FORMS.

Appendix E:

NASS CDS GENERAL VEHICLE FORM: VEHICLE #2



GENERAL VEHICLE FORM

1. Primary Sampling Unit Number 10

2. Case Number - Stratum 94 21

3. Vehicle Number 02

VEHICLE IDENTIFICATION

4. Vehicle Model Year 93
Code the last two digits of the model year
(99) Unknown

5. Vehicle Make (specify): FORD
Applicable codes are found in your
NASS Data Collection, Coding and
Editing Manual.
(99) Unknown

6. Vehicle Model (specify): 013
ESCORT LX
Applicable codes are found in your
NASS Data Collection, Coding and
Editing Manual.
(999) Unknown

7. Body Type 03
Note: Applicable codes may be found on
the back of this page.

8. Vehicle Identification Number
1FAPP11J1PW
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17
Left justify; Slash zeros and letter Z (0 and Z)
No VIN—Code all zeros
Unknown—Code all nines

OFFICIAL RECORDS

9. Police Reported Vehicle Disposition 1
(0) Not towed due to vehicle damage
(1) Towed due to vehicle damage
(9) Unknown

10. Police Reported Travel Speed 999
Code to the nearest kph (NOTE: 000 means
less than 0.5 kph)
(160) 159.5 kph and above
(999) Unknown
____ mph X 1.6093 = ____ kph

11. Police Reported Alcohol Presence 0

- (0) No alcohol present
(1) Yes (alcohol present)
(7) Not reported
(8) No driver present
(9) Unknown

Note: See variables 37 through 55
(Page 4) for information on Other Drugs

12. Alcohol Test Result For Driver 96
Code actual value (decimal implied
before first digit—0.xx)
(95) Test refused
(96) None given
(97) AC test performed, results unknown
(98) No driver present
(99) Unknown

Source: _____

ACCIDENT RELATED

13. Speed Limit 999
(000) No statutory limit
Code posted or statutory speed limit
in kph
(999) Unknown
____ mph X 1.6093 = ____ kph

14. Attempted Avoidance Maneuver 99
(01) No avoidance actions
(02) Braking (no lockup)
(03) Braking (lockup)
(04) Braking (lockup unknown)
(05) Releasing brakes
(06) Steering left
(07) Steering right
(08) Braking and steering left
(09) Braking and steering right
(10) Accelerating
(11) Accelerating and steering left
(12) Accelerating and steering right
(97) No driver present
(98) Other action (specify):
(99) Unknown

15. Accident Type 89
Applicable codes may be found on the
back of page two of this field form
(C0) No impact
Code the number of the diagram that
best describes the accident circumstance
(98) Other accident type (specify):
(99) Unknown

**** SKIP TO VARIABLE GV37 IF GV07 DOES NOT EQUAL 01-49 ****

Wheelbase = 98.4" = 249.9 cm

OCCUPANT RELATED

16. Driver Presence in Vehicle 0

- (0) Driver not present
(1) Driver present
(9) Unknown

17. Number of Occupants This Vehicle 01
(00-96) Code actual number of occupants for this vehicle
(97) 97 or more
(99) Unknown18. Number of Occupant Forms Submitted 0024. Rollover 0

- (0) No rollover (no overturning)

Rollover (primarily about the longitudinal axis)

- (1) Rollover, 1 quarter turn only
(2) Rollover, 2 quarter turns
(3) Rollover, 3 quarter turns
(4) Rollover, 4 or more quarter turns (specify):

- (5) Rollover--end-over-end (i.e., primarily about the lateral axis)
(9) Rollover (overturn), details unknown

VEHICLE WEIGHT ITEMS

19. Vehicle Curb Weight 1050

_____ Code weight to nearest
10 kilograms.

- (045) Less than 450 kilograms
(610) 6,100 kilograms or more
(999) Unknown

2307 lbs X .4536 = 1046 kgs

Source: _____

20. Vehicle Cargo Weight 9990

_____ Code weight to nearest
10 kilograms.

- (000) Less than 5 kilograms
(450) 4,500 kilograms or more
(999) Unknown

_____ lbs X .4536 = _____ kgs

OVERRIDE/UNDERRIDE (THIS VEHICLE)

25. Front Override/Underride (this Vehicle) 026. Rear Override/Underride (this Vehicle) 0

- (0) No override/underride, or
not an end-to-end impact

Override (see specific CDC)

- (1) 1st CDC
(2) 2nd CDC
(3) Other not automated CDC (specify):

Underride (see specific CDC)

- (4) 1st CDC
(5) 2nd CDC
(6) Other not automated CDC (specify):

- (7) Medium/heavy truck or bus override
(9) Unknown

RECONSTRUCTION DATA

21. Towed Trailing Unit 0

- (0) No towed unit
(1) Yes--towed trailing unit
(9) Unknown

22. Documentation of Trajectory Data 0
for This Vehicle

- (0) No
(1) Yes

23. Post Collision Condition of Tree or Pole 0
(For Highest Delta V)

- (0) Not collision (for highest delta V) with
tree or pole

- (1) Not damaged
(2) Cracked/sheared
(3) Tilted <45 degrees
(4) Tilted ≥45 degrees
(5) Uprooted tree
(6) Separated pole from base
(7) Pole replaced
(8) Other (specify):

- (9) Unknown

HEADING ANGLE AT IMPACT FOR
HIGHEST DELTA V

Values: (000)-(359) Code actual value
(997) Noncollision
(998) Impact with object
(999) Unknown

27. Heading Angle For This Vehicle 99928. Heading Angle For Other Vehicle 999

6

- (1) CRASH program—damage only routine
- (2) CRASH program—damage and trajectory routine
- (3) Missing vehicle algorithm

- (4) At least one vehicle (which may be this vehicle) is beyond the scope of an acceptable reconstruction program, regardless of collision conditions.
- (5) All vehicles within scope (CDC applicable) of CRASH program but one of the collision conditions is beyond the scope of the CRASH program or other acceptable reconstruction technique, regardless of adequacy of damage data.
- (6) All vehicle and collision conditions are within scope of one of the acceptable reconstruction programs, but there is insufficient data available.

_____ Nearest kph (highest)
_____ Nearest kph (secondary)

(NOTE: __000 means greater than
-0.5 kph and less than +0.5 kph)
(± 160) ± 159.5 kph and above
(999) Unknown

_____ Nearest 100 joules (highest)

_____ Nearest 100 joules (secondary)

(NOTE: 0000 means less than 50 joules)
(9997) 999,650 joules or more
(9999) Unknown

Highest

9 9 9

_____ Nearest kph (highest)

_____ Nearest kph (secondary)

(NOTE: 000 means less than 0.5 kph)
(160) 159.5 kph and above
(999) Unknown

$$\begin{array}{r} + \\ - \end{array} \quad 999$$

_____ Nearest kph (highest)

_____ Nearest kph (secondary)

(NOTE: _ 000 means greater than
-0.5 kph and less than +0.5 kph)
(± 160) ± 159.5 kph and above
(999) Unknown

- (0) No reconstruction
- (1) Collision fits model — results appear reasonable
- (2) Collision fits model — results appear high
- (3) Collision fits model — results appear low
- (4) Borderline reconstruction — results appear reasonable

(0) No inspection
(1) Complete inspection
(2) Partial inspection (specify):

- (0) No
- (1) Yes - researcher determined
- (2) VIN determined air bag system
- (3) VIN determined automatic (passive) belts
- (4) VIN determined air bag and automatic (passive) belts

IF YES: IS A COMPLETED OLDMISS PROGRAM SUMMARY INCLUDED? ☐ YES ☐ NO

37. Police Reported Other Drug Presence 7

- (0) No other drug(s) present
 (1) Yes (other drug(s) present)
 (7) Not reported
 (8) No driver present
 (9) Unknown

38. Police Reported Drug Evaluation Classification 0

(DEC) Test For Driver

- (0) No DEC process available or given
 (1) DEC process given, results known
 (2) DEC process given, results unknown
 (3) DEC process available, unknown if given
 (8) No driver present

39. Other Drug Specimen Test Type For Driver 0

- (0) No specimen test given
 (1) Blood test
 (2) Urine test
 (3) Other specimen tests (specify):

 (7) Unspecified specimen test
 (8) No driver present
 (9) Unknown if specimen test given

DRUG EVALUATION CLASSIFICATION **OTHER DRUGS TEST RESULTS FOR DRIVER**

	DEC Test Results	Specimen Test Results
Narcotic Drug	40. <u>0</u>	41. <u>0</u>
Depressant Drug	42. <u>0</u>	43. <u>0</u>
Stimulant Drug	44. <u>0</u>	45. <u>0</u>
Hallucinogen Drug	46. <u>0</u>	47. <u>0</u>
Cannabinoid Drug	48. <u>0</u>	49. <u>0</u>
Phencyclidine (PCP)	50. <u>0</u>	51. <u>0</u>
Inhalant Drug	52. <u>0</u>	53. <u>0</u>
Other Drug (Excluding Nicotine, Aspirin, Alcohol, Drugs Administered Post-Crash)	54. <u>0</u>	55. <u>0</u>

Codes For DEC Test Results

- (0) No DEC test given
 (1) Passed DEC test
 (2) Failed DEC test
 (3) DEC test given—results unknown
 (8) No driver present
 (9) Unknown if DEC test given

Codes for Specimen Test Results

- (0) No specimen test given
 (1) Drug not found in specimen
 (2) Drug found in specimen
 (7) Specimen test given, results unknown or not obtained
 (8) No driver present
 (9) Unknown if specimen test given

OTHER DATA

56. Driver's Zip Code

- (00000) Driver not present
(00001) Driver not a resident of U.S. or territories
Code actual 5-digit zip code
(99999) Unknown

57. Driver's Race/Ethnic Origin

- (0) Driver not present
(1) White (non-Hispanic)
(2) Black (non-Hispanic)
(3) White (Hispanic)
(4) Black (Hispanic)
(5) American Indian, Eskimo or Aleut
(6) Asian or Pacific Islander
(8) Other (specify):
(9) Unknown

58. Vehicle Special Use (This Trip)

- (0) No special use
(1) Taxi
(2) Vehicle used as school bus
(3) Vehicle used as other bus
(4) Military
(5) Police
(6) Ambulance
(7) Fire truck or car
(8) Other (specify):
(9) Unknown

ROLLOVER DATA

If GV07 (Body Type) \neq 1-49, leave GV59-GV63 blank.
If GV24 (Rollover) = 0, then GV59-GV63 must equal 0.
If GV24 = 9, then GV59-GV63 must equal 9.

59. Rollover Initiation Type

- (0) No rollover
(1) Trip-over
(2) Flip-over
(3) Turn-over
(4) Climb-over
(5) Fall-over
(6) Bounce-over
(7) Collision with another vehicle
(8) Other rollover initiation type specify):
(9) Unknown rollover initiation type

60. Location of Rollover Initiation

- (0) No rollover
(1) On roadway
(2) On shoulder—paved
(3) On shoulder—unpaved
(4) On roadside or divided trafficway median
(9) Unknown

61. Rollover Initiation Object Contacted

62. Location on Vehicle Where Initial Principal Tripping Force Is Applied

- (0) No rollover
(1) Wheels/tires
(2) Side plane
(3) End plane
(4) Undercarriage
(5) Other location on vehicle (specify):
(8) Non-contact rollover forces (specify):
(9) Unknown

63. Direction of Initial Roll

- (0) No rollover
(1) Roll right - primarily about the longitudinal axis
(2) Roll left - primarily about the longitudinal axis
(5) End-over-end (i.e., primarily about the lateral axis)
(9) Unknown roll direction

PRECRASH DATA

64. Pre-Event Movement (Prior to Recognition of Critical Event)

- (01) Going straight
(02) Slowing or stopping in traffic lane
(03) Starting in traffic lane
(04) Stopped in traffic lane
(05) Passing or overtaking another vehicle
(06) Disabled or parked in travel lane
(07) Leaving a parking position
(08) Entering a parking position
(09) Turning right
(10) Turning left
(11) Making a U-turn
(12) Backing up (other than for parking position)
(13) Negotiating a curve
(14) Changing lanes
(15) Merging
(16) Successful avoidance maneuver to a previous critical event
(97) Other (specify):
(98) No driver present
(99) Unknown

PRECRASH DATA (Continued)

65. Critical Precrash Event 66*This Vehicle Loss of Control Due To:*

- (01) Blow out or flat tire
- (02) Stalled engine
- (03) Disabling vehicle failure (e.g., wheel fell off) (specify): _____
- (04) Non-disabling vehicle problem (e.g., hood flew up) (specify): _____
- (05) Poor road conditions (puddle, pot hole, ice, etc.) (specify): _____
- (06) Traveling too fast for conditions
- (08) Other cause of control loss (specify): _____
- (09) Unknown cause of control loss

This Vehicle Traveling

- (10) Over the lane line on left side of travel lane
- (11) Over the lane line on right side of travel lane
- (12) Off the edge of the road on the left side
- (13) Off the edge of the road on the right side
- (14) End departure
- (15) Turning left at intersection
- (16) Turning right at intersection
- (17) Crossing over (passing through) intersection
- (19) Unknown travel direction

Other Motor Vehicle In Lane

- (50) Stopped
- (51) Traveling in same direction with lower speed (i.e., lower steady speed or decelerating)
- (52) Traveling in same direction with higher speed
- (53) Traveling in opposite direction
- (54) In crossover
- (55) Backing
- (59) Unknown travel direction of other motor vehicle in lane

Other Motor Vehicle Encroaching Into Lane

- (60) From adjacent lane (same direction)—over left lane line
- (61) From adjacent lane (same direction)—over right lane line
- (62) From opposite direction—over left lane line
- (63) From opposite direction—over right lane line
- (64) From parking lane
- (65) From crossing street, turning into same direction
- (66) From crossing street, across path
- (67) From crossing street, turning into opposite direction
- (68) From crossing street, intended path not known
- (70) From driveway, turning into same direction
- (71) From driveway, across path
- (72) From driveway, turning into opposite direction
- (73) From driveway, intended path not known
- (74) From entrance to limited access highway
- (78) Encroachment by other vehicle—details unknown

Pedestrian or Pedalcyclist, or Other Nonmotorist

- (80) Pedestrian in roadway
- (81) Pedestrian approaching roadway
- (82) Pedestrian—unknown location
- (83) Pedalcyclist or other nonmotorist in roadway (specify): _____
- (84) Pedalcyclist or other nonmotorist approaching roadway (specify): _____
- (85) Pedalcyclist or other nonmotorist—unknown location (specify): _____

Object or Animal

- (87) Animal in roadway
- (88) Animal approaching roadway
- (89) Animal—unknown location
- (90) Object in roadway
- (91) Object approaching roadway
- (92) Object—unknown location

(98) Other critical precrash event (specify): _____

(99) Unknown

For Corrective Actions Attempted see variable GV14
(Attempted Avoidance Manuever)66. Precrash Stability After Avoidance Maneuver 9

- (0) No avoidance maneuver
- (1) Tracking
- (2) Skidding longitudinally—rotation less than 30 degrees
- (3) Skidding laterally—clockwise rotation
- (4) Skidding laterally—counterclockwise rotation
- (7) Other vehicle loss-of-control (specify): _____
- (8) No driver present
- (9) Precrash stability unknown

67. Precrash Directional Consequences of Avoidance Maneuver (Corrective Action) 9

- (0) No avoidance maneuver
- (1) Vehicle stayed in travel lane where avoidance maneuver was initiated
- (2) Vehicle stayed on roadway but left travel lane where avoidance maneuver was initiated
- (3) Vehicle stayed on roadway, not known if left travel lane where avoidance maneuver was initiated
- (4) Vehicle departed roadway
- (5) Avoidance maneuver initiated off roadway
- (8) No driver present
- (9) Directional consequences unknown

*** IF THE CDS APPLICABLE VEHICLE WAS NOT INSPECTED (I.E., GV35 = 0), ***
DO NOT COMPLETE THE EXTERIOR AND INTERIOR VEHICLE FORMS.

*** IF GV07 DOES NOT EQUAL 01-49, DO NOT COMPLETE ***
THE EXTERIOR VEHICLE, INTERIOR VEHICLE,
OCCUPANT ASSESSMENT, AND OCCUPANT INJURY FORMS.

Appendix F:

NASS CDS GENERAL VEHICLE FORM: VEHICLE #3



GENERAL VEHICLE FORM

1. Primary Sampling Unit Number 10

2. Case Number - Stratum 9421

3. Vehicle Number 03

VEHICLE IDENTIFICATION

4. Vehicle Model Year 93
Code the last two digits of the model year
(99) Unknown

5. Vehicle Make (specify): 02
JEOP

Applicable codes are found in your
NASS Data Collection, Coding and
Editing Manual.
(99) Unknown

6. Vehicle Model (specify): 404
Grand Cherokee Limited

Applicable codes are found in your
NASS Data Collection, Coding and
Editing Manual. 4x4, 6 cylinder
(999) Unknown 4.0L

7. Body Type 14

Note: Applicable codes may be found on
the back of this page.

8. Vehicle Identification Number

1J4GZ78S9PC

1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17

Left justify; Slash zeros and letter Z (0 and Z)
No VIN—Code all zeros
Unknown—Code all nines

OFFICIAL RECORDS

9. Police Reported Vehicle Disposition 0
(0) Not towed due to vehicle damage
(1) Towed due to vehicle damage
(9) Unknown

10. Police Reported Travel Speed 999

Code to the nearest kph (NOTE: 000 means
less than 0.5 kph)
(160) 159.5 kph and above
(999) Unknown

___ mph X 1.6093 = ___ kph

11. Police Reported Alcohol Presence 0

- (0) No alcohol present
- (1) Yes (alcohol present)
- (7) Not reported
- (8) No driver present
- (9) Unknown

Note: See variables 37 through 55
(Page 4) for information on Other Drugs

12. Alcohol Test Result For Driver 96
Code actual value (decimal implied
before first digit—0.xx)
(95) Test refused
(96) None given
(97) AC test performed, results unknown
(98) No driver present
(99) Unknown

Source: _____

ACCIDENT RELATED

13. Speed Limit 999
(000) No statutory limit
Code posted or statutory speed limit
in kph
(999) Unknown

___ mph X 1.6093 = ___ kph

14. Attempted Avoidance Maneuver 01
(01) No avoidance actions
(02) Braking (no lockup)
(03) Braking (lockup)
(04) Braking (lockup unknown)
(05) Releasing brakes
(06) Steering left
(07) Steering right
(08) Braking and steering left
(09) Braking and steering right
(10) Accelerating
(11) Accelerating and steering left
(12) Accelerating and steering right
(97) No driver present
(98) Other action (specify):

(99) Unknown

15. Accident Type 98
Applicable codes may be found on the
back of page two of this field form
(C0) No impact
Code the number of the diagram that
best describes the accident circumstance
(98) Other accident type (specify):

(99) Unknown

**** SKIP TO VARIABLE GV37 IF GV07 DOES NOT EQUAL 01-49 ****

OCCUPANT RELATED

16. Driver Presence in Vehicle 1

- (0) Driver not present
(1) Driver present
(9) Unknown

17. Number of Occupants This Vehicle 01
(00-96) Code actual number of occupants for this vehicle
(97) 97 or more
(99) Unknown18. Number of Occupant Forms Submitted 00

VEHICLE WEIGHT ITEMS

19. Vehicle Curb Weight 1.670

Code weight to nearest
10 kilograms.

- (045) Less than 450 kilograms
(610) 6,100 kilograms or more
(999) Unknown

3674 lbs X .4536 = 1.667 kgs

Source: _____

20. Vehicle Cargo Weight 9.990

Code weight to nearest
10 kilograms.

- (000) Less than 5 kilograms
(450) 4,500 kilograms or more
(999) Unknown

_____ lbs X .4536 = _____ kgs

RECONSTRUCTION DATA

21. Towed Trailing Unit 0

- (0) No towed unit
(1) Yes—towed trailing unit
(9) Unknown

22. Documentation of Trajectory Data for This Vehicle 0

- (0) No
(1) Yes

23. Post Collision Condition of Tree or Pole (For Highest Delta V) 0

- (0) Not collision (for highest delta V) with tree or pole
(1) Not damaged
(2) Cracked/sheared
(3) Tilted <45 degrees
(4) Tilted ≥45 degrees
(5) Uprooted tree
(6) Separated pole from base
(7) Pole replaced
(8) Other (specify): _____

(9) Unknown

24. Rollover 0

- (0) No rollover (no overturning)

Rollover (primarily about the longitudinal axis)

- (1) Rollover, 1 quarter turn only
(2) Rollover, 2 quarter turns
(3) Rollover, 3 quarter turns
(4) Rollover, 4 or more quarter turns (specify): _____

- (5) Rollover—end-over-end (i.e., primarily about the lateral axis)

- (9) Rollover (overturn), details unknown

OVERRIDE/UNDERRIDE (THIS VEHICLE)

25. Front Override/Underride (this Vehicle) 926. Rear Override/Underride (this Vehicle) 0

- (0) No override/underride, or not an end-to-end impact

Override (see specific CDC)

- (1) 1st CDC
(2) 2nd CDC
(3) Other not automated CDC (specify): _____

Underride (see specific CDC)

- (4) 1st CDC
(5) 2nd CDC
(6) Other not automated CDC (specify): _____

- (7) Medium/heavy truck or bus override
(9) Unknown

HEADING ANGLE AT IMPACT FOR HIGHEST DELTA V

Values: (000)-(359) Code actual value
(997) Noncollision
(998) Impact with object
(999) Unknown

27. Heading Angle For This Vehicle 99928. Heading Angle For Other Vehicle 999

* Shipping Weight (Branham's)

3,574 lbs

100

3,674

29. Basis for Total Delta V (highest) 6*Delta V Calculated*

- (1) CRASH program—damage only routine
- (2) CRASH program—damage and trajectory routine
- (3) Missing vehicle algorithm

Delta V Not Calculated

- (4) At least one vehicle (which may be this vehicle) is beyond the scope of an acceptable reconstruction program, regardless of collision conditions.
- (5) All vehicles within scope (CDC applicable) of CRASH program but one of the collision conditions is beyond the scope of the CRASH program or other acceptable reconstruction technique, regardless of adequacy of damage data.
- (6) All vehicle and collision conditions are within scope of one of the acceptable reconstruction programs, but there is insufficient data available.

COMPUTER GENERATED DELTA V

30. Total Delta V

Highest

9 9 9

_____ Nearest kph (highest)

_____ Nearest kph (secondary)

(NOTE: 000 means less than
0.5 kph)
(160) 159.5 kph and above
(999) Unknown

31. Longitudinal Component of
Delta V+ 9 9 9
- _____

_____ Nearest kph (highest)

_____ Nearest kph (secondary)

(NOTE: _000 means greater than
-0.5 kph and less than +0.5 kph)
(± 160) ± 159.5 kph and above
(_ 999) Unknown

32. Lateral Component of Delta V + 9 9 9 Highest
- _____

_____ Nearest kph (highest)

_____ Nearest kph (secondary)

(NOTE: _000 means greater than
-0.5 kph and less than +0.5 kph)
(± 160) ± 159.5 kph and above
(_ 999) Unknown

33. Energy Absorption 9 9 9 9 0 0

_____ Nearest 100 joules (highest)

_____ Nearest 100 joules (secondary)

(NOTE: 0000 means less than 50 joules)
(9997) 999,650 joules or more
(9999) Unknown

34. Confidence In Reconstruction Program
Results (For Highest Delta V)

- (0) No reconstruction
- (1) Collision fits model — results appear reasonable
- (2) Collision fits model — results appear high
- (3) Collision fits model — results appear low
- (4) Borderline reconstruction — results appear reasonable

35. Type of Vehicle Inspection 0

- (0) No inspection
- (1) Complete inspection
- (2) Partial inspection (specify): _____

36. Is this an AOPS Vehicle? 0

- (0) No
- (1) Yes - researcher determined
- (2) VIN determined air bag system
- (3) VIN determined automatic (passive) belts
- (4) VIN determined air bag and automatic (passive) belts

IS OLDMISS APPLICABLE FOR THIS VEHICLE? [] YES [X] NO

IF YES: IS A COMPLETED OLDMISS PROGRAM SUMMARY INCLUDED? [] YES [] NO

37. Police Reported Other Drug Presence 7

- (0) No other drug(s) present
 (1) Yes [other drug(s) present]
 (7) Not reported
 (8) No driver present
 (9) Unknown

38. Police Reported Drug Evaluation Classification (DEC) Test For Driver 0

- (0) No DEC process available or given
 (1) DEC process given, results known
 (2) DEC process given, results unknown
 (3) DEC process available, unknown if given
 (8) No driver present

39. Other Drug Specimen Test Type For Driver 0

- (0) No specimen test given
 (1) Blood test
 (2) Urine test
 (3) Other specimen tests (specify):

 (7) Unspecified specimen test
 (8) No driver present
 (9) Unknown if specimen test given

DRUG EVALUATION CLASSIFICATION

OTHER DRUGS TEST RESULTS FOR DRIVER

	DEC Test Results	Specimen Test Results
Narcotic Drug	40. <u>0</u>	41. <u>0</u>
Depressant Drug	42. <u>0</u>	43. <u>0</u>
Stimulant Drug	44. <u>0</u>	45. <u>0</u>
Hallucinogen Drug	46. <u>0</u>	47. <u>0</u>
Cannabinoid Drug	48. <u>0</u>	49. <u>0</u>
Phencyclidine (PCP)	50. <u>0</u>	51. <u>0</u>
Inhalant Drug	52. <u>0</u>	53. <u>0</u>
Other Drug (Excluding Nicotine, Aspirin, Alcohol, Drugs Administered Post-Crash)	54. <u>0</u>	55. <u>0</u>

Codes For DEC Test Results

- (0) No DEC test given
 (1) Passed DEC test
 (2) Failed DEC test
 (3) DEC test given—results unknown
 (8) No driver present
 (9) Unknown if DEC test given

Codes for Specimen Test Results

- (0) No specimen test given
 (1) Drug not found in specimen
 (2) Drug found in specimen
 (7) Specimen test given, results unknown or not obtained
 (8) No driver present
 (9) Unknown if specimen test given

OTHER DATA

56. Driver's Zip Code

- (00000) Driver not present
 (00001) Driver not a resident of U.S. or territories
 Code actual 5-digit zip code
 (99999) Unknown

57. Driver's Race/Ethnic Origin

- (0) Driver not present
 (1) White (non-Hispanic)
 (2) Black (non-Hispanic)
 (3) White (Hispanic)
 (4) Black (Hispanic)
 (5) American Indian, Eskimo or Aleut
 (6) Asian or Pacific Islander
 (8) Other (specify):
 (9) Unknown

58. Vehicle Special Use (This Trip)

- (0) No special use
 (1) Taxi
 (2) Vehicle used as school bus
 (3) Vehicle used as other bus
 (4) Military
 (5) Police
 (6) Ambulance
 (7) Fire truck or car
 (8) Other (specify):
 (9) Unknown

ROLLOVER DATA

If GV07 (Body Type) \neq 1-49, leave GV59-GV63 blank.
 If GV24 (Rollover) = 0, then GV59-GV63 must equal 0.
 If GV24 = 9, then GV59-GV63 must equal 9.

59. Rollover Initiation Type

- (0) No rollover
 (1) Trip-over
 (2) Flip-over
 (3) Turn-over
 (4) Climb-over
 (5) Fall-over
 (6) Bounce-over
 (7) Collision with another vehicle
 (8) Other rollover initiation type specify:
 (9) Unknown rollover initiation type

60. Location of Rollover Initiation

- (0) No rollover
 (1) On roadway
 (2) On shoulder—paved
 (3) On shoulder—unpaved
 (4) On roadside or divided trafficway median
 (9) Unknown

61. Rollover Initiation Object Contacted

62. Location on Vehicle Where Initial Principal Tripping Force Is Applied

- (0) No rollover
 (1) Wheels/tires
 (2) Side plane
 (3) End plane
 (4) Undercarriage
 (5) Other location on vehicle (specify):
 (8) Non-contact rollover forces (specify):
 (9) Unknown

63. Direction of Initial Roll

- (0) No rollover
 (1) Roll right - primarily about the longitudinal axis
 (2) Roll left - primarily about the longitudinal axis
 (5) End-over-end (i.e., primarily about the lateral axis)
 (9) Unknown roll direction

PRECRASH DATA

64. Pre-Event Movement (Prior to Recognition of Critical Event)

- (01) Going straight
 (02) Slowing or stopping in traffic lane
 (03) Starting in traffic lane
 (04) Stopped in traffic lane
 (05) Passing or overtaking another vehicle
 (06) Disabled or parked in travel lane
 (07) Leaving a parking position
 (08) Entering a parking position
 (09) Turning right
 (10) Turning left
 (11) Making a U-turn
 (12) Backing up (other than for parking position)
 (13) Negotiating a curve
 (14) Changing lanes
 (15) Merging
 (16) Successful avoidance maneuver to a previous critical event
 (97) Other (specify):
 (98) No driver present
 (99) Unknown

PRECRASH DATA (Continued)

65. Critical Precrash Event 78*This Vehicle Loss of Control Due To:*

- (01) Blow out or flat tire
- (02) Stalled engine
- (03) Disabling vehicle failure (e.g., wheel fell off) (specify): _____
- (04) Non-disabling vehicle problem (e.g., hood flew up) (specify): _____
- (05) Poor road conditions (puddle, pot hole, ice, etc.) (specify): _____
- (06) Traveling too fast for conditions
- (08) Other cause of control loss (specify): _____
- (09) Unknown cause of control loss

This Vehicle Traveling

- (10) Over the lane line on left side of travel lane
- (11) Over the lane line on right side of travel lane
- (12) Off the edge of the road on the left side
- (13) Off the edge of the road on the right side
- (14) End departure
- (15) Turning left at intersection
- (16) Turning right at intersection
- (17) Crossing over (passing through) intersection
- (19) Unknown travel direction

Other Motor Vehicle In Lane

- (50) Stopped
- (51) Traveling in same direction with lower speed (i.e., lower steady speed or decelerating)
- (52) Traveling in same direction with higher speed
- (53) Traveling in opposite direction
- (54) In crossover
- (55) Backing
- (59) Unknown travel direction of other motor vehicle in lane

Other Motor Vehicle Encroaching Into Lane

- (60) From adjacent lane (same direction)—over left lane line
- (61) From adjacent lane (same direction)—over right lane line
- (62) From opposite direction—over left lane line
- (63) From opposite direction—over right lane line
- (64) From parking lane
- (65) From crossing street, turning into same direction
- (66) From crossing street, across path
- (67) From crossing street, turning into opposite direction
- (68) From crossing street, intended path not known
- (70) From driveway, turning into same direction
- (71) From driveway, across path
- (72) From driveway, turning into opposite direction
- (73) From driveway, intended path not known
- (74) From entrance to limited access highway
- (78) Encroachment by other vehicle—details unknown

Pedestrian or Pedalcyclist, or Other Nonmotorist

- (80) Pedestrian in roadway
- (81) Pedestrian approaching roadway
- (82) Pedestrian—unknown location
- (83) Pedalcyclist or other nonmotorist in roadway (specify): _____
- (84) Pedalcyclist or other nonmotorist approaching roadway (specify): _____
- (85) Pedalcyclist or other nonmotorist—unknown location (specify): _____

Object or Animal

- (87) Animal in roadway
- (88) Animal approaching roadway
- (89) Animal—unknown location
- (90) Object in roadway
- (91) Object approaching roadway
- (92) Object—unknown location
- (98) Other critical precrash event (specify): _____
- (99) Unknown

For Corrective Actions Attempted see variable GV14
(Attempted Avoidance Maneuver)

66. Precrash Stability After Avoidance Maneuver 0

- (0) No avoidance maneuver
- (1) Tracking
- (2) Skidding longitudinally—rotation less than 30 degrees
- (3) Skidding laterally—clockwise rotation
- (4) Skidding laterally—counterclockwise rotation
- (7) Other vehicle loss-of-control (specify): _____
- (8) No driver present
- (9) Precrash stability unknown

67. Precrash Directional Consequences of Avoidance Maneuver (Corrective Action) 0

- (0) No avoidance maneuver
- (1) Vehicle stayed in travel lane where avoidance maneuver was initiated
- (2) Vehicle stayed on roadway but left travel lane where avoidance maneuver was initiated
- (3) Vehicle stayed on roadway, not known if left travel lane where avoidance maneuver was initiated
- (4) Vehicle departed roadway
- (5) Avoidance maneuver initiated off roadway
- (8) No driver present
- (9) Directional consequences unknown

*** IF THE CDS APPLICABLE VEHICLE WAS NOT INSPECTED (I.E., GV35 = 0), ***
DO NOT COMPLETE THE EXTERIOR AND INTERIOR VEHICLE FORMS.

*** IF GV07 DOES NOT EQUAL 01-49, DO NOT COMPLETE ***
THE EXTERIOR VEHICLE, INTERIOR VEHICLE,
OCCUPANT ASSESSMENT, AND OCCUPANT INJURY FORMS.

Appendix G:

NASS CDS INTERVIEW FORM:

CASE VEHICLE DRIVER



INTERVIEW FORM (A)

1. Primary Sampling Unit Number <u>10</u>	Interviewee(s) Role or Name(s): <u>DRIVER</u>
2. Case Number - Stratum <u>9421</u>	
3. Vehicle Number <u>01</u>	

Review all available information and interview questions prior to conducting interview(s) to ensure the acquisition of all pertinent data.


If the driver was not the person interviewed, was an appointment made for a follow-up interview?

DRIVER'S DESCRIPTION OF ACCIDENT EVENTS

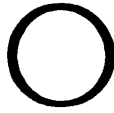
I was N/B into intersection (Red Blinking light) proceeded 5-10 m.p.h. CAR came from (R) (Blinking yellow) I braked and turned (R) into the other CAR that was westbound

OCCUPANT'S DESCRIPTION OF ACCIDENT EVENTS

Repair Bill Avail DOB 45

 Co. NY

ACCIDENT DIAGRAM



NORTH

The use of this diagram is optional. It may serve to aid in relating interviewee accident trajectory data (i.e., pre-impact to FRP orientations) to identifiable objects in the environment.



INTERVIEW FORM (B)

1. Primary Sampling Unit Number 10
2. Case Number - Stratum 9421
3. Vehicle Number 01

Interviewee(s) Role or Name(s): DRIVER

ACCIDENT DATA QUESTIONS

1. Can you tell me in which direction you were traveling?

☒ North ☐ South ☐ East ☐ West

(Optional - Where were you coming from or going to?)

2. In which lane were you traveling?

(Note: Lane 1 is designated as the right curb lane.)

☒ (1) ☐ (2) ☐ (3) ☐ (4) ☐ Other (specify):

3. Can you remember your estimated travel speed (in miles per hour) before the accident?

☐ Stopped ☒ 1-10 ☐ 10-20
☐ 20-30 ☐ 30-40 ☐ 40-50
☐ 50-60 ☐ 60-70 ☐ 70+

4. Just before the accident, can you tell me what you were intending to do or were doing?

☒ Going straight ☐ Stopped
☐ slowing ☐ Accelerating
☐ Turning left ☐ Turning right
☐ Changing lanes to left ☐ Changing lanes to right
☐ Backing
☐ Other (specify): _____

5. Did you experience any loss of control due to weather conditions or mechanical problems?

☒ No
☐ Yes (If yes, describe below)

6. Did you have to take any avoidance actions prior to the accident?

☐ No - Go to question 7
☒ Yes - Go to question 6a

6a. What actions did you take?

☐ Braking with lock-up
☒ Braking without lock-up
☐ Releasing brakes
☐ Accelerating
☐ Steering left
☒ Steering right
☐ Other (specify):

7. Where was your vehicle at the time of the collision?

☐ Original travel lane ☐ Different travel lane
☒ In intersection ☐ Off roadway to right
☐ Off roadway to left
☐ Other (specify): _____

8. Was your travel speed at the time of the collision different from your previous travel speed?

☒ No
☐ Lower
☐ Higher
☐ Unknown

8a. Can you estimate your speed at the time of the collision?

☐ Stopped ☐ 1-10 ☐ 10-20
☐ 20-30 ☐ 30-40 ☐ 40-50
☐ 50-60 ☐ 60-70 ☐ 70+

9. Immediately following the collision, can you describe how your vehicle moved to its stopped position?

10. Can you tell me how many collisions your vehicle had during the accident and the source of the collisions?

1 collision

1. Primary Sampling Unit Number

10

3. Vehicle Number

01

2. Case Number - Stratum

9421

4. Occupant Number

01

VEHICLE/DRIVER DATA QUESTIONS

1. Can you tell me the year, make, model of your vehicle?

1993 TOY CAMRY
 Year Make Model

2. Can you describe the damage to your vehicle?

FRONT END MINOR

3. Was there any previous damage to your vehicle that is not related to this accident?

☒ No☐ Yes (If "yes", describe below)

4. Did any of the doors (hatch, tailgate) open during the accident?

☒ No☐ Yes (If "Yes", describe below)

5. Did any of the windows break during the accident?

☒ No☐ Yes (If "Yes", describe below)

6. Does your vehicle have a glove compartment?

☐ No☒ Yes

6a. Did the glove compartment door come open during the accident?

☐ No☐ Yes☒ Unknown

7. Does your vehicle have "seat belts"?

☐ No (If "No", go to question 7b)☐ Yes (If "Yes", go to question 7a)

7a. Can you describe the type of seat belt for each seat?

Driver's seat	<input type="checkbox"/> Lap	<input checked="" type="checkbox"/> Lap and shoulder
Front seat middle	<input type="checkbox"/> Lap	<input type="checkbox"/> Lap and shoulder
Front seat right	<input type="checkbox"/> Lap	<input checked="" type="checkbox"/> Lap and shoulder
Rear seat left	<input type="checkbox"/> Lap	<input checked="" type="checkbox"/> Lap and shoulder
Rear seat middle	<input checked="" type="checkbox"/> Lap	<input type="checkbox"/> Lap and shoulder
Rear seat right	<input type="checkbox"/> Lap	<input checked="" type="checkbox"/> Lap and shoulder

(Identify seat belts for third row and beyond)

7b. Were any of the belts removed or not functional prior to the accident?

☐ No☐ Yes (If "Yes", specify which belt and describe problem)

8. Do any of the front belts move along a motorized track when the door is opened or closed?

☐ No (If "No", go to question 9)☐ Yes (If "Yes", what seat location?)☐ Left Front☐ Right Front

8a. Were the motorized belts working properly before the accident?

☐ No (If "No", describe condition below)☐ Yes

8b. Were the belts connected to the track prior to the accident?

☐ No☐ Yes☐ Unknown

9. Do any of the front "seat" belts attach to the door such that when the door is opened the belt travels with the door?

☐ No (go to question 10)☐ Yes

9a. Does this belt come across the _____?

☐ Chest only☐ Lap and chest

9b. Was this belt connected prior to the accident?

☐ No☐ Yes☐ Unknown

AIR BAGS

10. Is your vehicle equipped with a driver's side air bag?

☒ No (go to question 11)☐ Yes (go to question 10a)☐ Unknown (go to question 11)

10a. Did the air bag inflate during the accident?

☐ No (go to questions 10b and 10c)☒ Yes (go to question 10e)

1. Primary Sampling Unit Number

10

3. Vehicle Number

01

2. Case Number - Stratum

9421

4. Occupant Number

01

VEHICLE/DRIVER DATA QUESTIONS (CONTINUED)

10b. Was the air bag wiring disconnected prior to the accident?

☐ No☐ Yes (If "Yes", describe previous condition)☐ Unknown

10c. Was your vehicle involved in any accidents prior to this accident which inflated the air bag?

☒ No (go to question 11)☐ Yes (go to question 10d)☐ Unknown

10d. Was the air bag re-installed after the accident?

☐ No (go to question 11)☐ Yes☐ Unknown

10e. Did the air bag inflate as you expected?

☐ No (If "No" describe below)☒ Yes☐ Unknown

11. Is your vehicle equipped with a passenger side air bag?

☒ No (If "No", go to question 12)☐ Yes (If "Yes", go to question 11a)☐ Unknown (If "Unknown", go to question 12)

11a. Did the passenger air bag inflate during the accident?

☐ No (go to question 11b)☐ Yes (go to question 12)

11b. Was the passenger air bag wiring disconnected prior to the accident?

☐ No☐ Yes (If "Yes", describe below)☐ Unknown

11c. Was the passenger air bag inflated in a previous accident?

☐ No (go to question 12)☐ Yes (go to question 11d)☐ Unknown

11d. Was the passenger air bag re-installed after the accident?

☐ No (go to question 12)☐ Yes☐ Unknown

11e. Did the passenger air bag inflate as you expected?

☐ No (If "No" describe below)☐ Yes☐ Unknown

CHILD SAFETY SEAT

12. Was there a person in a child safety seat in your vehicle?

☒ No (If "No", go to question 13)☐ Yes☐ Unknown

12a. Can you tell me the manufacturer and model of the child safety seat?

12b. Can you describe the type of child safety seat?

☐ Infant☐ Toddler☐ Convertible☐ Booster☐ Other (specify):☐ Unknown

12c. Where was the child safety seat(s) located?

☐ [12] ☐ [13]☐ [21] ☐ [22] ☐ [23]☐ [31] ☐ [32] ☐ [33]☐ [Other] (specify):

12d. Can you tell me which direction the child safety seat was facing prior to the accident?

☐ Rear facing☐ Forward facing,☐ Other (specify):☐ Unknown

12e. Was a seat belt used to hold the child seat in place?

☐ No (If "No", go to question 12g)☐ Yes (If "Yes", go to question 12f)☐ Unknown

12f. Can you describe how the seat belt was secured to the child seat?

☐ Looped through designated rear framing struts?☐ Looped through arm rest slots?☐ Belt across safety shield?☐ Looped through rear frame outside the designated framing struts?☐ Other (specify):☐ Unknown

12g. What was the child safety seat equipped with at the time of purchase? (check all that apply)

☐ Harness☐ Shield☐ Tether strap

If any box is checked, ask questions 12h - 12i.

1. Primary Sampling Unit Number

10

3. Vehicle Number

01

2. Case Number - Stratum

9421

4. Occupant Number

01

VEHICLE/DRIVER DATA QUESTIONS (CONTINUED)

12h. Were any of these items added after you owned the child safety seat?

☐ Yes

(specify _____)

☐ No☐ Unknown

12i. Were any of these items used during the accident?

☐ Yes (If "Yes", check all that apply)☐ Harness☐ Shield☐ Tether strap☐ No☐ Unknown

OPTIONAL

If you do not know where the vehicle is or if the owner's permission is needed for inspection.

15. Do you know where the vehicle is currently located?

16. May I take a look at your vehicle to assess the damage?

☐ No☐ Yes

DRIVER ONLY

17. What race do you consider yourself?

☒ White☐ Black☐ American Indian, Eskimo or Aleut, Asian or Pacific Islander☐ Other (specify: _____)☐ Unknown.

18. Are you of hispanic origin?

☒ No☐ Yes

CARGO WEIGHT AND MILEAGE

13. Was there any cargo in your vehicle?

☐ No (If "No", go to question 14)☐ Yes (If "Yes", go to question 13a)☐ Unknown

13a. Can you estimate the weight of the cargo?

0 lbs.

Cargo description

14. Can you tell me the mileage on the vehicle?

13000 miles

1. Primary Sampling Unit Number 10 3. Vehicle Number 01
 2. Case Number - Stratum 94 21 4. Occupant Number 01

VEHICLE ROLLOVER/FIRE QUESTIONS

ROLLOVER QUESTIONS

1. Did the vehicle rollover during the accident?
☒ No (If "No", go to question 2.)
☐ Yes
☐ Unknown (skip to question 2)

1a. Describe where the rollover began.

- ☐ On roadway
☐ On shoulder
☐ On roadside or median
☐ Unknown

1b. What caused the vehicle to rollover?

- ☐ Other vehicle (specify vehicle number): _____
☐ Contacted object (specify): _____
☐ Other cause (specify): _____
☐ Unknown

1c. Describe which direction the vehicle rolled.

- ☐ Toward the right
☐ Toward the left
☐ End-over-end
☐ Unknown

1d. Estimate the number of sides (including the top and bottom) which contacted the ground during the rollover?

- ☐ 1 side
☐ 2 sides
☐ 3 sides
☐ 4 sides
☐ Unknown

1e. Did the vehicle roll over more than one complete turn (more than 4 sides)?

- ☐ No (If "No", go to question 1g.)
☐ Yes

1f. Estimate the number of complete turns.

- ☐ No
☐ Yes (specify): _____
☐ Unknown

1g. When the vehicle stopped rolling over, which side of the vehicle was in contact with the ground?

- ☐ Left side
☐ Right side
☐ Top
☐ Wheels
☐ Unknown

FIRE QUESTIONS

2. Did the vehicle experience a fire?
☒ No (If "No", skip to Occupant Data Questions)
☐ Yes
☐ Unknown

2a. Describe where the fire started or where smoke was first seen.

- ☐ Under the hood
☐ Behind the instrument panel
☐ In the passenger compartment
☐ In the trunk/cargo area
☐ Under the vehicle
☐ From other involved vehicle
☐ Unknown

2b. Did the fire start with the electrical system?

- ☐ No
☐ Yes (specify): _____
☐ Unknown

2c. Did the fire start with the fuel system?

- ☐ No (If "No", skip to Occupant Data Questions)
☐ Yes (go to question 2d)
☐ Unknown

2d. Describe which part of the fuel system that may have been involved?

- ☐ No
☐ Yes (specify): _____
 _____ Fuel tank
 _____ Fuel lines
 _____ Engine compartment (specify component if known)
☐ Unknown

(Go To Occupant Data Questions)

COMMENTS ON ROLLOVERS AND FIRES

1. Primary Sampling Unit Number

10

3. Vehicle Number

01

2. Case Number - Stratum.

9421

4. Occupant Number

01

OCCUPANT DATA QUESTIONS

1. Was there anyone else in your vehicle at the time of the accident?

- ☒ No (If "No", go to question 4)
☐ Yes (If "Yes", specify number in question 2 below and then go to question 3)
☐ Unknown

2. How many?

- [1] One other person
 [2] Two other persons
 [3] Three other persons
 [4] Four other persons
 [5] Five other persons
 [6] Six other persons
 [7] Seven or more other persons
 (specify number:)

3. Where was this person sitting? (Circle seating positions)

- [12] [13]
 [21] [22] [23]
 [31] [32] [33]
☐ Other (specify:)

OCCUPANT CHARACTERISTICS

4. Can I have your (his/her) height, weight, age, and sex?

Height 5'5" Weight 105 Age 49Sex: ☐ Male ☒ Female

OCCUPANT POSTURE

5. Can you tell me how you (he/she was) were sitting in your vehicle?

normal

5a. Can you describe the location of your (his/her) feet just prior to the collision?

Ⓛ on floor Ⓡ on BRAKE.

5b. Can you describe the location of your (his/her) arms?

Both ARMS on steering wheel

5c. Was your (his/her) back resting against the seat back rest?

☐ No (If "No", describe the position)

- ☒ Yes
☐ Unknown

5d. Were you (Was he/she)

- ☒ Sitting upright or
☐ Leaning to left side, or
☐ Leaning to right side?

OCCUPANT EJECTION

6. Were you (Was he/she) or any part of your (his/her) body thrown from the vehicle during the accident?

- ☒ No (If "No", go to question 7)
☐ Yes (If "Yes", go to question 6a)
☐ Unknown

6a. Can you remember out of what area of the vehicle you were (he/she was) thrown?

- ☐ No
☐ Yes (Describe:)

OCCUPANT RESTRAINT

7. Were you (Was he/she) wearing a seat belt just before the accident?

- ☐ No (If "No", go to question 8)
☒ Yes
☐ Unknown

7a. Were you (Was he/she) wearing the

- ☐ Lap belt?
☒ Lap and Shoulder belt?
☐ Shoulder belt?

7b. Can you describe how you were (he/she was) wearing the lap belt?

- ☐ Across the stomach
☒ Low on lap
☐ Other (specify:)
☐ Unknown

7c. Can you describe how you were (he/she was) wearing the shoulder belt?

- ☒ Over the shoulder
☐ Under the arm
☐ Behind the back
☐ Behind the seat
☐ Other (specify:)

7d. Did any part of the belt system break or tear?

- ☒ No
☐ Yes (If "Yes", describe)
☐ Unknown

OCCUPANT ENTRAPMENT

8. Were you (Was he/she) trapped in the vehicle?

- ☒ No
☐ Yes (If "Yes", describe)

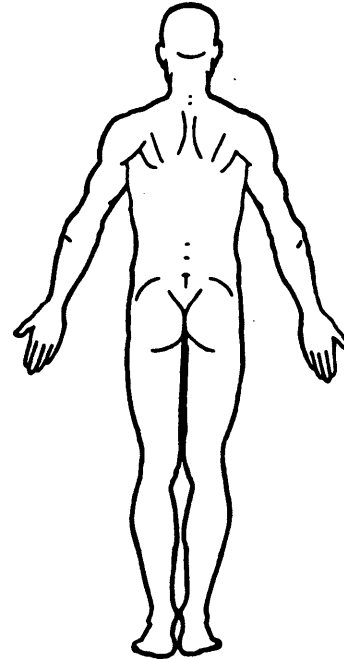
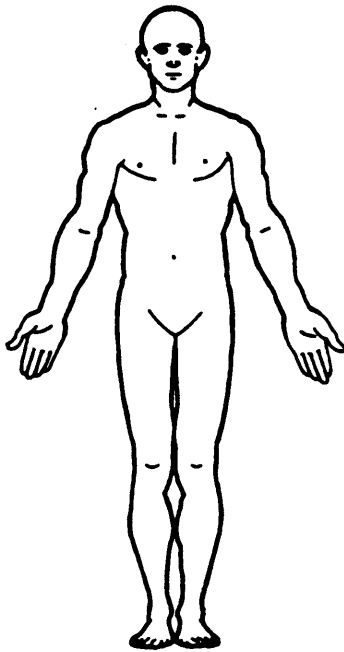
☐ Unknown

PSU Number 18Case Number—Stratum 9421Vehicle Number 01Occupant Number 01

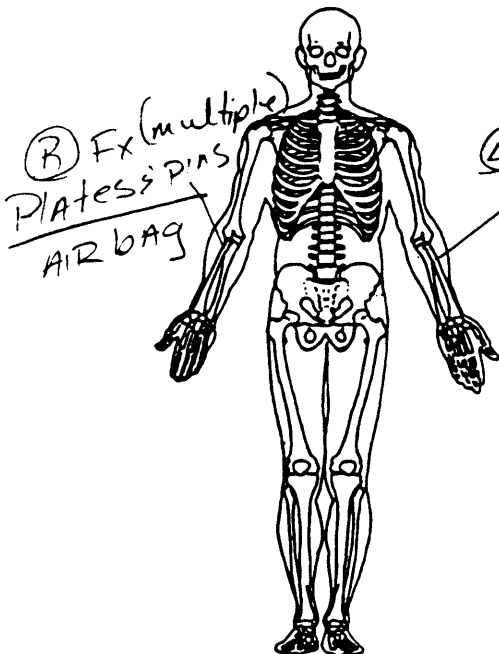
INJURY DATA FROM INTERVIEWEE(S)

Indicate the Location, Lesion, Detail, and Source of all injuries. Specify interviewee(s): DRIVER

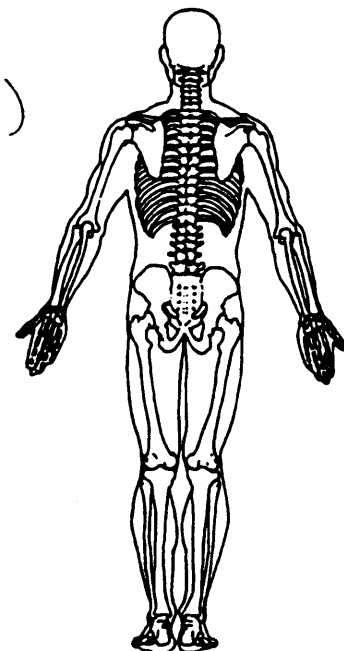
SOFT TISSUE/INTERNAL INJURIES



SKELETAL INJURIES



④ Fx (multiple)
pins & rods
AIR bag



National Accident Sampling System-Crashworthiness Data System: Interview Form (B)

Page 9

1. Primary Sampling Unit Number 10 3. Vehicle Number 01
2. Case Number - Stratum 9421 4. Occupant Number 01

OCCUPANT INJURY DATA QUESTIONS (CONTINUED)

7e. Have you (Has he/she) received any follow-up treatment?

- ☐ No
☒ Yes (If "Yes", describe:)

☐ Unknown

7f. In order to achieve the best possible scientific data regarding your (his/her) injury(s), we need to obtain a copy of your (his/her) medical reports. Would you (he/she) sign a medical release form?

- ☐ No
☒ Yes (If "Yes", mail or present the form for signature.)

8. Have you (he/she) lost any days from work or school (college)?

- ☐ No
☐ Yes (If "Yes", determine the number of days lost) (Specify:)

- ☒ Not working prior to the accident
☐ Unknown

Rehab Ins

AHN MED REC

inter
CAR
NO GLASSES
fairly once a month
very fam
going to friends.

Hosp

AVE

, NY

AHN MED REC.

Appendix H:

NASS CDS OCCUPANT ASSESSMENT FORM:

CASE VEHICLE DRIVER



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

OCCUPANT ASSESSMENT FORM

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

NATIONAL ACCIDENT SAMPLING SYSTEM
CRASHWORTHINESS DATA SYSTEM

OCCUPANT'S SEATING	
1. Primary Sampling Unit Number	<u>10</u>
2. Case Number - Stratum	<u>94</u> <u>21</u>
3. Vehicle Number	<u>01</u>
4. Occupant Number	<u>01</u>
OCCUPANT'S CHARACTERISTICS	
5. Occupant's Age	<u>49</u>
Code actual age at time of accident. (00) Less than one year old (specify by month): (97) 97 years and older (99) Unknown	
6. Occupant's Sex	<u>2</u>
(1) Male (2) Female (9) Unknown	
7. Occupant's Height	<u>165</u>
Code actual height to the nearest centimeter. (999) Unknown <u>65</u> inches X 2.54 = <u>165</u> centimeters	
8. Occupant's Weight	<u>048</u>
Code actual weight to the nearest kilogram. (999) Unknown <u>105</u> pounds X .4536 = <u>47.6</u> kilograms	
9. Occupant's Role	<u>1</u>
(1) Driver (2) Passenger (9) Unknown	
10. Occupant's Seat Position	<u>11</u>
<i>Front Seat</i> (11) Left side (12) Middle (13) Right side (14) Other (specify): _____ (15) On or in the lap of another occupant <i>Second Seat</i> (21) Left side (22) Middle (23) Right side (24) Other (specify): _____ (25) On or in the lap of another occupant <i>Third Seat</i> (31) Left side (32) Middle (33) Right side (34) Other (specify): _____ (35) On or in the lap of another occupant <i>Fourth Seat</i> (41) Left side (42) Middle (43) Right side (44) Other (specify): _____ (45) On or in the lap of another occupant (97) In or on unenclosed area (98) Other seat (specify): _____ (99) Unknown	
11. Occupant's Posture	<u>0</u>
(0) Normal posture <i>Abnormal posture</i> (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

- (0) No ejection
- (1) Complete ejection
- (2) Partial ejection
- (3) Ejection, unknown degree
- (9) Unknown

13. Ejection Area 0

- (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

14. Ejection Medium 0

- (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

15. Medium Status (Immediately Prior To Impact) 0

- (0) No ejection
- (1) Open
- (2) Closed
- (3) Integral structure
- (9) Unknown

16. Entrapment 0

(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

RESTRAINT SYSTEM EVALUATION

17. Manual (Active) Belt System Availability 4

- (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)
- (7) Lap belt (shoulder belt destroyed/removed)

(8) Other belt (specify): _____

(9) Unknown

18. Manual (Active) Belt System Use 04

- (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): _____

(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 1

- (0) None used or not available
- (1) Belt used properly
- (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): _____

(9) Unknown

20. Manual (Active) Belt Failure Modes 0*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

21. Air Bag System Availability/Function 1

- (0) Not equipped/not available
- (1) Air bag

Non-functional

(2) Air bag disconnected (specify): _____

(3) Air bag not reinstalled

(9) Unknown

22. Air Bag System Deployment 1

- (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)
- (9) Unknown

23. Are There Indications of Air Bag System Failure? 1

- (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

24. Police Reported Restraint Use 4

- (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"

HEAD RESTRAINT AND SEAT EVALUATION

25. Head Restraint Type/Damage by Occupant
at This Occupant Position9

- (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): _____
- (9) Unknown

26. Seat Type (this Occupant Position)

9 9

- (00) Occupant not seated or no seat
- (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

27. Seat Performance (this Occupant Position)

9

- (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): _____
- (9) Unknown

CHILD SAFETY SEAT

28. Child Safety Seat Make/Model 000

(000) No child safety seat

Applicable codes are found in your NASS CDS
Data Collection, Coding and Editing

(950) Built-in child safety seat

(997) Other make/model (specify):

(998) Unknown make/model

(999) Unknown if child safety seat used

29. Type of Child Safety Seat 0

(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

(9) Unknown if child safety seat used

30. Child Safety Seat Orientation 00

(00) No child safety seat

Designed for Rear Facing for This Age/Weight

(01) Rear facing

(02) Forward facing

(08) Other orientation (specify):

(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

31. Child Safety Seat Harness Usage 0032. Child Safety Seat Shield Usage 0033. Child Safety Seat Tether Usage 00Note: 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

(19) Unknown if 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

34. Injury Severity (Police Rating) 2

- (0) O - No injury
- (1) C - Possible injury
- (2) B - Nonincapacitating injury
- (3) A - Incapacitating injury
- (4) K - Killed
- (5) U - Injury, severity unknown
- (6) Died prior to accident
- (9) Unknown

35. Treatment - Mortality 3

- (0) No treatment
- (1) Fatal
- (2) Fatal - ruled disease (specify):

Nonfatal

- (3) Hospitalization
- (4) Transported and released
- (5) Treatment at scene - nontransported
- (6) Treatment later
- (8) Treatment - other (specify):

- (9) Unknown

36. Type Of Medical Facility (for Initial Treatment) 1

- (0) Not treated at a medical facility
- (1) Trauma center
- (2) Hospital
- (3) Medical clinic
- (4) Physician's office
- (5) Treatment later at medical facility
- (8) Other (specify):

- (9) Unknown

37. Hospital Stay 05

- (00) Not Hospitalized
- _____ Code the number of days (up through 60) that the occupant stayed in hospital.
- (61) 61 days or more
- (99) Unknown

38. Working Days Lost 97

- _____ Code the number of days (up through 60) that the occupant lost from work due to the accident
- (00) No working days lost
- (61) 61 days or more
- (62) Fatally injured
- (97) Not working prior to accident
- (99) Unknown

STOP - GO TO VARIABLE 44 ON PAGE 7**VARIABLES 39 THROUGH 43 ARE COMPLETED BY THE ZONE CENTER**39. Time to Death 00

- _____ Code number of hours from time of accident to time of death up through 24 hours. If time of death is greater than 24 hours, code number of days. (Note: 1 day = 31, 2 days = 32, ... n days = 30 + n up through 30 days = 60)
- (00) Not fatal
- (96) Fatal - ruled disease
- (99) Unknown

40. 1st Medically Reported Cause of Death 0041. 2nd Medically Reported Cause of Death 0042. 3rd Medically Reported Cause of Death 00

- _____ Code the Occupant Injury from line number(s) for the medically reported injury(s) which reportedly contributed to this occupant's death
- (00) Not fatal or no additional causes
- (96) Mode of death given but specific injuries are not linked to cause of death. (specify):

- (97) Other result (includes fatal ruled disease) (specify):

- (99) Unknown

43. Number of Recorded Injuries for This Occupant 01

- _____ Code the actual number of injuries recorded for this occupant.
- (00) No recorded injuries
- (97) Injured, details unknown
- (99) Unknown if injured

AUTOMATIC BELT SYSTEM**44. Automatic (Passive) Belt System Availability/Function** 0

- (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

45. Automatic (Passive) Belt System Use 0

- (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

46. Automatic (Passive) Belt System Type 0

- (0) Not equipped/not available
- (1) Non-motorized system
- (2) Motorized system
- (9) Unknown

47. Proper Use of Automatic (Passive) Belt System 0

- (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

48. Automatic (Passive) Belt Failure Modes During Accident 0

- (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): _____

- (9) Unknown

49. Seat Orientation (this Occupant Position) 9

- (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): _____

- (9) Unknown

Check the Primary Source Used In Determining Belt Use.

- [] Not equipped/not available/destroyed or rendered inoperative
- [] Vehicle inspection
- [] Official injury data
- [x] Driver/occupant interview
- [] Other (specify): _____

- [] Unknown if belt used

ARE ALL APPLICABLE MEDICAL RECORDS INCLUDED WITH INITIAL SUBMISSION?

NO [x] YES []

UPDATE CANDIDATE?

NO [x] YES []

STOP - VARIABLES 50 THROUGH 53 ARE COMPLETED BY THE ZONE CENTER**TRAUMA DATA**

50. Glasgow Coma Scale (GCS) Score 02
(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

51. Was the Occupant Given Blood? 9
(1) No - blood not given
(2) Yes - blood given
(specify units): _____
(9) Unknown if blood given

52. Arterial Blood Gases (ABG) - HCO_3 01
(00) Not injured
(01) Injured, ABGs not measured or reported
(02-50) Code the actual value of the HCO_3
(96) ABGs reported, HCO_3 unknown
(97) Injured, details unknown
(99) Unknown if injured

BELT USE DETERMINATION

53. Primary Source of Belt Use Determination 3
(0) Not equipped/not available/destroyed or rendered inoperative
(1) Vehicle inspection
(2) Official injury data
(3) Driver/occupant interview
(8) Other (specify): _____
(9) Unknown if belt used

Appendix I:

NASS CDS OCCUPANT INJURY FORM:

CASE VEHICLE DRIVER



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

10

3. Vehicle Number

01

2. Case Number - Stratum

9421

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.

Source of Injury Data	A.I.S. - 90						Injury Source	Injury Source Confidence Level	Direct/ Indirect Injury	Occupant Area Intrusion Number	
	Body Region	Type of Anatomic Structure	Specific Anatomic Structure	Level of Injury	A.I.S. Severity	Aspect					
1st	5. <u>7</u>	6. <u>7</u>	7. <u>5</u>	8. <u>18</u>	9. <u>00</u>	10. <u>2*</u>	11. <u>1</u>	12. <u>45</u>	13. <u>3</u>	14. <u>1</u>	15. <u>99</u>
2nd	16. <u>7</u>	17. <u>7</u>	18. <u>5</u>	19. <u>18</u>	20. <u>00</u>	21. <u>2*</u>	22. <u>2</u>	23. <u>45</u>	24. <u>3</u>	25. <u>1</u>	26. <u>99</u>
3rd	27. <u> </u>	28. <u> </u>	29. <u> </u>	30. <u> </u>	31. <u> </u>	32. <u> </u>	33. <u> </u>	34. <u> </u>	35. <u> </u>	36. <u> </u>	37. <u> </u>
4th	38. <u> </u>	39. <u> </u>	40. <u> </u>	41. <u> </u>	42. <u> </u>	43. <u> </u>	44. <u> </u>	45. <u> </u>	46. <u> </u>	47. <u> </u>	48. <u> </u>
5th	49. <u> </u>	50. <u> </u>	51. <u> </u>	52. <u> </u>	53. <u> </u>	54. <u> </u>	55. <u> </u>	56. <u> </u>	57. <u> </u>	58. <u> </u>	59. <u> </u>
6th	60. <u> </u>	61. <u> </u>	62. <u> </u>	63. <u> </u>	64. <u> </u>	65. <u> </u>	66. <u> </u>	67. <u> </u>	68. <u> </u>	69. <u> </u>	70. <u> </u>
7th	71. <u> </u>	72. <u> </u>	73. <u> </u>	74. <u> </u>	75. <u> </u>	76. <u> </u>	77. <u> </u>	78. <u> </u>	79. <u> </u>	80. <u> </u>	81. <u> </u>
8th	82. <u> </u>	83. <u> </u>	84. <u> </u>	85. <u> </u>	86. <u> </u>	87. <u> </u>	88. <u> </u>	89. <u> </u>	90. <u> </u>	91. <u> </u>	92. <u> </u>
9th	93. <u> </u>	94. <u> </u>	95. <u> </u>	96. <u> </u>	97. <u> </u>	98. <u> </u>	99. <u> </u>	100. <u> </u>	101. <u> </u>	102. <u> </u>	103. <u> </u>
10th	104. <u> </u>	105. <u> </u>	106. <u> </u>	107. <u> </u>	108. <u> </u>	109. <u> </u>	110. <u> </u>	111. <u> </u>	112. <u> </u>	113. <u> </u>	114. <u> </u>

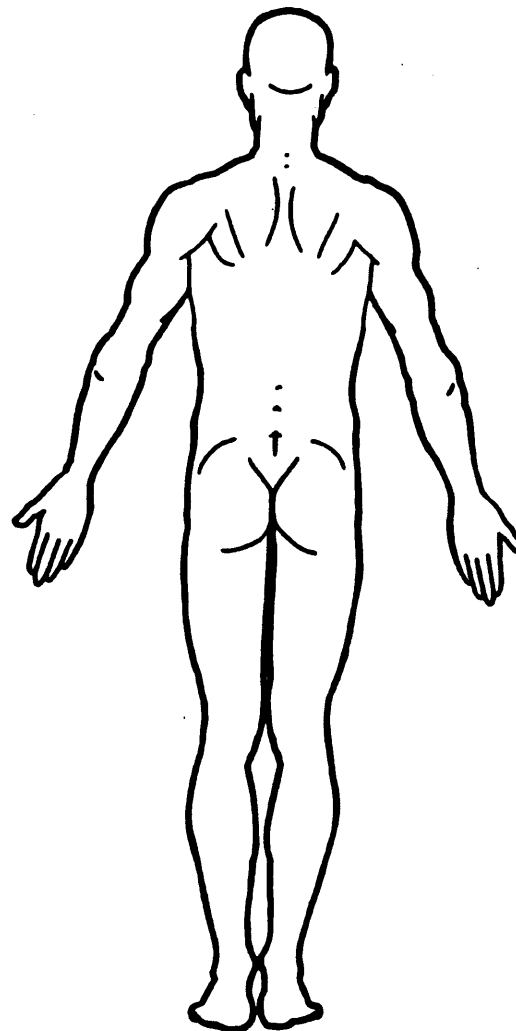
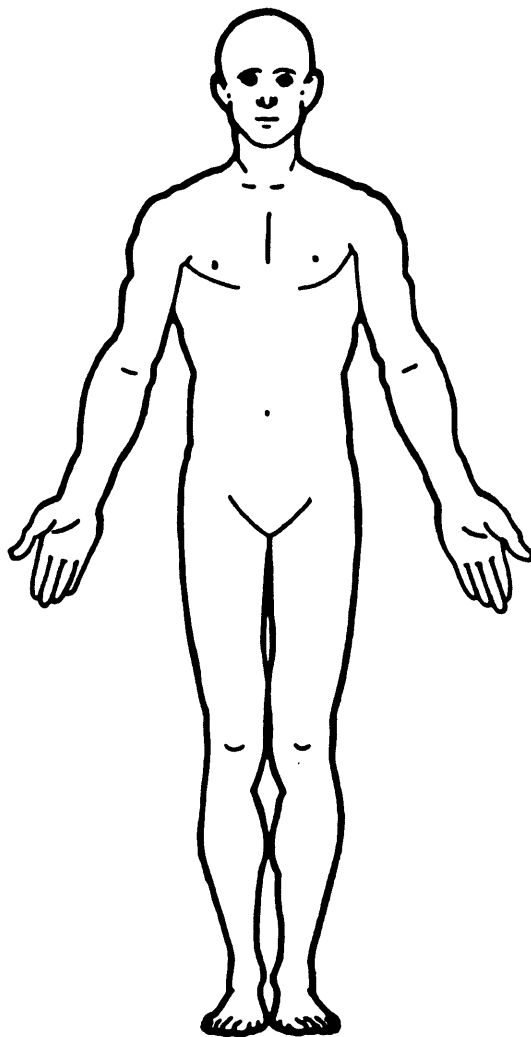
* This contractor has the dilemma of either not coding any injuries or coding the two injuries listed because AIS '90 does not allow coding unknown information. This contractor would prefer to code OI07-OI09 and OI18-OI20 as unknown, but cannot. In addition, this contractor would prefer to code OI10 and OI21 as 7.

OCCUPANT INJURY DATA

[illegible]

OFFICIAL INJURY DATA — SOFT TISSUE INJURIES

Indicate the Location, Specific Anatomic Structure, Detail (size, depth, fracture type, head injury clinical signs and neurological deficits), and Source of all injuries indicated by official sources (or from PAR or other unofficial sources if medical records and interviewee data are unavailable.)



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)
- (4) Private physician, walk-in or emergency clinic

UNOFFICIAL

- (5) Lay coroner report
- (6) E.M.S. personnel
- (7) Interviewee
- (8) 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
- (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)
- (16) Driver side air bag compartment cover
- (17) Passenger side air bag compartment cover
- (18) 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
- (31) 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
- (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

INTERIOR

- (40) Seat, back support
- (41) Belt restraint webbing/buckle
- (42) Belt restraint B-pillar or door frame attachment point
- (43) 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): _____
- (73) Hood
- (74) Hood ornament
- (75) Windshield, roof rail, A-pillar
- (76) Side surface
- (77) Side mirrors
- (78) Other side protrusions (specify): _____

- (79) Rear surface
- (80) Undercarriage
- (81) Tires and wheels
- (82) Other exterior of other motor vehicle (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

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

OCCUPANT INJURY CLASSIFICATION

Body Region

- (1) Head
- (2) Face
- (3) Neck
- (4) Thorax
- (5) Abdomen
- (6) Spine
- (7) Upper Extremity
- (8) Lower Extremity
- (9) Unspecified

Type of Anatomic Structure

- (1) Whole Area
- (2) Vessels
- (3) Nerves
- (4) Organs (includes muscles/ligaments)
- (5) Skeletal (includes joints)
- (6) Head - LOC
- (9) Skin

Specific Anatomic Structure

Whole Area

- (02) Skin - Abrasion
- (04) Skin - Contusion
- (06) Skin - Laceration
- (08) Skin - Amputation
- (10) Amputation
- (20) Burn
- (30) Crush
- (40) Degloving
- (50) Injury - NFS
- (90) Trauma, other than mechanical

Head - LOC

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

Spine

- (02) Cervical
- (04) Thoracic
- (08) 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

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

Aspect

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

OFFICIAL INJURY DATA — SKELETAL INJURIES

Restrained?

___ No

___ Yes

Blood Alcohol
Level (mg/dl)

BAL = ___

Glasgow Coma
Scale Score

GCSS = ___

Units of Blood
Given

Units = ___

Arterial Blood
Gases

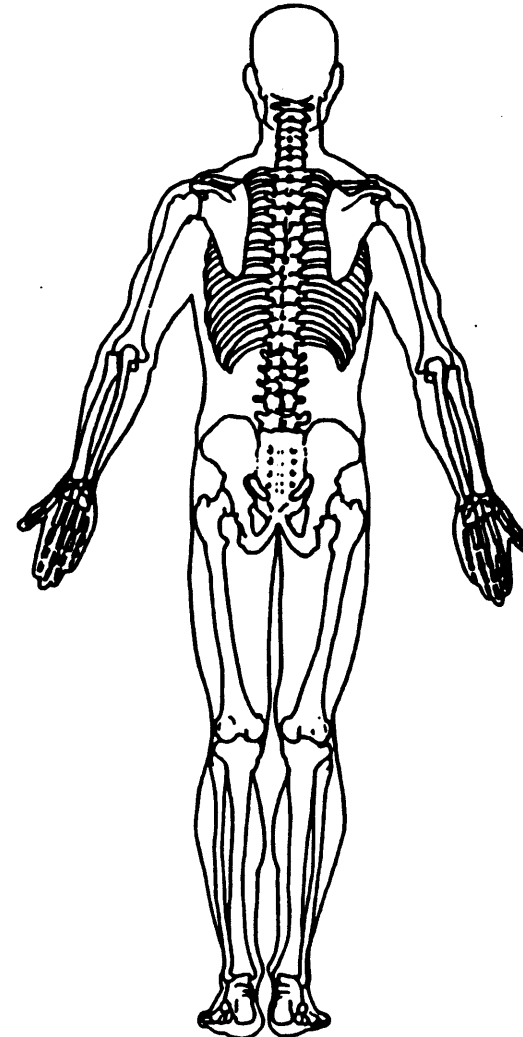
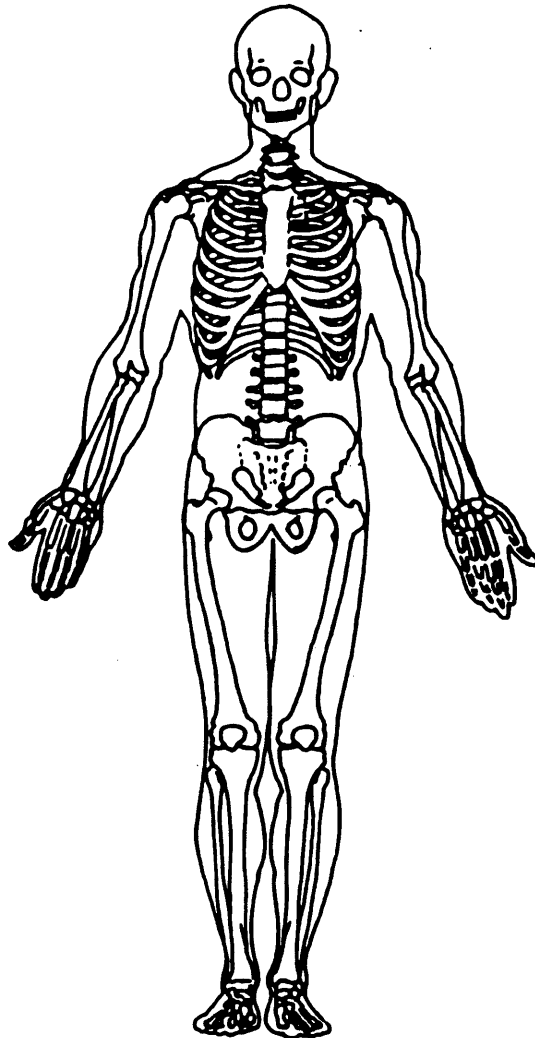
pH = ___

PO₂ = ___

PCO₂ ___

HCO₃ ___

Indicate the Location, Specific Anatomic Structure, Detail (size, depth, fracture type, head injury clinical signs and neurological deficits), and Source of all injuries indicated by official sources (or from PAR or other unofficial sources if medical records and interviewee data are unavailable.)



OFFICIAL INJURY DATA —INTERNAL INJURIES

Indicate the Location, Specific Anatomic Structure, Detail (size, depth, fracture type, head injury clinical signs and neurological deficits), and Source of all injuries indicated by official sources (or from PAR or other unofficial sources if medical records and interviewee data are unavailable.)

