



U.S. Department of Transportation

National Highway Traffic Safety Administration

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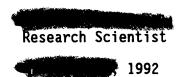
#### TRANSPORTATION RESEARCH CENTER

## Indiana University Indiana

#### REMOTE AIR BAG REPORT

CASE NO. - 92-08
FLEET - PRIVATE VEHICLE
LOCATION - FLORIDA
ACCIDENT DATE - 1991

#### Submitted By:



**Revised Submission:** 

1993

Contract Number: DTNH22-87-C-07169

#### Prepared for:

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

#### **DISCLAIMERS**

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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 precrash, 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.

## Transportation Research Center Indiana University

Remote Air Bag Case No. 92-08

#### Summary

This report concerns a motor vehicle accident involving an air bag equipped 1990 Mazda Miata two-door convertible, occurring on 1991, between a.m. and the state of the state

The Miata was traveling west in the left-hand through lane of a five-lane divided trafficway (two westbound through lanes, one westbound left-turn lane, and two eastbound through lanes), when the driver changed lanes to the left into the westbound left-turn lane and downshifted from fourth gear to third gear. The vehicle rotated clockwise off the left-hand side of the roadway and entered the median, impacting an eight-inch (twenty-centimeter) diameter concrete light pole located in the median. The Miata probably continued its clockwise rotation after impact and came to rest in the intersection.

The front right of the Miata impacted the eight-inch (twenty-centimeter) diameter concrete light pole. CDC is not estimable (i.e., no photographs of the damage are available) for the Miata. No reconstruction program was used on this collision.

According to the interview with the driver, the 1990 Mazda Miata was equipped with a driver supplemental restraint system (air bag), which deployed as a result of the frontal impact. The driver of the vehicle (44 year-old male) was also restrained by the available, active, three-point lap and shoulder belt. According to the driver, who indicated that he wears contact lenses, he sustained a perforated retina, which became separated (AIS-2, legal blindness resulted), and a vitreous hemorrhage of the left eye; however, the driver refused to allow us to obtain a copy of his medical records. No police accident report was completed on this crash. According to the driver, the passenger (34 year-old female) in the Miata did not sustain any injury.

#### TRC/IU REMOTE AIR BAG REPORT

# FLEET - PRIVATE VEHICLE LOCATION - FLORIDA CASE NO. - 92-08

ACCIDENT DATA

Location/Street:

City Street

City/Township:

County,

Florida

Area/Type:

Urban/residential

Accident Date/Time:

Investigating Police Agency:

Not reported/investigated

Accident Type:

Car - ran-off-roadway

Occupant Injury Severity

(air bag vehicle):

Detached/separated left retina

(AIS-2)--legal blindness resulted to

1991, between

left eve

AMBIENT CONDITIONS

Light conditions:

Dark, street lights

Weather Condition:

Clear

Precipitation:

None

Road Surface:

Wet (from median sprinkler system)

ROADWAY

Case Vehicle

Location:

City street

Number of Travel Lanes:

5-lanes, divided (two westbound through lanes,

one westbound left-turn lane, two eastbound

through lanes)

Surface Type:

Asphalt

Vertical alignment:

Level

Horizontal alignment:

Straight

#### ROADWAY (CONT'D.)

Case Vehicle

Traffic Density:

Light

Speed Limit:

35-40 m.p.h. (56-64 k.p.h.)

Traffic Controls:

Lane lines, on-colors traffic signal with sepa-

rate left-turn indicator

**VEHICLES** 

Case Vehicle

Year:

1990

Make:

Mazda

Model:

Miata

Body Type:

2-door, convertible

V.I.N.:

Unknown

Mileage:

Approximately 12,000 miles (19,312 kilometers)

Securiflex windshield:

Unknown

Windshield damage/source:

None

Fleet:

Private vehicle

Tow status:

Towed due to damage

Reported Defects:

None

VEHICLE DAMAGE

Case Vehicle

Deployment Impact

Object Struck:

8-inch (20-centimeter) concrete light pole

Event number:

1

Damage location:

front right

CDC:

Unknown

Estimated Maximum Crush:

Unknown

#### <u>VEHICLE DAMAGE</u> (CONT'D.)

#### Case Vehicle

Damage components:

Right front fender, left front door glass, left front door sprung--(Note: Given the reported crash configuration, logic indicates that at least the front bumper also must have been dam-

aged.)

Repair Estimate:

Unknown

Interior damage:

Unknown

#### COLLISION SEQUENCE

According to the driver, the case vehicle (Miata) and occupants were enroute home from a party and were traveling west in the left-hand through lane of a five-lane divided trafficway (two westbound through lanes, one westbound left-turn lane, and two eastbound through lanes) when the driver changed lanes to the left into the westbound left-turn lane and downshifted from fourth gear to third gear. The driver reported that the vehicle rotated clockwise off the left-hand side of the roadway and entered the median where the crash occurred.

The driver indicated that the case vehicle impacted an eight-inch (twenty-centimeter) diameter concrete light pole located in the median. Given that the vehicle had rotated clockwise prior to impact and an impact to the front right, the case vehicle probably continued its clockwise rotation after impact. According to the driver, the case vehicle came to rest in the intersection.

The driver indicated that the case vehicle was equipped with a driver supplemental restraint system (air bag) which deployed as a result of the frontal impact. The driver also indicated that he was restrained by the available, active, three-point lap and shoulder belt. The driver reported that he sustained a perforated retina, which became separated (AIS-2), and a vitreous hemorrhage of the left eye; however, the driver refused to allow us to obtain a copy of his medical records. The driver stated that the crash was not reported to the police. The driver indicated that the passenger (34 yearold female) in the case vehicle was wearing the available, active, three-point lap and shoulder belt and did not sustain any injury.

Given that the driver refused to allow his medical records to be obtained and reported: (1) clockwise rotation, (2) impact to the vehicle's front right, (3) damage to the driver's window glass (unknown if shattered or simply broken), and (4) air bag deployment, it is our opinion that the driver most likely moved forward and to the left in response to the direction of principle force. Since it is unknown how much rotation occurred at the point of impact, TRC can only speculate as to the driver's leftward versus forward movement. It is possible that the driver contacted the air bag and was deflected leftward into the driver's window glass. In this scenario, the contact mechanism that produced the perforation to the retina could have been either the air bag (as alleged by the driver) or the window frame or the window glass.

#### DRIVER DATA

Case Vehicle

Age:

Active Restraint

Sex: Male

Height: 68 inches (173 centimeters)

44

Weight: 194 pounds (88 kilograms)

Occupation: Attorney

System/Usage: 3-point lap and shoulder/used

Usage Source: Driver

Eye glasses/contacts: Contact lenses

Vehicle Familiarity: 15 months

Route Familiarity: Daily

Trip Plan: Party to home

Manner of Leaving Scene: Wife walked home (two or three blocks), returned

to scene in another vehicle and drove husband

home

Type of Medical Treatment: Initial: treated and released--home to emer-

gency room approximately one hour after return-

ing home from crash site

Subsequent: hospitalized overnight following eye surgery, approximately two months post-crash

#### **DRIVER INJURIES**

Injury	Severity (OIC/AIS)	<u>Source</u>
Detached/separated left retina	FLGO-2	Air bag or left front window glass/frame
Perforated left retina	FLLO-1	Air bag or left front window glass/frame
Vitreous hemorrhage left eye	FLUO-1	Air bag or left front window glass/frame

The driver indicated that he now suffers from permanent, partial loss of vision in the left eye and is legally blind in that eye.

#### PASSENGER INJURIES

Severity (OIC/AIS) Source Injury

Not applicable Not applicable None

#### **ATTACHMENTS**

NASS CDS General Vehicle Form

NASS CDS Interview Form--Case Vehicle Driver

NASS CDS Occupant Assessment Form--Case Vehicle Driver
NASS CDS Occupant Injury Form--Case Vehicle Driver
NASS CDS Occupant Assessment Form--Case Vehicle Passenger

NASS CDS General Vehicle Form

Administration	NEKAL VE	CRASHWORTHINESS DATA	SYSTER
1. Primary Sampling Unit Number  2. Case Number - Stratum  3. Vehicle Number  VEHICLE IDENTIFICATIO  4. Vehicle Model Year Code the last two digits of the model (99) Unknown  5. Vehicle Make (specify):  Applicable codes are found in your NASS Data Collection, Coding and Editing Manual. (99) Unknown	90	11. Police Reported Alcohol Presence (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 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:	9
6 Vahiola Madal (appoint)	045	A COURTN'T RELATER	
6. Vehicle Model (specify):  Applicable codes are found in your NASS Data Collection, Coding and Editing Manual.  (999) Unknown	. <u> </u>	13. Speed Limit (00) No statutory limit Code posted or statutory speed limit (99) Unknown	9.0)
7. Body Type Note: Applicable codes may be found the back of this page.	on <u>0 /</u>	14. Attempted Avoidance Maneuver (00) No impact (01) No avoidance actions (02) Braking (no lockup) (03) Braking (lockup)	9
8. Vehicle Identification Number		(04) Braking (lockup unknown)	
999999999999	9999	(05) Releasing brakes (06) Steering left	-
Left justify; Slash zeros and letter Z (0 No VIN—Code all zeros Unknown—Code all nine's		<ul> <li>(07) Steering right</li> <li>(08) Braking and steering left</li> <li>(09) Braking and steering right</li> <li>(10) Accelerating</li> <li>(11) Accelerating and steering left</li> <li>(12) Accelerating and steering right</li> </ul>	
	0	(97) No driver present (98) Other action (specify):	
9. Police Reported Vehicle Disposition (0) Not towed due to vehicle damage (1) Towed due to vehicle damage (9) Unknown	9 NA	(99) Unknown	П
10. Police Reported Travel Speed  Code to the nearest mph (NOTE: 00 m less than 0.5 mph) (97) 96.5 mph and above (99) Unknown	99 neans NA	15. Accident Type 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	7_
	.		

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

OCCUPANT RELATED	24. Rollover
16. Driver Presence in Vehicle (0) Driver not present (1) Driver present (9) Unknown  17. Number of Occupants This Vehicle	(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
(00-96) Code actual number of occupants for this vehicle (97) 97 or more (99) Unknown	(4) Rollover, 4 or more quarter turns (specify):  (5) Holloverend-over-end (i.e., primarily about the lateral axis)  (9) Rollover (overturn), details unknown
18. Number of Occupant Forms Submitted	OVERRIDE/UNDERRIDE (THIS VEHICLE)
VEHICLE WEIGHT ITEMS	OVERNIDE/ONDERNIDE (THIS VEHICLE)
19. Vehicle Curb Weight 02,200	25. Front Override/Underride (this Vehicle)
2)82Code weight to nearest . 100 pounds.	26. Rear Override/Underride (this Vehicle)
(010) Less than 1050 pounds (135) 13,500 pounds or more (999) Unknown	(0) No override/underride, or not an end-to-end impact
Source:	Override (see specific CDC) (1) 1st CDC (2) 2nd CDC
20. Vehicle Cargo Weight	(3) Other not automated CDC (specify):
(00) Less than 50 pounds (97) 9,650 pounds or more (99) Unknown	Underride (see specific CDC) (4) 1st CDC (5) 2nd CDC
RECONSTRUCTION DATA	(6) Other not automated CDC (specify):
21. Towed Trailing Unit (0) No towed unit (1) Yes—towed trailing unit (9) Unknown	(7) Medium/heavy truck or bus override (9) Unknown
•	HEADING ANGLE AT IMPACT FOR HIGHEST DELTA V
22. Documentation of Trajectory Data for This Vehicle (0) No (1) Yes	Values: (000)-(359) Code actual value (997) Noncollision (998) Impact with object (999) Unknown
23. Post Collision Condition of Tree or Pole (For Highest Delta V) (0) Not collision (for highest delta V) with	27. Heading Angle For This Vehicle 998
tree or pole (1) Not damaged (2) Cracked/sheared Un know, if (3) Tilted <45 degrees (4) Tilted ≥45 degrees (5) Uprooted tree (6) Separated pole from base (7) Pole replaceds (8) Other (specify):	28. Heading Angle For Other Vehicle 998
(9) Unknown	

Additional Accident Company System Statement Statement	
20. Resis for Total Dalta V /highest	Secondary Highest
29. Basis for Total Delta V (highest)	32. Lateral Component of Delta V 9 9
<ul> <li>Delta V Calculated</li> <li>(1) CRASH program—damage only routine</li> <li>(2) CRASH program—damage and trajectory routine</li> <li>(3) Missing vehicle algorithm</li> <li>Delta V Not Calculated</li> <li>(4) At least one vehicle (which may be this vehicle) is beyond the scope of an acceptable reconstruction program, regardless of collision conditions.</li> <li>(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.</li> <li>(6) All vehicle and collision conditions are within scope of one of the acceptable reconstruction programs, but there is insufficient data available.</li> </ul>	Nearest mph  (NOTE:00 means greater than    0.5 and less than +0.5 mph)     (±97) ±96.5 mph and above     (_99) Unknown  33. Energy Absorption
	(1) Collision fits model — results appear reasonable
COMPUTER GENERATED DELTA V	(2) Collision fits model — results appear high (3) Collision fits model — results appear low
Secondary Highest	(4) Borderline reconstruction — results appear
30. Total Delta V 9 9	reasonable
Nearest mph  (NOTE: 00 means less than 0.5 mph) (97) 96.5 mph and above (99) Unknown	35. Type of Vehicle Inspection (0) No inspection (1) Complete inspection (2) Partial inspection (specify):
31. Longitudinal Component of + 9 9	36. Is this an AOPS Vehicle?  (0) No (1) Yes
Nearest mph	
(NOTE:00 means greater than0.5 and less than +0.5 mph) (±97) ±96.5 mph and above (99) Unknown	
	+
IS OLDMISS APPLICABLE FOR 1	THIS VEHICLE? [ ] YES [/] NO
IF YES: IS A COMPLETED OLDMISS PROGRA	AM SUMMARY INCLUDED? [ ] YES [ ] NO

14000	Albi Addidant dempining dy diam di dan di		
37.	Police Reported Other Drug Presence (0) No other drugs present (1) Yes (other drug present) (7) Not reported (8) No driver present (9) Unknown	9 NA	DRUG EVALUATION CLASSIFICATION OTHER DRUGS TEST RESULTS FOR DRIVER  DEC Observation/ Specimen Perception Test Test Results Results
38.	Police Reported Observation/Perception Test Type For Driver (0) No observation/perception test given (1) Drug recognition technician (DRT) determination using DEC process (2) Behavioral (3) Other physical observation/perception determination (specify):	0	Narcotic Drug Depressant Drug Stimulant Drug Hallucinogen Drug Cannabinoid Drug Phencyclidine (PCP) Inhalant Drug Other Drug (Excluding Nicotine, Aspirin, Alcohol, Drugs Administered Post-Crash)
	<ul> <li>(4) DEC process available, unknown if determination made</li> <li>(5) DEC process not available, unknown if other observation/perception test given</li> <li>(7) Other observation/perception test (specify):</li> <li>(8) No driver present</li> </ul>		Codes For Observation/Perception Test Results  (0) No DEC observation/perception test given (1) Passed DEC observation/perception test (2) Failed DEC observation/perception test (3) DEC observation/perception test given— results unknown (8) No driver present (9) Unknown if DEC observation/perception test given
39.	Other Drug Specimen Test Type For Driver (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	<u>O</u>	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	61. Rollover Initiation Object Contacted
56. Driver's Zip Code 9999	OT. Hollover mittation object contacted
(00000) Driver not present (00001) Driver not a resident of U.S. or territories Code actual 5-digit zip code (99999) Unknown	62. Location on Vehicle Where Initial Principal Tripping Force Is Applied  (0) No rollover (1) Wheels/tires
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):	(2) Side plane (3) End plane (4) Undercarriage (5) Other location on vehicle (specify):  (8) Non-contact rollover forces (specify):  (9) Unknown
(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) Hearse	(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
(7) Hearse (8) Fire truck or car (9) Unknown	64. Pre-Event Movement (Prior to
(5) Olikilowii	Recognition of Critical Event)
ROLLOVER DATA  If GV07 (Body Type) ≠ 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):	(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
60. Location of Rollover Initiation	(99) Unknown
(0) No rollover (1) On roadway (2) On shoulder—paved (3) On shoulder—unpaved (4) On roadside or divided trafficway median (9) Unknown	

	PRECRASH DATA (Continued)			
65.	Critical Precrash Event	Pedestrian or Pedalcyclist, or Other Nonmotorist (80) Pedestrian in roadway		
This	Vehicle Loss of Control Due To:	(81) Pedestrian approaching roadway		
• - •	Blow out or flat tire	(82) Pedestrian - unknown location		
	Stalled engine	(83) Pedalcyclist or other nonmotorist in roadway		
(03)	Disabling vehicle failure (e.g., wheel fell off)	specify): (84) Pedalcyclist or other nonmotorist approaching		
1041	(specify): Non-disabling vehicle problem (e.g., hood flew	roadway (specify):		
(04)	up) (specify):	(85) Pedalcyclist or other nonmotorist—unknown		
(05)	Poor road conditions (puddle, pot hole, ice, etc.)	location (specify):		
1001	(specify):			
(06)	Traveling too fast for conditions	Object or Animal		
	Other cause of control loss (specify):	(87) Animal in roadway		
		(88) Animal approaching roadway		
(09)	Unknown cause of control loss	(89) Animal—unknown location		
		(90) Object in roadway		
	Vehicle Traveling	(91) Object approaching roadway		
	Over the lane line on left side of travel lane	(92) Object—unknown location		
	Over the lane line on right side of travel lane	(98) Other critical precrash event (specify):		
	Off the edge of the road on the left side	(30) Other Childs preciasi event (specify).		
	Off the edge of the road on the right side End departure	(99) Unknown		
	Turning left at intersection	(55) GIRIGHII		
	Turning right at intersection			
	Crossing over (passing through) intersection			
	Unknown travel direction	For Corrective Actions Attempted see variable GV14		
		(Attemped Avoidance Manuever)		
Oth	er Motor Vehicle In Lane			
	Stopped	a		
(51)	Traveling in same direction with lower speed	66. Precrash Stability After Avoidance Maneuver		
1521	(i.e., lower steady speed or decelerating)	(0) No avoidance maneuver		
	Traveling in same direction with higher speed Traveling in opposite direction	(1) Tracking		
	in crossover	(2) Skidding longitudinally—rotation less than 30		
: :	Backing	degrees		
(59)	Unknown travel direction of other motor vehicle	(3) Skidding laterally—clockwise rotation		
	in lane	(4) Skidding laterally—counterclockwise rotation		
		(7) Other vehicle loss-of-control (specify):		
	er Motor Vehicle Encroaching Into Lane	(O) Ala di anno anno		
(60)	From adjacent lane (same direction)—over left	(8) No driver present		
1641	lane line	(9) Precrash stability unknown		
(01)	From adjacent lane (same direction)—over right lane line			
1621	From opposite direction—over left lane line	9		
	From opposite direction—over right lane line	67. Precrash Directional Consequences of		
	From parking lane	Avoidance Maneuver (Corrective Action)		
	From crossing street, turning into same	(0) No avoidance maneuver		
	direction	(1) Vehicle stayed in travel lane where avoidance		
(66)	From crossing street, across path	maneuver was initiated		
(67)	From crossing street, turning into opposite	(2) Vehicle stayed on roadway but left travel lane		
	direction	where avoidance maneuver was initiated		
	From crossing street, intended path not known	(3) Vehicle stayed on roadway, not known if left travel lane where avoidance maneuver was		
	From driveway, turning into same direction	initiated		
	From driveway, across path			
	From driveway, turning into opposite direction From driveway, intended path not known	(4) Vehicle departed roadway		
	From entrance to limited access highway	(5) Avoidance maneuver initiated off roadway		
	Encroachment by other vehicle—details	(8) No driver present		
1, 5,	unknown	(9) Directional consequences unknown		
	*** IF THE COS APPLICABLE VEHICLE W	AS NOT INSPECTED (I.E., GV35=0), ***		

\*\*\* 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.

NASS CDS Interview Form--Case Vehicle Driver

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

#### **INTERVIEW FORM**

BEST AVAILABLE COPY

NATIONAL ACCIDENT SAMPLING SYSTEM CRASHWORTHINESS DATA SYSTEM

1. Primary Sampling Unit Number / O	Interviewee(s) Role or Name(s):
2. Case Number - Stratum 9 7 0 8	
3. Vehicle Number	
Review the Interview Cue Sheet prior to conduc	cting interview(s) to ensure the acquisition of all pertinent data.
GENERAL DESCRIP	TION OF ACCIDENT SEQUENCE
VEHICLE WESTBOURD ON 4-LANE	LAIVILLEY CITY STREET, TRAVELING IN THE LEFT HAND
LANE. AS THE VEHICLE APPROACHED AND	INTIERSECTION THE BRIVER "SOGGED" THE VIGUELE
WIO A LIFT-TURU-CXXXY LAWE DOWN.	SHIFTING FROM 4 TO 3 PD GREAR. THE TURN LAWE
PAVEMENT WAS WET FROM AN AUTOM	ATIC SPICINKLER SYSTEM FOR MEDIAN GRASS FLOWERS
AND TREES. THE VEHICLE ROTATED CL	DOKWISE ("FACING PERPENSIONAL TO OKIGINAL
TRAVEL PATH) ENTIFIED THE MESIAN	AND STRUCK 8-1NCH DIAMETITE, CONCRETE LIGHT
POLE WITH THE FRONT-RIGHT. THE IMPA	OT SEVERED THE LIGHT POLE BUT IT REMAINED
	ALSONORA (WILLIAM WATE) WALKED HOME
SPE(	CIFIC QUESTIONS
(2-3 BLOCKS) TO GET ANOTHER VEHICA	E ANN DICOUE PACK TO THE CRASH SCENE. THE
-	D FLOW THE CICASH SCIENCE. THIS CICASH WAS NOT
INVESTIGATED BY A POLICE AGENCY	SO NO EFFORT IS AVAILABLE. THE LICILIED RETURNS
HOME WITH IHS WIFE, BUT, ABOUT AND	HENR LATTER HAD HERE TRANSPORT HIM TO A HOSPITAL
KAKACGARY ROOM WHED HIS VISION	REGAD TO BLUK. THE DELVER WAS TREATED FOR A
BLOODCLOT TO THE LEFT LEVE AND R	THE ACUST TWO MONTHS LATTER, THE NEWS
Key to Researcher: Have you obtained the followin	g through the interviewee(s) description and specific questions?
vehicle travel/driver intention imp  [ ] Direction of travel [ ] Po  [ ] Avoidance maneuvers [ ] Do	eed estimate (precrash/at [ ] Previous vehicle damage pact) [ ] Glazing type st-impact trajectory [ ] Vehicle glazing status por status (precrash/postcrash) [ ] PAR clarifications all rest position [ ] Glove box status
Cargo? No [ ] Yes [ ] Interviewee's Estima  Description of Cargo	ited Cargo Weight
Present Location of Vehicle (if not yet inspected)?:	

#### **ACCIDENT DIAGRAM**



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.

#### NORTH

UNDERWENT EYE SURGERY TO REPAIR A PERFORMED BETTWO AND UTTREFOUS HEMORRHAGE. HE NOW SUFFIERS FROM PERMANENT, PARTIAL LOSS OF VISION IN THE LEFT LEVE AND IS LEGALLY BLIND IN THAT LEYE. THE DRIVER'S WIFE WAS UNINJURIED. BOTH THE BRIVER AND RIGHT-FRONT PASSENGED AKTUE WEARING THE AVAILABLE 3-PEXNT LAP AND SHOULDER BELTS, THE CASE VIEHICLES AIRBAG DEPLOYED ON IMPACT WITH THE LIGHT POLE. THE BRIVER WAS WEARING CONTACT LIGHTES.

CICASH OCCUPATED DIETWEEN MORN PRIOR PO 1990 MAZBA MIATA Z &R, = 12,000 MILLES, OWNED 15 MONTHS, RETURNING HOME FROM A PARTY, DRIVES ROUTE BAILY, ATTORNEY, 68", 194 LOS,, CAR OCCUSED, TOWED, AIR CONSITIONED DISNOT WORK.

DAKK, WITH STATE LIGHTS, 4 LANCES BIVINED, 8-10 WINE MEDIAN W/ GRASS, FLOWERS, TREETS - LIGHT DOLE AT IND OF MEDIAN, ASPIHLT, STRAIGHT, LEVEL, 35-40 mpk SPEED LIMIT, TRAFFIC SILVAL AT INTIFICSATETION WITH LETT TURN INDICATOR, RESIDENTIAL AREA, CITY STREET

DRIVER 44 YRS, MALE, PASSELVENTE 34 YRS, F

BOTH WEAKING 3- AVINT LYS BETS

VEHICLE SAMAGE: PET FIEWLER, DOVE GOODE GLASS, DRIVER DOOR STRUXY, AIRBAG DAVIGRESIDE CNLY, SEAROYER

CUETWIGHT STAY AT HUSPITAL WHEN OPEDATIES ON 1-2 WEEKS LOST WORKTIME GLOVE BOX REMAINED CLOSED NO ENECTION, ENTRAPMENT

#### **OCCUPANT DATA**

Enter the occupant's seat position in the first row and complete the column below it using the information from the interviewee(s).

SEAT POSITION	DRIVER	PASSENCITE		
RACE ? HISPANIC? [/] No [] Yes		XXXXXXXXXXXXXX	**************************************	
AGE/SEX	44- M	34 F		
HEIGHT (IN)	68	Chrabush		
WEIGHT (LBS.)	194	Ukaowi		
POSTURE	NORMAL	NORMAL		
EJECTED? [ No [ ] Yes	No	No		
DESCRIBE THE EJECTION PATH	N)A	NA		
ENTRAPPED? [ / ] No [ ] Yes	No	No		
DESCRIBE ENTRAPMENT	N/A	N/A		
DESCRIBE TYPE OF RESTRAINT	3-POINT MANUAL LAP + SHOULDER	3-POINT MANUAL LAP & SHOUNDER		
WERE BELTS WORN? [ ] No [ /] Yes	Ýē5	Yés	,	
HOW WHERE THE BELTS WORN?	November	Norma		
DESCRIBE ANY RESTRAINT FAILURES	NORMA	NORMAL NORKE		
TYPE OF TREATMENT	TREMIND + RELEASED 11/2-10-2 HOURS POST-CRASH	NOT INJURIED,		
NAME OF TREATMENT FACILITY	Chrismy	N/A		
DAYS IN HOSPITAL?	0	N/A	·	-
NO. OF LOST WORK DAYS?	1-2 WEEKS	N/A		
FOLLOW-UP TREATMENT	Z Z MOWTH'S NATURE HAD EVE SWICKLEY HEWAR RETURN SOWHATE	NA		
WOULD YOU SIGN A MEDICAL RELEASE?	No	N/A		

Page 3

PSU Number 10 Case Number - Stratum 9208 Vehicle Number <u>0</u> / Occupant Number O / INJURY DATA FROM INTERVIEWEE(S) Indicate the Location, Lesion, Detail, and Source of all injuries. Specify interviewee(s):\_\_\_\_ DRIVER SOFT TISSUE/INTERNAL INJURIES PERFORATED/SEPARATED RETINA (DEVE AIR BAG UITREOUS HEMORNAMENT PERMANENT PARTIAL VISION LOSS, (D) EYE, LEGALLY BLIND IN (D) EYE **SKELETAL INJURIES** 

The space provided on the back of this page may be used to document injuries noted by the interviewee(s).

PSU Number \_\_\_\_O

Case Number - Stratum 9208

Vehicle Number O /

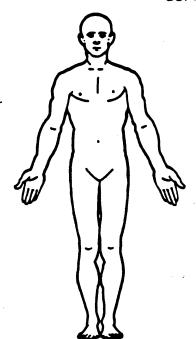
Occupant Number 0 Z

#### INJURY DATA FROM INTERVIEWEE(S)

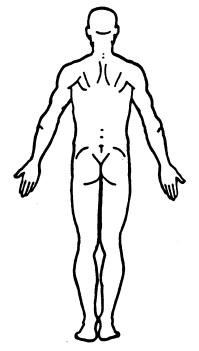
Indicate the Location, Lesion, Detail, and Source of all injuries. Specify interviewee(s):\_

DRIVER

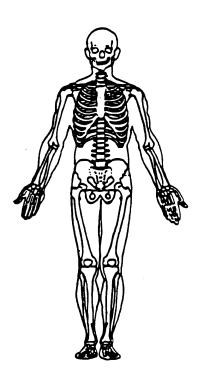
#### SOFT TISSUE/INTERNAL INJURIES

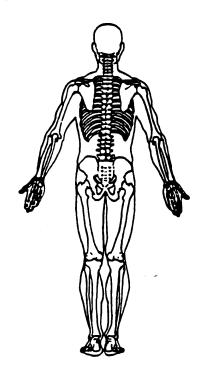


NO



#### **SKELETAL INJURIES**





The space provided on the back of this page may be used to document injuries noted by the interviewee(s).

NASS CDS Occupant Assessment Form--Case Vehicle Driver



U.S. Department of Transportation

#### **OCCUPANT ASSESSMENT FORM**

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

National Highway Traffic Safety Administration O.M.B. No. 2127-0021 NATIONAL ACCIDENT SAMPLING SYSTEM CRASHWORTHINESS DATA SYSTEM

1. Primary Sampling Unit Number  2. Case Number - Stratum  9208  3. Vehicle Number  4. Occupant Number	11. Occupant Posture (0) Normal posture (1) Abnormal posture (specify): (9) Unknown  EJECTION/ENTRAPMENT
OCCUPANT'S CHARACTERISTICS	
5. Occupant's Age Code actual age at time of accident. (00) Less than one year old (specify by month):  (97) 97 years and older (99) Unknown	12. Ejection (0) No ejection (1) Complete ejection (2) Partial ejection (3) Ejection, unknown degree (9) Unknown
6. Occupant's Sex (1) Male (2) Female (9) Unknown  7. Occupant's Height Code actual height to the nearest inch. (99) Unknown  8. Occupant's Weight Code actual weight to the nearest pounds. (999) Unknown	13. Ejection Area (0) No ejection (1) Windshield (2) Left front (3) Right front (4) Left rear (5) Right rear (6) Rear (7) Roof (8) Other area (e.g., back of pickup, etc.) (specify): (9) Unknown
9. Occupant's Role (1) Driver (2) Passenger (9) Unknown  10. Occupant's Seat Position  Front Seat (11) Left side (12) Middle (13) Right side (14) Other (specify): (15) On or in the lap of another occupant	14. Ejection Medium (0) No ejection (1) Door/hatch/tailgate (2) Nonfixed roof structure (3) Fixed glazing (4) Nonfixed glazing (specify): (5) Integral structure (8) Other medium (specify): (9) Unknown
Second Seat (21) Left side (22) Middle (23) Right side (24) Other (specify): (25) On or in the lap of another occupant  Third Seat (31) Left side (32) Middle (33) Right side (34) Other (specify): (35) On or in the lap of another occupant  Fourth Seat (41) Left side (42) Middle	15. Medium Status (Immediately Prior To Impact) (0) No ejection (1) Open (2) Closed (3) Integral structure (9) Unknown  16. Entrapment (NOTE: Entrapped means that part of the person was in the vehicle and mechanically restrained; jammed doors and immobilizing injuries by themselves are not sufficient to constitute entrapped
(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	(1) Entrapped (9) Unknown

RI	STI	RAINT SYSTEM AND SEAT EVALUATION	21.	Air	Bag System Availability/Function	$\overline{I}$
17.	(O) (1)	Belt removed/destroyed		(O) (1)	Not equipped/not available Air bag	
	(3) (4)	Shoulder belt Lap belt Lap and shoulder belt Belt available—type unknown		(2)	Air bag not reinstalled	
	(6)	gral Belt Partially Destroyed Shoulder belt (lap belt destroyed/removed) Lap belt (shoulder belt destroyed/removed)	22.	•	Unknown  Bag System Deployment	,
-	(8)	Other belt (specify):		(0)	Not equipped/not available Air bag deployed during accident (as a	_
	(9)	Unknown		(2)	result of impact) Air bag deployed inadvertently just	
18.	(00)	None used, not available, or belt removed/destroyed		(4)	prior to accident Air bag deployed, accident sequence undetermined Nondeployed	
	(02)	Inoperative (specify): Shoulder belt			Unknown if deployed Air bag deployed as a result of a noncollision event during accident sequence (e.g., fire,	<b>)</b>
	(04)	Lap belt Lap and shoulder belt Belt used—type unknown Other belt used (specify):		(9)	explosion, electrical) Unknown	
	(13) (14)	Shoulder belt used with child safety seat Lap belt used with child safety seat Lap and shoulder belt used with child safety seat Belt used with child safety seat—type unknown	23.	(O) (1)	Air Bag System Fail? Not equipped/not available No Yes (specify):	
	(18)	Other belt used with child safety seat (specify): Unknown if belt used		(9)	Unknown	
19.	(0)	per Use of Manual (Active) Belts None used or not available Belt used properly		Not	e: See Variables 44 through 48 (Page 5) for Information on Automatic Belts	n
		Belt used properly with child safety seat  Used Improperly	24.	(0)	ce Reported Restraint Use None used	7
	(3)	Shoulder belt worn under arm Shoulder belt worn behind back or seat		(2)	Police did not indicate restraint use Shoulder belt Lap belt	
	(6)	Belt worn around more than one person Lap belt worn on abdomen		(4)	Lap and shoulder belt Belt used, type not specified	
	(7)	Lap belt or lap and shoulder belt used improperly with child safety seat (specify):		(6)	Child safety seat Other or automatic restraint (specify):	
	(8)	Other improper use of manual belt system (specify):			Restrained, type unknown Police indicated "unknown"	
	(9)	Unknown		(3)	Tolice indicated disknown	
20.		nual (Active) Belt Failure Modes				0
	(0) (1) (2) (3) (4) (5)	ng Accident No manual belt used No manual belt failure(s) Torn webbing (stretched webbing not included) Broken buckle or latchplate Upper anchorage separated Other anchorage separated (specify):  Broken retractor Combination of above (specify):	25.	at (0) (1) (2) (3) (4) (5) (6)	ad Restraint Type/Damage by Occupant This Occupant Position No head restraints Integral—no damage Integral—damaged during accident Adjustable—no damage Adjustable—damaged during accident Add-on—no damage Add-on—damaged during accident	<u>4</u>
		Other manual belt failure (specify):			Other (specify): Unknown	
	(9)	Unknown		,		

26	. Seat Type (this Occupant Position) 9 9	30. Child Safety Seat Orientation O C (00) No child safety seat
	(00) Occupant not seated or no seat	(OO) NO CUITO SATERY SEAL
	(01) Bucket	The Ann Malainha
	(02) Bucket with folding back	Designed for Rear Facing for This Age/Weight
	(03) Bench	(01) Rear facing
	(04) Bench with separate back cushions	(02) Forward facing
	(05) Bench with folding back(s)	(08) Other orientation (specify):
	(06) Split bench with separate back cushions	
	(07) Split bench with folding back(s)	(09) Unknown orientation
İ		(00)
	(08) Pedestal (i.e., column supported)	Designed For Forward Facing for This Age/Weight
	(09) Other seat type (specify):	
		(11) Rear facing
	(10) Box mounted seat (i.e., van type)	(12) Forward facing
	(99) Unknown	(18) Other orientation (specify):
1		
		(19) Unknown orientation
ا ر	7. Seat Performance (this Occupant Position)	
ا آ	(0) Occupant not seated or no seat	Unknown Design or Orientation For This
	(1) No seat performance failure(s)	Age/Weight, or Unknown Age/Weight
		(21) Rear facing
	(2) Seat adjusters failed	(22) Forward facing
1	(3) Seat back folding locks or "seat back" failed	(28) Other orientation (specify):
l	(4) Seat track/anchors failed	(28) Other orientation (Specify).
1	(5) Deformed by impact of occupant	
	(6) Deformed by passenger compartment intrusion	(29) Unknown orientation
1	(specify):	
١		(99) Unknown if child safety seat used
1		
ľ	(7) Combination of above (specify):	
	(// Combination of Court (opening)	31. Child Safety Seat Harness Usage
	(8) Other (specify):	
1	(o) Other (specify).	32. Child Safety Seat Shield Usage
		32. Cilild Safety Seat Shield Sugs
	(9) Unknown	33. Child Safety Seat Tether Usage
l		Note: Options below applicable to
	CHILD SAFETY SEAT	Variables OA31-OA33.
	CHILD SAFETY SEAT	(00) No child safety seat
		1
2	8. Child Safety Seat Make/Model <u>©</u> <u>©</u> <u></u>	Not Designed With Harness/Shield/Tether
	(000) No child safety seat	(01) After market harness/shield/tether
1	Applicable codes are found in your NASS CDS	added, not used
	Data Collection, Coding and Editing	(02) After market harness/shield/tether used
1	(950) Built-in child safety seat	(03) Child safety seat used, but no after market
1	(997) Other make/model (specify):	harness/shield/tether added
	10011 Other managimous toposity	(09) Unknown if harness/shield/tether
	(998) Unknown make/model	
1		added or used
1	(999) Unknown if child safety seat used	
1		Designed With Harness/Shield/Tether
	_	(11) Harness/shield/tether not used
2	9. Type of Child Safety Seat	(12) Harness/shield/tether used
1	(0) No child safety seat	(19) Unknown if harness/shield/tether used
1	(1) Infant seat	
	(2) Toddler seat	Unknown If Designed With Harness/Shield/Tether
1	(3) Convertible seat	(21) Harness/shield/tether not used
1	(4) Booster seat	
		(22) Harness/shield/tether used
1	(7) Other type child safety seat (specify):	(29) Unknown if harness/shield/tether used
1	(8) Unknown child safety seat type	(99) Unknown if child safety seat used
	(9) Unknown if child safety seat used	
1		1
1		

	INJURY CONSEQUENCES	38.	Working Days Lost
34.	Injury Severity (Police Rating)		Code the number of days (up through 60) that the occupant
	(0) O - No injury (1) C - Possible injury		lost from work due to the accident (00) No working days lost
	(2) B - Nonincapacitating injury		(61) 61 days or more (62) Fatally injured
	(3) A - Incapacitating injury (4) K - Killed		(97) Not working prior to accident
	(5) U - Injury, severity unknown		(99) Unknown
-	(6) Died prior to accident (9) Unknown		
	(3) Olikilowii	39.	Time to Death Code number of hours from time of
35	Treatment - Mortality 3		accident to time of death up through 24
55.	(0) No treatment		hours. If time of death is greater than 24
	(1) Fatal		hours, code number of days. (Note: 1 day = 31, 2 days = 32, n days = 30 + n up through
	(2) Fatal - ruled disease		30  days = 60)
	Nonfatal		(00) Not fatal (96) Fatal - ruled disease
	(3) Hospitalization (4) Transported and released		(99) Unknown
	(5) Treatment at scene - nontransported	•	
	<ul><li>(6) Treatment later</li><li>(8) Treatment - other (specify):</li></ul>	40.	1st Medically Reported Cause of Death O
	(9) Unknown	41.	2nd Medically Reported Cause of Death O
	•	42.	3rd Medically Reported Cause of Death O
36.	Type Of Medical Facility (for Initial Treatment) 2		Code the Occupant Injury from line number(s) for the medically reported
	(0) Not treated at a medical facility (1) Trauma center		injury(s) which reportedly contributed to
	(2) Hospital		this occupant's death (00) Not fatal or no additional causes
	(3) Medical clinic (4) Physician's office		(97) Other result (specify):
	(5) Treatment later at medical facility		(00) Halanana
	(8) Other (specify):		(99) Unknown
	(9) Unknown	43.	Number of Recorded Injuries for
	•		This Occupant 0 3
37.	Hospital Stay (00) Not Hospitalized		Code the actual number of injuries recorded for this occupant.
	Code the number of days (up through 60)		(00) No recorded injuries
	that the occupant stayed in hospital. (61) 61 days or more		(97) Injured, details unknown (99) Unknown if injured
	(99) Unknown		,
			•
	·		

AUTOMATIC BELT SYSTEM	
44. Automatic (Passive) Belt System Availability/ Function (0) Not equipped/not available (1) 2 point automatic belts (2) 3 point automatic belts (3) Automatic belts - type unknown  Non-functional (4) Automatic belts destroyed or rendered inoperative (9) Unknown	48. Automatic (Passive) Belt Failure Modes During Accident (0) Not equipped/not available/not in use (1) No automatic belt failure(s) (2) Torn webbing (stretched webbing not included) (3) Broken buckle or latchplate (4) Upper anchorage separated (5) Other anchorage separated (specify):  (6) Broken retractor (7) Combination of above (specify): (8) Other automatic belt failure (specify):
45. Automatic (Passive) Belt System Use (0) Not equipped/not available/destroyed or rendered inoperative (1) Automatic belt in use (2) Automatic belt not in use (manually disconnected, motorized track inoperative) (specify):  (3) Automatic belt use unknown (9) Unknown	49. Seat Orientation (this Occupant Position) (0) Occupant not seated or no seat (1) Forward facing seat (2) Rear facing seat (3) Side facing seat (inward) (4) Side facing seat (outward) (8) Other (specify): (9) Unknown
46. Automatic (Passive) Belt System Type (0) Not equipped/not available	TRAUMA DATA
(1) Non-motorized system (2) Motorized system (9) Unknown  47. Proper Use of Automatic (Passive Belt System (0) Not equipped/not available/not used (1) Automatic belt used properly (2) Automatic belt used properly with child safety seat	50. Glasgow Coma Scale (GCS) Score (at Medical Facility) (00) Not injured (01) Injured - not treated at medical facility (02) No GCS Score at medical facility (03-15) Code the actual value of the initial GCS Score recorded at medical facility. (97) Injured, details unknown (99) Unknown if injured
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	51. Was the Occupant Given Blood? (1) No - blood not given (2) Yes - blood given (specify units): (9) Unknown if blood given  52. Arterial Blood Gases (ABG) - HCO <sub>3</sub> (00) Not injured (01) Injured, ABGs not measured or reported (02-50) Code the actual value of the HCO <sub>3</sub> (96) ABGs reported, HCO <sub>3</sub> unknown (97) Injured, details unknown (99) Unknown if injured
UPDATE CANDIDATE? OCCUPANT INJURY FORM INCLUDED WIT	/
IF THERE ARE NO	P HERE *** RECORDED INJURIES 3 = 00.97.99)

NASS CDS Occupant Injury Form--Case Vehicle Driver

Administration

J.S. Department of Transportation

National Highway Traffic Safety 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

2. Case Number - Stratum

9208

4. Occupant Number

<u>c</u> /

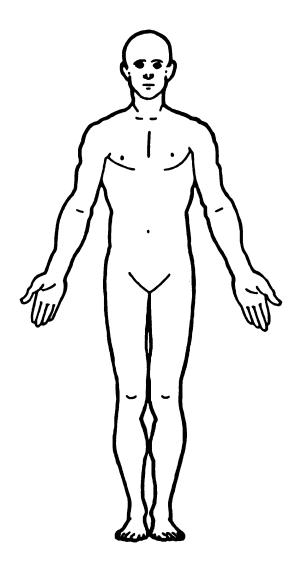
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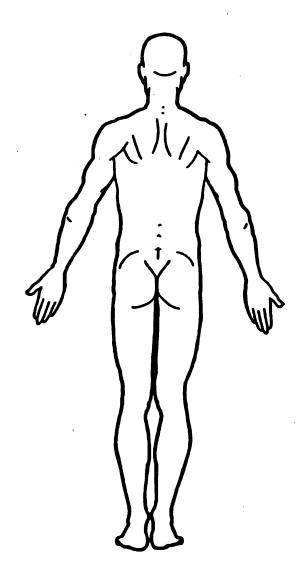
#### **INJURY DATA**

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.

	C	O.I.CA.I.S				Injury Source	Direct/			
	Source of Injury Data	Body Region	Aspect	Lesion	System Organ	A.I.S. Severity	Injury Source	Confidence Level	Indirect Injury	Occupant Area Intrusion No.
1st	ъ. <u>7</u>	6. <u>F</u>	7. <u>L</u>	8. <u>G</u>	9. <u><i>O</i></u>	10. 2	11. <u>97</u>	12. 9	13. 7	14. 99
2nd	15. 7	16. <u>F</u>	17. <u>L</u>	18. <u>L</u>	19. <u>C</u>	20. <u>/</u>	21. <u>9 7</u>	22. 9	23. 7	24. <u>9</u> 9
3rd	25. 7	26. <u>F</u>	27. <u>L</u>	28. <u>U</u>	29. <u>O</u>	30. <u>/</u>	31. <u>97</u>	32. <u>9</u>	33. <u>7</u>	34. <u>9</u> 9
4th	35	36	37	38	39	40	41	42	43	44
Бth	45	46	47	48	49	60. <u> </u>	51	52	53	<b>54</b>
6th	55	56. <u> </u>	<b>57</b>	58	59	60:	61	62	63	64
7th	65	66	67	68	69	70	71	72	73	74
8th	75	76	77	78	79	80	81	82	83.:	84
9th	85	86	87	88	89	90	91	92	93	94
10th	95	96	97	98	99	100	101	102	103	104

Indicate the Location, Lesion, 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.)



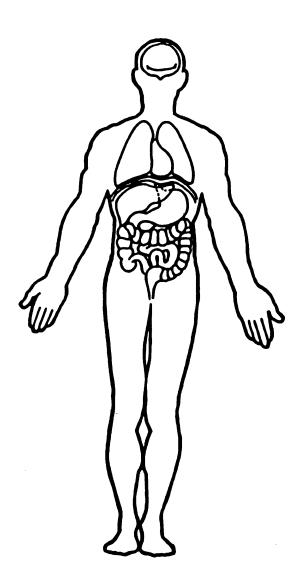


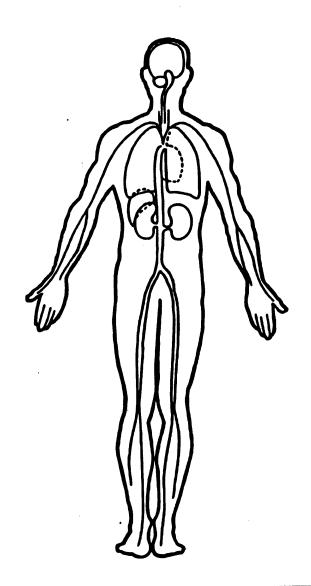
Page 3

	OFFICIAL INJURY DATA — SKELETAL INJURIES
Restrained? No Yes	Indicate the Location, Lesion, 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.)
Blood Alcohol Level (mg/dl) BAL =	book
Glasgow Coma Scale Score GCSS =	
Units of Blood Given Units =	
Aterial Blood Gases	
PO <sub>2</sub> =	
PCO,	
нсо,	

### OFFICIAL INJURY DATA -INTERNAL INJURIES

Indicate the Location, Lesion, 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.)





NASS CDS Occupant Assessment Form--Case Vehicle Passenger



U.S. Department of Transportation

#### **OCCUPANT ASSESSMENT FORM**

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

National Highway Traffic Safety

NATIONAL ACCIDENT SAMPLING SYSTEM

Administration	CRASHWORTHINESS DATA SYSTEM
1. Primary Sampling Unit Number  2. Case Number - Stratum  9 2 0 8  3. Vehicle Number  0 0  4. Occupant Number  0 0  OCCUPANT'S CHARACTERISTICS  5. Occupant's Age Code actual age at time of accident. (00) Less than one year old (specify by month):  (97) 97 years and older (99) Unknown	11. Occupant Posture (0) Normal posture (1) Abnormal posture (specify): (9) Unknown  EJECTION/ENTRAPMENT  12. Ejection (0) No ejection (1) Complete ejection (2) Partial ejection (3) Ejection, unknown degree (9) Unknown
6. Occupant's Sex (1) Male (2) Female (9) Unknown  7. Occupant's Height Code actual height to the nearest inch. (99) Unknown  8. Occupant's Weight Code actual weight to the nearest pounds. (999) Unknown	13. Ejection Area (0) No ejection (1) Windshield (2) Left front (3) Right front (4) Left rear (5) Right rear (6) Rear (7) Roof (8) Other area (e.g., back of pickup, etc.) (specify): (9) Unknown
9. Occupant's Role (1) Driver (2) Passenger (9) Unknown  10. Occupant's Seat Position Front Seat (11) Left side (12) Middle (13) Right side (14) Other (specify): (15) On or in the lap of another occupant  Second Seat (21) Left side (22) Middle (23) Right side (24) Other (specify): (25) On or in the lap of another occupant  Third Seat (31) Left side (32) Middle (33) Right side (34) Other (specify): (35) On or in the lap of another occupant  Fourth Seat (41) Left side (42) Middle (43) Right side (44) Other (specify): (35) On or in the lap of another occupant  (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	14. Ejection Medium (0) No ejection (1) Door/hatch/tailgate (2) Nonfixed roof structure (3) Fixed glazing (4) Nonfixed glazing (specify): (5) Integral structure (8) Other medium (specify): (9) Unknown  15. Medium Status (Immediately Prior To Impact) O (0) No ejection (1) Open (2) Closed (3) Integral structure (9) Unknown  16. Entrapment (NOTE: Entrapped means that part of the person was in the vehicle and mechanically restrained; jammed doors and immobilizing injuries by themselves are not sufficient to constitute entrapped (1) Entrapped (9) Unknown

R	EST	RAINT SYSTEM AND SEAT EVALUATION	21.	Air	Bag System Availability/Function	0
17.	Man (0)	ual (Active) Belt System Availability None available		(0)	Not equipped/not available Air bag	
		Belt removed/destroyed		Mai	n-functional	
		Shoulder belt Lap belt			Air bag disconnected (specify):	
	(4)	Lap and shoulder belt				
	(5)	Belt available—type unknown	İ		Air bag not reinstalled Unknown	
	Integ	gral Belt Partially Destroyed	l	(3)	Olkiowij	
	(6) (7)	Shoulder belt (lap belt destroyed/removed) Lap belt (shoulder belt destroyed/removed)				$\sim$
		•	22.		Bag System Deployment Not equipped/not available	<u>0</u>
	(8)	Other belt (specify):			Air bag deployed during accident (as a	
	(9)	Unknown			result of impact)	
			1	(2)	Air bag deployed inadvertently just prior to accident	
18.		ual (Active) Belt System Use	ŀ	(3)	Air bag deployed, accident sequence	
	(00)	None used, not available, or belt removed/destroyed	l		undetermined	
	(01)	Inoperative (specify):	l		Nondeployed Unknown if deployed	
	1021	Shoulder belt			Air bag deployed as a result of a noncollision	
		Lap belt	l		event during accident sequence (e.g., fire,	
	(04)	Lap and shoulder belt Belt used—type unknown		(9)	explosion, electrical) Unknown	
	(08)	Other belt used (specify):	ŀ	,0,		
			22	D:4	Air Ban Cinnam Fall?	$\sim$
	(13)	Shoulder belt used with child safety seat Lap belt used with child safety seat	23.	(0)	Air Bag System Fail? Not equipped/not available	0
	(14)	Lap and shoulder belt used with child	l	(1)	No	
	(15)	safety seat Belt used with child safety seat—type unknown	l	(2)	Yes (specify):	
	(18)	Other belt used with child safety seat		(9)	Unknown	
	(99)	(specify): Unknown if belt used	l			
		2		No	te: See Variables 44 through 48 (Page 5)	
19.	Prop	er Use of Manual (Active) Belts		110	for Information on Automatic Belts	
		None used or not available				
		Belt used properly Belt used properly with child safety seat	24.	Pol	ice Reported Restraint Use	7
		•	- ' '	<b>(O)</b>	None used	<del></del>
		Used Improperly Shoulder belt worn under arm			Police did not indicate restraint use	
	(4)	Shoulder belt worn behind back or seat	1		Shoulder belt Lap belt	
	(6)	Belt worn around more than one person Lap belt worn on abdomen		(4)	Lap and shoulder belt	
	(7)	Lap belt or lap and shoulder belt used		(5)	Belt used, type not specified	
		improperly with child safety seat (specify):			Child safety seat Other or automatic restraint (specify):	
	(8)	Other improper use of manual belt system			CRASH NOT INVESTIGATION BY POLICE	
		(specify):			Restrained, type unknown Police indicated "unknown"	
	(9)	Unknown		(3)	Tolice indicated Unknown	
20.	Man	ual (Active) Belt Failure Modes				
_5.	Durin	ng Accident	25	Har	ad Restraint Type/Damage by Occupant	9
	(U) (1)	No manual belt used No manual belt failure(s)	-5.	at ]	This Occupant Position	
	(2)	Torn webbing (stretched webbing not		(0)	No head restraints	
		included) Broken buckle or latchplate			Integral—no damage Integral—damaged during accident	
	(4)	Upper anchorage separated			Adjustable—no damage	
	(5)	Other anchorage separated (specify):		(4)	Adjustable damaged during accident	
	(6)	Broken retractor			Add-on—no damage Add-on—damaged during accident	
		Combination of above (specify):			Other (specify):	
	(8)	Other manual belt failure (specify):			Unknown	
	(9)	Unknown		,		
						ı

26. Seat Type (this Occupant Position) (00) Occupant not seated or no seat (01) Bucket (02) Bucket with folding back (03) Bench (04) Bench with separate back cushion (05) Bench with folding back(s) (06) Split bench with separate back cu (07) Split bench with folding back(s) (08) Pedestal (i.e., column supported) (09) Other seat type (specify):	ns	30. Child Safety Seat Orientation (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
(10) Box mounted seat (i.e., van type) (99) Unknown		(12) Forward facing (18) Other orientation (specify):
27. Seat Performance (this Occupant Positi (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) (4) Seat track/anchors failed (5) Deformed by impact of occupant (6) Deformed by passenger compartment (specify):  (7) Combination of above (specify):	ck" failed Int intrusion	(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
(8) Other (specify):		31. Child Safety Seat Harness Usage OO
(9) Unknown  CHILD SAFETY SEAT	_	32. Child Safety Seat Shield Usage  33. Child Safety Seat Tether Usage Note: Options below applicable to Variables OA31-OA33. (00) No child safety seat
28. Child Safety Seat Make/Model (000) No child safety seat Applicable codes are found in your NAS 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 use	_	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
29. Type of Child Safety Seat (0) No child safety seat (1) Infant seat (2) Toddler seat (3) Convertible seat (4) Booster seat (7) Other type child safety seat (specification) (8) Unknown child safety seat type (9) Unknown if child safety seat used	<u>\( \rightarrow \) \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ </u>	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	38. Working Days Lost 9 9
34. Injury Severity (Police Rating)	Code the number of days  (up through 60) that the occupant
<ul> <li>(0) O - No injury</li> <li>(1) C - Possible injury</li> <li>(2) B - Nonincapacitating injury</li> <li>(3) A - Incapacitating injury</li> <li>(4) K - Killed</li> <li>(5) U - Injury, severity unknown</li> </ul>	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
(6) Died prior to accident	
(9) Unknown  35. Treatment - Mortality (0) No treatment (1) Fatal (2) Fatal - ruled disease	39. Time to Death  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)
Nonfatal (3) Hospitalization (4) Transported and released	(00) Not fatal (96) Fatal - ruled disease (99) Unknown
<ul><li>(5) Treatment at scene - nontransported</li><li>(6) Treatment later</li><li>(8) Treatment - other (specify):</li></ul>	40. 1st Medically Reported Cause of Death O
(9) Unknown	41. 2nd Medically Reported Cause of Death O
36. Type Of Medical Facility (for Initial Treatment)  (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):	42. 3rd Medically Reported Cause of Death 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 (97) Other result (specify):  (99) Unknown
(9) Unknown  37. Hospital Stay (00) Not Hospitalized Code the number of days (up through 60)	43. Number of Recorded Injuries for This Occupant Code the actual number of injuries recorded for this occupant. (00) No recorded injuries
that the occupant stayed in hospital. (61) 61 days or more (99) Unknown	(97) Injured, details unknown (99) Unknown if injured

4atic	nal Accident Sampling System-Clasifectulaless Dad						
	AUTOMATIC BELT SYSTEM	48. Automatic (Passive) Belt Failure Modes					
44.	Automatic (Passive) Belt System Availability/ Function (0) Not equipped/not available (1) 2 point automatic belts (2) 3 point automatic belts (3) Automatic belts - type unknown	During Accident (0) Not equipped/not available/not in use (1) No automatic belt failure(s) (2) Torn webbing (stretched webbing not included) (3) Broken buckle or latchplate (4) Upper anchorage separated (5) Other anchorage separated (specify):					
	Non-functional (4) Automatic belts destroyed or rendered inoperative (9) Unknown	<ul><li>(6) Broken retractor</li><li>(7) Combination of above (specify):</li><li>(8) Other automatic belt failure (specify):</li></ul>					
		(9) Unknown					
45.	Automatic (Passive) Belt System Use (0) Not equipped/not available/destroyed or						
	rendered inoperative (1) Automatic belt in use (2) Automatic belt not in use (manually disconnected, motorized track inoperative) (specify):	49. Seat Orientation (this Occupant Position) (0) Occupant not seated or no seat (1) Forward facing seat (2) Rear facing seat (3) Side facing seat (inward) (4) Side facing seat (outward)					
	(3) Automatic belt use unknown (9) Unknown	(8) Other (specify):					
		(9) Unknown					
46.	Automatic (Passive) Belt System Type	TRALINA DATA					
	(0) Not equipped/not available (1) Non-motorized system	TRAUMA DATA					
	(2) Motorized system (9) Unknown	50. Glasgow Coma Scale (GCS) Score (at Medical Facility) (00) Not injured (01) Injured - not treated at medical facility (02) No GCS Score at medical facility					
47.	Proper Use of Automatic (Passive Belt System (0) Not equipped/not available/not used (1) Automatic belt used properly (2) Automatic belt used properly with child safety seat	<ul> <li>(03-15) Code the actual value of the initial GCS Score recorded at medical facility.</li> <li>(97) Injured, details unknown</li> <li>(99) Unknown if injured</li> </ul>					
	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	51. Was the Occupant Given Blood? (1) No - blood not given (2) Yes - blood given (specify units): (9) Unknown if blood given					
	(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	52. Arterial Blood Gases (ABG) – HCO <sub>3</sub> CO (OO) Not injured (O1) Injured, ABGs not measured or reported (O2-50) Code the actual value of the HCO <sub>3</sub> (96) ABGs reported, HCO <sub>3</sub> unknown (97) Injured, details unknown (99) Unknown if injured					
	UPDATE CANDIDATE? NO [ ] YES [ ]						
UPDATE CANDIDATE? NO [1] YES [ ]  OCCUPANT INJURY FORM INCLUDED WITH INITIAL SUBMISSION? NO [1] YES [ ]							
	*** STOP HERE ***  IF THERE ARE NO RECORDED INJURIES						

(I.E., OA43 = 00,97,99)