



U.S. Department of Transportation

National Highway Traffic Safety Administration

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TRANSPORTATION SCIENCES CENTER ACCIDENT RESEARCH GROUP

Division of Arvin/Calspan

CALSPAN REMOTE AIR BAG DEPLOYMENT INVESTIGATION

CALSPAN CASE NO. 93-11

VEHICLE - 1992 TOYOTA CAMRY LOCATION - PA ACCIDENT DATE - 1993

Contract No. DTNH22-93-Q-07222

Prepared for:

U.S. Department of Transportation National Highway Traffic Safety Administration 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 are coupled with the investigator's expert knowledge and experience of vehicle dynamics and occupant kinematics in order to determine the pre-crash, crash, and post-crash movements of involved vehicles and occupants.

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

TECHNICAL REPORT STANDARD TITLE PAGE

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	This remote investigation we wehicle roadside departure of System (SRS) that consisted with a height of 158 cm (62 system.	crash that inv I of a driver'	volved a 1992 Toyota Cam s side air bag that deploye	ry. The vehic d at impact. T	The vehicle was driven b	Supplemental Restraint by a 62 year old female	
	The driver was traveling in zone. She apparently fell a with the right frontal area of direction of force impact an	asleep and as of the vehicle	a result, the vehicle drifte . The Toyota sustained 83	d off the right 3 cm (32.7") or	roadedge and impacted f front bumper crush fro	a wooden utility pole	
	The driver initiated a forward abdominal areas. She was right ventricle, ruptured the the bag which abraded the where she expired approximately approximatel	subsequently e pericardial left cheek.	contacted by the deploying sac, lacerated the liver, and the remained conscious in	g air bag whic d contused the	h fractured ribs 1-9 bila right breast. Her face	terally, lacerated the subsequently contacted	
17.	Key Words Supplemental Restraint System (SRS) Right frontal impact Velocity change of 46 KPH (28.6 mph) AIS-5 level injuries		18. Distribution Statement General Public				
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CALSPAN REMOTE AIR BAG DEPLOYMENT INVESTIGATION CALSPAN CASE NO. 93-11 VEHICLE -1992 TOYOTA CAMRY LOCATION

SUMMARY

This remote investigation focused on a single vehicle roadside departure crash that involved an air bag equipped 1992 Toyota Camry. The crash was initially researched as a case case and was expanded upon for this Special Crash Investigative effort. The crash occurred on a two-lane urban roadway during daylight hours in a 64 KPH (40 mph) speed zone. The dry asphalt road surface was straight with a downgrade of 4 percent. The Toyota Camry was driven by a 62 year old female with a height of 158 cm (62") and weight of 81 kg (180 lbs.).

The Toyota Camry was traveling in a westerly direction at an estimated speed of 56-64 KPH (35-40 mph). The driver apparently fell asleep and as a result, the vehicle drifted off the north (right) edge of the road at a shallow departure angle. The right side tires overrode a low profile barrier curb as the vehicle continued in a tracking orientation to impact. There was no evidence (i.e., skid marks) to indicate that the driver attempted to avoid the crash.

The right frontal area of the vehicle impacted a wooden utility pole that was located approximately 0.6 m (2') outboard of the curbline. Impact speed was computed at 53 KPH (33 mph) by the damage and trajectory algorithm of the CRASHPC program. The Toyota sustained 83 cm (32.7") front bumper crush from the 12 o'clock direction of force impact (CDC: 12-FREN-3). As a result of the impact, the Toyota underwent a CRASHPC generated velocity change of 56 KPH (29 mph) which deployed the supplemental driver's side air bag system. The vehicle rotated approximately 40° in a clockwise direction before coming to rest diagonal to the westbound travel lane.

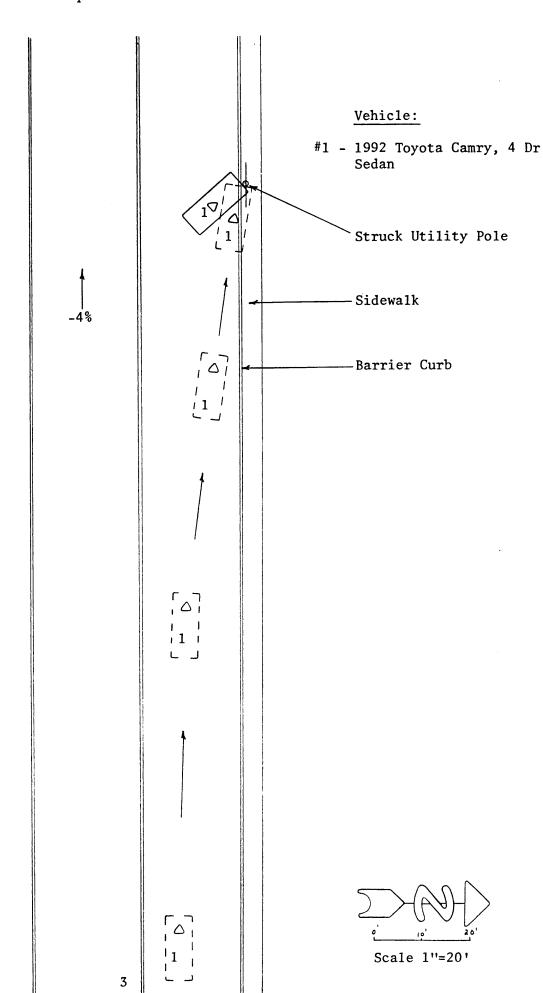
The driver of the vehicle was wearing the manual 3-point lap and shoulder belt system. Belt usage was supported by a load induced D-ring transfer on the shoulder belt webbing and band-like contusions across the chest and abdominal areas of the driver. At impact, the driver was in a presumed forward driving position within a close proximity to the steering wheel and air bag module assembly. The nontethered air bag contacted the driver's thoracic area as it initially deployed from the module assembly. The deploying air bag compressed the driver's chest which resulted in multiple fractures of the left 1-9 ribs and antero-lateral fractures of the right 1-9 ribs. The anterior and lateral fractures of the ribs ruptured the pericardial sac and produced a 1 cm perforating laceration near the tip of the right ventricle of the myocardium. The rib fractures were probably contributory to a superficial 7 x 3 cm laceration of the lateral aspect of the right lobe of the liver. In addition to the internal injuries, the air bag produced extensive soft tissue contusions within the pleural sac, extensive soft tissue contusions of the chest in relation to the rib fractures, and a contusion of the right breast.

SUMMARY (CONT'D.)

As the air bag expanded across the driver, the bag contacted and contused the anterior aspect of the driver's right upper arm. Her face also contacted the bag, depositing makeup and lipstick transfers at the lower left quadrant of the bag. As a result, she sustained abrasions of the cheek. She subsequently initiated a forward trajectory in response to the 12 o'clock impact force and loaded the manual belt system. Her loading force against the belt webbing produced a faint D-ring transfer on the belt webbing and band-like contusions that descended diagonally from the left neck across the chest to the right side and across the abdomen above the umbilicus. Her loading force was transmitted into the air bag which was compressed against the steering assembly, resulting in 3 cm (1.2") of upper rim deformation and compression of the energy absorbing column. The left shear capsule yielded 2 cm (0.8") of compression while the right side compressed 5 cm (2") and completely disengaged from the block.

The driver's left hand probably separated from the steering wheel rim and struck the turn signal lever. The contact fractured the lever at the column and contused the dorsal aspect of the left hand. Her left knee area impacted the left side of the knee bolster adjacent to the fuse box cover. The contact deformed the bolster and abraded the anterior left thigh directly above the knee. The driver's right knee area contacted the right side of the bolster and mid panel area which resulted in a 4×3 cm contusion of the anterior right thigh, directly above the knee.

The driver rebounded into the left front seat back where she came to rest. She remained conscious and verbally communicated with emergency medical personnel as they arrived on-scene. She was transported by helicopter to a local trauma center where she expired approximately 2.5 hours following the crash.



CALSPAN REMOTE AIR BAG DEPLOYMENT INVESTIGATION CALSPAN CASE NO. 93-11 VEHICLE -1992 TOYOTA CAMRY LOCATION -

CRASH DATA

Location:

State route

City/Township:

PA

Area/Type:

Urban/residential

Crash Date/Time:

1993, daylight hours

Investigating Police Agency:

State Police

Crash Type:

Car/utility pole, right frontal impact

Air Bag Vehicle

Driver Injury Severity:

Critical (AIS-5)

AMBIENCE

Viewing Conditions:

Daylight

Weather:

Clear

Precipitation:

None

Road Surface:

Dry

HIGHWAY

Type:

State route

Number of Lanes:

2

Width:

10.9 m (35'9")

Surface:

Asphalt

Median:

None

Edge:

North edge - Barrier curb

South edge - Barrier curb

HIGHWAY (CONT'D.)

4% downgrade Vertical Alignment: Straight Horizontal Alignment: **Estimated Coefficient** .75 of Friction: Light to moderate Traffic Density: TRAFFIC CONTROLS Signals: None No pertinent signs Signs: Yellow full barrier center lines Markings: 64 KPH (40 mph) Speed Limit: **VEHICLE** 1992 Toyota Camry, 4 dr. sedan Description: JT2SK12EXNO (production number deleted) V.I.N.: Color: Burgundy 39,769 km (24,701 miles) Odometer: 4 cylinder, 2.2 liter Engine: 4-speed automatic overdrive Transmission: Power-assisted rack and pinion Steering: Power-assisted Brakes: Padding: Upper and mid instrument panel, knee bolster, glove box door, soft edged steering wheel rim, air bag module cover, transmission shifter, door panels, door armrests, adjustable head restraints, sunvisors, and headliner

> 3-point lap and shoulder belts in the four outboard seated positions, center rear lap belt, adjustable D-

rings for the front seat shoulder belts

Manual Restraints:

VEHICLE (CONT'D.)

Automatic Restraints:

Supplemental Restraint System (SRS) that consisted

of a driver's side air bag system

Defects:

None reported

Tow Status:

Towed due to damage

VEHICLE DAMAGE

Exterior:

The 1992 Toyota Camry drifted off the right roadedge and impacted a 30.5 cm (12") diameter wooden utility pole with the right frontal area of the vehicle. The 12 o'clock direction of force impact produced moderately severe frontal damage. Maximum crush was 83 cm (32.7" located on the bumper facia at the C_4 and C_5 locations. Direct contact damage began 6.6 cm (2.6") right of center and extended approximately 40 cm (15.7") to the right. The utility pole impact deformed both bumper corners inboard which resulted in a combined induced and direct contact damage length of 73 cm (28.7 cm). Crush values at bumper level were as follows: $C_1 = 0$ cm, $C_2 = 8$ cm (3.1"), $C_3 = 32$ cm (12.6"), $C_4 = 83$ cm (32.7"), $C_5 = 83$ cm (32.7"), $C_6 = 47$ cm (18.5").

The impact displaced the right front wheel rearward which resulted in a 18 cm (7") reduction of the right wheelbase. The rear edge of the Toyota's hood was displaced rearward into the base of the windshield; however, it did not penetrate the laminated glass.

Damaged components included the bumper facia and reinforcement bar, grille, both headlamp assemblies, hood, radiator support, both front fenders, the front unitized chassis, windshield, right front door, right A-pillar, and roof.

Interior:

The interior of the Toyota Camry sustained moderate damage that resulted from exterior deformation and occupant contact. The impact displaced the engine and transaxle rearward which deformed the toe pan into the occupant space. The toe pan intruded 13 cm (5.1") on the driver's side and 29 cm (11.4") into the unoccupied right front occupant space. The right A-pillar was also displaced rearward approximately 22 cm (8.7") which produced 22 cm of right instrument panel intrusion.

VEHICLE DAMAGE (CONT.D)

Interior (Cont'd.):

The driver initiated a forward trajectory in response to the frontal impact sequence and loaded the manual 3-point lap and shoulder belt system. She subsequently contacted the deploying air bag with her face and thoracic area. Lipstick and makeup transfers were noted to the left center and lower left quadrant of the bag. The driver's loading force was transmitted through the bag and into the energy absorbing steering column. As a result, the column compressed and yielded 2 cm (0.8") of left shear capsule separation and 5 cm (2") of right shear capsule separation. The NASS researcher also identified 3 cm (1.8") of upper steering wheel rim deformation.

The driver's left hand apparently separated from the steering wheel rim and fractured the turn signal lever located on the left side of the steering column. Her left knee impacted the lower left area of the knee bolster. An approximate 13 cm (5") diameter dent was noted to the padded component. The driver's right knee contacted and fractured the right side of the bolster adjacent to the lower mid instrument panel. The lateral aspect of the driver's right thigh probably contacted and fractured the center mounted console adjacent to the transmission selector lever.

SUPPLEMENTAL RESTRAINT SYSTEM

The Toyota Camry was equipped with a Supplemental Restraint System that consisted of a driver's side air bag. The system deployed as a result of the right frontal impact sequence with a utility pole. The air bag module assembly was contained within the steering wheel assembly and appeared to have deployed as designed.

The module cover opened in a typical H-configuration with symmetrical cover flaps that measured 14.5 cm horizontally x 7 cm vertically. The air bag was constructed of a woven nylon type fabric with a neoprene liner. The bag was not tethered and was approximately 55 cm (22") in diameter in its deflated state. The bag was vented by two 3 cm (1.2") diameter ports that were located on the back side of the bag at the 11 and 1 o'clock positions. The peripheral seam of the bag was internal and there was no damage to the bag or module assembly. The air bag was stamped with the following number on the right side of the bag:

The interior aspect of the upper module cover flap was identified by the following number:

There was no generant residue visible in the area of the vent ports and module cover.

The driver's facial and thoracic areas contacted the air bag. The facial contact was evidenced by makeup and lipstick transfers that were located left of center on the face of the bag and at the lower left quadrant of the deployed air bag.

VEHICLE VELOCITY ESTIMATES

Travel Speed: 56-64 KPH (35-40 mph)

Impact Speed: 53 KPH (33 mph)

Total ΔV : 46 KPH (29 mph)

Longitudinal ΔV : -46 KPH (-29 mph)

Lateral ΔV : 0 KPH (0 mph)

Energy Absorption: 134907 joules (99489 ft.lbs.)

The impact speed and ΔVs were computed by the damage and trajectory algorithm of the CRASHPC program. The final rest position of the vehicle was estimated from the police schematic of the crash scene.

COLLISION SEQUENCE

Pre-Crash: The 1992 Toyota Camry was traveling in a westerly direction

on the two-lane roadway at an estimated speed of 56-64 KPH (35-40 mph). As the driver was descending a 4 percent grade, she apparently fell asleep and, as a result, the vehicle drifted toward the right roadedge. The right side tires of the vehicle overrode a low profile barrier curb as the Camry departed the travel lane at a shallow angle. The vehicle continued in a

tracking orientation toward impact.

Crash: The right frontal area of the Toyota Camry impacted a 30.5

(12") diameter wooden utility pole that was located approximately 0.6 m (2') outboard of the north (right) curbline. Impact speed was computed by the damage and trajectory mode of the CRASHPC program at 53 KPH (33 mph). The vehicle sustained 83 cm (32.7") of front bumper crush as a result of the 12 o'clock direction of force impact. The Camry underwent a velocity change of 46 KPH (29 mph) which deployed the supplemental driver's side air bag system.

Due to the right frontal impact, the Camry subsequently rotated in a clockwise direction approximately 40 degrees before coming to rest diagonal to the westbound travel lane. At rest, the right frontal area of the vehicle was straddling the west curbline as the vehicle was facing in a northwesterly direction.

COLLISION SEQUENCE (CONT'D.)

Post-Crash: The driver of the Toyota Camry remained conscious and in her

vehicle following the crash. She repeatedly told the paramedics that she "couldn't believe [she] did this" and that she had fallen asleep. The paramedics requested helicopter transport for the driver to a local trauma center. She was removed from the vehicle and flown to the center where she

Air bag

expired approximately 2.5 hours following the crash.

HUMAN FACTORS/OCCUPANT DATA

Driver: 62 year old female

Height: 157 cm (62")

Weight: 81 kg (180 lbs.)

Manual Restraint

System Usage: 3-point lap and shoulder belt

Usage Source: Police report, vehicle inspection

Eyewear: Eyeglasses

Vehicle Familiarity: Unknown

Route Familiarity: Very familiar with road, per family

Trip Plan: Unknown

Mode of Transport Transported by helicopter to a trauma center where she expired

From Scene: 2.5 hours following the crash

DRIVER INJURIES

<u>Injury</u> <u>Severity (OIC/AIS)</u> <u>Source</u>

Multiple fractures of the left ribs 1-9, anterior, lateral, and posterior locations, right 1-9 ribs fractured mostly anterior and anterolaterally. Right lung was partially collapsed with patchy areas of hemorrhage in the hilar areas Critical (450266.53)

DRIVER INJURIES

<u>Injury</u>	Severity (OIC/AIS)	Source
1 cm perforating laceration near the tip of the right ventricle, 600 cc's of blood was drawn from the left pleural cavity and 20 cc's from the right pleural cavity	Critical (441012.54)	Result of rib fracture from air bag contact
Ruptured pericardial sac	Moderate (441602.24)	Result of rib fractures from air bag contact
Extensive soft tissue contusions within the pleural sac	Moderate (441804.20)	Air bag
7.3 cm superficial laceration that extends to less than 0.1 cm in depth on the lateral side of the right lobe of the liver	Moderate (541822.21)	Result of rib fractures from air bag contact
Extensive soft tissue contusions were present in relation to the rib fractures	Minor (490402.10)	Air bag
Extensive contusions on front of chest in a descending band-like fashion starting from the left neck, extending medially across the chest to the right side	Minor (490402.10)	Shoulder belt webbing
Band-like area of contusion on front of abdomen above the umbilicus which is distended	Minor (590402.17)	Lap belt webbing
Right breast is markedly contused with swelling	Minor (490402.11)	Air bag
1.5 cm x 1.2 cm abrasions on left cheek	Minor (290202.12)	Air bag
4 x 3 cm contusion of the anterior right thigh	Minor (890402.11)	Knee bolster/mid instrument panel

DRIVER INJURIES (CONT'D.)

<u>Injury</u>	Severity (OIC/AIS)	<u>Source</u>
1.5 cm abrasion of the anterior left thigh above the knee	Minor (890202.12)	Knee bolster
Extensive contusion of the anterior aspect of the upper right arm	Minor (790402.1)	Air bag
Contusion of the dorsal aspect of the left hand	Minor (790402.12)	Turn signal lever

DRIVER KINEMATICS

The driver of the Toyota Camry reportedly drove the vehicle with the seat track adjusted to a forward position. At the time of the vehicle inspection, the seat was adjusted to a rearward position which indicated that the adjustment was probably changed during the extrication of the driver. The driver was wearing a cotton blouse, shorts, earrings, a ring, and eyeglasses at the time of the crash. The post-crash condition of these items is unknown. She was wearing the manual 3-point lap and shoulder belt system at the time of the crash. Belt usage was supported by faint loading D-ring transfers on the shoulder belt webbing and band-like contusions across the driver's chest and abdominal regions.

At impact, the driver was in a presumed normal, upright position within close proximity to the steering assembly as the supplemental driver's side air bag system deployed. The nontethered air bag contacted the driver's thoracic area as it initially deployed from the module assembly. The deploying air bag compressed the driver's chest which resulted in multiple fractures of the left 1-9 ribs and antero-lateral fractures of the right 1-9 ribs. The anterior and lateral fractures of the ribs ruptured the pericardial sac and produced a 1 cm perforating laceration near the tip of the right ventricle of the myocardium. The rib fractures were probably contributory to a superficial 7 x 3 cm laceration of the lateral aspect of the right lobe of the liver. In addition to the internal injuries, the air bag produced extensive soft tissue contusions within the pleural sac, and extensive soft tissue contusions of the chest in relation to the rib fractures, and a contusion of the right breast.

As the air bag expanded across the driver, the bag contacted and contused the anterior aspect of the driver's right upper arm. Her face also contacted the bag, depositing makeup and lipstick transfers at the lower left quadrant of the bag. As a result, she sustained abrasions of the cheek. She subsequently initiated a forward trajectory in response to the 12 o'clock impact force and loaded the manual belt system. Her loading force against the belt webbing produced a faint D-ring transfer on the belt webbing and band-like contusions that descended diagonally from the left neck across the chest to the right side and across the abdomen above the umbilicus. Her loading force was transmitted into the air bag which was compressed against the steering assembly, resulting in 3 cm (1.2") of upper rim deformation and compression of the energy absorbing column. The left shear capsule yielded 2 cm (0.8") of compression while the right side compressed 5 cm (2") and completely disengaged from the block.

DRIVER KINEMATICS (CONT'D)

The driver's left hand probably separated from the steering wheel rim and struck the turn signal lever. The contact fractured the lever at the column and contused the dorsal aspect of the left hand. Her left knee area impacted the left side of the knee bolster adjacent to the fuse box cover. The contact deformed the bolster and abraded the anterior left thigh directly above the knee. The driver's right knee area contacted the right side of the bolster and mid panel area which resulted in a 4×3 cm contusion of the anterior right thigh, directly above the knee.

The driver rebounded into the left front seat back where she came to rest. She remained conscious and verbally communicated with emergency medical personnel as they arrived on-scene. She was transported by helicopter to a local trauma center where she expired approximately 2.5 hours following the crash.

SLIDE INDEX

Slide No(s).	Description
1	Pre-crash trajectory of the Toyota Camry
2	Vehicle drifts off right road edge
3	Struck utility pole
4	Frontal views of the Toyota Camry
5	Close-up view of the impact damage
6	Lateral displacement at the left front corner
7	Rearward displacement of hood, right front fender, and right front wheel
8	Right front three-quarter view
9	Overall view of the interior
10	Left knee contact to the knee bolster and left hand contact to the turn signal lever
11,12	Facial contact (makeup transfers) to the deployed air bag
13	Upper air bag module cover flap and air bag vent ports
14	Identification numbers on air bag
15	Identification numbers on inside surface of upper module cover flap
16	Steering and air bag module assembly
17	Driver's shoulder belt webbing
18	Driver's seat position
19	Steering column shear capsule compression
20	Overall view of the interior from the right door area



























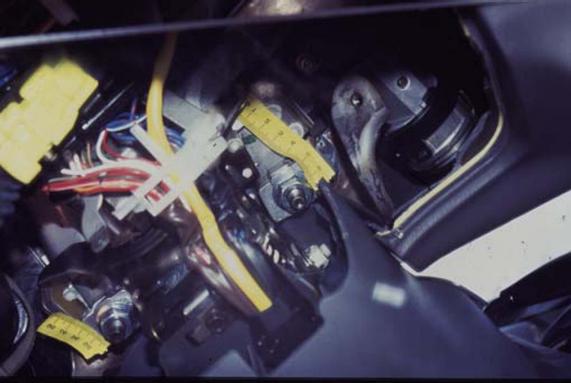














APPENDIX A

Police Accident Report



FAT COMMONWEALTH OF PENNSYLVANI POLICE ACCIDENT REPORT

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COMMONWEALTH OF PENNSYLVANIA PAR CONTINUATION SHEET

REFER TO OVERLAY SHEETS			NON-REPORTABLE			PENNDOTU	SE ONLY		
NCIDENT NUMBER		ACCIDENT DATE	/93	COUNTY	MUNK	DE T			
82 PERSON INFORMATION - USE C		ODES ***	ADDRESS	Same of the	н 1	J	К	L	м
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87.NARRATIVE: I :Observed that	there were no	skid ma	rks that we	re left by	Unit	#i	<u> </u>		
on the roadway o	•				: :	:			
standing at the	scene all of	which st	ated that t	hey did not	see	the	: :		
accident occur b	ut they hear	d a loud	crash. I v	vas informed	by t	he	: :	<u> </u>	
Ambulance/Rescue	personnel th	hat Opera	tor #1 was	going to be	flow	m :		<u>:</u>	
to Ho	spital via	Не	licopter.						
Due to the	injuries that	t were su	stained and	that opera	tor #	1			
was being treate	d for the in	juries, s	he was not	interviewed	atit	he	: :	<u> </u>	
scene. At	hrs. this da	te I rece	ived inform	mation from	Tor			<u>:</u>	
PSP	that 0	perator #	1 had died		<u> </u>	<u>:</u>	! !		
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paramedic with t	he Am	bulance.	stat	ted that he	was t	:he		:	
primary care giv	er to operate	or #1. H	e said that	t operator #	1 kee	<u> </u>	-		
saying that she	could not be	lieve tha	t she had :	fell asleep.		<u>:</u>	:	:	
On: 93	at hrs	. I inter	viewed	an	EMT	dth_			
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UNIT 2							5 J. 97 🛊		
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INVESTIGATING AGENCY



SOMMONWEALTH OF PENNSYLV, WIA PAR CONTINUATION SHEET

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COMMONWEALTH OF PENNSYLVANIA POLICE ACCIDENT SUPPLEMENTAL PENNOT INCOME.

PENNOOT	USE	ON	Υ.

A REFER TO OVERLAY SHEETS	REPORTABLE	NON-REPORTAB		PENNOOT USE ONLY			
POLICE INFORMATION		ACCIDENT TIME & LOCATION					
NUMBER		9. ACCIDENT 10. DAY OF WEEK DATE					
2. AGENCY		11. TIME OF DAY	12. NUN	IBER Inits 4			
ME State Police	4. PATROL		14. # INJURED 15. PRIV	/. PROP.			
PRECINCT 5. INVESTIGATOR	ZONE BADGE	20. COUNTY		CODE			
Tpr.	NUMBER BADGE	Ma:	ntgomery	CODE			
B. PHOVED BY	NUMBER	21. WOITION ACTUAL					
			CHANGED SINCE O	RIGINAL REPORT			
36 GALLY Y N 37. REG. ARKED PLATE	38. STATE	58. DRIVER NAME					
39. PA TITLE OR		59. DRIVER ADDRESS					
OUT-OF -STATE VIN		60. CITY, STATE					
41. WNER		& ZIPCODE 61. SEX	62. DATE OF	63. PHONE			
ADDRESS 42 CITY, STATE		64. COMM VEH	BIRTH 65, DRIVER 66. D	RIVER			
ZIPCODE		YONO		3. S. #			
43 EAR 44. MAKE	Đ	67. CARRIER					
45. MODEL (NOT 30DY TYPE)	46. INSURANCE Y N UNK	68. CARRIER ADDRESS					
47 3ODY (48.) SPECIAL	49.VEHICLE OWNERSHIP	69. CITY, STATE & ZIPCODE	16.				
50.)INITIAL IMPACT 51.)VEHICLE	52.)TRAVEL	70. USDOT #	ICC#	PUC#			
POINT STATUS (S: 'EHICLE (S4.) DRIVER	SPEED (\$5.)DRIVER	72.)VEHICLE	(73.)CARGO	74. GVWR			
RADIENT PRESENCE 56. DRIVER	CONDITION 57. STATE	CONFIG. 75. NO. OF	BODY TYPE (76.) HAZ ARDOUS	77. RELEASE OF HAZ MAT			
NUMBER 8: NARRATIVE - IDENTIFY PRECIPITATING EVENTS		AXLES	MATERIALS	Y D N D UNK D			
On 93 hrs., (I received a received	<u> </u>		e relative to this			
On 49999 approx. 4999 hrs.	. I photographed	d an area ar	ound and about	st. 120 feet			
	boro.	······································		ephs (24 exposures)			
were taken at the scene.							
)n 93 approx. hrs.	, I photographed	d Unit #1 (1	392, Toyota, Pa.	reg#-			
JT2S(12EXNO) which was			station on SA# 🗨	twp.			
fontgomery co. One (1) roll c	of photographs (2	24 exposuros) were taken of	the vehicle.			
The 39MM negatives in this in	ncident will be o	developed at	: PSP HQ. Photogr	aphic Saction and			
pon their return they will b	e filed at PSP (Ident	ification Unit o	FFice			
Photocraphs taken by Tor.	The state of the s	IO Uni	<u>t. </u>				
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""SURANCE COMPANY	:			94. INVESTIGATION COMPLETE?			
In DRMATION III	:						
UNIT POLICY NO NO				YES NO NO			

	POLICE ACCIDENT REP	ORT - Overlay Sheet - 2	2
72 VEHICLE CONFIGURATION 1 - BUS 2 - SINGLE UNIT - (2 AXLES, 6 TIRES) 3 - SINGLE UNIT (3 + AXLES)	80. UNIT NUMBERS - BLOCK A CODE UNIT NUMBERS AS RECORDED ON PAGE 1.	80. TYPE OF INJURY - BLOCK I 0 - NO INJURY 1 - AMPUTATION 2 - BLEEDING WOUND	(CONTINUED FROM BELOW) - BLOCK M 2 - HELICOPTER 3 - FIRE RESCUE VEHICLE
4 - TRUCK TRACTOR (BOBTAIL) 5 - TRUCK TRAILER 6 - TRACTOR/SEMI-TRAILER 7 - TRACTOR/DOUBLES 8 - TRACTOR/TRIPLES 9 - UNKNOWN HEAVY TRUCK	80. SEAT POSITION - BLOCK B 1 - DRIVER 2 - MIDDLE FRONT 3 - RIGHT FRONT 4 - LEFT REAR 5 - MIDDLE REAR	3 · BROKEN BONES 4 · DISTORTED MEMBER 5 · BRUISES/ABRASIONS 6 · BURNS 7 · SWELLING 8 · LIMPING	4 - PRIVATE VEHICLE 5 - POLICE VEHICLE 8 - OTHER 9 - UNKNOWN
73. CARGO BODY TYPE 1 - BUS 2 - VAN / ENCLOSED BOX 3 - CARGO TANK 4 - FLATBED	6 - RIGHT REAR 7 - PEDESTRIAN 8 - OTHER SEAT POSITION 9 - UNKNOWN	9 - COMPLAINT OF PAIN 97- OTHER INCAPACITATING INJURY 98 - OTHER NON-INCAPACITATING 99 - UNKNOWN	81. ILLUMINATION 1 - DAWN 2 - DAYLIGHT 3 - DARK - STREET LIGHTS 4 - DARK - NO STREET LIGHTS 5 - DUSK
5 - DUMP 6 - CONCRETE MIXER 7 - AUTO TRANSPORT	80. SEX - BLOCK C M - MALE F - FEMALE U - UNKNOWN	80. AREA OF APPARENT INJURY - BLOCK J 0 - NO INJURY 1 - FACE	82. WEATHER
8 - GARBAGE / REFUSE 9 - OTHER / UNKNOWN	80. AGE - BLOCK D CODE ACTUAL AGE, EXCEPT FOR 1 - FOR INFANTS UP TO AGE 2	2 - HEAD 3 - NECK 4 - BACK	0 - NO ADVERSE CONDITIONS 1 - RAINING 2 - SLEET, HAIL, FREEZING RAIN 3 - SNOWING
76. HAZARDOUS MATERIALS CODE THE 4 DIGIT HAZARDOUS	98 - AGE 98 OR GREATER 99 - UNKNOWN	5 - ARM(S) 6 - LEG(S) 7 - CHEST/STOMACH	4 - FOG, SMOKE 5 - RAIN AND FOG
MATERIAL CODE ON THE PLACARD OR SELECT ONE OF THE FOLLOWING	ACTIVE RESTRAINT TYPE BLOCK E O - NONE OR PEDESTRIAN	8 - INTERNAL 9 - ENTIRE BODY 98 - OTHER AREAS 99 - UNKNOWN	83. ROAD SURFACE CONDITIONS 1 - DRY 2 - WET
CODES TO REPRESENT THE PLACARD. 00 - NOT APPLICABLE 01 - NON-FLAMMABLE GAS 02 - COMBUSTIBLE 03 - ORGANIC PEROXIDE 04 - CORROSIVE 05 - EXPLOSIVES "A"	1 - SHOULDER HARNESS ONLY 2 - SEAT BELT ONLY 3 - COMBINATION (HARNESS & BELT) 4 - CHILD RESTRAINT DEVICE 7 - HELMET 8 - OTHER	80. INJURY INFORMATION SOURCE - BLOCK K N - NOT APPLICABLE A - OBSERVATION OF OFFICER B - STATEMENT FROM INDIVIDUAL C - MEDICAL/PARAMEDICAL	3 - MUDDY 4 - SNOW COVERED 5 - ICE COVERED 6 - PLOWED SNOW 7 - SALTED & CINDERED 8 - ICE PATCHES
06 - OXYGEN 07 - POISON	9 - UNKNOWN 80. ACTIVE RESTRAINT USAGE	PERSONNEL	91. PROBABLE USE (ALCOHOL OR DRUGS) 0 - NONE
08 - EXPLOSIVES "B" 09 - CHLORINE 10 - OXIDIZER 11 - POISONOUS GAS 12 - FUEL OIL 13 - DANGEROUS	- BLOCK F 0 - NOT APPLICABLE 1 - IN USE 2 - NOT IN USE 9 - UNKNOWN	80. EJECTION/EXTRICATION - BLOCK L 0 · NOT APPLICABLE 1 · TOTALLY EJECTED 2 · PARTIALLY EJECTED 3 · PARTIALLY EJECTED REQUIRING	1 - ALCOHOL 2 - CONTROLLED SUBSTANCES 3 - OTHER DRUGS 4 - BOTH ALCOHOL AND DRUGS 9 - UNKNOWN
-14 - RADIOACTIVE 15 - FLAMMABLE SOLID "W" 16 - FLAMMABLE 17 - FLAMMABLE GAS 18 - FLAMMABLE SOLID 19 - GASOLINE 20 - BLASTING AGENT	80. PASSIVE RESTRAINT TYPE - BLOCK G 0 - NONE OR PEDESTRIAN 1 - AIRBAG (DEPLOYED) 2 - AIR BAG (NOT DEPLOYED) 3 - AUTOMATIC SEAT BELT 8 - OTHER	EXTRICATION 4 - EXTRICATION BY PERSONS UNKNOWN 5 - EXTRICATION - TWO OR MORE TYPES 6 - EXTRICATION BY AMBULANCE OR RESCUE PERSONNEL	92. TYPE TEST 0 - NOT APPLICABLE NO TEST GIVEN 1 - BLOOD 2 - BREATH 3 - URINE

- BLOCK M

0 - NOT APPLICABLE

7 - EXTRICATION BY POLICE

8 - EXTRICATION BY SELF

9 - UNKNOWN EJECTION OR EXTRICATION

80. INJURY TRANSPORTATION

1 - BLOOD 2 - BREATH 3 - URINE 4 - TEST REFUSED 8 - OTHER

9 - UNKNOWN

93 RESULTS (ALCOHOL TEST)

CODE ACTUAL TEST RESULT E.G 197 GRAMS = 0.20% (MOVE

3 DECIMAL PLACES AND ROUND)

99 - UNKNOWN

98 - OTHERMOT SIGNED

CODE THE 1 DIGIT HAZARDOUS

MATERIAL CODE ON THE PLACARD

OR

9 - UNKNOWN

0 - NO INJURY

2 - MAJOR INJURY

3 - MODERATE INJURY

4 - MINOR INJURY 9 - UNKNOWN

1 - DEATH

80. INJURY SEVERITY - BLOCK H

POLICE ACCIDENT REPORT **Overlay Sheet - 1** •

ACCIDENT LOCATION)近年FIELDS

24. & 28. TYPE HIGHWAY

- 0 NOT PHYSICALLY DIVIDED
- 1 DIVIDED HIGHWAY MEDIAN STRIP WITHOUT TRAFFIC BARRIER
- 2 DIVIDED HIGHWAY MEDIAN STRIP WITH TRAFFIC BARRIER
- N ONE WAY TRAFFIC NORTH
- S ONE WAY TRAFFIC SOUTH
- E ONE WAY TRAFFIC EAST
- W ONE WAY TRAFFIC WEST

25. & 29. ACCESS CONTROL

- 1 NO CONTROLS (UNLIMITED ACCESS)
- 2 FULL CONTROL (ONLY RAMP ENTRY AND EXIT)
- 8 OTHER
- 9 UNKNOWN

34. CONSTRUCTION ZONE

- 0 NOT APPLICABLE
- 1 CONSTRUCTION ZONE
- 2 MAINTENANCE ZONE
- 3 UTILITY COMPANY WORK
- 9 UNKNOWN

35. TRAFFIC CONTROL DEVICE

- 0 NO CONTROLS
- 1 FLASHING SIGNALS
- 2 TRAFFIC SIGNAL
- 3 STOP SIGN
- 4 YIELD SIGN
- 5 RR CROSSING
- 6 POLICE OFFICER OR **FLAGMAN**
- 7 FLASHING SCHOOL ZONE
- 8 OTHER
- 9 UNKNOWN

UNIT INFORMATION FIELDS

47. BODY TYPE

AUTOMOBILES

- 01 CONVERTIBLE
- 02 2 DOOR
- 03 3 DOOR (HATCH BACK, 2 DR)
- 04 4 DOOR
- 05 5 DOOR (HATCH BACK, 4 DR)
- 06 STATION WAGON
- 07 HATCH BACK
 - NUMBER DOORS UNKNOWN

47. BODY TYPE (CONTINUED) **AUTOMOBILES CONTINUED**

- 08 OTHER AUTOMOBILE
- 09 UNKNOWN AUTOMOBILE
- 10 AUTOMOBILE BASED PICK-UP
- 11 AUTOMOBILE BASED PANEL
- 12 SHORT UTILITY
- 13 LARGE LIMOUSINE
- 14 THREE WHEEL AUTO OR
- DERIVATIVE

MOTORCYCLES

- 20 MOTORCYCLE
- 21 MOPED
- 27 THREE WHEEL MOTORCYCLE OR MOPED
- 28 MINIBIKE, MOTORSCOOTER
- 29 UNKNOWN MOTORCYCLE

BUSES

- 30 SCHOOL BUS
- 31 CROSS COUNTRY/INTERCITY
- 32 TRANSIT BUS
- 38 OTHER BUS
- 39 UNKNOWN BUS TYPE

VANS

- 40 VAN
- 41 VAN COMMERCIAL CUTAWAY
- 42 VAN BASED MOTORHOME
- 48 OTHER VAN TYPE
- 49 UNKNOWN VAN TYPE

LIGHT TRUCKS (GVWR < 10,000#)

- 50 PICK UP
- 51 PICKUP WITH SLIDE IN CAMPER
- 52 PICKUP BASED MOTORHOME
- 53 CAB CHASSIS BASED
- 54 TRUCK BASED PANEL
- 55 TRUCK BASED STATION WAGON
- 56 TRUCK BASED UTILITY
- 58 OTHER LIGHT TRUCK
- 59 UNKNOWN LIGHT TRUCK TYPE
- 67 STATIONWAGON BASE BODY TYPE UNKNOWN
- UTILITY BASE BODY TYPE UNKNOWN
- 69 UNKNOWN LIGHT TRUCK

MEDIUM/HEAVY TRUCKS

- 70 SINGLE UNIT STRAIGHT TRUCK
- 73 MEDIUMHEAVY TRUCK BASED MOTORHOME
- 74 TRUCK TRACTOR (CAB)
- 75 UNKNOWN IF SINGLE UNIT OR COMBINATION TRUCK
- 77 CAMPER OR MOTORHOME
- UNKNOWN TRUCK TYPE 79 - UNKNOWN TRUCK TYPE

47. BODYTYPE

(CONTINUED) OTHER MOTORIZED VEHICLE

- 80 SNOWMOBILE 81 - FARM EQUIPMENT
- 82 ATV
- 83 CONSTRUCTION EQUIPMENT
- 88 OTHER UNSPECIFIED VEHICLE
- 89 UNKNOWN OTHER
 - MOTORIZED VEHICLES

NON-MOTORIZED UNITS

- 90 UNICYCLE, BICYCLE, TRICYCLE
- 91 OTHER PEDALCYCLE (BIG WHEEL)
- 92 UNKNOWN PEDALCYCLE
- 93 HORSE AND BUGGY
- 94 HORSE AND RIDER

TRACK VEHICLES

- 95 TRAIN
- 96 TROLLEY

IF NOTHING ELSE

- 98 OTHER BODY TYPE
- 99 UNKNOWN BODY TYPE

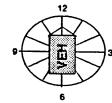
48. SPECIAL USAGE

- 0 NOT APPLICABLE
- 1 PUPIL TRANSPORT
- 2 FIRE VEHICLE
- 3 AMBULANCE
- 4 OTHER EMERGENCY VEHICLE
- 5 POLICE VEHICLE 6 - TRACTOR TRAILER
- 7 TWIN TRAILER
- 11- COMMERCIAL PASSENGER
- 12 TOWING PASSENGER VEHICLE
- 13 TOW TRUCK
- 14 TOWING UTILITY TRAILER
- 15 TOWING MOBILE OR MODULAR
- 16 TOWING CAMPER 20 - MODIFIED VEHICLE

- 49. VEHICLE OWNERSHIP 1 - PRIVATE VEHICLE OWNED BY
 - DRIVER 2 - PRIVATE VEHICLE OWNED BY
 - ANOTHER
 - 3 RENTED VEHICLE
 - 4 STATE POLICE VEHICLE
 - 5 PENNDOT VEHICLE
 - 6 OTHER COMMONWEALTH VEH.
 - 7 MUNICIPAL POLICE VEHICLE
 - 8 OTHER MUNICIPAL GOVT VEH
 - 9 FEDERAL GOVERNMENT VEH.
 - 10 COMMERCIAL VEHICLE
- 11 PUPIL TRANSPORT CARRIER
- 98 OTHER 99 - UNKNOWN

50. INITIAL IMPACT POINT

- 0 NO IMPACT OR CONTACT
- 1 12 CLOCK POINTS
- 13 TOP
- 14 UNDERCARRIAGE
- 15 TOWED UNIT
- 99 UNKNOWN



51. VEHICLE STATUS

- 0 NOT APPLICABLE
- 1 LEGALLY PARKED
- 2 ILLEGALLY PARKED ON ROAD
- 3 ILLEGALLY PARKED OFF ROAD
- 4 HIT AND RUN 5 - DISABLED FROM PREVIOUS **ACCIDENT**

52. TRAVEL SPEED

- 00 STOPPED OR PARKED
- 01 97 ACTUAL OR ESTIMATED **SPEED**
- 98 98 MPH OR GREATER
- 99 UNKNOWN

53. VEHICLE GRADIENT

- 1. LEVEL ROADWAY
- 2 UP HILL
- 3 DOWN HILL
- 4 SAG (BOTTOM OF HILL)
- 5 CREST (TOP OF HILL)

IF DRIVER PRESENCE = 2. THEN DO NOT ENTER DATA FOR THE OPERATOR.

- 54. DRIVER PRESENCE
 - 1 DRIVER OPERATED VEHICLE
 - 2 DRIVERLESS VEHICLE 3 - DRIVER LEFT SCENE (AFTER ACCIDENT)

- 55. DRIVER CONDITION
 - 1 APPEARED NORMAL

 - 4 SICK 5 · FATIGUE
 - 6 · ASLEEP

- 2 HAD BEEN DRINKING
- 3 ILLEGAL DRUG USE
- 7 MEDICATION

APPENDIX B

CRASHPC Output (Damage and Trajectory Algorithm)

SUMMARY OF CRASHPC RESULTS USING DAMAGE

CALL THE MAN MAN THE THE THE TER NEW COST NEW COST NEW THE THE WAS NOT WER WIN THE THE THE THE WAS NOT THE WAS NOT

93-11

	SPEED CHANGE (DAMAGE)	IMPACT SPEED (DAMAGE AND SPINOUT)				
'EHICLE #1						
TOTAL	46 KPH (29 MPH)	53 KP	H (33 MPH)		
LONGITUDINAL	-46 KPH (-29 MPH)	53 KP	H (33 MPH)		
LATITUDINAL	O KPH (O MPH)	O KP	H (O MPH)		
PDOF ANGLE	O DEGREES					
ENERGY DISSIPATED	= 134907 JOULES (99489 FT-LB)					
ÆHICLE #2						
TOTAL	O KPH (O MPH)	O KP	H (O MPH)		
LONGITUDINAL	O KPH (O MPH)	O KP	H (O MPH)		
LATITUDINAL	O KPH (O MPH)	O KP	H (O MPH)		
PDOF ANGLE	O DEGREES					
ENERGY DISSIPATED	= 0 JOULES (0 FT-LB)					

SCENE INFORMATION

	VEHICLE #1	VEHICLE #2
:MPACT X-POSITION :MPACT Y-POSITION IMPACT HEADING ANGLE	-2.1 M. (-7.0 FT.) 3 M. (-1.1 FT.) O DEGREES	1.3 M. (4.2 FT.) .0 M. (.0 FT.) 180 DEGREES
REST X-POSITION REST Y-POSITION REST HEADING ANGLE	-1.3 M. (-4.3 FT.) -1.8 M. (-5.8 FT.) 40 DEGREES	1.3 M. (4.2 FT.) .0 M. (.0 FT.) 180 DEGREES
SIDE—SLIP ANGLE)IRECTION OF ROTATION MOUNT OF ROTATION	O DEGREES CW <360	O DEGREES NONE <360

(* INDICATES DEFAULT VALUE)

COLLISION AND SEPARATION

	VEHICLE #1	VEHICLE #2
COLLISION		
IMPACT X-POSITION	-2.1 M. (-7.0 FT.)	1.3 M. (4.2 FT.)
IMPACT Y-POSITION	3 M. (-1.1 FT.)	.O M. (.O FT.)
IMPACT HEADING ANGLE	o DEGREES	180 DEGREES
SEPARATION (USING SPINOUT)		
US .	6 KPH (4 MPH)	O KPH (O MPH)
VS	-11 KPH (-7 MPH)	O KPH (O MPH)
PSISD	84 DEG/SEC	O DEG/SEC

DAMAGE DATA

	VEHICLE #1	VEHICLE #2
SIZE CATEGORY	3	1.1.
TIFFNESS CATEGORY	3	0 453600 KGS (1000000 LBS) *
'EHICLE WEIGHT	1437 KGS (3167 LBS) 12FREN3	453600 KGS (1000000 LBS) ⊁ BARRIER
DOF ANGLE	O DEGREES	O DEGREES *
RUSH LENGTH	153 CM. (60 IN.)	O CM. (O IN.) *
C1	O CM. (O IN.)	O CM. (O IN.) *
CS	8 CM. (3 IN.)	o CM. (o IM.) *
X	32 CM. (13 IN.)	o CM. (o IN.) *
.)4	83 CM. (33 IN.)	O CM. (O IN.) *
C5	83 CM. (33 IN.)	O CM. (O IN.) *
06	47 CM. (19 IN.)	O CM. (O IN.) *
)	27 CM. (11 IN.)	O CM. (O IN.) *
D,	52 CM. (20 IN.)	O CM. (O IN.) *

DIMENSIONS AND INERTIAL PROPERTIES

	VEHICLE #1	VEHICLE #2		
_G TO FRONT AXLE	130 CM. (51 IN.)	127 CM. (50 IN.)		
CG TO REAR AXLE	141 CM. (56 IN.)	127 CM. (50 IN.)		
RACK	150 CM. (59 IN.)	127 CM. (50 IN.)		
G TO FRONT OF VEH	228 CM. (90 IN.)	127 CM. (50 IN.)		
CG TO REAR OF VEH	-270 CM. (-106 IN.)	-127 CM. (-50 IN.)		
GG TO SIDE OF VEH	92 CM. (36 IN.)	127 CM. (50 IN.)		
OMENT OF INERTIA	12416 KGS (27372 LBS)	***** KGS (***** LBS)		
VEHICLE MASS	4 KGS (8 LBS)	1179 KGS (2600 LBS)		
OLLING RESISTANCE				
LEFT FRONT WHEEL	.50	, OO		
RIGHT FRONT WHEEL	1.00	* OO		
LEFT REAR WHEEL	" O3	, 00		
RIGHT REAR WHEEL	"O3	.00		

COEFFICIENT OF FRICTION = .75

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APPENDIX C

NASS Vehicle Forms



J.S. Department of Transportation National Highway Traffic Safety Administration	GENERAL VE	HICLE FORM NATIONAL ACCIDENT CRASHWORTHII	SAMPLING SYSTE NESS DATA SYSTE
 Primary Sampling Unit Number Case Number - Stratum Vehicle Number 	125A	11. Police Reported Alcohol Presence (0) No alcohol present (1) Yes (alcohol present) (7) Not reported (8) No driver present (9) Unknown	0
VEHICLE IDENTIFIC	ATION AND A MARKET	Note: See variables 37 through 55	
4. Vehicle Model Year Code the last two digits of the (99) Unknown	model year	(Page 4) for information on O 12. Alcohol Test Result For Driver Code actual value (decimal implied	ther Drugs
5. Vehicle Make (specify): 1070 a Applicable codes are found in y NASS Data Collection, Coding Editing Manual. (99) Unknown		before first digit—0.xx) (95) Test refused (96) None given (97) AC test performed, results unkr (98) No driver present (99) Unknown Source:	nown
6. Vehicle Model (specify):	040	ACCIDENT RELATED	WE CENTER OF THE
Applicable codes are found in NASS Data Collection, Coding Editing Manual. (999) Unknown	your	13. Speed Limit (000) No statutory limit Code posted or statutory speed limit in kph (999) Unknown	064
7. Body Type Note: Applicable codes may be the back of this page.	e found on	mph X 1.6093 =kph 14. Attempted Avoidance Maneuver (00) No impact (01) No avoidance actions	01
8. Vehicle Identification Number		(02) Braking (no lockup) (03) Braking (lockup) (04) Braking (lockup unknown) (05) Releasing brakes	
Left justify; Slash zeros and let No VIN—Code all zeros Unknown—Code all nine's	tter Z (Ø and Z)	(06) Steering left (07) Steering right (08) Braking and steering left (09) Braking and steering right (10) Accelerating	
9. Police Reported Vehicle Dispos	1	(11) Accelerating and steering left (12) Accelerating and steering right (97) No driver present	
(0) Not towed due to vehicle of (1) Towed due to vehicle damage (9) Unknown	lamage	(98) Other action (specify): (99) Unknown	
10. Police Reported Travel Speed	999	15. Accident Type Applicable codes may be found on to back of page two of this field form	he O
Code to the nearest kph (NOT) less than 0.5 kph) (160) 159.5 kph and above (999) Unknown	E: 000 means	(00) No impact Code the number of the diagram that best describes the accident circumst (98) Other accident type (specify):	t tance
mph X 1.6093 =	kph	(99) Unknown	
**** SVID TO VA	DIADIE OVOZ IE O	0.107 0.050 0.07 50.000 0.000 0.000	

CODES FOR BODY TYPE

CDS APPLICABLE VEHICLES

Automobiles

- (01) Convertible (excludes sun-roof, t-bar)
- (O2) 2-door sedan, hardtop, coupe
- (03) 3-door/2-door hatchback
- (04) 4-door sedan, hardtop
- (05) 5-door/4-door hatchback
- (06) Station wagon (excluding van and truck based)
- (07) Hatchback, number of doors unknown
- (08) Other automobile type (specify):
- (09) Unknown automobile type

Automobile Derivatives

- (10) Auto based pickup (includes El Camino, Caballero, Ranchero, Brat, and Rabbit pickup)
- (11) Auto based panel (cargo station wagon, auto based ambulance/hearse)
- (12) Large limousine more than four side doors or stretched chassis
- (13) Three-wheel automobile or automobile derivative

Utility Vehicles (≤ 4,500 kgs GVWR)

- (14) Compact utility (Jeep CJ-2 CJ-7, Scrambler, Golden Eagle, Renegade, Laredo, Wrangler, Cherokee [84 and after], Dispatcher, Raider, Bronco II, Bronco [76 and before], Explorer, S-10 Blazer, Geo Tracker, Bravada, S-15 Jimmy, Thing, Pathfinder, Trooper, Trooper II, Rodeo, Amigo, Navajo, 4-Runner, Montero, Samurai, Sidekick, Rocky)
- (15) Large utility (includes Jeep Cherokee [83 and before], Ramcharger, Trailduster, Bronco-fullsize [78 and after], fullsize Blazer, fullsize Jimmy, Landcruiser, Rover, Scout)
- (16) Utility station wagon (Chevy Suburban, GMC Suburban, Travelall, Grand Wagoneer, includes suburban limousine)
- (19) Utility, unknown body type

Van Based Light Trucks (≤ 4,500 kgs GVWR)

- (20) Minivan (Chrysler Town and Country, Caravan, Grand Caravan, Voyager, Grand Voyager, Mini-Ram, Dodge/Plymouth Vista, Aerostar, Villager, Lumina APV, Trans Sport, Silhouette, Astro, Safari, Toyota Van, Toyota Minivan, Previa, Nissan Minivan, Quest, Mitsubishi Minivan, Vanagon/Camper.)
- (21) Large van (B150-B350, Sportsman, Royal, Maxiwagon, Ram, Tradesman, Voyager [83 and before], E150-E350, Econoline, Clubwagon, Chateau, G10-G30, Chevy Van, Beauville, Sport Van, G15-G35, Rally Van, Vandura.)
- (22) Step van or walk-in van (≤ 4,500 kgs GVWR)
- (23) Van based motorhome (≤ 4,500 kgs GVWR)
- (24) Van based school bus (≤ 4,500 kgs GVWR)
- (25) Van based other bus (≤ 4,500 kgs GVWR)
- (28) Other van type (Hi-Cube Van, Kary) (specify):
- (29) Unknown van type

Light Conventional Trucks (Pickup style cab, ≤ 4,500 kgs GVWR)

- (30) Compact pickup (D50, Colt P/U, Ram 50, Dakota, Arrow Pickup [foreign], Ranger, Courier, S-10, T-10, LUV, S-15, T-15, Sonoma, Datsun/Nissan Pickup, P'up, Mazda Pickup, Toyota Pickup, Mitsubishi Pickup)
- (31) Large Pickup (Jeep Pickup, Comanche, Ram Pickup, D100-D350, W100-W350, F100-F350, C10-C35, K10-K35, R10-R35, V10-V35, Silverado, Sierra, R100-R500,)

- (32) Pickup with slide-in camper
- (33) Convertible pickup
- (39) Unknown pickup style light conventional truck type

Other Light Trucks (≤ 4,500 kgs GVWR)

- (40) Cab chassis based (includes rescue vehicles, light stake, dump, and tow truck)
- (41) Truck based panel
- (42) Light truck based motorhome (chassis mounted)
- (45) Other light conventional truck type
- (48) Unknown light truck type
- (49) Unknown light vehicle type (automobile, utility, van, or light truck)

OTHER VEHICLES

Buses (Excludes Van Based)

- (50) School bus (designed to carry students, not cross country or transit)
- (58) Other bus type (e.g., transit, intercity, bus based motorhome) (specify):
- (59) Unknown bus type

Medium/Heavy Trucks (> 4,500 kgs GVWR)

- (60) Step van (> 4,500 kgs GVWR)
- (61) Single unit straight truck (4,500 kgs < GVWR ≤ 8,850 kgs)
- (62) Single unit straight truck (8,850 kgs < GVWR ≤ 12,000 kgs)
- (63) Single unit straight truck (> 12,000 kgs GVWR)
- (64) Single unit straight truck, GVWR unknown
- (65) Medium/heavy truck based motorhome
- (67) Truck-tractor with no cargo trailer
- (68) Truck-tractor pulling one trailer
- (69) Truck-tractor pulling two or more trailers
- (70) Truck-tractor (unknown if pulling trailer)
- (78) Unknown medium/heavy truck type
- (79) Unknown truck type (light/medium/heavy)

Motored Cycles (Does Not Include All-Terrain Vehicles/Cycles)

- (80) Motorcycle
- (81) Moped (motorized bicycle)
- (82) Three-wheel motorcycle or moped
- (88) Other motored cycle (minibike, motorscooter) (specify):_____
- (89) Unknown motored cycle type

Other Vehicles

- (90) ATV (All-Terrain Vehicle) and ATC (All-Terrain Cycle)
- (91) Snowmobile
- (92) Farm equipment other than trucks
- (93) Construction equipment other than trucks
- (97) Other vehicle type
- (99) Unknown body type

Page 2

^	Secondary Highest
29. Basis for Total Delta V (highest)	32. Lateral Component of Delta V () 0 4
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.	32. Lateral Component of Delta V O O O O O O Nearest kph O O O O O O O O O O O O O O O O O O O
(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 Secondary Highest 30. Total Delta V	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
Nearest kph (NOTE: 000 means less than 0.5 kph) (160) 159.5 kph and above (999) Unknown	35. Type of Vehicle Inspection (0) No inspection (1) Complete inspection (2) Partial inspection (specify):
31. Longitudinal Component of Delta V Nearest kph (NOTE:000 means greater than0.5 kph and less than +0.5 kph) (±160) ±159.5 kph and above (999) Unknown	36. Is this an AOPS Vehicle? (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 [1NO
IF YES: IS A COMPLETED OLDMISS PROGRA	AM SUMMARY INCLUDED? [] YES [INO

37. Police Reported Other Drug Presence (0) No other drugs present	DRUG EVALUATION CLASSIFICATION OTHER DRUGS TEST RESULTS FOR DRIVER
(1) Yes (other drug present)(7) Not reported(8) No driver present	DEC Specimen Test Test Results Results
(9) Unknown 38. Police Reported Drug Evaluation Classification (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	Narcotic Drug Depressant Drug Stimulant Drug Hallucinogen Drug Cannabinoid Drug Phencyclidine (PCP) Inhalant Drug Other Drug (Excluding Nicotine, Aspirin, Alcohol, Drugs Administered Post-Crash)
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	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

TOTHER DATA	61. Rollover Initiation Object Contacted 0
FO. D. Landa Zin Code	
56. Driver's Zip Code (00000) Driver not present	62. Location on Vehicle Where Initial Principal Tripping Force Is Applied
(00001) Driver not a resident of U.S. or territories	
Code actual 5-digit zip code (99999) Unknown	(O) No rollover
(33333) OIIKIIOWII	(1) Wheels/tires
.1	(2) Side plane (3) End plane
57. Driver's Race/Ethnic Origin	(4) Undercarriage
(0) Driver not present	(5) Other location on vehicle (specify):
(1) White (non-Hispanic)	
(2) Black (non-Hispanic) (3) White (Hispanic)	(8) Non-contact rollover forces (specify):
(4) Black (Hispanic)	(9) Unknown
(5) American Indian, Eskimo or Aleut	(o) onknown
(6) Asian or Pacific Islander	
(8) Other (specify):	63. Direction of Initial Roll
(9) Unknown	(O) No rellever
(o) Chalowi	(0) No rollover (1) Roll right - primarily about the longitudinal axis
	(2) Roll left - primarily about the longitudinal axis
58. Vehicle Special Use (This Trip)	12) Non lote primarily about the longitudina.
(0) No special use	(5) End-over-end (i.e., primarily about the lateral
(1) Taxi (2) Vehicle used as school bus	axis)
(3) Vehicle used as other bus	(9) Unknown roll direction
(4) Military	
(5) Police	
(6) Ambulance	ASSESSATION DE CONTRACTOR AND
(7) Fire truck or car	PRECRASH DATA
(8) Other (specify):	64. Pre-Event Movement (Prior to
(9) Olikilowii	Recognition of Critical Event)
ROLLOVER DATA	
NOLLOVEN DATA	
If GV07 (Body Type) ≠ 1-49, leave GV59-GV63 blank.	(O2) Slowing or stopping in traffic lane (O3) Starting in traffic lane
If GV24 (Rollover) = 0, then GV59-GV63 must equal 0.	(04) Stopped in traffic lane
If GV24 = 9, then GV59-GV63 must equal 9.	(05) Passing or overtaking another vehicle
	(06) Disabled or parked in travel lane
59. Rollover Initiation Type (0) No rollover	(07) Leaving a parking position
(1) Trip-over	(08) Entering a parking position
(2) Flip-over	(09) Turning right
(3) Turn-over	(10) Turning left (11) Making a U-turn
(4) Climb-over	(12) Backing up (other than for parking position)
(5) Fall-over	(13) Negotiating a curve
(6) Bounce-over	(14) Changing lanes
(7) Collision with another vehicle (8) Other rollover initiation type specify):	(15) Merging
(0) Other follows: initiation type specify.	(16) Successful avoidance maneuver to a previous
(9) Unknown rollover initiation type	critical event (97) Other (specify):
	(07) Other (specify).
60. Location of Rollover Initiation	(98) No driver present (99) Unknown
(O) No rollover	•
(1) On roadway	
(2) On shoulder—paved	
(2) On shoulder—paved (3) On shoulder—unpaved	
(2) On shoulder—paved	

CODES FOR ROLLOVER INITIATION OBJECT CONTACTED

(00) No rollover (57) Fence (01-30) - Vehicle Number (58) Wall (59) Building Noncollision (60) Ditch or culvert (31) Turn-over - fall-over (61) Ground (33) Jackknife (62) Fire hydrant (63) Curb Collision With Fixed Object (64) Bridge (41) Tree (≤ 10 cm in diameter) (68) Other fixed object (specify): (42) Tree (> 10 cm in diameter) (43) Shrubbery or bush (69) Unknown fixed object (44) Embankment Collision with Nonfixed Object (45) Breakaway pole or post (any diameter) (71) Motor vehicle not in-transport (76) Animal Nonbreakaway Pole or Post (77) Train (50) Pole or post (≤ 10 cm in diameter) (78) Trailer, disconnected in transport (51) Pole or post (> 10 cm but \leq 30 cm in (88) Other nonfixed object (specify): diameter) (52) Pole or post (> 30 cm in diameter) (89) Unknown nonfixed object (53) Pole or post (diameter unknown) (98) Other event (specify): (54) Concrete traffic barrier

(99) Unknown event or object

(55) Impact attenuator

(specify):

(56) Other traffic barrier (includes guardrail)

	PRECRASH DA	ΓA (Continued)
65.	Critical Precrash Event 13	Pedestrian or Pedalcyclist, or Other Nonmotorist (80) Pedestrian in roadway
This	Vehicle Loss of Control Due To:	(81) Pedestrian approaching roadway
(01)	Blow out or flat tire	(82) Pedestrian - unknown location
(02)	Stalled engine	(83) Pedalcyclist or other nonmotorist in roadway
(03)	Disabling vehicle failure (e.g., wheel fell off)	(specify):
,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	(specify):	(84) Pedalcyclist or other nonmotorist approaching
(04)	Non-disabling vehicle problem (e.g., hood flew	roadway (specify):
(0.,	up) (specify):	(85) Pedalcyclist or other nonmotorist—unknown
(05)	Poor road conditions (puddle, pot hole, ice, etc.)	location (specify):
(00)	(specify):	
1061	Traveling too fast for conditions	Object or Animal
	Other cause of control loss (specify):	(87) Animal in roadway
(00)	Other cade of control lose topeout.	(88) Animal approaching roadway
1001	Unknown cause of control loss	(89) Animal—unknown location
(05)	Officioval cause of control loss	(90) Object in roadway
Thic	Vehicle Traveling	(91) Object approaching roadway
11113	Over the lane line on left side of travel lane	(92) Object—unknown location
(10)	Over the lane line on right side of travel lane	(32) Object—unknown location
(11)	Off the edge of the read on the left side	(98) Other critical precrash event (specify):
(12)	Off the edge of the road on the left side	(30) Other chical preciasi event (speeny).
	Off the edge of the road on the right side	(99) Unknown
	End departure	(99) OHKHOWH
	Turning left at intersection	
(16)	Turning right at intersection	For Connective Actions Attempted and variable CV14
(17)	Crossing over (passing through) intersection	For Corrective Actions Attempted see variable GV14
(19)	Unknown travel direction	(Attemped Avoidance Manuever)
Oth	er Motor Vehicle In Lane	
	Stopped .	loo n
	Traveling in same direction with lower speed	66. Precrash Stability After Avoidance Maneuver
(51)	(i.e., lower steady speed or decelerating)	(0) No avoidance maneuver
15.0	Traveling in same direction with higher speed	(1) Tracking
	Traveling in opposite direction	(2) Skidding longitudinally—rotation less than 30
) In crossover	degrees
•		(3) Skidding laterally—clockwise rotation
(55) Backing) Unknown travel direction of other motor vehicle	(4) Skidding laterally—counterclockwise rotation
(59		(7) Other vehicle loss-of-control (specify):
	in lane	
Oth	er Motor Vehicle Encroaching Into Lane	(8) No driver present
160	From adjacent lane (same direction)—over left	(9) Precrash stability unknown
(00	lane line	(6) Trestasti stability and over
161) From adjacent lane (same direction)—over right	
(0)	lane line	1
162) From opposite direction—over left lane line	67. Precrash Directional Consequences of
	From opposite direction—over right lane line	Avoidance Maneuver (Corrective Action)
) From parking lane	(0) No avoidance maneuver
) From crossing street, turning into same	(1) Vehicle stayed in travel lane where avoidance
(00	direction	maneuver was initiated
166	i) From crossing street, across path	(2) Vehicle stayed on roadway but left travel lane
) From crossing street, across path) From crossing street, turning into opposite	where avoidance maneuver was initiated
(0)	direction	(3) Vehicle stayed on roadway, not known if left
165		travel lane where avoidance maneuver was
	From crossing street, intended path not known From driveway, turning into same direction.	initiated
)) From driveway, turning into same direction	
)) From driveway, across path	(4) Vehicle departed roadway
(/2	2) From driveway, turning into opposite direction	(5) Avoidance maneuver initiated off roadway
(73	B) From driveway, intended path not known	(8) No driver present
	1) From entrance to limited access highway	(9) Directional consequences unknown
(78	3) Encroachment by other vehicle—details	
	unknown	
	*** IF THE CDS APPLICABLE VEHICLE V	VAS 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.



U.S. Department of Transportation

National Highway Traffic Safety

EXTERIOR VEHICLE FORM

NATIONAL ACCIDENT SAMPLING SYSTEM
CRASHWORTHINESS DATA SYSTEM

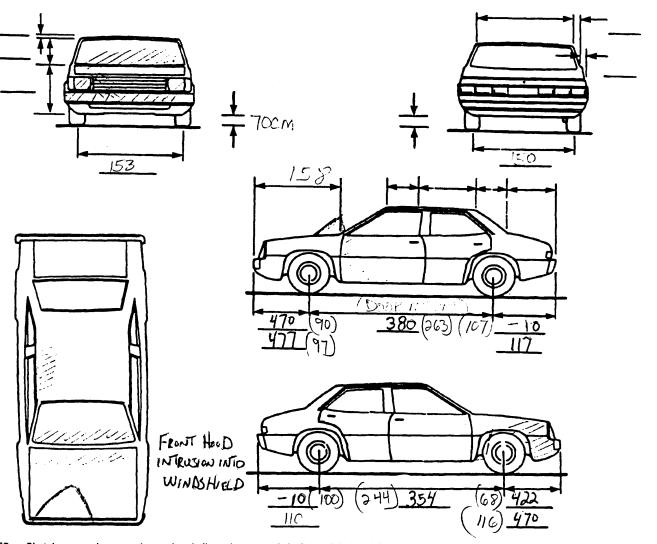
Administration								CRASH	WORTHIN	ESS DATA	SYSTEM
1. Primary	y Sampling Unit N	umber	05	3.	Vehicle	Numbe	er				1
2. Case N	lumber - Stratum		25A	<u> </u>							
群岛(西南)	经外域的	1819年	VEHICLE ID	ENTIF	ICATI	ON 🐃	and the property		ym fyrdidi	a state	trages,
VIN I	123k	121	XNX	9				<u>•</u>	Model Y	ear	2
Vehicle Ma	ke (specify): 10	yota		_	'ehicle f	Model (s	pecify):	<u>Ca</u>	mry	•	
特徵的全个	ભાગ કર્યાં કે કર્યાં છે. જે કર્યું કર્યું કર્યું છે. જે જ	大学(<u>新教</u> 教》中的代	enter LO	CATO	} ∵∘	may refer	a i fallender	भाके जोडा <u>ने</u> र	ar arkş	(1) 10 年,并是	
•	end of the damag maged axle for sign	•	ct to the vehic	cle longi	itudinal	center	line or b	umper o	corner fo	or end in	npacts
	mpact No.	Location	of Direct Dar	nage			Lo	ocation	of Field	L	
	3	6" from	R FROM B.	nonger (OCNSC.		FNY	in Fi	ort		
			· · · · · · · · · · · · · · · · · · ·				· · · · ·				
// \\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \		and the second									712
	dentify the plane a fill, etc.) and label				taken (e.g., at	bumpe	r, above	e bumpe	r, at sill	i, above
N	Measure and docu	ment on the	vehicle diagra	ım the le	ocation	of max	imum c	rush.			
	Measure C1 to C6 mpacts.	from driver t	o passenger	side in f	ront or	rear im	pacts a	nd rear	to front	in side	
t	Free space value is he individual C loc side taper, etc. Re	cations. This	may include	the follo	owing:	bumper	lead, b	umper t			
	Jse as many lines										
Specific	1	Direct	Damage								T
Impact Number	Plane of Impact C-Measurements	(CDC)	Max Crush	Field L	C ₁	C ₂	C₃	C₄	C ₆	C _e	±D
	Town Brages	40		73	7	B	33	94	97	39	1065
	Freespace	1/2		<u> </u>	<u>-12</u>	-4	- \	-1	1-4	-12	1
	+ Resultant	40		73	0	ક	32	83	83	47	126:5
										 	
											-
			-					 	 	1	
			-				1	 		-	-
						 	1	1		†	
	 					 	+	+		+	

ORIGINAL SPECIFICATIONS WORK SHEET

Wheelbase	 inches	x 2.54	=	<u>262</u> cm
Overall Length	 inches	x 2.54	=	<u>477cm</u>
Maximum Width	 inches	x 2.54	=	<u> </u>
Curb Weight	 pounds	x .4536	=	<u>1,3 5 4</u> kg
Average Track	 inches	x 2.54	=	<u>(5_2</u> cm
Front Overhang	 inches	x 2.54	=	<u> </u>
Rear Overhang	 inches	x 2.54	=	<u> 1 1 4 cm</u>
Undeformed End Width	 inches	x 2.54	=	<u></u>
Engine Size: cyl./displ.	 СС	x .001	=	L
	CID	x .0164	_	L

VEHICLE DAMAGE SKETCH 34,915 **ORIGINAL SPECIFICATIONS** TIRE-WHEEL DAMAGE WHEEL STEER ANGLES a. Rotation physically b. Tire (For locked front wheels or restricted deflated Wheelbase displaced rear axles only) cm RF@_05 **Overall Length** cm RF 2 LF ± NA Maximum Width RR ± cm Curb Weight ka Within ± 5 degrees 152 Average Track cm (1) Yes (2) No (8) NA (9) Unk. **DRIVE WHEELS** Front Overhang cm ₩ FWD □ RWD □ 4WD Rear Overhang cm TYPE OF TRANSMISSION **Undeformed End Width** cm **Approximate** ☑ Automatic □ Manual Engine Size: cyl./displ. 4/2 L Cargo Weight 000 kg

MEASUREMENTS IN CENTIMETERS



IOTES: Sketch new perimeter and cross hatch direct damage and single hatch induced damage on all views. Annotate observations which might be useful in reconstructing the accident (e.g., grass in tire bead, direction of striations, scuff on sidewalls, etc.). If pulling trailer, sketch type of trailer and damage received on the back of this page.

Annotate any damage caused by extrication such as component removal by torching, prying, or hydraulic shears.

eath saffaith and i for the complete and each aCDC V	VORKSHEE"	Transation		e grande de la companya de la compa	. West	
CODES FOR (DBJECT CONT	ACTED				
(01-30) — Vehicle Number		Fence Wall				
Noncollision		Building				
(31) Overturn — rollover		Ditch or o	culvert			
(32) Fire or explosion		Ground	Cuivert			
(33) Jackknife		Fire hydra	ent			
(34) Other intraunit damage (specify):		Curb	2116			
(04) Other intradrict damage (specify).		Bridge				
(35) Noncollision injury			ed object (s	nooifid:		
(38) Other noncollision (specify):	(00)	Other lixe	eu object (s	pechy).		
(50) Other noncomsion (specify).	(60)	Hokoowa	fixed object		*	
(39) Noncollision — details unknown	(03)	Olikilowi	i lixeu objet	,		
(20) Monochiston — details dilknown	Callinia	n with No	nfixed Obje	1 2 1		
Collision With Fixed Object			hicle not in			
(41) Tree (≤ 10 cm in diameter)		Pedestria		ti alispui t		
(42) Tree (> 10 cm in diameter)		Cyclist of				
(43) Shrubbery or bush				r conveyanc		
(44) Embankment	(74)	Other no	illiotorist o	Conveyance	e	
(44) Linbankinent	/75\	Vabiala a				
(AE) Programmy pole or post (only diameter)		Vehicle o	ccupant			
(45) Breakaway pole or post (any diameter)		Animal				
Manhandanan Bala as Bast		77) Train				
Nonbreakaway Pole or Post		(78) Trailer, disconnected in transport (88) Other nonfixed object (specify):				
(50) Pole or post (≤ 10 cm in diameter)	(88)	Otner no	ntixea objec	ct (specity):		
(51) Pole or post (> 10 cm but ≤ 30 cm in diameter)	(00)	Halana		- lair a d		
	(89)	Unknowi	n nonfixed o	object		
(52) Pole or post (> 30 cm in diameter) (53) Pole or post (diameter unknown)	1001	Other ou	ant Innasifi	۸.		
(55) Fole of post (diameter unknown)	(90)	Other ev	ent (specify):		
(54) Concrete traffic barrier	(99)	Linknow	n event or o	hiect		
(55) Impact attenuator	(55)	Olikilowi	i event or c	bject		
(56) Other traffic barrier (includes guardrail)						
(specify):						
(0)00,7	_					
DEFORMATION CLASS	SIFICATION BY	EVENT N	UMBER			
		(4)	(5)			
Accident (1) (2)		Specific	Specific	(6)		
Event Direction Incremental	(3) L	ongitudinal	Vertical or	Type of	(7)	
Sequence Object of Force Value of	Deformation	or Lateral	Lateral	Damage	Deformation	
Number Contacted (degrees) Shift	Location	Location	Location	Distribution	Extent	
1	<u> </u>	3	<u> </u>	1 11 . 1	<u> </u>	
<u> </u>	<u> </u>	2	E	N	<u> </u>	
						
						

lational Accid	lent Sampling	System-Crash	worthiness Da	ta System: Ext	erior Vehicle F	orm	Page 4
	िल्लास्त्रीको को सम्बद्धाः स्ट	COLLISION	DEFORMA	TION CLAS	SIFICATIO	N Sagara	الإيجاز فرأه إنهاء فالمراجع والمعارفة
HIGHEST (DELTA "V"						
Accident Event Sequence Number	Object Contacted	(1) (2) Direction of Force	(3) Deformation Location	(4) Longitudinal or Lateral Location	(5) Vertical or Lateral Location	(6) Type of Damage Distribution	(7) Deformation Extent
4. 0	5. <u>5</u> 2	6. 12	7. <u> </u>	82	9	10	11.03
Second Hi	ghest Delta "V	***					
12	13	14	_ 15	16	17	18	19
and the second s	the 1989, August 1981 and the least	CPU	SH PROFILE	IN CENTIN	IETEDO		Chi catagoria i negaci ta
i semble ex coult of definite e							
			mage described below. (ALL N				ed
HIGHEST	DELTA "V"						
20. 	21. 				C ₆	C ₆	22.
<u> 153</u>	000	008	032	083	083 (47	P027
Second Hi	ighest Delta "V	/"					
23. L	24. 	C ₂		C ₄	Св	C ₆	25.
						· -	+
				· · · · · · · · · · · · · · · · · · ·			
but Not	Cs Documented Coded on The Ited File?	<u>0</u> 27.	Researcher's As of Vehicle Dispo (0) Not towed of vehicle dam (1) Towed due vehicle dam (9) Unknown	osition due to age to	-	al Wheelbase Code to the nearest centim Unknown	<u> </u>
					 inches X 2	.54 =	centimeters



U.S. Department of Transportation

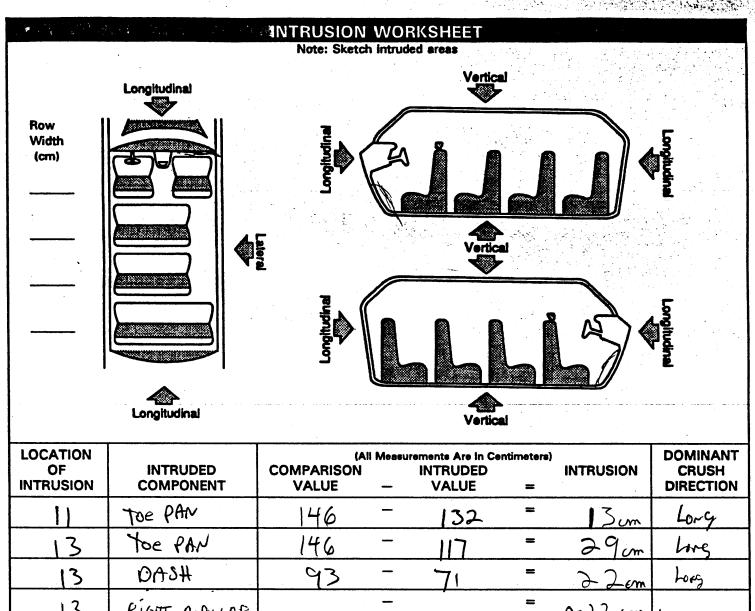
National Highway Traffic Safety Administration

INTERIOR VEHICLE FORM

NATIONAL ACCIDENT SAMPLING SYSTEM CRASHWORTHINESS DATA SYSTEM

1. Primary Sampling Unit Number	GLAZING
12	Glazing Damage from Impact Forces
2. Case Number - Stratum	15. WS <u>2</u> 16. LF <u>9</u> 17. RF <u>0</u> 18. LR <u>0</u> 19. RR <u>0</u>
3. Vehicle Number	20. BL <u>O</u> 21. Roof <u>B</u> 22. Other <u>O</u>
INTEGRITY	
4. Passenger Compartment Integrity (00) No integrity loss Yes, Integrity Was Lost Through (01) Windshield (02) Door (side) (03) Door/hatch (back door) (04) Roof (05) Roof glass (06) Side window (07) Rear window (backlight)	 (0) No glazing damage from impact forces (2) Glazing in place and cracked from impact forces (3) Glazing in place and holed from impact forces (4) Glazing out-of-place (cracked or not) and not holed from impact forces (5) Glazing out-of-place and holed from impact forces (6) Glazing disintegrated from impact forces (7) Glazing removed prior to accident (8) No glazing (9) Unknown if damaged Glazing Damage from Occupant Contact
(O8) Roof and roof glass	
(09) Windshield and door (side) (10) Windshield and roof	23. WS <u>O</u> 24. LF <u>9</u> 25. RF <u>O</u> 26. LR <u>O</u> 27. RR <u>O</u>
(11) Side and rear window (side window and backlight) (12) Windshield and side window	28. BL <u>○</u> 29. Roof <u>○</u> 30. Other <u>○</u>
(13) Door and side window (98) Other combination of above (specify):	 (0) No occupant contact to glazing or no glazing (1) Glazing contacted by occupant but no glazing damage (2) Glazing in place and cracked by occupant contact (3) Glazing in place and holed by occupant contact
(99) Unknown	(4) Glazing out-of-place (cracked or not) by occupant contact and not holed by occupant contact (5) Glazing out-of-place by occupant contact and holed by
Door, Tailgate or Hatch Opening	occupant contact (6) Glazing disintegrated by occupant contact
5. LF 9 6. RF 1 7. LR 1 8. RR 1 9. TG/H 0	(9) Unknown if contacted by occupant
 (O) No door/gate/hatch (1) Door/gate/hatch remained closed and operational (2) Door/gate/hatch came open during collision (3) Door/gate/hatch jammed shut (8) Other (specify): 	If No Glazing Damage And No Occupant Contact or No Glazing, Then Code IV31 Through IV46 As Ø Type of Window/Windshield Glazing
(9) Unknown	31. WS <u>/</u> 32. LF <u>9</u> 33. RF <u>0</u> 34. L <u>R</u> 0 35. RR <u>0</u>
	36. BL <u></u> 37. Roof <u></u> 38. Other <u></u>
Damage/Failure Associated with Door, Tailgate or Hatch Opening in Collision. If IV05-IV09 ≠ 2, Then code Ø 10. LF ② 11. RF ② 12. LR ② 13. RR ② 14. TG/H ○	(0) No glazing contact and no damage, or no glazing (1) AS-1 — Laminated (2) AS-2 — Tempered (3) AS-3 — Tempered-tinted (4) AS-14 — Glass/Plastic
(O) No door/gate/hatch or door not opened	(8) Other (specify):
Door, Tailgate or Hatch Came Open During Collision	(9) Unknown
(1) Door operational (no damage) (2) Latch/striker failure due to damage	Window Precrash Glazing Status
(3) Hinge failure due to damage (4) Door structure failure due to damage	39. WS / 40. LF 9 41. RF 0 42. LR 0 43. RR 0
(5) Door support (i.e., pillar, sill, roof side rail,	44. BL <u>0</u> 45. Roof <u>0</u> 46. Other <u>0</u>
etc.) failure due to damage (6) Latch/striker and hinge failure due to damage (8) Other failure (specify):	(0) No glazing contact and no damage, or no glazing (1) Fixed
(9) Unknown	(2) Closed (3) Partially opened (4) Fully opened

(9) Unknown



OF INTRUSION	INTRUDED COMPONENT	COMPARISON VALUE	_	INTRUDED VALUE	=	INTRUSION	CRUSH DIRECTION
1)	Toe PAN	146	_	132	=	13cm	Long
13	toe PAN	146		117	=	29 cm	Long
13	DASH	93	_	71	=	22 cm	Lorg
13	RIGHT A-PILLAR		-	·	=	~22 cm	
			_		=		0
			_		=		
			-		=		
			_		=		
			_		=		
					=		
			_		=		
			_		=		
			_		=		
			_		=		
			-		=		

OCCUPANT AREA INTRUSION

Note	: If no intrusion	s, leave variable	es IV47-IV	86 blank.
	Location of Intrusion	Intruding I Component o	Magnituda f Intrusion	Dominant Crush Direction
1st	47	480_5	49. <u>3</u>	50
2nd	51. <u>13</u>	52. <u>0</u> <u>H</u>	53. <u>3</u>	54
3rd	55	56. <u>05</u>	57. <u>2</u>	58. 2
4th	59. <u>(3</u>	60. <u>0</u> 6	61. <u>3</u>	622
5th	63	64	65	66
6th	67	68	69	70
7th	71	72	73	74
8th	75	76	77	78
9th	79	80	81	82
10th	83	84	95	96

LOCATION OF INTRUSION

Front	Seat
-------	------

- (11) Left
- (12) Middle
- (13) Right

Second Seat (21) Left

- (22) Middle
- (23) Right

Third Seat

- (31) Left
- (32) Middle
- (33) Right

10th 83.___ 84.__ 85.__ 86.__

Fourth Seat

- (41) Left
- (42) Middle
- (43) Right

(97) Catastrophic

- (98) Other enclosed
 - area (specify)

(99) Unknown

INTRUDING COMPONENT

Interior Components

- (01) Steering assembly
- (02) Instrument panel left
- (03) Instrument panel center
- (04) Instrument panel right (05) Toe pan
- (06) A (A1/A2)-pillar
- (07) B-pillar
- (08) C-pillar
- (09) D-pillar
- (10) Door panel (side)
- (12) Roof (or convertible top)
- (13) Roof side rail
- (14) Windshield
- (15) Windshield header
- (16) Window frame
- (17) Floor pan (includes sill)
- (18) Backlight header
- (19) Front seat back
- (20) Second seat back
- (21) Third seat back
- (22) Fourth seat back
- (23) Fifth seat back (24) Seat cushion
- (25) Back door/panel (e.g., tailgate)
- (26) Other interior component (specify):
- (27) Side panel forward of the A (A2)-pillar
- (28) Side panel rear of the A (A2)-pillar

Exterior Components

- (30) Hood
- (31) Outside surface of this vehicle (specify):
- (32) Other exterior object in the environment (specify):
- (33) Unknown exterior object
- (97) Catastrophic
- (98) Intrusion of unlisted component(s) (specify):
- (99) Unknown

MAGNITUDE OF INTRUSION

- (1) \geq 3 centimeters but < 8 centimeters
- (2) ≥ 8 centimeters but < 15 centimeters
 (3) ≥ 15 centimeters but < 30 centimeters
- (4) ≥ 30 centimeters but < 46 centimeters
- (5) ≥ 46 centimeters but < 61 centimeters
- (6) \geq 61 centimeters
- (7) Catastrophic
- (9) Unknown

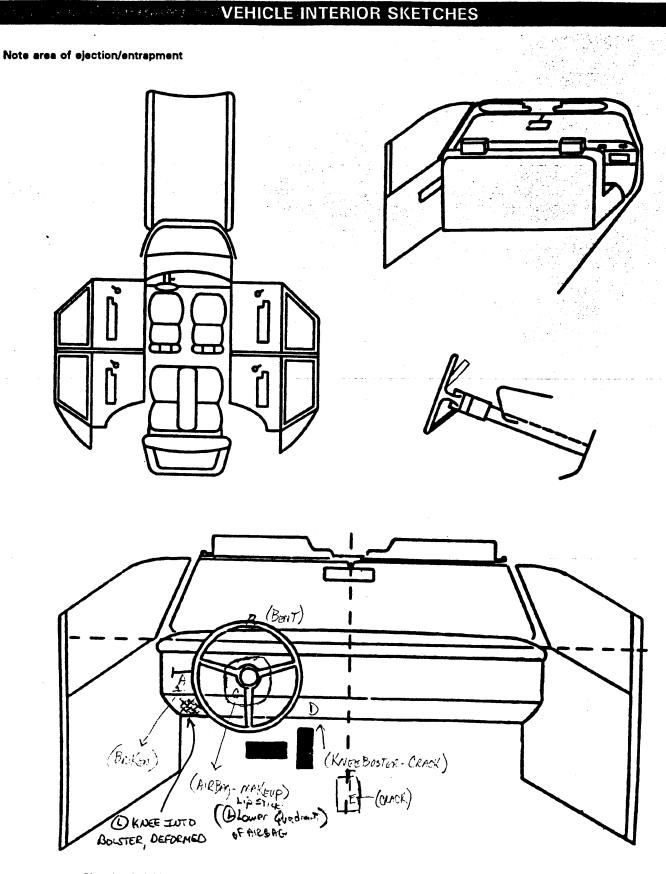
DOMINANT CRUSH DIRECTION

- (1) Vertical
- (2) Longitudinal
- (3) Lateral
- (7) Catastrophic
- (9) Unknown

STEERING RIM/SPOKE DEFORMATION				
and the second s	(All Messurements Are in Centimeters)			
COMPARISON VALUE	- DAMAGE VALUE =	DEFORMATION		
	- 63	03		
	·			
	••			

National Accident Sampling System-Crashworthiness Data System: Interior Vehicle Form

87. Steering Column Type (1) Fixed column (2) Tilt column (3) Telescoping column (4) Tilt and telescoping column (8) Other column type (specify): (9) Unknown	93. Location of Steering Rim/Spoke Deformation (00) No steering rim deformation Quarter Sections (01) Section A (02) Section B (03) Section C (04) Section D Half Sections (05) Upper half of rim/spoke (06) Lower half of rim/spoke (07) Left half of rim/spoke (08) Right half of rim/spoke (09) Complete steering wheel collapse
so that numbering consistency can be maintained with the 1988-93 CDS.	(10) Undetermined location (99) Unknown INSTRUMENT PANEL
89. Blank (This variable is left blank so that numbering consistency can be maintained with the 1988-93 CDS.	94. Odometer Reading
90. Blank (This variable is left blank so that numbering consistency can be maintained with the 1988-93 CDS.	_24, 701 miles x 1.6093 = kilometers Source: Anapactury
91. Blank (This variable is left blank so that numbering consistency can be maintained with the 1988-93 CDS.	95. Instrument Panel Damage from Occupant Contact? (0) No (1) Yes (9) Unknown
92. Steering Rim/Spoke Deformation Code actual measured deformation to the nearest centimeter (00) No steering rim deformation (01-14) Actual measured value in centimeters	96. Knee Bolsters Deformed from Occupant Contact? (0) No (1) Yes (8) Not present (9) Unknown
(15) 15 centimeters or more (98) Observed deformation cannot be measured (99) Unknown	97. Did Glove Compartment Door Open During Collision(s)? (0) No (1) Yes (8) Not present (9) Unknown



Sketch windshield contact(s) and the damaged area(s) on the instrument panel outline (e.g., radio, glove compartment, damage to instrument panel structure.

Cross hatch contact points, draw spider webs or use other annotation as may be appropriate.

Annotate the contacted area with a letter (begin with A) and list on the Points of Occupant Contact page.

National Accident Sampling System-Crashworthiness Data System: Interior Vehicle Form

	. _{Kar} ang V anada kanalah salah sa	POIN	TS	OF OCC	CUPANT CONTAC	CT	•	
Contact	Interior Component Contacted	Occupant No. If Known	R	Body egion If nown	Supporting Ph	125 N	vidence	Confidence Level of Contact Point
Α	107		(Z)f	HM HAND	Broken Lea	r-		
В	64	1		cF=	Bent Rin			1
С	45			YCE:	Lipstick & Makeup		Fers ow BAG	-/
D	13		R	thee ko		cree t	Bolster	
E	57		10	thish	CRACKED.			7
F	13	. 1	10	LDEE	DEFORMED	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		1
G				V-C-C				
Н								
i.		· ·						
J								
К								
L		****	T					
М	1		1					·
N			1					
(03) Sum (04) Stee (05) Stee (06) Stee of co	(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		Left side v one or mor frame, wir B-pillar, or Other left	vindow glass or frame vindow glass including re of the following: adow sill, A (A1/A2)-pillar, roof side rail.	(47) (48) (49) ROOF (50)	Front header	ecify):	
(15) Wincof th	instrument panel and er instrument panel and er instrument panel and e compartment door bolster shield including one e following: front her 1/A2)-pillar, instrume on, or steering assemt only) shield including one e following: front her 1/A2)-pillar, instrume	below Ind below d below or more ader, ont panel, oly (driver or more ader, nt panel, or more ader, nt panel, or	(31) Right side (32) Right A (A (33) Right B-pil (34) Other righ (35) Right side (36) Right side one or mo frame, wir B pillar, or		interior surface, hardware or armrests hardware or armrest 1/A2)-pillar lar t pillar (specify): window glass or frame window glass including re of the following: ndow sill, A (A1/A2)-pillar, roof side rail.	FLOOR (56) (57)	Rear header Roof left side rail Roof right side rail Roof or convertible to Floor (including tee Floor or console mon trenemission lever, i console Parking brake handle Foot controls includi brake	pen) unted> ncluding
(16) Drive cove (17) Pass com (18) Wind	enger side air bag partment cover lehield reinforced by	riment	(37) Other right (38) Right side NTERIOR (40) Seat, back		window sill	(60) (61) (62)	Backlight (rear wind Backlight storage ra Other rear object (sp	ck, door, etc.
obje	ct (specify):		(41) Belt restrain		int webbing/buckle	1		

CONFIDENCE LEVEL OF CONTACT POINT

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

(21) Left side hardware or armrest(22) Left A (A1/A2)-pillar

LEFT SIDE

(19) Other front object (specify):

(20) Left side interior surface,

excluding hardware or armrests

compartment covers)

(43) Other restraint system component

((45)) Air bag (use codes "16" and "17"

for injuries sustained from air bag

(42) Belt restraint B-pillar

(epecify):_

attachment point

(44) Head restraint system

AUTOMATIC RESTRAINTS NOTES: Encode the data for each applicable front seat position. The attribute for the variables may be found below. Restraint systems should be assessed during the vehicle inspection then coded on the Occupant Assessment Form. **AIR BAGS** Left Availability/Function R Deployment S Failure Air Bag System Availability/Function Air Bag System Deployment Did Air Bog System Fell? (O) Not equipped/not evailable (0) Not equipped/not available (O) Not equipped/not available (1) Air bag Air bag deployed during accident (1) No (as a result of impact) (2) Yes (specify): Non-functional (2) Air bag deployed inadvertently just (2) Air bag disconnected (specify): prior to accident (9) Unknown Air bag deployed, accident sequence (3) Air bag not reinstalled undetermined (9) Unknown (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 **AUTOMATIC BELTS** Left Right Availability/Function F Use R Type S **Proper Use Failure Modes** Automatic (Passive) Belt System Proper Use of Automatic (Passive) Belt Automatic (Passive) Beit Fallure Modes **Availability/Function** System **During Accident** (O) Not equipped/not available (0) Not equipped/not available/not used (0) Not equipped/not available/not in use (1) 2 point automatic belts (1) Automatic belt used properly (1) No automatic belt failure(s) (2) 3 point automatic belts (2) Automatic belt used properly with Torn webbing (stretched webbing not (2) (3) Automatic belts - type unknown child safety seat included) Broken buckle or latchplate Non-functional Automatic Belt Used Improperly (4) Upper anchorage separated (4) Automatic belts destroyed or (3) Automatic shoulder belt worn under (5) Other anchorage separated (specify): rendered inoperative (9) Unknown (4) Automatic shoulder belt worn behind (6) Broken retractor back (7) Combination of above (specify): Automatic (Passive) Belt System Use (5) Automatic belt worn around more (8) Other automatic belt failure (specify): (0) Not equipped/not available/destroyed than one person or rendered inoperative (6) Lap portion of automatic belt worn (9) Unknown (1) Automatic belt in use on abdomen (2) Automatic belt not in use (manually (7) Automatic lap and shoulder belt or disconnected, motorized track automatic shoulder belt used inoperative) improperly (3) Automatic belt use unknown with child safety seat (specify): (9) Unknown (8) Other improper use of automatic belt Automatic (Passive) Belt System Type evetem (O) Not equipped/not available (specify): (1) Non-motorized system (9) Unknown (2) Motorized system . (9) Unknown

National Accident Sampling System-Crashworthiness Data System: Interior Vehicle Form

MANUAL RESTRAINTS

NOTES: Encode the applicable data for each seat position in the vehicle. The attribute for the variable may be found below. Restraint systems should be assessed during the vehicle inspection then coded on the Ocupant Assessment Form.

If a Child safety seat is present, encode the data on the back of this page.

If the vehicle has automatic restraints available, encode the appropriate data on the back of the previous page.

	en viágos en la composição de la composição	Left	Center	Right
F	Availability	4		18 1 18 4 1
R	Use	04	or a single contract	00
5 T	Failure Modes		- 1 O - 1 O - 1 O - 1 O - 1 O - 1 O - 1 O - 1 O - 1 O - 1 O - 1 O - 1 O - 1 O - 1 O - 1 O - 1 O - 1 O - 1 O - 1 O - 1 O - 1 O - 1 O - 1 O - 1 O - 1 O - 1 O - 1 O - 1 O - 1 O - 1 O - 1 O - 1 O - 1 O - 1 O - 1 O - 1 O - 1 O - 1 O - 1 O - 1 O - 1 O - 1 O - 1 O - 1 O - 1 O - 1 O - 1 O - 1 O - 1 O - 1 O - 1 O - 1 O - 1 O - 1 O - 1 O - 1 O - 1 O - 1 O - 1 O - 1 O - 1 O - 1 O - 1 O - 1 O - 1 O - 1 O - 1 O - 1 O - 1 O - 1 O - 1 O - 1 O - 1 O - 1 O - 1 O - 1 O - 1 O - 1 O - 1 O - 1 O - 1 O - 1 O - 1 O - 1 O - 1 O - 1 O - 1 O - 1 O - 1 O - 1 O - 1 O - 1 O - 1 O - 1 O - 1 O - 1 O - 1 O - 1 O - 1 O - 1 O - 1 O - 1 O - 1 O - 1 O - 1 O - 1 O - 1 O - 1 O - 1 O - 1 O - 1 O - 1 O - 1 O - 1 O - 1 O - 1 O - 1 O - 1 O - 1 O - 1 O - 1 O - 1 O - 1 O - 1 O - 1 O - 1 O - 1 O - 1 O - 1 O - 1 O - 1 O - 1 O - 1 O - 1 O - 1 O - 1 O - 1 O - 1 O - 1 O - 1 O - 1 O - 1 O - 1 O - 1 O - 1 O - 1 O - 1 O - 1 O - 1 O - 1 O - 1 O - 1 O - 1 O - 1 O - 1 O - 1 O - 1 O - 1 O - 1 O - 1 O - 1 O - 1 O - 1 O - 1 O - 1 O - 1 O - 1 O - 1 O - 1 O - 1 O - 1 O - 1 O - 1 O - 1 O - 1 O - 1 O - 1 O - 1 O - 1 O - 1 O - 1 O - 1 O - 1 O - 1 O - 1 O - 1 O - 1 O - 1 O - 1 O - 1 O - 1 O - 1 O - 1 O - 1 O - 1 O - 1 O - 1 O - 1 O - 1 O - 1 O - 1 O - 1 O - 1 O - 1 O - 1 O - 1 O - 1 O - 1 O - 1 O - 1 O - 1 O - 1 O - 1 O - 1 O - 1 O - 1 O - 1 O - 1 O - 1 O - 1 O - 1 O - 1 O - 1 O - 1 O - 1 O - 1 O - 1 O - 1 O - 1 O - 1 O - 1 O - 1 O - 1 O - 1 O - 1 O - 1 O - 1 O - 1 O - 1 O - 1 O - 1 O - 1 O - 1 O - 1 O - 1 O - 1 O - 1 O - 1 O - 1 O - 1 O - 1 O - 1 O - 1 O - 1 O - 1 O - 1 O - 1 O - 1 O - 1 O - 1 O - 1 O - 1 O - 1 O - 1 O - 1 O - 1 O - 1 O - 1 O - 1 O - 1 O - 1 O - 1 O - 1 O - 1 O - 1 O - 1 O - 1 O - 1 O - 1 O - 1 O - 1 O - 1 O - 1 O - 1 O - 1 O - 1 O - 1 O - 1 O - 1 O - 1 O - 1 O - 1 O - 1 O - 1 O - 1 O - 1 O - 1 O - 1 O - 1 O - 1 O - 1 O - 1 O - 1 O - 1 O - 1 O - 1 O - 1 O - 1 O - 1 O - 1 O - 1 O - 1 O - 1 O - 1 O - 1 O - 1 O - 1 O - 1 O - 1 O - 1 O - 1 O - 1 O - 1 O - 1 O - 1 O - 1 O - 1 O - 1 O - 1 O - 1 O - 1 O - 1 O - 1 O - 1 O - 1 O - 1 O - 1 O - 1 O - 1 O - 1 O - 1 O	Ø
S	Availability	15.00 4 10.00	3	4
%шООZС	Use	00	00	0 0
N D	Failure Modes	0	0	O
T H	Availability			
1	Use			
R D	Failure Modes			
Q	Availability			
Ĥ.	Use			
E R	Failure Modes			

Manual (Active) Belt System Availability

- (0) None available
- (1) Belt removed/destroyed
- (2) Shoulder belt
- (3) Lap belt
- (4) Lap and shoulder belt
- (5) Belt available type unknown

Integral Belt Partially Destroyed

- (6) Shoulder belt (lap belt destroyed/removed)
- (7) Lap belt (shoulder belt destroyed/removed)
- (8) Other belt (specify):
- (9) Unknown

Manual (Active) Belt System Use

- (00) None used, not available, or belt removed/destroyed
- (01) Inoperable (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

Manual (Active) Belt Failure Modes During Accident

- (0) No manual belt used or not available
- (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

$f_{n,k}$	A Maria Maria T. H. H. A. CH	ILD SAFE	TY SEAT F	IEL	D ASSE	SSMENT		
Wh	en a child safety seat is pres occupant's number using t	ent enter the	occupant's n	umb	er in the fi	rst row and co	mplete the colu nild safety seat	ımn below present.
Oc	cupant Number	4 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 -						
1.	Type of Child Safety Seat							
2.	Child Safety Seat Orientation							
3.	Child Safety Seat Harness Usage							
4.	Child Safety Seat Shield Uasge							
5.	Child Safety Seat Tether Usage						jach di	
6.	Child Safety Seat Make/Model		Specif	fy Be	low for E	ach Child Safe	ty Seat	: .
1.	Type of Child Safety Seat			3.	Child Safe	ety Seat Harne	ess Usage	
	(0) No child safety seat (1) Infant seat			4.	Child Safe	ety Seat Shield	d Usage	
	(2) Toddler seat(3) Convertible seat(4) Booster seat(7) Other type child safety seat (specify)		/): /):	5.	Note: Op	ety Seat Tethe tions Below A child safety se	re Used for Va	riables 3-5.
	(8) Unknown child safety (9) Unknown if child safety	seat type y seat used			Not Desig	ned with Harr	ness/Shield/Tet ess/shield/teth	ther er
2.	Child Safety Seat Orientati (00) No child safety seat			(02) After market harness/shield/tether used(03) Child safety seat used, but no after market				
	Designed for Rear Facing for This Age/Weight (01) Rear facing	or	· · · · · · · · · · · · · · · · · · ·		harr (09) Unk	ness/shield/tet	her added ss/shield/tethe	
	(02) Forward facing (08) Other orientation (spe	ecify):			(11) Hari	With Harness ness/shield/tet ness/shield/tet	/Shield/Tether ther not used	
	(09) Unknown orientation		-				ss/shield/tethe	r used
	Designed for Forward Facin Age/Weight (11) Rear facing	ng for This			(21) Harr	If Designed V ness/shield/tet ness/shield/tet		hield/Tether
	(12) Forward facing(18) Other orientation (specific	ecify):			(29) Unk	nown if harne	ss/shield/tethe	r used
	(19) Unknown orientation		-				safety seat use	ed .
	Unknown Design or Orienta Age/Weight, or Unknown / (21) Rear facing (22) Forward facing	Age/Weight	5	6.	Child Safe (Specify r	ety Seat Make make/model ar	/Model nd occupant nu	ımber)
	(28) Other orientation (spe	ocify):						
	(29) Unknown orientation							
	(99) Unknown if child safe	ty seat used						

HEAD RESTRAINTS/SEAT EVALUATION

NOTES: Encode the applicable data for each seat position in the vehicle. The attribute for these variables may be found at the bottom of the page. Head restraint type/damage and seat type/performance should be assessed during the vehicle inspection then coded on the Occupant Assessment Form.

		Left	Center	Right
F	Head Restraint Type/Damage	3	0	3
I R	Seat Type		0	0
S	Seat Performance		0	
	Seat Orientation			Androne (SP) (Lill Christ)
S	Head Restraint Type/Damage			
S E C	Seat Type	07	07	07
O N	Seat Performance	1	i /	
Ď	Seat Orientation			
Т	Head Restraint Type/Damage			
Ĥ	Seat Type			
Ŕ	Seat Performance			
D	Seat Orientation			
0	Head Restraint Type/Damage			
Ť	Seat Type			
Ε	Seat Performance			
R	Seat Orientation			

Head Restraint Type/Damage by Occupant at This **Occupant Position**

- No head restraints
- (1)
- Integral no damage Integral damaged during accident (2)
- (3) Adjustable - no damage
- Adjustable damaged during accident (4)
- (5)
- Add-on no damage Add-on damaged during accident (6)
- (8) Other Specify):
- (9) Unknown

Seat Type (this Occupant Position)

- Occupant not seated or no seat
- (01)**Bucket**
- Bucket with folding back (02)
- (03)Bench
- (04)Bench with separate back cushions
- (05) Bench with folding back(s)
- Split bench with separate back cushions (06)
- (07)Split bench with folding back(s)
- (80) Pedestal (i.e., column supported)
- (09) Other seat type (specify):
- Box mounted seat (i.e., van type) (10)
- (99) Unknown

Seat Performance (this Occupant Position)

- (0) Occupant not seated or no seat
- (1) No seat performance failure(s)
- (2) Seat adjusters failed
- (3) Seat back folding locks or "seat back" failed specify:
- (4) Seat tracks/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

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)
- Side facing seat (outward) (4)
- (8) Other (specify):
- (9) Unknown

DESCRIBE ANY INDICATION OF ABNORMAL OCCUPANT POSTURE (I.E., UNUSUAL OCCUPANT CONTACT PATTERN)

	elak eriyak kirkeles EJ	ECTION/	<u>ENTRAPI</u>	JENT DA	TA		ng man K ap	A Park
Comin th	nplete the following if the researche ne vehicle. Code the appropriate d	er has any inc	dication that	t an occupan	nt was either		m or entrap	ped
	CTION No [] Yes [] cribe indications of ejection and bo	ody parts in	volved in pa	artial ejection	n(s):			•
			-	·	· .	+ 1 ₋	·	_
<u> </u>			30 Sec. 1					
				-				
							· · · · · · · · · · · · · · · · · · ·	
				w				
	Occupant Number							
	Ejection							
	(Note on Vehicle Interior Sketch) Ejection Area							
	Ejection Medium							
	Medium Status					·		
Ejection (1) Complete ejection (1) Partial ejection (3) Ejection, Unknown degree (9) Unknown Ejection Area (1) Windshield (2) Left front (3) Right front (4) Left rear (7) Roof (8) Other area (e.g., back of pickup, etc.) (specify): (9) Unknown (9) Unknown (9) Unknown Ejection Medium (1) Door/hatch/tailgate (2) Nonfixed roof structure (3) Fixed glazing (4) Nonfixed glazing (specify): (5) Integral structure (8) Other medium (specify): (9) Unknown (1) Open (2) Closed (3) Integral structure (4) Nonfixed glazing (specify): (9) Unknown								
(5) Right rear (6) Rear ENTRAPMENT No [√] Yes [] Describe entrapment mechanism:								
Com	ponent(s):							
(Not	e in vehicle interior diagram)							

APPENDIX D

NASS Occupant Forms

U.S. Department of Transportation National Highway Traffic Safety

OCCUPANT ASSESSMENT FORM

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

NATIONAL ACCIDENT SAMPLING SYSTEM CRASHWORTHINESS DATA SYSTEM

DIMIN (1870)	CKASHWOKI HINESS DATA SYSTEM
1. Primary Sampling Unit Number 05	OCCUPANT'S SEATING
2. Case Number - Stratum 1 3 5 13	10. Occupant's Seat Position Front Seat
3. Vehicle Number	(11) Left side
4. Occupant Number	(12) Middle (13) Right side
4 OCCUPANT'S CHARACTERISTICS	(14) Other (specify):(15) On or in the lap of another occupant
5. Occupant's Age Code actual age at time of accident. (00) Less than one year old (specify by month): (97) 97 years and older (99) Unknown	Second Seat (21) Left side (22) Middle (23) Right side (24) Other (specify): (25) On or in the lap of another occupant
6. Occupant's Sex (1) Male (2) Female (9) Unknown	Third Seat (31) Left side (32) Middle (33) Right side (34) Other (specify): (35) On or in the lap of another occupant
7. Occupant's Height Code actual height to the nearest centimeter. (999) Unknown	Fourth Seat (41) Left side (42) Middle (43) Right side (44) Other (specify): (45) On or in the lap of another occupant
6 2 inches X 2.54 = centimeters	(97) In or on unenclosed area (98) Other seat (specify): (99) Unknown
8. Occupant's Weight Code actual weight to the nearest kilogram. (999)Unknown	11. Occupant's Posture (0) Normal posture
9. Occupant's Role (1) Driver (2) Passenger (9) Unknown	Abnormal posture (1) Kneeling or standing on seat (2) Lying on or across seat (3) Kneeling, standing or sitting in front of seat (4) Sitting sideways or turned to talk with another occupant or to look out a rear window (5) Sitting on a console (6) Lying back in a reclined seat position (7) Bracing with feet or hands on a surface in front of seat (8) Other abnormal posture (specify): (9) Unknown

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* ? _*	Programme State	TION/E	NTRAPMENT
12.	Ejection (0) No ejection (1) Complete ejection (2) Partial ejection (3) Ejection, unknown degree (9) Unknown	0	15. Medium Status (Immediately Prior To Impact) 0 (0) No ejection (1) Open (2) Closed (3) Integral structure (9) Unknown
13.	Ejection Area (0) No ejection (1) Windshield (2) Left front (3) Right front (4) Left rear (5) Right rear (6) Rear (7) Roof (8) Other area (e.g., back of pickup, etc.) (specify): (9) Unknown	0	16. Entrapment (NOTE: Entrapped means that part of the person was in the vehicle and mechanically restrained; jammed doors and immobilizing injuries by themselves are not sufficient to constitute entrapment.) (0) Not entrapped (1) Entrapped (9) Unknown
		•	
14.	Ejection Medium	0	
	(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		
	(6)		
<u> </u>		,	
ł			

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

HEAD RESTRAINT AN	ID SEAT EVALUATION
25. Head Restraint Type/Damage by Occupant at This Occupant Position (0) No head restraints (1) Integral—no damage (2) Integral—damaged during accident (3) Adjustable—no damage (4) Adjustable—damaged during accident (5) Add-on—no damage (6) Add-on—damaged during accident (8) Other (specify): (9) Unknown 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 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) (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 (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 SA	FETY SEAT
28. Child Safety Seat Make/Model (000) No child safety seat Applicable codes are found in your NASS CDS Data Collection, Coding and Editing	31. Child Safety Seat Harness Usage 32. Child Safety Seat Shield Usage
(950) Built-in child safety seat (997) Other make/model (specify): (998) Unknown make/model (999) Unknown if child safety seat used	33. Child Safety Seat Tether Usage Note: Options below applicable to Variables OA31-OA33. (00) No child safety seat
29. Type of Child Safety Seat (0) No child safety seat (1) Infant seat (2) Toddler seat (3) Convertible seat (4) Booster seat (7) Other type child safety seat (specify): (8) Unknown child safety seat type (9) Unknown if child safety seat used 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 (12) Forward facing (18) Other orientation (specify): (19) Unknown orientation Unknown Design or Orientation For This Age/Weight (21) Rear facing (22) Forward facing (23) Other orientation (specify): (29) Unknown orientation (99) Unknown orientation	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 used (22) Harness/shield/tether used (29) Unknown if harness/shield/tether used (99) Unknown if child safety seat used

104 6	45 Ave Manada p	
SALT!	INJURY CONSEQUENCES	38. Working Days Lost 62
34.	Injury Severity (Police Rating)	Code the number of days
"		(up through 60) that the occupant
	(0) O - No injury	lost from work due to the accident
	(1) C - Possible injury	(00) No working days lost
	(2) B - Nonincapacitating injury	(61) 61 days or more
	(3) A - Incapacitating injury	(62) Fatally injured
	(4) K - Killed	(97) Not working prior to accident (99) Unknown
	(5) U - Injury, severity unknown	(99) Onknown
	(6) Died prior to accident	
	(9) Unknown	STOP - GO TO VARIABLE 44 ON PAGE 7
	•	**********
35.	Treatment - Mortality	VARIABLES 39 THROUGH 43 ARE
	(0) No treatment	COMPLETED BY THE ZONE CENTER
	(1) Fatal	
	(2) Fatal - ruled disease (specify):	39. Time to Death
		Code number of hours from time of
l		accident to time of death up through 24
ł	Nonfatal	hours. If time of death is greater than 24
	(3) Hospitalization	hours, code number of days. (Note: 1 day =
	(4) Transported and released(5) Treatment at scene - nontransported	31, 2 days = 32, n days = $30 + n up$
	(6) Treatment later	through 30 days = 60)
1	(8) Treatment - other (specify):	(00) Not fatal
1		(96) Fatal - ruled disease (99) Unknown
	(9) Unknown	(99) Unknown
26	Time Of Madical Parity (for 1 to 1 = 1)	40. 1st Medically Reported Cause of Death
30.	Type Of Medical Facility (for Initial Treatment)(0) Not treated at a medical facility	
	(1) Trauma center	41. 2nd Medically Reported Cause of Death O2
	(2) Hospital	
	(3) Medical clinic	42. 3rd Medically Reported Cause of Death O
1	(4) Physician's office	Code the Occupant Injury from line
	(5) Treatment later at medical facility	number(s) for the medically reported
1	(8) Other (specify):	injury(s) which reportedly contributed to this occupant's death
1		(00) Not fatal or no additional causes
	(9) Unknown	(97) Other result (includes fatal ruled
l		disease) (specify):
37	Hospital Stay	
	(00) Not Hospitalized	(99) Unknown
	Code the number of days (up through 60)	
	that the occupant stayed in hospital.	42 Number of Beautiful Little Co.
	(61) 61 days or more	43. Number of Recorded Injuries for This Occupant
	(99) Unknown	Code the actual number of
		injuries recorded for this occupant.
		(00) No recorded injuries
		(97) Injured, details unknown
		(99) Unknown if injured
l		

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 Automatic (Passive) Belt System Use	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 incl (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	(uded)
	(0) Not equipped/not available/destroyed or rendered inoperative (1) Automatic belt in use (2) Automatic belt not in use (manually disconnected, motorized track inoperative) (specify): (3) Automatic belt use unknown (9) Unknown	49. Seat Orientation (this Occupant Position) (0) Occupant not seated or no seat (1) Forward facing seat (2) Rear facing seat (3) Side facing seat (inward) (4) Side facing seat (outward) (8) Other (specify):	+
46.	Automatic (Passive) Belt System Type (0) Not equipped/not available (1) Non-motorized system (2) Motorized system (9) Unknown	STOP - VARIABLES 50 THROUGH 52 A COMPLETED BY THE ZONE CENTER TRAUMA DATA	RE
47.	Proper Use of Automatic (Passive Belt System (0) Not equipped/not available/not used (1) Automatic belt used properly (2) Automatic belt used properly with child safety seat Automatic Belt Used Improperly (3) Automatic shoulder belt worn under arm (4) Automatic shoulder belt worn behind back (5) Automatic belt worn around more than one person (6) Lap portion of automatic belt worn on abdomen (7) Automatic lap and shoulder belt or automatic shoulder belt used improperly with child safety seat (specify): (8) Other improper use of automatic belt system (specify): (9) Unknown		2
	ARE ALL APPLICABLE MEDICAL RECOFWITH INITIAL SUBMISSION?	RDS INCLUDED NO [-] YES []	
	UPDATE CANDIDATE?	NO [] YES [-]	

1. Primary Sampling Unit Number

2. Case Number - Stratum

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

NATIONAL ACCIDENT SAMPLING SYSTEM CRASHWORTHINESS DATA SYSTEM

OCCUPANT INJURY FORM

Administration

3. Vehicle Number

4. Occupant Number

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								Injury		Occupant
of Injury Data	Body Region	Type of Anatomic Structure	Specific Anatomic Structure	Level of Injury	A.I.S. Severity	Aspect	Injury Source	Source Confidence Level	Direct/ Indirect Injury	Area Intrusion Number
s. <u>1</u>	6. <u>4</u>	7. <u>S</u> 8	. <u>0a</u>	9. <u>66</u>	10. <u>5</u>	113	12. <u>45</u>	13 1	4. <u>l</u>	15. <u>OO</u>
16. <u>(</u>	17. <u>4</u>	18. <u>4</u> 19	. <u>10</u> :	20. <u> 2</u>	21. 5	22. <u>4</u>	23. <u>45</u>	24. 1 2	5. <u> </u>	26. <u>00</u>
27. <u> </u>	28. <u> </u>	29. <u>4</u> 30	. 16 ::	31. <u>02</u>	32. <u>2</u>	33. <u>Ч</u>	34. <u>45</u>	35. 1	ь. <u>І</u>	37. <u>00</u>
38. 1	39. <u>4</u>	40. <u>4</u> 41	. <u>18</u> .	42. <u>04</u>	43. <u>à</u>	44. <u>D</u>	45. <u>45</u>	46. <u> </u>	7. 🔟	48. <u>00</u>
49. 1	50. <u>5</u>	61. <u>4</u> 62	. <u>18</u> :	53. <u>22</u>	54. <u>2</u>	55. <u> </u>	56. <u>45</u>	57. <u> </u>	8	59. <u>O O</u>
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71. 👤	72. <u>Ц</u>	73. <u>9</u> 74	. <u>04</u>	75. <u>02</u>	76. <u> </u>	77. <u>0</u>	78. <u>41</u>	79. <u>1</u> 8	o. <u>1</u>	81. <u>00</u>
82. 1	83. <u>5</u>	84. <u>9</u> 85	. <u>04</u> .	86. <u>02</u>	87. <u>l</u>	88. <u>7</u>	89. <u>4 1</u>	90. <u>l</u> 9	1. 1	92. <u>00</u>
93. <u>]</u>	94. <u>Y</u>	96. <u>A</u> 96	. <u>04</u> .	97. <u>D</u>	98. <u>1</u>	99. <u>l</u>	100. <u>45</u>	101 10	2 1	03. <u>O</u> O
104. 📙 1	05. <u>Z</u> 1	06. <u>9</u> 107	. OZ 10	08. <u>O 2</u>	109	110. <u>2</u>	111. <u>45</u>	112. <u> </u>	3 1	14. <u>00</u>
	5. <u> </u> 16. <u> </u> 27. <u> </u> 38. <u> </u> 49. <u> </u> 71. <u> </u> 82. <u> </u> 93. <u> </u>	5. 1 6. 4 16. 1 17. 4 27. 1 28. 4 38. 1 39. 4 49. 1 50. 5 60. 1 61. 4 71. 1 72. 4 82. 1 83. 5 93. 1 94. 4	Data Region Structure 5.	Data Region Structure Structure 5.	Data Region Structure Structure Injury 5.	Data Region Structure Structure Injury Severity 5.	Data Region Structure Structure Injury Severity Aapect 5.	Data Region Structure Structure Injury Severity Aspect Source 5.	Date Region Structure Injury Severity Aepect Source Level 5	Date Region Structure Injury Severity Aspect Source Level Injury 5. ☐ 6. ☐ 7. ☐ 8. ☐ 9. ☐ 10. ☐ 11. ☐ 12. ☐ 13. ☐ 14. ☐ 16. ☐ 17. ☐ 18. ☐ 19. ☐ 20. ☐ 21. ☐ 22. ☐ 23. ☐ 24. ☐ 26. ☐ 1. 27. ☐ 28. ☐ 29. ☐ 30. ☐ 31. ☐ 32. ☐ 33. ☐ 34. ☐ 35. ☐ 36. ☐ 36. ☐ 38. ☐ 39. ☐ 40. ☐ 41. ☐ 42. ☐ 43. ☐ 44. ☐ 45. ☐ 46. ☐ 47. ☐ 49. ☐ 50. ☐ 51. ☐ 52. ☐ 63. ☐ 53. ☐ 54. ☐ 55. ☐ 56. ☐ 57. ☐ 58. ☐ 68. ☐ 60. ☐ 51. ☐ 62. ☐ 63. ☐ 64. ☐ 65. ☐ 66. ☐ 67. ☐ 58. ☐ 68. ☐ 68. ☐ 68. ☐ 68. ☐ 77. ☐ 78. ☐ 79. ☐ 80. ☐ 91. ☐ 91. ☐ 91. ☐ 91. ☐ 91. ☐ 91. ☐ 91. ☐

HS Form 433B (1/93)

This report is authorized by P.L. 89-563, Title 1, Section 106, 108, and 112. While you are not required to respond, your cooperation is needed to make the results of this data collection effort comprehensive, accurate, and timely.

	OCCUPANT INJURY DAT										
	Source of Injury Data	Body Region	Type of Anatomic Structure	O.I.C/ Specific Anatomic Structure	Level of Injury	A.I.S. Severity	Aspect	injury Source	Injury Source Confidence Level	Direct/ Indirect Injury	Occupant Area Intrusion Number
1.1th	1	<u>8</u>	<u>9</u>	<u>04</u>	<u>02</u>	7	L.	13	<u>L</u>	1	۵ <u>۵</u>
12th	1	2	1	<u>03</u>	<u>02</u>	1	Z	13	1	1	<u>00</u>
18th	1	2	9	DT	<u>02</u>	7	T	45	1	1	<u>00</u>
14th	1	2	9	24	<u>03</u>	7	ᆚ	07	_!	1	<u>00</u>
15th	-										
16th						_	_		_	_	——
17th			_				_		-		
18th							_				
19th									_		
20th	—		_							—	
21st 22nd	*****						_				
23rd											
24th	_										
25 th	_					_	_				

AGE 62 SEX Female WI. 81 kg HI. 158 cm

Abrasion of the left cheek (AIS-1), air bag

Contused right breast (AIS-1), Descending band-like contusion air bag from the left neck across the chest to the right (AIS-1), 1 cm perforating laceration near shoulder belt the tin of the right ventricle (AIS-5) result of rib fracture Extensive contusion anterior from sir hag right upper arm (AIS-1). air bag Ruptured pericardial sac (AIS-2), Multiple fractures of the left result of rib fracture from ribs 1-9, anterior, lateral, and air bag posterior locations, right 1-9 rib fractures, anterior and Extensive soft tissue. antero-laterally (AIS-5). contusions within the air bag pleural sac (AIS-2), air bag Extensive soft tissue contusions in relation to 7 x 3 cm superficial the rib fractures (AIS-1), lacerations of the air bag lateral right lobe of the liver (AIS-2), Band-like contusion result of rib fracture across the abdomen from air bag (AIS-1), lap belt Contusion dorsal aspect of the left hand (AIS-1), turn signal lever 4×3 cm contusion of. Abrasion left thigh the anterior right above the knee (AIS-1), thigh (AIS-1), bolster bolster

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
- Interviewee
- Other source (specify):
- (9) Police

INJURY SOURCE

- (01) Windshield
- (O2) 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
- Passenger side air bag compartment cover
- Windshield reinforced by exterior object (18)(specify):
- (19) Other front object (specify):

- (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
- Other restraint system component (specify):_
- Head restraint system
- Air bag (use codes "16" and "17" for injuries (45)sustained from air bag compartment covers)
- 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 ton

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

(60) Backlight (rear window)

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

EXTERIOR of OCCUPANT'S VEHICLE

(65) Hood

- (66) Outside hardware (e.g., outside mirror, antenna)
- Other exterior surface or tires (specify):_
- (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 omament
- (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
- Other exterior of other motor vehicle (82) (specify):
- (83) Unknown exterior of other motor vehicle

OTHER VEHICLE OR OBJECT IN THE **ENVIRONMENT**

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

NONCONTACT INJURY

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

INJURY SOURCE CONFIDENCE LEVEL

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

DIRECT/INDIRECT INJURY

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

OCCUPANT INJURY CLASSIFICATION

Body Region

- Head
- Face Neck
- (4) (5) Thorax
- Abdomen (6) Spine
- (7) **Upper Extremity**
- Lower Extremity Unspecified
- Type of Anatomic Structure
- Whole Area
- (2) Vessels (3)Nerves
- (4) Organs (includes muscles/
- ligaments) Skeletal (includes joints) **(5)** Head - LOC
- (6)

- Specific Anatomic Structure
- Whole Area (02) Skin Abrasion (04) Skin Contusion
- Skin Laceration Skin Avulsion Amputation (08)
- (10) (20) Burn
- (30)Crush
- (40) Degloving
- Injury NFS Trauma, other than mechanical
- Head LOC
- (02) Length of LOC
- (04, 06, 08) Level of Consciousness (10) Concussion

- Cervical (04) Thoracic
- (06) Lumbar

Vessels, Nerves, Organs. Bones, Joints are assigned consecutive two digit numbers beginning with 02

Level of Injury

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

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

Abbreviated Injury Scale

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

Aspect

- Right
- Left (3) Bilateral
- Central (4)
- Anterior **Posterior** (6)
- Superior (7)
- (8) Inferior
- Unknown Whole region