
Accident Data Analysis and Investigation Tools

NASS Case Summaries (1999)

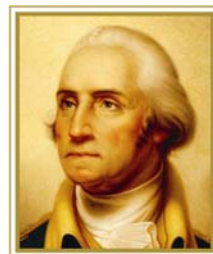
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Prepared for:

Motor Vehicle Fire Research Institute

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Contents

1	Case 1999-11-135	3
2	Case 1999-11-141	10
3	Case 1999-11-154	13
4	Case 1999-11-163	18
5	Case 1999-11-177	21
6	Case 1999-11-501	24
7	Case 1999-12-131	27
8	Case 1999-12-136	34
9	Case 1999-12-192	39
10	Case 1999-12-32	46
11	Case 1999-12-33	49
12	Case 1999-12-55	56
13	Case 1999-12-65	59
14	Case 1999-12-83	62
15	Case 1999-12-96	71
16	Case 1999-13-136	86
17	Case 1999-13-164	91
18	Case 1999-13-38	94
19	Case 1999-13-55	101
20	Case 1999-13-87	106
21	Case 1999-2-116	111
22	Case 1999-3-109	118
23	Case 1999-3-44	123
24	Case 1999-4-501	132
25	Case 1999-4-805	141
26	Case 1999-41-501	148
27	Case 1999-41-64	157
28	Case 1999-41-80	164

29 Case 1999-41-9	167
30 Case 1999-43-102	174
31 Case 1999-43-114	181
32 Case 1999-43-153	186
33 Case 1999-43-189	191
34 Case 1999-43-197	196
35 Case 1999-43-199	203
36 Case 1999-43-28	210
37 Case 1999-43-35	217
38 Case 1999-43-47	222
39 Case 1999-43-501	225
40 Case 1999-45-3	228
41 Case 1999-45-36	233
42 Case 1999-45-61	236
43 Case 1999-48-110	239
44 Case 1999-48-112	244
45 Case 1999-48-121	251
46 Case 1999-48-148	256
47 Case 1999-48-151	264
48 Case 1999-48-3	271
49 Case 1999-48-8	278
50 Case 1999-49-103	283
51 Case 1999-49-134	290
52 Case 1999-49-15	299
53 Case 1999-49-178	310
54 Case 1999-49-226	323
55 Case 1999-49-61	326
56 Case 1999-5-501	331
57 Case 1999-5-52	334

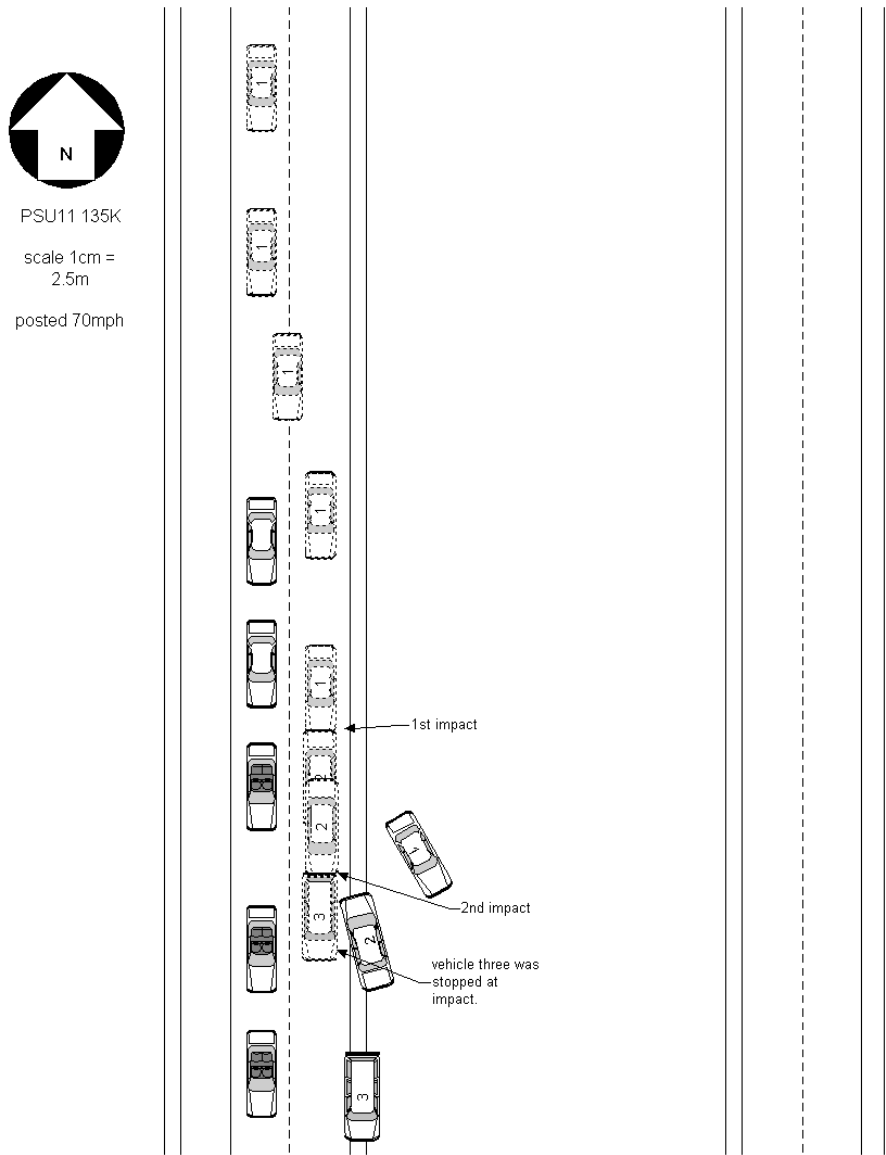
58 Case 1999-73-124	339
59 Case 1999-73-135	344
60 Case 1999-73-59	351
61 Case 1999-73-79	363
62 Case 1999-74-148	376
63 Case 1999-75-122	381
64 Case 1999-75-80	384
65 Case 1999-76-101	393
66 Case 1999-76-148	398
67 Case 1999-76-25	409
68 Case 1999-76-32	463
69 Case 1999-76-35	472
70 Case 1999-76-41	475
71 Case 1999-78-101	482
72 Case 1999-78-14	491
73 Case 1999-78-43	496
74 Case 1999-78-44	499
75 Case 1999-78-6	504
76 Case 1999-79-35	507
77 Case 1999-79-501	510
78 Case 1999-8-143	515
79 Case 1999-8-191	522
80 Case 1999-8-501	525
81 Case 1999-8-70	530
82 Case 1999-8-82	539
83 Case 1999-8-84	542
84 Case 1999-81-126	551
85 Case 1999-81-135	554
86 Case 1999-82-14	559

87 Case 1999-9-111	562
88 Case 1999-9-146	565
89 Case 1999-9-31	570
90 Case 1999-9-63	575
91 Case 1999-9-68	579
92 Case 1999-9-7	586

1 Case 1999-11-135

Summary:

Vehicle one, 1990 Buick LeSabre, was travelling south in lane two of a two lane, divided without positive barrier expressway. Vehicle two, 1991 Cadillac DeVille, was also travelling south in lane two, though, directly in front of vehicle one. Vehicle three, 1999 Ford Mountaineer, was also in lane two, of the south bound roadway, in front of vehicle two. Vehicle one, front, contacted the rear of vehicle two in lane two of the south bound lanes. Vehicle two, front, contacted the rear of vehicle three after the first impact. All three vehicles were towed due to damage. The driver of vehicle one was admitted to a local trauma center. Both driver and passenger of vehicle two were hospitalized. The passenger subsequently died.



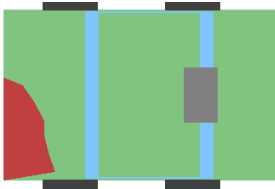
Vehicle	Body type	Make	Model	Year	Occ Age	Occupant's sex	Maximum known occupant ais
1	4-DR SEDAN/HDTOP	Buick	Lesabre/Wildcat/Centurion	1990	66	MALE	1=Minor
2	4-DR SEDAN/HDTOP	Cadillac	Deville/Fleetwood	1991	25	MALE	2=Moderate
2	4-DR SEDAN/HDTOP	Cadillac	Deville/Fleetwood	1992	28	MALE	5=Critical

Occupant: 1999-11-135-1-1



Fire Information

Fire Occurence	No fire
Fire Origin	No fire
Location of Fuel Leakage	No fuel leakage
Type of Fuel Tank	Metallic
Fuel Tank Location	Forward of rear axle, centered
Fuel Cap Location	Left side, behind rear axle
Fuel Tank Damage	No damage
Fuel Type	Gasoline



Pre-Crash Environment

Traffic Flow	DVDED/NO BARRIER
Number of Travel Lanes	TWO
Roadway Alignment	STRAIGHT
Roadway Profile	LEVEL
Roadway Surface Type	ASPHALT
Roadway Surface Condition	DRY
Light Conditions	DAYLIGHT
Atmospheric Conditions	No ADVERSE COND
Relation to Intersection	NONINTER/NONJUNC
Traffic Control Device	
Police Reported Alcohol Presence	No ALCOHOL
Alcohol Test (< 95 indicates BAC 0.xx)	0

Crash Severity

Nr. Quarter Turns	No rollover
Impact Speed	998
Total, Longitudal, and Lateral δV	72 -72 < 0.5 KMPH
Est. δV with sequence number	DELTA V CODED 1
CDC	12 F D E W 3
Damage (C1-C6)	75 67 61 59 46 28
Crush (L and D)	152 0
Object Contacted 1	VEHICLE NO. 2
Object Contacted 2	0

NASS Weighting Factor

Weighting factor	52.22696881
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Rollover Characteristics

Number of Events	2
Rollover Initiation Type	No rollover
Location of Rollover Initiation	No rollover
Rollover Initiation Object Contacted	No rollover
Location on Vehicle where Principal Tripping Force was Applied	No rollover
Direction of Initial Roll	No rollover

Vehicle Factors

Make-Model	Buick Lesabre/Wildcat/Centurion
Year	1990
Class	PASSENGER CAR
Body Type	4-DR SEDAN/HDTOP
Weight	148

Pre-Crash Driver Data

Accident Type	24
Pre-event Movement	GOING STRAIGHT
Critical Pre-crash Event	Same DIR-LOSPEED
Attempted Avoidance Manuever	No AVOIDANCE
Pre-impact Stability	TRACKING
Pre-impact Location	STAYED IN LANE

DRIVER Factors

Age	66	Height	170	Weight	70
Gender					MALE
Ejection					No EJECTION
Ejection Area					No EJECTION
Entrapment					Not ENTRAPPED

Restraint Factors

Restrain	None used/avail
AOPS	YES-RES DET
Airbag Deployment	Not EQUIP/AVAIL
Airbag Deployment - 1 st Seat	Not EQUIP/AVAIL
Airbag Deployment - Oth Seat	Not EQUIP W/ OTH

Injuries

Occupant	1999-11-135-1-1
MAIS	1=Minor
Seat Position	Front left side

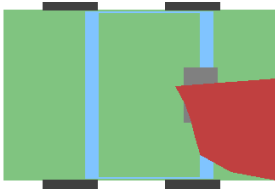
AIS Level	Injury Description	Contacts
1=Minor	Single rib fracture	Belt webb/buckle
1=Minor	Upper extremity skin contusion	Steering rim
1=Minor	Facial skin contusion	Steering rim
1=Minor	Facial skin contusion	Steering rim
1=Minor	Thoracic skin contusion	Belt webb/buckle
1=Minor	Leg skin contusion (hematoma)	Left apnel
1=Minor	Acute cervical spine strain without fracture or dislocation	Steering rim
1=Minor	Thoracic spine strain, acute without fracture or dislocation	Other noncontact
1=Minor	Skin abrasion (body region unknown)	Unknown SOURCE

Occupant: 1999-11-135-2-1



Fire Information

Fire Occurence	No fire
Fire Origin	No fire
Location of Fuel Leakage	Tank
Type of Fuel Tank	Metallic
Fuel Tank Location	Behind rear axle, centered
Fuel Cap Location	Left side, behind rear axle
Fuel Tank Damage	Deform+seam fail
Fuel Type	Gasoline



Crash Severity

Nr. Quarter Turns	No rollover
Impact Speed	998
Total, Longitudal, and Lateral δV	63 63 < 0.5 KMPH
Est. δV with sequence number	DELTA V CODED 1
CDC	6 B D E W 7
Damage (C1-C6)	66 111 118 124 133 147
Crush (L and D)	150 0
Object Contacted 1	VEHICLE NO. 1
Object Contacted 2	VEHICLE NO. 3

NASS Weighting Factor

Weighting factor	52.22696881
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Rollover Characteristics

Number of Events	2
Rollover Initiation Type	No rollover
Location of Rollover Initiation	No rollover
Rollover Initiation Object Contacted	No rollover
Location on Vehicle where Principal Tripping Force was Applied	No rollover
Direction of Initial Roll	No rollover

Pre-Crash Environment

Traffic Flow	DVDED/NO BARRIER
Number of Travel Lanes	TWO
Roadway Alignment	STRAIGHT
Roadway Profile	LEVEL
Roadway Surface Type	ASPHALT
Roadway Surface Condition	DRY
Light Conditions	DAYLIGHT
Atmospheric Conditions	No ADVERSE COND
Relation to Intersection	NONINTER/NONJUNC
Traffic Control Device	
Police Reported Alcohol Presence	No ALCOHOL
Alcohol Test (< 95 indicates BAC 0.xx)	0

Vehicle Factors

Make-Model	Cadillac Deville/Fleetwood
Year	1991
Class	PASSENGER CAR
Body Type	4-DR SEDAN/HDTOP
Weight	164

Pre-Crash Driver Data

Accident Type	25
Pre-event Movement	DECELER IN LANE
Critical Pre-crash Event	Same DIR-HISPEED
Attempted Avoidance Manuever	No AVOIDANCE
Pre-impact Stability	TRACKING
Pre-impact Location	STAYED IN LANE

DRIVER Factors

Age	25	Height	0	Weight	0
Gender					MALE
Ejection					No EJECTION
Ejection Area					No EJECTION
Entrapment					Not ENTRAPPED

Restraint Factors

Restrain	None used/avail
AOPS	YES-RES DET
Airbag Deployment	BAG DEPLOYED
Airbag Deployment - 1 st Seat	DR BAG DEPLOYED
Airbag Deployment - Oth Seat	Not EQUIP W/ OTH

Injuries

Occupant	1999-11-135-2-1
MAIS	2=Moderate
Seat Position	Front left side

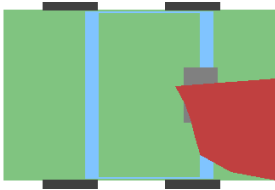
AIS Level	Injury Description	Contacts
1=Minor	Facial skin laceration, minor	Steering rim
1=Minor	Facial skin contusion	Steering rim
1=Minor	Upper extremity skin laceration, minor	Flying glass
1=Minor	Upper extremity skin contusion	Left B pillar
2=Moderate	Awake on admission, prior unconscious, length NFS	Steering rim

Occupant: 1999-11-135-2-2



Fire Information

Fire Occurence	No fire
Fire Origin	No fire
Location of Fuel Leakage	Tank
Type of Fuel Tank	Metallic
Fuel Tank Location	Behind rear axle, centered
Fuel Cap Location	Left side, behind rear axle
Fuel Tank Damage	Deform+seam fail
Fuel Type	Gasoline



Pre-Crash Environment

Traffic Flow	DVDED/NO BARRIER
Number of Travel Lanes	TWO
Roadway Alignment	STRAIGHT
Roadway Profile	LEVEL
Roadway Surface Type	ASPHALT
Roadway Surface Condition	DRY
Light Conditions	DAYLIGHT
Atmospheric Conditions	No ADVERSE COND
Relation to Intersection	NONINTER/NONJUNC
Traffic Control Device	
Police Reported Alcohol Presence	No ALCOHOL
Alcohol Test (< 95 indicates BAC 0.xx)	0

Crash Severity

Nr. Quarter Turns	No rollover
Impact Speed	998
Total, Longitudal, and Lateral δV	63 63 < 0.5 KMPH
Est. δV with sequence number	DELTA V CODED 1
CDC	6 B D E W 7
Damage (C1-C6)	66 111 118 124 133 147
Crush (L and D)	150 0
Object Contacted 1	VEHICLE NO. 1
Object Contacted 2	VEHICLE NO. 3

NASS Weighting Factor

Weighting factor	52.22696881
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Rollover Characteristics

Number of Events	2
Rollover Initiation Type	No rollover
Location of Rollover Initiation	No rollover
Rollover Initiation Object Contacted	No rollover
Location on Vehicle where Principal Tripping Force was Applied	No rollover
Direction of Initial Roll	No rollover

Vehicle Factors

Make-Model	Cadillac Deville/Fleetwood
Year	1991
Class	PASSENGER CAR
Body Type	4-DR SEDAN/HDTOP
Weight	164

Pre-Crash Driver Data

Accident Type	25
Pre-event Movement	DECELER IN LANE
Critical Pre-crash Event	Same DIR-HISPEED
Attempted Avoidance Manuever	No AVOIDANCE
Pre-impact Stability	TRACKING
Pre-impact Location	STAYED IN LANE

PASSENGER Factors

Age	28	Height	0	Weight	0
Gender					MALE
Ejection					No EJECTION
Ejection Area					No EJECTION
Entrapment					ENTRAPPED

Restraint Factors

Restrain	Lap and shoulder
AOPS	YES-RES DET
Airbag Deployment	Not EQUIP/AVAIL
Airbag Deployment - 1 st Seat	DR BAG DEPLOYED
Airbag Deployment - Oth Seat	Not EQUIP W/ OTH

Injuries

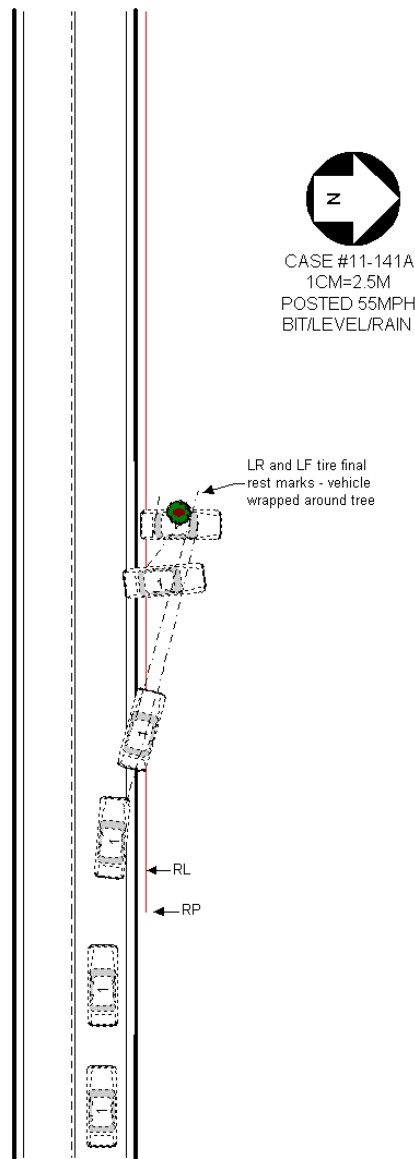
Occupant	1999-11-135-2-2
MAIS	5=Critical
Seat Position	Front right side

AIS Level	Injury Description	Contacts
3=Serious	Unconscious on admission (GCS<=8) NFS	Right B pillar
3=Serious	Skull fracture, vault, comminuted (compound, depressed)	Right B pillar
4=Severe	Cerebral subdural hematoma, small (<50ccs)	Right B pillar
3=Serious	Cerebral subarachnoid hemorrhage	Right B pillar
3=Serious	Cerebral subarachnoid hemorrhage	Right B pillar
3=Serious	Cerebral contusion, single, small (<30ccs)	Right B pillar
5=Critical	Intracerebral hematoma, small, bilateral	Right B pillar
3=Serious	Cerebral edema, NFS	Right B pillar
5=Critical	Brain stem hemorrhage	Right B pillar
3=Serious	Lung contusion, unilateral	Seat, back

2 Case 1999-11-141

Summary:

Vehicle one, a 1999 Pontiac Grand Am, was traveling westbound in lane one of a two way rural roadway. At the time of the collision the level roadway was wet due to rain. Vehicle one departed the roadway to the right for unknown reasons and the left drivers door contacted a tree on the south road edge. Vehicle one was towed due to severe vehicle damage. The driver of vehicle one expired at the scene due to the collision. The passengers airbag went off during the collision but the drivers airbag did not.



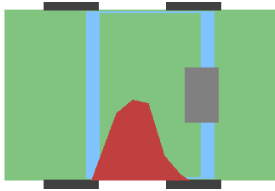
Vehicle	Body type	Make	Model	Year	Occ.#	Age	Occupant's sex	Maximum known occupant ais
1	4-DR SEDAN/HDTOP	Pontiac	Grand AM	1999	1	37	MALE	6=Maximum

Occupant: 1999-11-141-1-1



Fire Information

Fire Occurrence	No fire
Fire Origin	No fire
Location of Fuel Leakage	Tank
Type of Fuel Tank	Metallic
Fuel Tank Location	Forward of rear axle, right side
Fuel Cap Location	Right side, behind rear axle
Fuel Tank Damage	Deform+seam fail
Fuel Type	Gasoline



Pre-Crash Environment

Traffic Flow	Not DIVIDED
Number of Travel Lanes	TWO
Roadway Alignment	STRAIGHT
Roadway Profile	LEVEL
Roadway Surface Type	ASPHALT
Roadway Surface Condition	WET
Light Conditions	DARK
Atmospheric Conditions	RAIN
Relation to Intersection	NONINTER/NONJUNC
Traffic Control Device	
Police Reported Alcohol Presence	No ALCOHOL
Alcohol Test (< 95 indicates BAC 0.xx)	0

Vehicle Factors

Make-Model	Pontiac Grand AM
Year	1999
Class	PASSENGER CAR
Body Type	4-DR SEDAN/HDTOP
Weight	141

Crash Severity

Nr. Quarter Turns	No rollover
Impact Speed	998
Total, Longitudal, and Lateral δV	78 -14 76
Est. δV with sequence number	DELTA V CODED 1
CDC	89 L P A W 6
Damage (C1-C6)	34 98 118 113 36 8
Crush (L and D)	144 19
Object Contacted 1	LARGE TREE
Object Contacted 2	0

Pre-Crash Driver Data

Accident Type	2
Pre-event Movement	GOING STRAIGHT
Critical Pre-crash Event	OFF EDGE-RIGHT
Attempted Avoidance Manuever	No DRIVER
Pre-impact Stability	LATERAL SKID-CLK
Pre-impact Location	DEPARTED ROADWAY

NASS Weighting Factor

Weighting factor	50.577844246
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DRIVER Factors

Rollover Characteristics

Number of Events	1
Rollover Initiation Type	No rollover
Location of Rollover Initiation	No rollover
Rollover Initiation Object Contacted	No rollover
Location on Vehicle where Principal Tripping Force was Applied	No rollover
Direction of Initial Roll	No rollover

Age	37	Height	175	Weight	79
Gender			MALE		
Ejection			No EJECTION		
Ejection Area			No EJECTION		
Entrapment			JAMMED DOOR/FIRE		

Restraint Factors

Restrain	Lap and shoulder
AOPS	YES-RES DET
Airbag Deployment	NONDEPLOYED
Airbag Deployment - 1 st Seat	ONLY PAS BAG DEP
Airbag Deployment - Oth Seat	Not EQUIP W/ OTH

Injuries

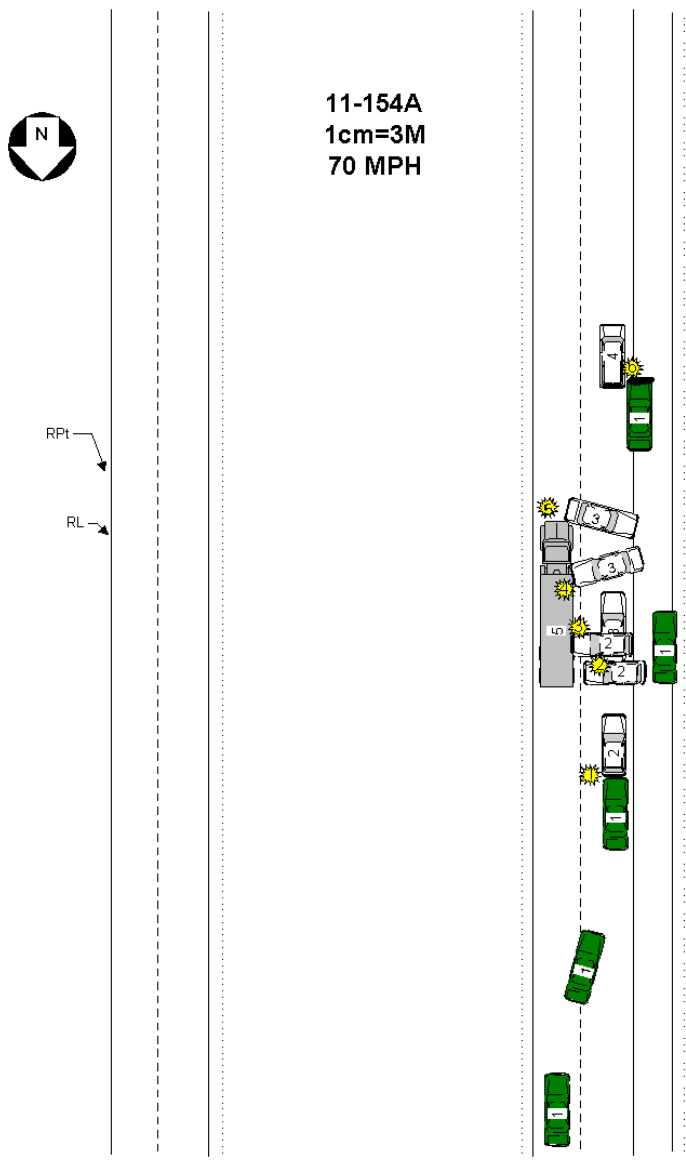
Occupant	1999-11-141-1-1
MAIS	6=Maximum
Seat Position	Front left side

AIS Level	Injury Description	Contacts
1=Minor	Facial skin abrasion	Flying glass
1=Minor	Upper extremity skin abrasion	Transmiss lever
2=Moderate	Clavicle fracture	Left B pillar
1=Minor	Upper extremity skin abrasion	Left B pillar
1=Minor	Leg skin abrasion	Belt webb/buckle
1=Minor	Leg skin contusion (hematoma)	Transmiss lever
1=Minor	Leg skin abrasion	Transmiss lever
1=Minor	Thoracic skin abrasion	Left B pillar
3=Serious	Humeral fracture, open/displaced/comminuted	Left B pillar
3=Serious	Femoral shaft fracture	Transmiss lever
3=Serious	Ulnar fracture, open/displaced/comminuted	Left hardware
2=Moderate	Radial fracture NFS (+/- styloid process, including Colles)	Left hardware
3=Serious	Lung contusion, uni-lateral	Left B pillar
3=Serious	>3 rib fractures one side & <3 other side, with stable chest	Left B pillar
3=Serious	Diaphragm laceration or rupture	Left interior
2=Moderate	Splenic laceration NFS	Left B pillar
2=Moderate	Hepatic laceration, minor (<3cms deep, EBL<203=Serious	Urethral laceration with perforation
Left interior		
2=Moderate	Pelvic fracture NFS	Left interior
2=Moderate	Pelvic fracture NFS	Seat, back
3=Serious	Cerebral subarachnoid hemorrhage	Head restraint
6=Maximum	Cord laceration, complete, C3 or above, with fx&dislocation	Other noncontact
1=Minor	Neck skin abrasion	Left interior

3 Case 1999-11-154

Summary:

V#1, a 1996 Ford Thunderbird, was heading southbound on the rural, two lane interstate with a posted speed limit of 70 MPH. The asphalt was dry at the time, and it was daylight. As the car approached stopped traffic the car rear-ended V#2, a 1996 Chevrolet Cavalier 4 door sedan (impact #1). This caused V#2 to rotate and slide sideways (right side) into the rear of V#3, a 1999 Mercury Sable 4 door sedan (Impact #2). V#2 then struck the right side of V#5, a 1986 cab over engine International Harvester tractor trailer (impact #3). V#3 then was struck twice by V#5 (impacts #4 and #5). V#1 continued in a southerly direction during this time period and struck V#4, a 1994 Ford Aerostar minivan on the right (Impact #6) front fender (based upon a damage description provided by the driver of V#4). The driver of V#2 sustained severe head injuries and died at the hospital. She had been protected by deploying airbags. The driver of V#1 and V#3 were transported to a local trauma center. V#3, V#4 and V#5 were driven from the scene with minor damage.



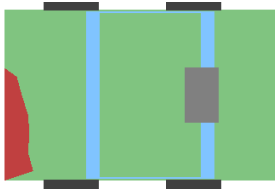
Vehicle #	Body type	Make	Model	Year	Occ.#	Age	Occupant's sex	Maximum known occupant ais
1	2DR SEDAN/HT/CPE	Ford	Thunderbird	1996	1	36	MALE	1=Minor
2	4-DR SEDAN/HDTOP	Chevrolet	Cavalier	1996	1	28	FEMALE-NOT PREG	5=Critical

Occupant: 1999-11-154-1-1



Fire Information

Fire Occurrence	No fire
Fire Origin	No fire
Location of Fuel Leakage	No fuel leakage
Type of Fuel Tank	Non-metallic
Fuel Tank Location	Forward of rear axle, centered
Fuel Cap Location	Right side, behind rear axle
Fuel Tank Damage	No damage
Fuel Type	Gasoline



Pre-Crash Environment

Traffic Flow	Not DIVIDED
Number of Travel Lanes	TWO
Roadway Alignment	STRAIGHT
Roadway Profile	DOWNHILL GRADE
Roadway Surface Type	ASPHALT
Roadway Surface Condition	DRY
Light Conditions	DAYLIGHT
Atmospheric Conditions	No ADVERSE COND
Relation to Intersection	NONINTER/NONJUNC
Traffic Control Device	
Police Reported Alcohol Presence	No ALCOHOL
Alcohol Test (< 95 indicates BAC 0.xx)	0

Vehicle Factors

Make-Model	Ford Thunderbird
Year	1996
Class	PASSENGER CAR
Body Type	2DR SEDAN/HT/CPE
Weight	160

Crash Severity

Nr. Quarter Turns	No rollover
Impact Speed	998
Total, Longitudal, and Lateral δV	55 -55 < 0.5 KMPH
Est. δV with sequence number	DELTA V CODED 1
CDC	12 F D E W 2
Damage (C1-C6)	42 34 37 34 25 18
Crush (L and D)	166 0
Object Contacted 1	VEHICLE NO. 2
Object Contacted 2	VEHICLE NO. 4

Pre-Crash Driver Data

Accident Type	20
Pre-event Movement	GOING STRAIGHT
Critical Pre-crash Event	STOPPED
Attempted Avoidance Manuever	BRAKE UNK LOCKUP
Pre-impact Stability	No DRIVER
Pre-impact Location	STAYED IN LANE

NASS Weighting Factor

Weighting factor	50.577844246
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DRIVER Factors

Rollover Characteristics

Number of Events	6
Rollover Initiation Type	No rollover
Location of Rollover Initiation	No rollover
Rollover Initiation Object Contacted	No rollover
Location on Vehicle where Principal Tripping Force was Applied	No rollover
Direction of Initial Roll	No rollover

Age	36	Height	173	Weight	88
Gender			MALE		
Ejection			No EJECTION		
Ejection Area			No EJECTION		
Entrapment			Not ENTRAPPED		

Restraint Factors

Restrain	Lap and shoulder
AOPS	YES-RES DET
Airbag Deployment	BAG DEPLOYED
Airbag Deployment - 1 st Seat	DR
PAS BAG DEPLY	
Airbag Deployment - Oth Seat	Not EQUIP W/ OTH

Injuries

Occupant	1999-11-154-1-1
MAIS	1=Minor
Seat Position	Front left side

AIS Level	Injury Description	Contacts
1=Minor	Facial skin laceration, minor	Bag-DR side+eyew
1=Minor	Facial skin abrasion	Bag-DR side+eyew
1=Minor	Thoracic skin abrasion	Air bag-DR side
1=Minor	Abdominal skin abrasion	Belt webb/buckle
1=Minor	Facial skin contusion	Bag-DR side+eyew
1=Minor	Thoracic skin abrasion	Belt webb/buckle
1=Minor	Upper extremity skin abrasion	Air bag-DR side

Occupant: 1999-11-154-2-1



Fire Information

Fire Occurrence	No fire
Fire Origin	No fire
Location of Fuel Leakage	Tank
Type of Fuel Tank	Metallic
Fuel Tank Location	Forward of rear axle, centered
Fuel Cap Location	Right side, behind rear axle
Fuel Tank Damage	Deform+seam fail
Fuel Type	Gasoline



Pre-Crash Environment

Traffic Flow	DVDED/NO BARRIER
Number of Travel Lanes	TWO
Roadway Alignment	STRAIGHT
Roadway Profile	0
Roadway Surface Type	ASPHALT
Roadway Surface Condition	DRY
Light Conditions	DAYLIGHT
Atmospheric Conditions	No ADVERSE COND
Relation to Intersection	NONINTER/NONJUNC
Traffic Control Device	
Police Reported Alcohol Presence	No ALCOHOL
Alcohol Test (< 95 indicates BAC 0.xx)	0

Crash Severity

Nr. Quarter Turns	No rollover
Impact Speed	998
Total, Longitudal, and Lateral δV	72 72 < 0.5 KMPH
Est. δV with sequence number	DELTA V CODED 1
CDC	6 B D E W 8
Damage (C1-C6)	88 108 124 139 129 121
Crush (L and D)	138 0
Object Contacted 1	VEHICLE NO. 1
Object Contacted 2	VEHICLE NO. 5

NASS Weighting Factor

Weighting factor	50.577844246
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Rollover Characteristics

Number of Events	6
Rollover Initiation Type	No rollover
Location of Rollover Initiation	No rollover
Rollover Initiation Object Contacted	No rollover
Location on Vehicle where Principal Tripping Force was Applied	No rollover
Direction of Initial Roll	No rollover

Vehicle Factors

Make-Model	Chevrolet Cavalier
Year	1996
Class	PASSENGER CAR
Body Type	4-DR SEDAN/HDTOP
Weight	121

Pre-Crash Driver Data

Accident Type	21
Pre-event Movement	STOPPED IN LANE
Critical Pre-crash Event	Same DIR-DECELER
Attempted Avoidance Manuever	No DRIVER
Pre-impact Stability	TRACKING
Pre-impact Location	STAYED IN LANE

DRIVER Factors

Age	28	Height	163	Weight	64
Gender					FEMALE-NOT PREG
Ejection					No EJECTION
Ejection Area					No EJECTION
Entrapment					Not ENTRAPPED

Restraint Factors

Restrain	None used/avail
AOPS	YES-RES DET
Airbag Deployment	BAG DEPLOYED
Airbag Deployment - 1 st Seat	DR
PAS BAG DEPLY	
Airbag Deployment - Oth Seat	Not EQUIP W/ OTH

Injuries

Occupant	1999-11-154-2-1
MAIS	5=Critical
Seat Position	Front left side

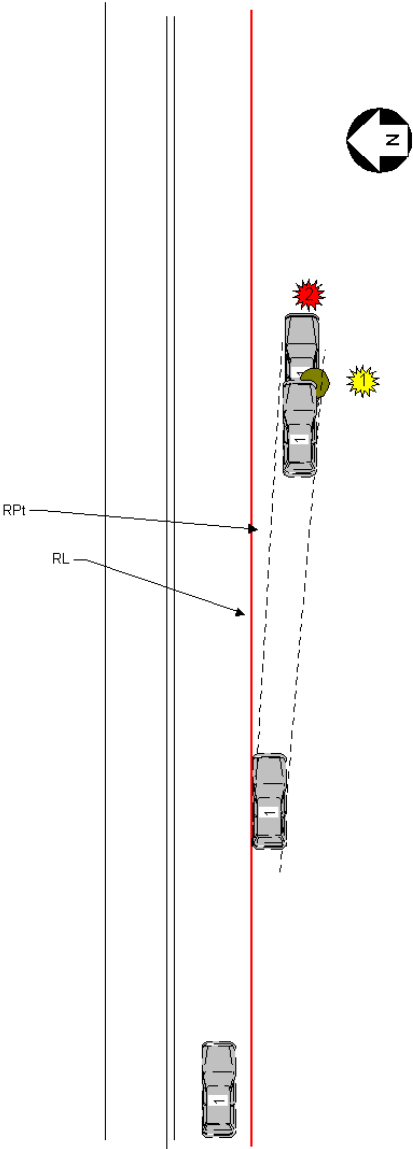
AIS Level	Injury Description	Contacts
1=Minor	Facial skin contusion	Right interior
1=Minor	Facial skin abrasion	Right interior
1=Minor	297402	Right interior
1=Minor	Upper extremity skin abrasion	Unknown SOURCE
1=Minor	Leg skin laceration NFS	Unknown SOURCE
1=Minor	Thoracic skin contusion	Unknown SOURCE
1=Minor	Abdominal skin contusion	Unknown SOURCE
1=Minor	Leg skin contusion (hematoma)	Unknown SOURCE
1=Minor	Leg skin abrasion	Unknown SOURCE
1=Minor	Upper extremity skin contusion	Unknown SOURCE
3=Serious	Thoracic cavity injury NFS, with hemo-/pneumothorax	Unknown SOURCE
2=Moderate	Cervical fracture without cord injury +/- dislocation NFS	Unknown SOURCE
3=Serious	Cerebral brain swelling, NFS	Right interior
3=Serious	Cerebral subarachnoid hemorrhage	Right interior
3=Serious	Cerebral subarachnoid hemorrhage	Right interior
4=Severe	Cerebral subdural hematoma, small (<50ccs)	Right interior
1=Minor	Scalp contusion	Right interior
5=Critical	Unconscious on admission, inappropriate movements	Right interior

4 Case 1999-11-163

Summary:

The 1996 Dodge Neon 4 door sedan was traveling eastbound on the rural, 2 lane roadway. At the time of the crash it was dark and unlighted; as it was the early morning hour. The level asphalt road had a posted speed limit of 50 MPH. The car departed the roadway to the right and struck a very large tree with the front end. There was no evidence at the scene to show any steering or braking maneuvers which proceeded the tree impact. The car sustained damage which resulted in the windshield header being directly contacted and pushed rearwards a considerable distance. The car then burst into flames which appear to have originated in the engine compartment. The driver remained in the car and was extensively burned. She was pronounced dead in the car. Due to the tremendous fire and intrusion damage it was not possible to determine airbag deployment or belt usage as these were burned completely.

11-163A
1CM=2M
50 MPH
dry asphalt
unlighted



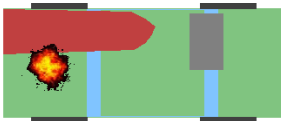
Vehicle	Body type	Make	Model	Year	Occ.#	Age	Occupant's sex	Maximum known occupant ais
1	4-DR SEDAN/HDTOP	Dodge	20	1996	1	20	FEMALE-NOT PREG	6=Maximum

Occupant: 1999-11-163-1-1



Fire Information

Fire Occurence	Major fire
Fire Origin	Engine compart
Location of Fuel Leakage	No fuel tank
Type of Fuel Tank	Metallic
Fuel Tank Location	Forward of rear axle, right side
Fuel Cap Location	Right side, behind rear axle
Fuel Tank Damage	No fuel tank
Fuel Type	Gasoline



Crash Severity

Nr. Quarter Turns	No rollover
Impact Speed	< 0.5KMPH
Total, Longitudal, and Lateral δV	< 0.5 KMPH < 0.5 KMPH < 0.5 KMPH
Est. δV with sequence number	SEVERE 1
CDC	12 F Z A W 7
Damage (C1-C6)	205 223 232 238 224 201
Crush (L and D)	71 15
Object Contacted 1	LARGE TREE
Object Contacted 2	0

NASS Weighting Factor

Weighting factor	50.577844246
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Rollover Characteristics

Number of Events	2
Rollover Initiation Type	No rollover
Location of Rollover Initiation	No rollover
Rollover Initiation Object Contacted	No rollover
Location on Vehicle where Principal Tripping Force was Applied	No rollover
Direction of Initial Roll	No rollover

Pre-Crash Environment

Traffic Flow	Not DIVIDED
Number of Travel Lanes	TWO
Roadway Alignment	STRAIGHT
Roadway Profile	LEVEL
Roadway Surface Type	ASPHALT
Roadway Surface Condition	DRY
Light Conditions	DARK
Atmospheric Conditions	No ADVERSE COND
Relation to Intersection	NONINTER/NONJUNC
Traffic Control Device	
Police Reported Alcohol Presence	Not REPORTED
Alcohol Test (< 95 indicates BAC 0.xx)	15

Vehicle Factors

Make-Model	Dodge 20
Year	1996
Class	PASSENGER CAR
Body Type	4-DR SEDAN/HDTOP
Weight	113

Pre-Crash Driver Data

Accident Type	1
Pre-event Movement	GOING STRAIGHT
Critical Pre-crash Event	OFF EDGE-RIGHT
Attempted Avoidance Maneuver	No AVOIDANCE
Pre-impact Stability	TRACKING
Pre-impact Location	DEPARTED ROADWAY

AIS Level

3=Serious

DRIVER Factors

Age	20	Height	173	Weight	68
Gender					FEMALE-NOT PREG
Ejection					No EJECTION
Ejection Area					No EJECTION
Entrapment					ENTRAPPED

Thoracic aortic laceration, minor (incomplete, EBL<202=Moderate

Restraint Factors

Restrain	None used/avail
AOPS	YES-RES DET
Airbag Deployment	Unk IF DEPLOYED
Airbag Deployment - 1 st Seat	DR
PAS UNK DEPLY	
Airbag Deployment - Oth Seat	Not EQUIP W/ OTH

Injuries

2=Moderate

Occupant	1999-11-163-1-1
MAIS	6=Maximum
Seat Position	Front left side

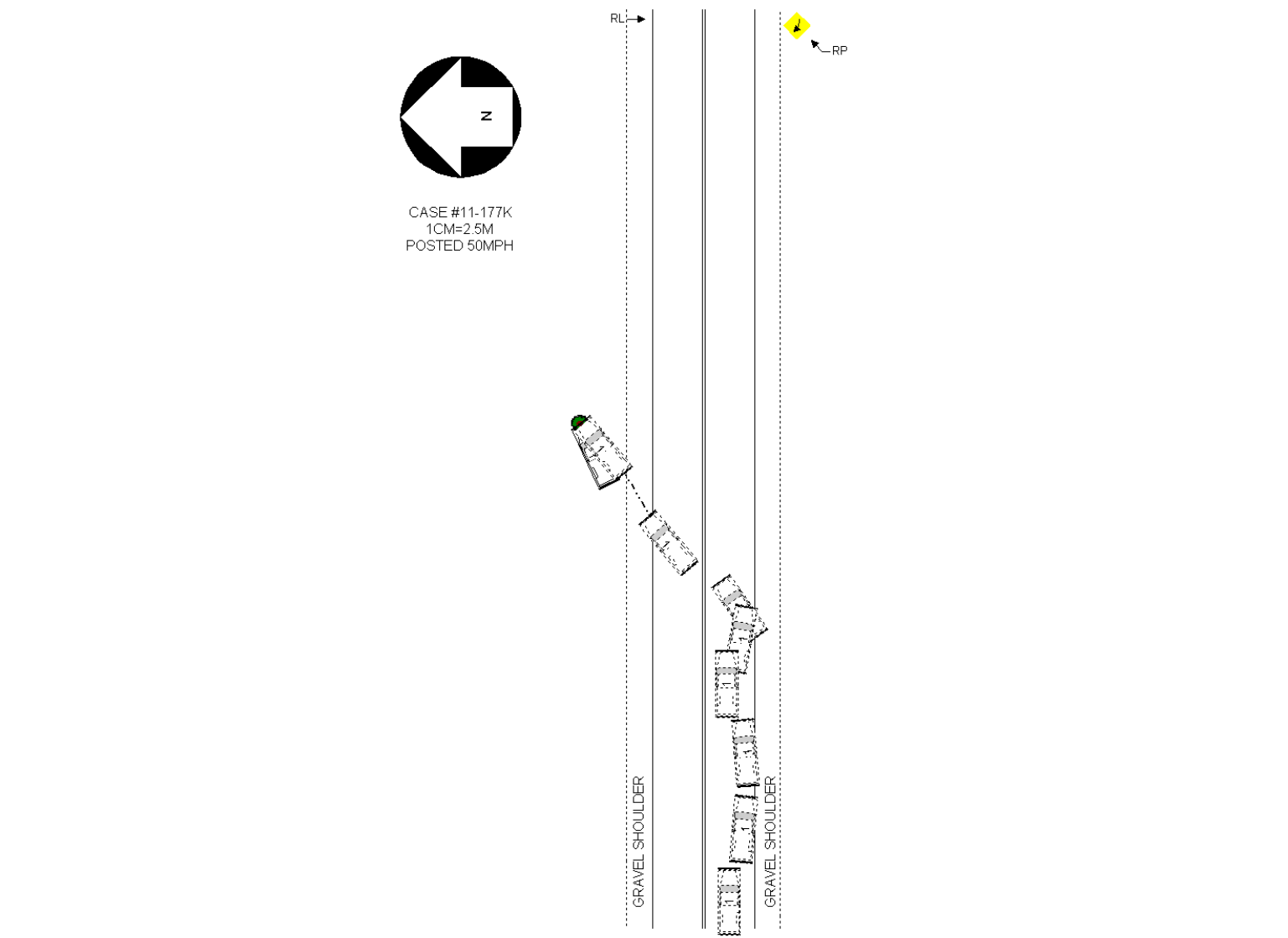
4=Severe

Unknown SOURCE

5 Case 1999-11-177

Summary:

Vehicle one a 1989 Ford Ranger was traveling eastbound in lane one of a two way not physically divided roadway. Vehicle one went off on the right side of the road several times. Vehicle one steered left from his right side departure and ran off on the north side of the roadway. The truck contacted a tree with the front of the vehicle and caught fire.(Minor) The vehicle was towed due to vehicle damage. The driver of vehicle one was transported to a local trauma center where he was hospitalized due to his injuries he substained during the impact.



Vehicle	Body type	Make	Model	Year	Occ.#	Age	Occupant's sex	Maximum known occupant ais
1	COMPACT PICKUP	Ford	Ranger	1989	1	49	MALE	2=Moderate

Occupant: 1999-11-177-1-1



Fire Information

Fire Occurrence	Minor fire
Fire Origin	Engine compartment
Location of Fuel Leakage	No fuel leakage
Type of Fuel Tank	Non-metallic
Fuel Tank Location	Forward of rear axle, left side
Fuel Cap Location	Left side, forward rear axle
Fuel Tank Damage	No damage
Fuel Type	Gasoline



Crash Severity

Nr. Quarter Turns	No rollover
Impact Speed	998
Total, Longitudal, and Lateral δV	39 -38 -7
Est. δV with sequence number	DELTA V CODED 1
CDC	12 F Z E W 3
Damage (C1-C6)	0 1 48 54 22 5
Crush (L and D)	145 18
Object Contacted 1	LARGE TREE
Object Contacted 2	0

NASS Weighting Factor

Weighting factor	63.107587313
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Rollover Characteristics

Number of Events	2
Rollover Initiation Type	No rollover
Location of Rollover Initiation	No rollover
Rollover Initiation Object Contacted	No rollover
Location on Vehicle where Principal Tripping Force was Applied	No rollover
Direction of Initial Roll	No rollover

Pre-Crash Environment

Traffic Flow	Not DIVIDED
Number of Travel Lanes	TWO
Roadway Alignment	STRAIGHT
Roadway Profile	LEVEL
Roadway Surface Type	ASPHALT
Roadway Surface Condition	DRY
Light Conditions	DAYLIGHT
Atmospheric Conditions	No ADVERSE COND
Relation to Intersection	NONINTER/NONJUNC
Traffic Control Device	
Police Reported Alcohol Presence	ALCOHOL PRESENT
Alcohol Test (< 95 indicates BAC 0.xx)	29

Vehicle Factors

Make-Model	Ford Ranger
Year	1989
Class	TRUCK
Body Type	COMPACT PICKUP
Weight	130

Pre-Crash Driver Data

Accident Type	6
Pre-event Movement	GOING STRAIGHT
Critical Pre-crash Event	OFF EDGE-RIGHT
Attempted Avoidance Manuever	STEERING LEFT
Pre-impact Stability	LONGITUDINAL SKID
Pre-impact Location	DEPARTED ROADWAY

DRIVER Factors

Age	49	Height	170	Weight	79
Gender			MALE		
Ejection			No EJECTION		
Ejection Area			No EJECTION		
Entrapment			Not ENTRAPPED		

Restraint Factors

Restrain	None used/avail
AOPS	NO
Airbag Deployment	Not EQUIP/AVAIL
Airbag Deployment - 1 st Seat	Not EQUIP/AVAIL
Airbag Deployment - Oth Seat	Not EQUIP W/ OTH

Injuries

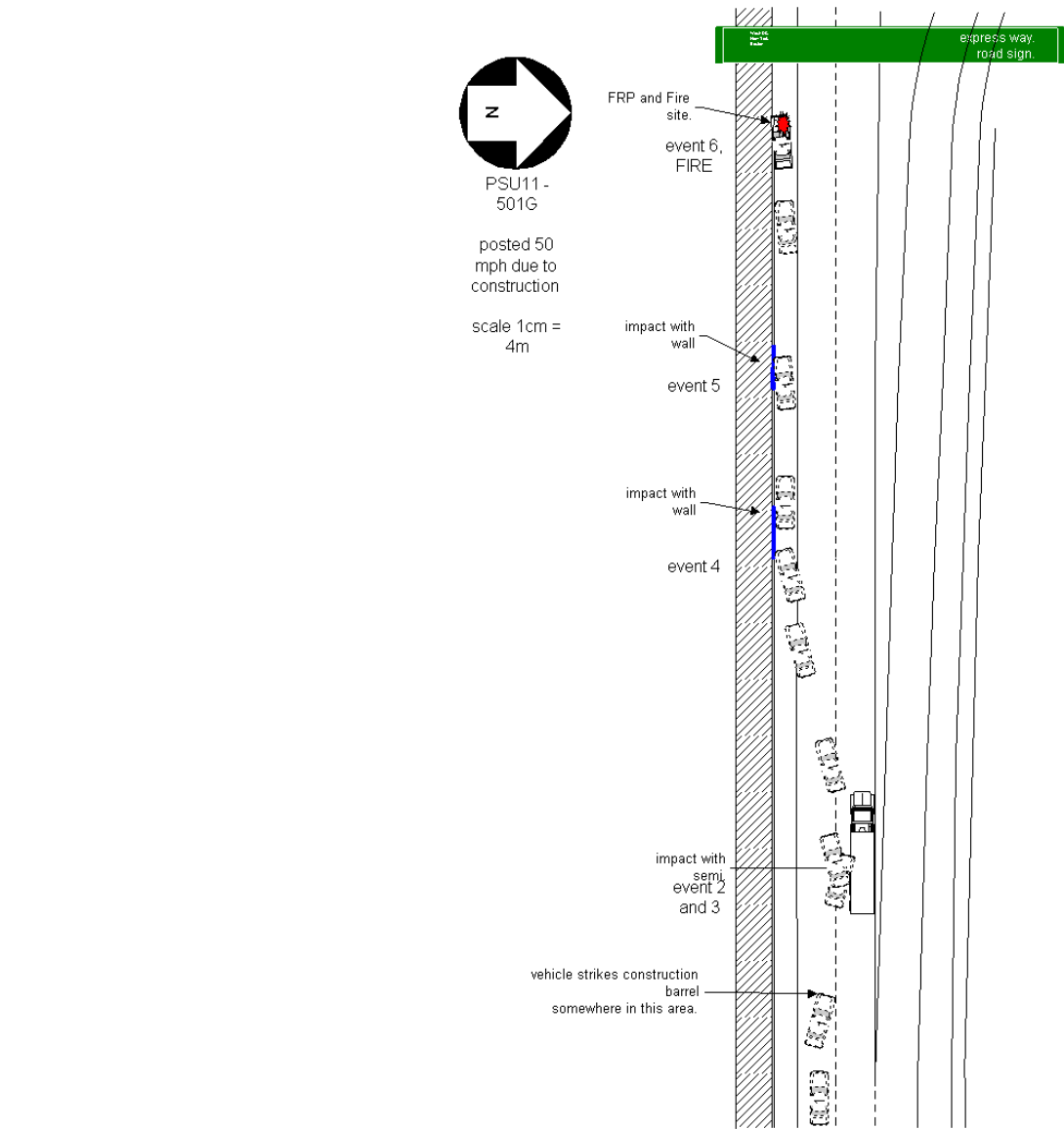
Occupant	1999-11-177-1-1
MAIS	2=Moderate
Seat Position	Front left side

AIS Level	Injury Description	Contacts
1=Minor	Teeth fracture	Windshield
1=Minor	Thoracic skin contusion	Sterring hub
1=Minor	Leg skin abrasion	Left apnel
1=Minor	Leg skin abrasion	Foot controls
2=Moderate	2-3 rib fractures with stable chest	Sterring hub
2=Moderate	Awake on admission, prior unconscious, length NFS	Windshield
1=Minor	690202	Seat, back
1=Minor	Thoracic skin abrasion	Sterring hub

6 Case 1999-11-501

Summary:

Vehicle one, 1998 Lincoln Continental, was travelling west in lane three of a three lane urban expressway, which was under construction. The construction consisted of a lane shift to the left (south) side of the road, thus a lane's width area was barreled off on the north side of the road, next to the median. Vehicle one left the road way to the left striking a barrel with the front. Vehicle one steered to the right into lane two, striking a semi trailer on the left side, with the front of vehicle one. Vehicle one side slapped the Semi Trailer with the right rear. Vehicle one continued, redirected, and struck the median wall with the front and left side of the vehicle. Vehicle one continued down the median wall, finally coming to rest against the wall. During the events, vehicle one caught fire and burned 80



Vehicle #	Body type	Make	Model	Year	Occ. #	Age	Occupant's sex	Maximum known occupant ais
1	4-DR SEDAN/HDTOP	Lincoln	TownCar/Continental	1998	1	61	MALE	1=Minor

Occupant: 1999-11-501-1-1



Fire Information

Fire Occurrence	Major fire
Fire Origin	Engine compart
Location of Fuel Leakage	No fuel leakage
Type of Fuel Tank	Metallic
Fuel Tank Location	Forward of rear axle, right side
Fuel Cap Location	Right side, behind rear axle
Fuel Tank Damage	No damage
Fuel Type	Gasoline



Pre-Crash Environment

Traffic Flow	DVDED/W/BARRIER
Number of Travel Lanes	THREE
Roadway Alignment	STRAIGHT
Roadway Profile	LEVEL
Roadway Surface Type	ASPHALT
Roadway Surface Condition	DRY
Light Conditions	DAWN
Atmospheric Conditions	No ADVERSE COND
Relation to Intersection	INTERCHANGE REL
Traffic Control Device	
Police Reported	Alcohol
Presence	No ALCOHOL
Alcohol Test (< 95 indicates	0
BAC 0.xx)	

Crash Severity

Nr. Quarter Turns	No rollover
Impact Speed	< 0.5KMPH
Total, Longitudal, and Lateral δV	< 0.5 KMPH < 0.5 KMPH <
Est. δV with sequence number	0.5 KMPH
CDC	DELTA V CODED 2
Damage (C1-C6)	12 F 9 E 9 1
Crush (L and D)	0 11 18 20 16 4
Object Contacted 1	158 0
Object Contacted 2	VEHICLE NO. 2
	CONCRETE BARRIER

NASS Weighting Factor

Weighting factor	0
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Rollover Characteristics

Number of Events	6
Rollover Initiation Type	No rollover
Location of Rollover Initiation	No rollover
Rollover Initiation Object Contacted	No rollover
Location on Vehicle where Principal Tripping Force was Applied	No rollover
Direction of Initial Roll	No rollover

Vehicle Factors

Make-Model	Lincoln TownCar/Continental
Year	1998
Class	PASSENGER CAR
Body Type	4-DR SEDAN/HDTOP
Weight	176

Pre-Crash Driver Data

Accident Type	98
Pre-event Movement	GOING STRAIGHT
Critical Pre-crash Event	OFF EDGE-LEFT
Attempted Avoidance Maneuver	STEERING RIGHT
Pre-impact Stability	TRACKING
Pre-impact Location	Left TRAVEL LANE

DRIVER Factors

Age	61	Height	175	Weight	86
Gender			MALE		
Ejection			No EJECTION		
Ejection Area			No EJECTION		
Entrapment			Not ENTRAPPED		

Restraint Factors

Restrain	Lap and shoulder
AOPS	YES-RES DET
Airbag Deployment	BAG DEPLOYED
Airbag Deployment - 1 st Seat	DR
PAS BAG DEPLY	
Airbag Deployment - Oth Seat	Not EQUIP W/ OTH

Injuries

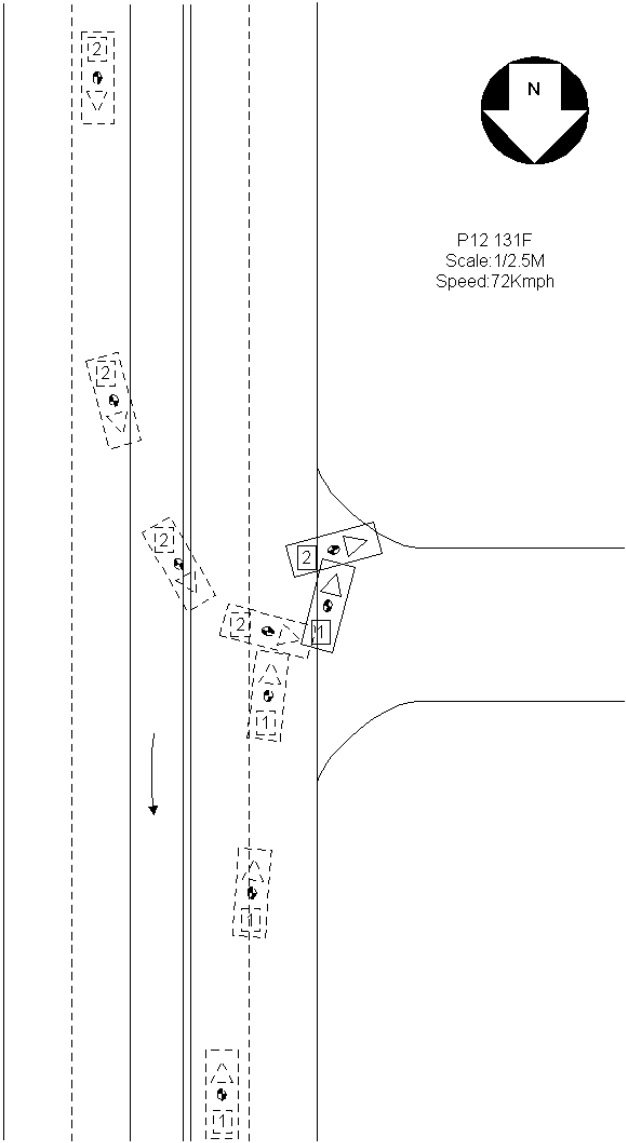
Occupant	1999-11-501-1-1
MAIS	1=Minor
Seat Position	Front left side

AIS Level	Injury Description	Contacts
1=Minor	Thoracic skin contusion	Belt webb/buckle
1=Minor	Upper extremity skin contusion	Air bag-DR side
1=Minor	792000	Fire in vehicle
1=Minor	Scalp contusion	Head restraint
1=Minor	Upper extremity skin contusion	Unknown SOURCE
1=Minor	Leg skin contusion (hematoma)	Left apnel

7 Case 1999-12-131

Summary:

Vehicle 1 was southbound, and vehicle 2 was northbound on the same roadway which was 5 lanes and 2 way during daylight and dry environmental conditions. Vehicle 2 moved into the left turn lane and slowly crossed 2 traffic lanes to enter a private driveway. Vehicle 1 was traveling in the 2nd lane, and attempted to avoid the crash by swerving to the right into the 1st lane and locking the brakes. The impact occurred to the front of vehicle 1, and the right side of vehicle 2. Vehicle 2 had substantial intrusion, and was towed due to damage from the crash. Vehicle 1 was also towed from the scene of the crash. The driver of vehicle 2 was transported to a medical facility for treatment of injuries sustained in the crash.



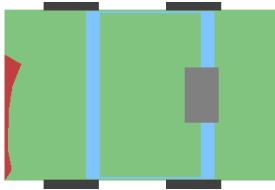
Vehicle	Body type	Make	Model	Year	Occ.#	Age	Occupant's sex	Maximum known occupant ais
1	LARGE PICKUP	GMC	"C,K,R,V-series P/U"	1985	1	28	MALE	0=None
1	LARGE PICKUP	GMC	"C,K,R,V-series P/U"	1985	2	27	MALE	1=Minor
2	STATION WAGON	Buick	Electra/Park Avenue	1989	1	68	MALE	2=Moderate

Occupant: 1999-12-131-1-1



Fire Information

Fire Occurrence	No fire
Fire Origin	No fire
Location of Fuel Leakage	Line/pump/filter
Type of Fuel Tank	Metallic
Fuel Tank Location	Forward of rear axle, left side
Fuel Cap Location	Left side, forward rear axle
Fuel Tank Damage	No damage
Fuel Type	Gasoline



Pre-Crash Environment

Traffic Flow	Not DIVIDED
Number of Travel Lanes	FIVE
Roadway Alignment	STRAIGHT
Roadway Profile	LEVEL
Roadway Surface Type	ASPHALT
Roadway Surface Condition	DRY
Light Conditions	DAYLIGHT
Atmospheric Conditions	No ADVERSE COND
Relation to Intersection	DRIVEWAY RELATED
Traffic Control Device	
Police Reported Alcohol Presence	No ALCOHOL
Alcohol Test (< 95 indicates BAC 0.xx)	0

Crash Severity

Nr. Quarter Turns	No rollover
Impact Speed	998
Total, Longitudal, and Lateral δV	35 -33 12
Est. δV with sequence number	DELTA V CODED 1
CDC	11 F D E W 1
Damage (C1-C6)	10 4 5 7 12 24
Crush (L and D)	186 0
Object Contacted 1	VEHICLE NO. 2
Object Contacted 2	0

NASS Weighting Factor

Weighting factor	2282.6939243
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Rollover Characteristics

Number of Events	1
Rollover Initiation Type	No rollover
Location of Rollover Initiation	No rollover
Rollover Initiation Object Contacted	No rollover
Location on Vehicle where Principal Tripping Force was Applied	No rollover
Direction of Initial Roll	No rollover

Vehicle Factors

Make-Model	GMC "C,K,R,V-series P/U"
Year	1985
Class	TRUCK
Body Type	LARGE PICKUP
Weight	204

Pre-Crash Driver Data

Accident Type	69
Pre-event Movement	ACCELER IN LANE
Critical Pre-crash Event	OPP DIR-OVR LEFT
Attempted Avoidance Manuever	No AVOIDANCE
Pre-impact Stability	TRACKING
Pre-impact Location	STAYED IN LANE

DRIVER Factors

Age	28	Height	183	Weight	86
Gender					MALE
Ejection					No EJECTION
Ejection Area					No EJECTION
Entrapment					Not ENTRAPPED

Restraint Factors

Restrain	None used/avail
AOPS	NO
Airbag Deployment	Not EQUIP/AVAIL
Airbag Deployment - 1 st Seat	Not EQUIP/AVAIL
Airbag Deployment - Oth Seat	Not EQUIP W/ OTH

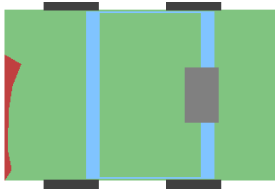
Injuries

Occupant	1999-12-131-1-1
MAIS	0=None
Seat Position	Front left side

AIS Level	Injury Description	Contacts
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Occupant: 1999-12-131-1-2**Fire Information**

Fire Occurrence	No fire
Fire Origin	No fire
Location of Fuel Leakage	Line/pump/filter
Type of Fuel Tank	Metallic
Fuel Tank Location	Forward of rear axle, left side
Fuel Cap Location	Left side, forward rear axle
Fuel Tank Damage	No damage
Fuel Type	Gasoline

**Pre-Crash Environment**

Traffic Flow	Not DIVIDED
Number of Travel Lanes	FIVE
Roadway Alignment	STRAIGHT
Roadway Profile	LEVEL
Roadway Surface Type	ASPHALT
Roadway Surface Condition	DRY
Light Conditions	DAYLIGHT
Atmospheric Conditions	No ADVERSE COND
Relation to Intersection	DRIVEWAY RELATED
Traffic Control Device	
Police Reported Alcohol Presence	No ALCOHOL
Alcohol Test (< 95 indicates BAC 0.xx)	0

Crash Severity

Nr. Quarter Turns	No rollover
Impact Speed	998
Total, Longitudal, and Lateral δV	35 -33 12
Est. δV with sequence number	DELTA V CODED 1
CDC	11 F D E W 1
Damage (C1-C6)	10 4 5 7 12 24
Crush (L and D)	186 0
Object Contacted 1	VEHICLE NO. 2
Object Contacted 2	0

NASS Weighting Factor

Weighting factor	2282.6939243
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Rollover Characteristics

Number of Events	1
Rollover Initiation Type	No rollover
Location of Rollover Initiation	No rollover
Rollover Initiation Object Contacted	No rollover
Location on Vehicle where Principal Tripping Force was Applied	No rollover
Direction of Initial Roll	No rollover

Vehicle Factors

Make-Model	GMC "C,K,R,V-series P/U"
Year	1985
Class	TRUCK
Body Type	LARGE PICKUP
Weight	204

Pre-Crash Driver Data

Accident Type	69
Pre-event Movement	ACCELER IN LANE
Critical Pre-crash Event	OPP DIR-OVR LEFT
Attempted Avoidance Manuever	No AVOIDANCE
Pre-impact Stability	TRACKING
Pre-impact Location	STAYED IN LANE

PASSENGER Factors

Age	27	Height	183	Weight	73
Gender					MALE
Ejection					No EJECTION
Ejection Area					No EJECTION
Entrapment					Not ENTRAPPED

Restraint Factors

Restrain	None used/avail
AOPS	NO
Airbag Deployment	Not EQUIP/AVAIL
Airbag Deployment - 1 st Seat	Not EQUIP/AVAIL
Airbag Deployment - Oth Seat	Not EQUIP W/ OTH

Injuries

Occupant	1999-12-131-1-2
MAIS	1=Minor
Seat Position	Front right side

AIS Level	Injury Description	Contacts
1=Minor	Facial skin laceration, minor	Right panel

Occupant: 1999-12-131-2-1



Fire Information

Fire Occurrence	No fire
Fire Origin	No fire
Location of Fuel Leakage	No fuel leakage
Type of Fuel Tank	Metallic
Fuel Tank Location	Behind rear axle, centered
Fuel Cap Location	Left side, behind rear axle
Fuel Tank Damage	No damage
Fuel Type	Gasoline



Crash Severity

Nr. Quarter Turns	No rollover
Impact Speed	998
Total, Longitudal, and Lateral δV	38 -19 -33
Est. δV with sequence number	DELTA V CODED 1
CDC	62 R Y A W 4
Damage (C1-C6)	4 52 58 62 51 25
Crush (L and D)	249 116
Object Contacted 1	VEHICLE NO. 1
Object Contacted 2	0

NASS Weighting Factor

Weighting factor	2282.6939243
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Rollover Characteristics

Number of Events	1
Rollover Initiation Type	No rollover
Location of Rollover Initiation	No rollover
Rollover Initiation Object	No rollover
Contacted	
Location on Vehicle where Principal Tripping Force was Applied	No rollover
Direction of Initial Roll	No rollover

Pre-Crash Environment

Traffic Flow	Not DIVIDED
Number of Travel Lanes	FIVE
Roadway Alignment	STRAIGHT
Roadway Profile	LEVEL
Roadway Surface Type	ASPHALT
Roadway Surface Condition	DRY
Light Conditions	DAYLIGHT
Atmospheric Conditions	No ADVERSE COND
Relation to Intersection	DRIVEWAY RELATED
Traffic Control Device	
Police Reported Alcohol Presence	No ALCOHOL
Alcohol Test (< 95 indicates BAC 0.xx)	0

Vehicle Factors

Make-Model	Buick Electra/Park Avenue
Year	1989
Class	PASSENGER CAR
Body Type	STATION WAGON
Weight	194

Pre-Crash Driver Data

Accident Type	68
Pre-event Movement	TURNING LEFT
Critical Pre-crash Event	TURN LEFT-INTERS
Attempted Avoidance Manuever	No AVOIDANCE
Pre-impact Stability	TRACKING
Pre-impact Location	STAYED IN LANE

DRIVER Factors

Age	68	Height	188	Weight	100
Gender					MALE
Ejection					No EJECTION
Ejection Area					No EJECTION
Entrapment					Not ENTRAPPED

Restraint Factors

Restrain	None used/avail
AOPS	NO
Airbag Deployment	Not EQUIP/AVAIL
Airbag Deployment - 1 st Seat	Not EQUIP/AVAIL
Airbag Deployment - Oth Seat	Not EQUIP W/ OTH

Injuries

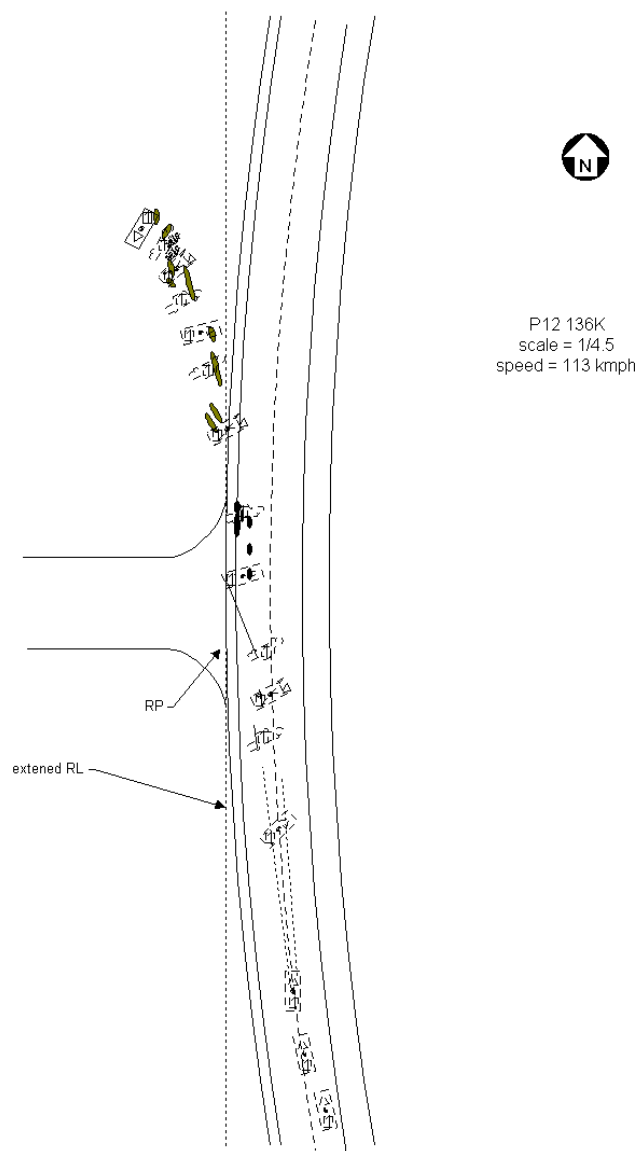
Occupant	1999-12-131-2-1
MAIS	2=Moderate
Seat Position	Front left side

AIS Level	Injury Description	Contacts
2=Moderate	Awake on admission, amnesia	Right interior
1=Minor	Scalp laceration, minor	Right interior
1=Minor	Scalp contusion	Right interior

8 Case 1999-12-136

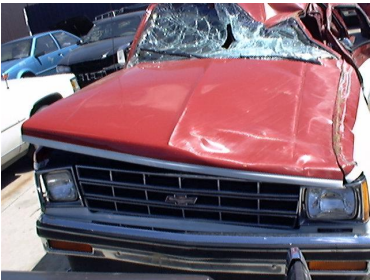
Summary:

Vehicle 1 was southbound on a 2 lane, asphalt roadway negotiating a right curve. The driver swerved, and the vehicle began to yaw, breaking off the left rear wheel and then the vehicle rolled off the roadway and ended in the center grassy median on it's wheels. There was extensive intrusion on the roof, with integrity loss. The doors were jammed, and the jaws of life were used to free the occupants of the vehicle. The driver was partially ejected as the left shoulder exited the left front window after glass broke out of that position. The driver and occupant were transported to a local trauma center for treatment of injuries and the vehicle was towed from the scene of the crash due to damage.



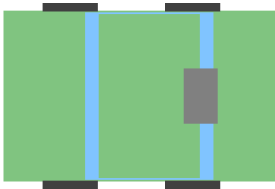
Vehicle	Body type	Make	Model	Year	Occ.#	Age	Occupant's sex	Maximum known occupant ais
1	COMPACT UTILITY	Chevrolet	S-10 Blazer	1988	1	18	FEMALE-NOT PREG	2=Moderate
1	COMPACT UTILITY	Chevrolet	S-10 Blazer	1988	2	14	FEMALE-NOT PREG	1=Minor

Occupant: 1999-12-136-1-1



Fire Information

Fire Occurence	No fire
Fire Origin	No fire
Location of Fuel Leakage	Tank
Type of Fuel Tank	Metallic
Fuel Tank Location	Behind rear axle, centered
Fuel Cap Location	Left side, behind rear axle
Fuel Tank Damage	Other damage
Fuel Type	Gasoline



Crash Severity

Nr. Quarter Turns	12 QUARTER TURNS
Impact Speed	< 0.5KMPH
Total, Longitudal, and Lateral δV	< 0.5 KMPH < 0.5 KMPH < 0.5 KMPH
Est. δV with sequence number	SEVERE 1
CDC	0 T D D O 5
Damage (C1-C6)	0 0 0 0 0 0
Crush (L and D)	0 0
Object Contacted 1	ROLLOVER-OVERTRN
Object Contacted 2	0

NASS Weighting Factor

Weighting factor	73.517976715
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Rollover Characteristics

Number of Events	1
Rollover Initiation Type	TRIP-OVER
Location of Rollover Initiation	ON ROADWAY
Rollover Initiation Object	GROUND
Contacted	
Location on Vehicle where Principal Tripping Force was Applied	WHEELS/TIRES
Direction of Initial Roll	ROLL LEFT

Pre-Crash Environment

Traffic Flow	ONE WAY
Number of Travel Lanes	TWO
Roadway Alignment	CURVE RIGHT
Roadway Profile	LEVEL
Roadway Surface Type	ASPHALT
Roadway Surface Condition	DRY
Light Conditions	DAYLIGHT
Atmospheric Conditions	No ADVERSE COND
Relation to Intersection	NONINTER/NONJUNC
Traffic Control Device	
Police Reported Alcohol Presence	No ALCOHOL
Alcohol Test (< 95 indicates BAC 0.xx)	0

Vehicle Factors

Make-Model	Chevrolet S-10 Blazer
Year	1988
Class	PASSENGER CAR
Body Type	COMPACT UTILITY
Weight	130

Pre-Crash Driver Data

Accident Type	9
Pre-event Movement	NEGOTIATE CURVE
Critical Pre-crash Event	TRAVEL TOO FAST
Attempted Avoidance Maneuver	STEERING RIGHT
Pre-impact Stability	TRACKING
Pre-impact Location	Left TRAVEL LANE

DRIVER Factors

Age	18	Height	160	Weight	86
Gender	FEMALE-NOT PREG				
Ejection	PARTIAL EJECTION				
Ejection Area	Left FRONT				
Entrapment	JAMMED DOOR/FIRE				

Restraint Factors

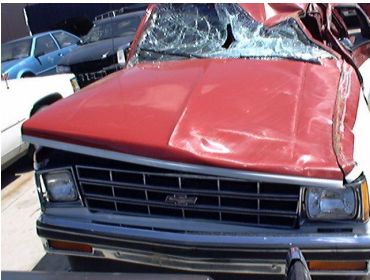
Restrain	Lap and shoulder
AOPS	NO
Airbag Deployment	Not EQUIP/AVAIL
Airbag Deployment - 1 st Seat	Not EQUIP/AVAIL
Airbag Deployment - Oth Seat	Not EQUIP W/ OTH

Injuries

Occupant	1999-12-136-1-1
MAIS	2=Moderate
Seat Position	Front left side

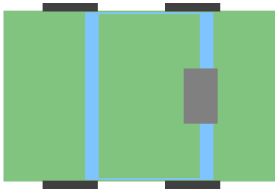
AIS Level	Injury Description	Contacts
2=Moderate	Unconsciousness <1 hour	Roof
1=Minor	Thoracic skin contusion	Belt webb/buckle
1=Minor	Upper extremity skin abrasion	Left interior
1=Minor	Leg skin abrasion	Left apnel
1=Minor	Scalp laceration, minor	Roof
1=Minor	Scalp contusion	Roof
1=Minor	690202	Ground
1=Minor	Upper extremity skin contusion	Belt webb/buckle
1=Minor	Leg skin contusion (hematoma)	Left apnel
1=Minor	Upper extremity skin abrasion	Ground

Occupant: 1999-12-136-1-2



Fire Information

Fire Occurence	No fire
Fire Origin	No fire
Location of Fuel Leakage	Tank
Type of Fuel Tank	Metallic
Fuel Tank Location	Behind rear axle, centered
Fuel Cap Location	Left side, behind rear axle
Fuel Tank Damage	Other damage
Fuel Type	Gasoline



Crash Severity

Nr. Quarter Turns	12 QUARTER TURNS
Impact Speed	< 0.5KMPH
Total, Longitudal, and Lateral δV	< 0.5 KMPH < 0.5 KMPH < 0.5 KMPH
Est. δV with sequence number	SEVERE 1
CDC	0 T D D O 5
Damage (C1-C6)	0 0 0 0 0 0
Crush (L and D)	0 0
Object Contacted 1	ROLLOVER-OVERTURN
Object Contacted 2	0

NASS Weighting Factor

Weighting factor	73.517976715
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Rollover Characteristics

Number of Events	1
Rollover Initiation Type	TRIP-OVER
Location of Rollover Initiation	ON ROADWAY
Rollover Initiation Object	GROUND
Contacted	
Location on Vehicle where Principal Tripping Force was Applied	WHEELS/TIRES
Direction of Initial Roll	ROLL LEFT

Pre-Crash Environment

Traffic Flow	ONE WAY
Number of Travel Lanes	TWO
Roadway Alignment	CURVE RIGHT
Roadway Profile	LEVEL
Roadway Surface Type	ASPHALT
Roadway Surface Condition	DRY
Light Conditions	DAYLIGHT
Atmospheric Conditions	No ADVERSE COND
Relation to Intersection	NONINTER/NONJUNC
Traffic Control Device	
Police Reported Alcohol Presence	No ALCOHOL
Alcohol Test (< 95 indicates BAC 0.xx)	0

Vehicle Factors

Make-Model	Chevrolet S-10 Blazer
Year	1988
Class	PASSENGER CAR
Body Type	COMPACT UTILITY
Weight	130

Pre-Crash Driver Data

Accident Type	9
Pre-event Movement	NEGOTIATE CURVE
Critical Pre-crash Event	TRAVEL TOO FAST
Attempted Avoidance Maneuver	STEERING RIGHT
Pre-impact Stability	TRACKING
Pre-impact Location	Left TRAVEL LANE

PASSENGER Factors

Age	14	Height	173	Weight	74
Gender					FEMALE-NOT PREG
Ejection					No EJECTION
Ejection Area					No EJECTION
Entrapment					JAMMED DOOR/FIRE

Restraint Factors

Restrain	Lap and shoulder
AOPS	NO
Airbag Deployment	Not EQUIP/AVAIL
Airbag Deployment - 1 st Seat	Not EQUIP/AVAIL
Airbag Deployment - Oth Seat	Not EQUIP W/ OTH

Injuries

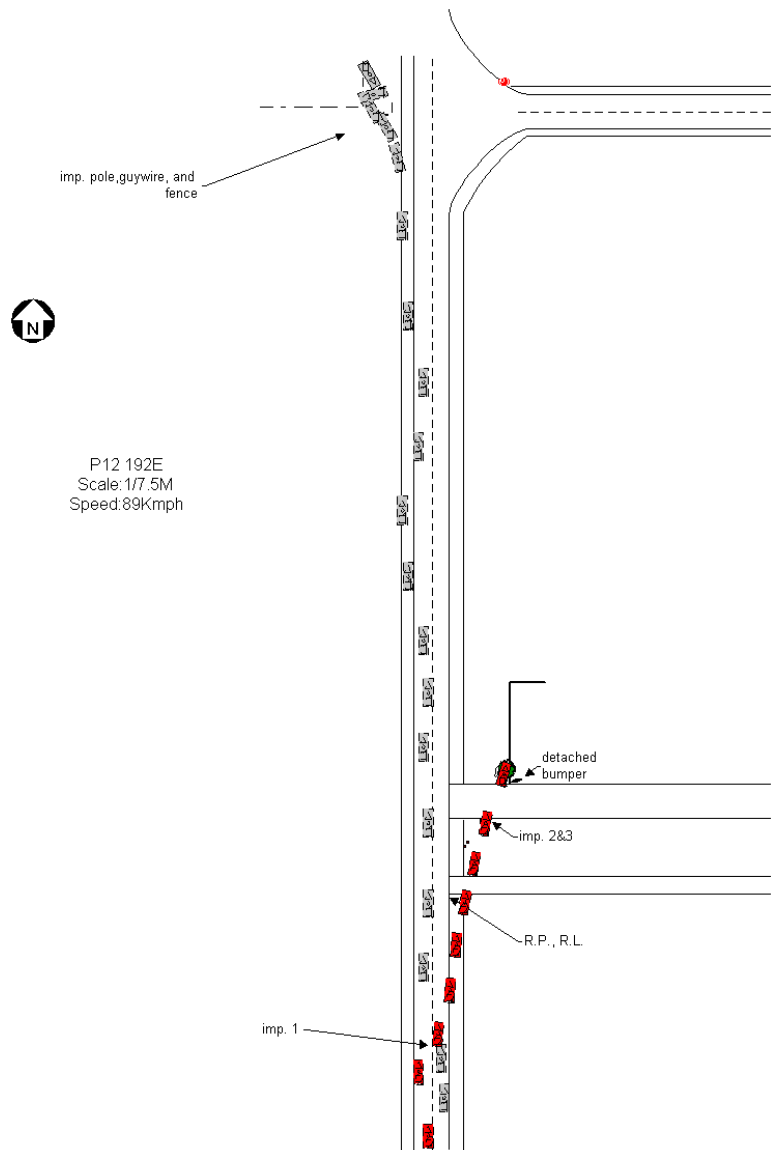
Occupant	1999-12-136-1-2
MAIS	1=Minor
Seat Position	Front right side

AIS Level	Injury Description	Contacts
1=Minor	Upper extremity skin laceration, minor	Flying glass
1=Minor	Facial skin contusion	Right wind frame
1=Minor	Abdominal skin contusion	Belt webb/buckle
1=Minor	Leg skin contusion (hematoma)	Right hardware

9 Case 1999-12-192

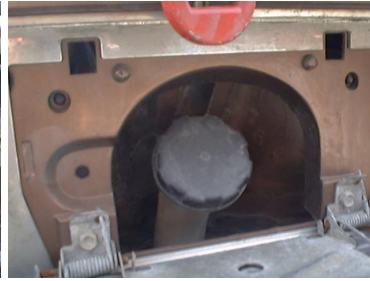
Summary:

Vehicle 1 and 2 were traveling north on a 2 lane, 2 way asphalt rural roadway. Environmental conditions were clear, dry, and daylight. Vehicle 1 left plane contacted the rear of vehicle 2 as vehicle 2 passed vehicle 1 on the left side. Vehicle 2 proceeded off road to the right launching itself airborne over a ditch striking a driveway culvert in a nonhorizontal manner with it's front and then coming back down on the back undercarriage area turning the vehicle into a canoe shape. Vehicle 2 then crossed a driveway and contacted a fence and spun around contacting a tree and was found at final rest in a vertical position perpendicular to the tree, nose in the air. Vehicle 1 continued on the same roadway nearly 160 meters and then went off road to the left. Vehicle 1 contacted a utility pole with it's frontal plane, and the attached guywire contacted the left side of the vehicle. The guywire wrapped over the trunk area, and the pole sheared off and came down atop the right C pillar and trunk area. Vehicle 1 continued on to strike a fence twice. Both vehicles were towed from the scene of the crash due to damage sustained in the crash. All occupants were transported to local trauma facilities for the treatment of their injuries. Airbags in vehicle 2 deployed, and seatbelts were used in both vehicles.



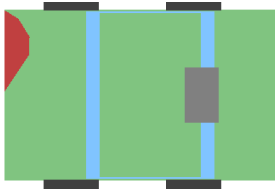
Vehicle	Body type	Make	Model	Year	Occ. Age	Occupant's sex	Maximum known occupant ais
1	4-DR SEDAN/HDTOP	Chevrolet	Caprice/Impala	1985	40	MALE	1=Minor
2	2DR SEDAN/HT/CPE	Chevrolet	Corvette	1999	48	MALE	1=Minor
2	2DR SEDAN/HT/CPE	Chevrolet	Corvette	1999	50	FEMALE-NOT PREG	2=Moderate

Occupant: 1999-12-192-1-1



Fire Information

Fire Occurrence	No fire
Fire Origin	No fire
Location of Fuel Leakage	Tank
Type of Fuel Tank	Metallic
Fuel Tank Location	Behind rear axle, centered
Fuel Cap Location	On back plane
Fuel Tank Damage	Punctured
Fuel Type	Gasoline



Pre-Crash Environment

Traffic Flow	Not DIVIDED
Number of Travel Lanes	TWO
Roadway Alignment	STRAIGHT
Roadway Profile	LEVEL
Roadway Surface Type	ASPHALT
Roadway Surface Condition	DRY
Light Conditions	DAYLIGHT
Atmospheric Conditions	No ADVERSE COND
Relation to Intersection	NONINTER/NONJUNC
Traffic Control Device	
Police Reported Alcohol Presence	ALCOHOL PRESENT
Alcohol Test (< 95 indicates BAC 0.xx)	28

Crash Severity

Nr. Quarter Turns	No rollover
Impact Speed	< 0.5KMPH
Total, Longitudal, and Lateral δV	< 0.5 KMPH < 0.5 KMPH < 0.5 KMPH
Est. δV with sequence number	DELTA V CODED 6
CDC	11 F R E N 2
Damage (C1-C6)	0 0 18 36 37 20
Crush (L and D)	158 30
Object Contacted 1	LARGE POLE
Object Contacted 2	Oth FIXED OBJECT

NASS Weighting Factor

Weighting factor	190.27160656
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Rollover Characteristics

Number of Events	10
Rollover Initiation Type	No rollover
Location of Rollover Initiation	No rollover
Rollover Initiation Object Contacted	No rollover
Location on Vehicle where Principal Tripping Force was Applied	No rollover
Direction of Initial Roll	No rollover

Vehicle Factors

Make-Model	Chevrolet Caprice/Impala
Year	1985
Class	PASSENGER CAR
Body Type	4-DR SEDAN/HDTOP
Weight	158

Pre-Crash Driver Data

Accident Type	45
Pre-event Movement	GOING STRAIGHT
Critical Pre-crash Event	Same DIR-OV LEFT
Attempted Avoidance Manuever	STEERING LEFT
Pre-impact Stability	TRACKING
Pre-impact Location	Left TRAVEL LANE

DRIVER Factors

Age	40	Height	183	Weight	82
Gender			MALE		
Ejection			No EJECTION		
Ejection Area			No EJECTION		
Entrapment			Not ENTRAPPED		

Restraint Factors

Restrain	Lap and shoulder
AOPS	NO
Airbag Deployment	Not EQUIP/AVAIL
Airbag Deployment - 1 st Seat	Not EQUIP/AVAIL
Airbag Deployment - Oth Seat	Not EQUIP W/ OTH

Injuries

Occupant	1999-12-192-1-1
MAIS	1=Minor
Seat Position	Front left side

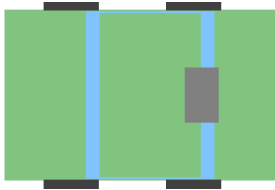
AIS Level	Injury Description	Contacts
1=Minor	Abdominal skin contusion	Belt webb/buckle
1=Minor	Scalp contusion	Head restraint

Occupant: 1999-12-192-2-1



Fire Information

Fire Occurrence	No fire
Fire Origin	No fire
Location of Fuel Leakage	No fuel tank
Type of Fuel Tank	No fuel Tank
Fuel Tank Location	No fuel tank
Fuel Cap Location	Left side, forward rear axle
Fuel Tank Damage	No fuel tank
Fuel Type	No fuel tank



Pre-Crash Environment

Traffic Flow	Not DIVIDED
Number of Travel Lanes	TWO
Roadway Alignment	STRAIGHT
Roadway Profile	LEVEL
Roadway Surface Type	ASPHALT
Roadway Surface Condition	DRY
Light Conditions	DAYLIGHT
Atmospheric Conditions	No ADVERSE COND
Relation to Intersection	NONINTER/NONJUNC
Traffic Control Device	
Police Reported Alcohol Presence	No ALCOHOL
Alcohol Test (< 95 indicates BAC 0.xx)	0

Crash Severity

Nr. Quarter Turns	No rollover
Impact Speed	< 0.5KMPH
Total, Longitudal, and Lateral δV	< 0.5 KMPH < 0.5 KMPH < 0.5 KMPH
Est. δV with sequence number	SEVERE 2
CDC	20 F D E W 3
Damage (C1-C6)	0 0 0 0 0 0
Crush (L and D)	0 0
Object Contacted 1	DITCH/CULVERT
Object Contacted 2	GROUND

NASS Weighting Factor

Weighting factor	190.27160656
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Rollover Characteristics

Number of Events	10
Rollover Initiation Type	No rollover
Location of Rollover Initiation	No rollover
Rollover Initiation Object Contacted	No rollover
Location on Vehicle where Principal Tripping Force was Applied	No rollover
Direction of Initial Roll	No rollover

Vehicle Factors

Make-Model	Chevrolet Corvette
Year	1999
Class	PASSENGER CAR
Body Type	2DR SEDAN/HT/CPE
Weight	143

Pre-Crash Driver Data

Accident Type	46
Pre-event Movement	PASSING/OVERTAKE
Critical Pre-crash Event	Same DIR-HISPEED
Attempted Avoidance Manuever	No AVOIDANCE
Pre-impact Stability	TRACKING
Pre-impact Location	STAYED IN LANE

DRIVER Factors

Age	48	Height	0	Weight	120
Gender					MALE
Ejection					No EJECTION
Ejection Area					No EJECTION
Entrapment					Not ENTRAPPED

Restraint Factors

Restrain	Lap and shoulder
AOPS	YES-RES DET
Airbag Deployment	BAG DEPLOYED
Airbag Deployment - 1 st Seat	DR
PAS BAG DEPLY	
Airbag Deployment - Oth Seat	Not EQUIP W/ OTH

Injuries

Occupant	1999-12-192-2-1
MAIS	1=Minor
Seat Position	Front left side

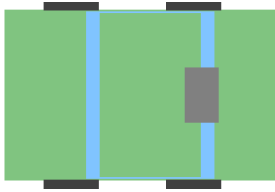
AIS Level	Injury Description	Contacts
1=Minor	690402	Left hardware
1=Minor	Leg skin contusion (hematoma)	Left apnel
1=Minor	Lumbar spine acute strain without fracture or dislocation	Left hardware
1=Minor	Leg skin contusion (hematoma)	Foot controls
1=Minor	Facial skin laceration, minor	Steering rim

Occupant: 1999-12-192-2-2



Fire Information

Fire Occurrence	No fire
Fire Origin	No fire
Location of Fuel Leakage	No fuel tank
Type of Fuel Tank	No fuel Tank
Fuel Tank Location	No fuel tank
Fuel Cap Location	Left side, forward rear axle
Fuel Tank Damage	No fuel tank
Fuel Type	No fuel tank



Pre-Crash Environment

Traffic Flow	Not DIVIDED
Number of Travel Lanes	TWO
Roadway Alignment	STRAIGHT
Roadway Profile	LEVEL
Roadway Surface Type	ASPHALT
Roadway Surface Condition	DRY
Light Conditions	DAYLIGHT
Atmospheric Conditions	No ADVERSE COND
Relation to Intersection	NONINTER/NONJUNC
Traffic Control Device	
Police Reported Alcohol Presence	No ALCOHOL
Alcohol Test (< 95 indicates BAC 0.xx)	0

Crash Severity

Nr. Quarter Turns	No rollover
Impact Speed	< 0.5KMPH
Total, Longitudal, and Lateral δV	< 0.5 KMPH < 0.5 KMPH < 0.5 KMPH
Est. δV with sequence number	SEVERE 2
CDC	20 F D E W 3
Damage (C1-C6)	0 0 0 0 0 0
Crush (L and D)	0 0
Object Contacted 1	DITCH/CULVERT
Object Contacted 2	GROUND

NASS Weighting Factor

Weighting factor	190.27160656
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Rollover Characteristics

Number of Events	10
Rollover Initiation Type	No rollover
Location of Rollover Initiation	No rollover
Rollover Initiation Object Contacted	No rollover
Location on Vehicle where Principal Tripping Force was Applied	No rollover
Direction of Initial Roll	No rollover

Vehicle Factors

Make-Model	Chevrolet Corvette
Year	1999
Class	PASSENGER CAR
Body Type	2DR SEDAN/HT/CPE
Weight	143

Pre-Crash Driver Data

Accident Type	46
Pre-event Movement	PASSING/OVERTAKE
Critical Pre-crash Event	Same DIR-HISPEED
Attempted Avoidance Manuever	No AVOIDANCE
Pre-impact Stability	TRACKING
Pre-impact Location	STAYED IN LANE

PASSENGER Factors

Age	50	Height	0	Weight	0
Gender					FEMALE-NOT PREG
Ejection					No EJECTION
Ejection Area					No EJECTION
Entrapment					Not ENTRAPPED

Restraint Factors

Restrain	Lap and shoulder
AOPS	YES-RES DET
Airbag Deployment	BAG DEPLOYED
Airbag Deployment - 1 st Seat	DR
PAS BAG DEPLY	
Airbag Deployment - Oth Seat	Not EQUIP W/ OTH

Injuries

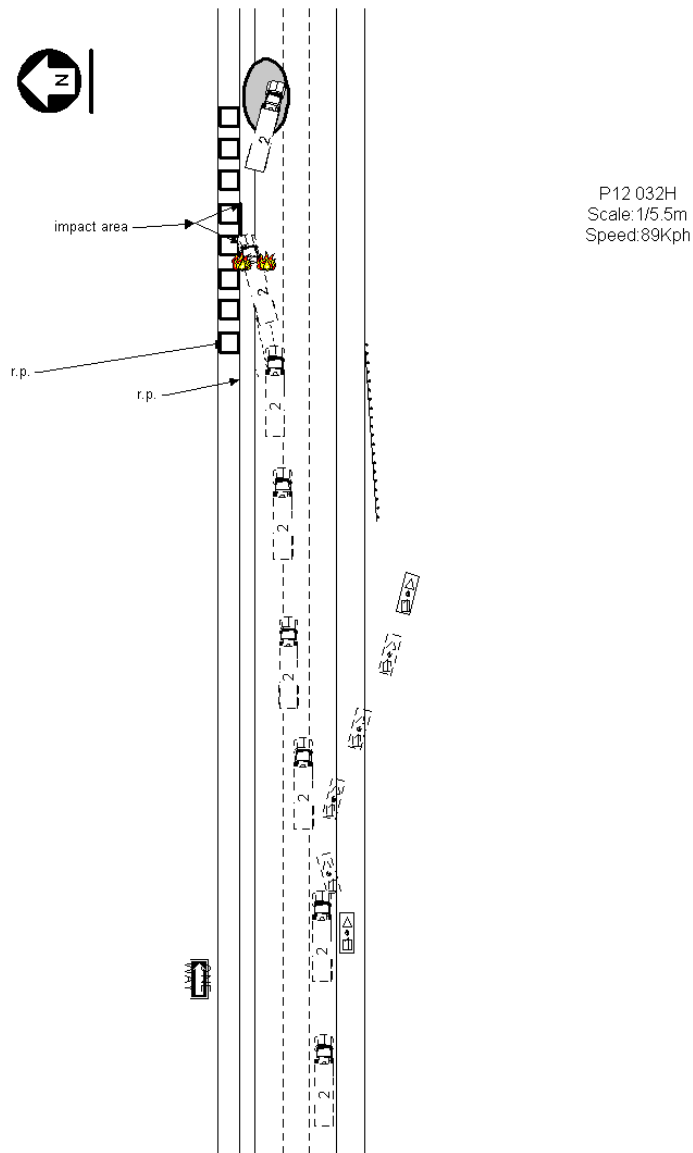
Occupant	1999-12-192-2-2
MAIS	2=Moderate
Seat Position	Front right side

AIS Level	Injury Description	Contacts
1=Minor	Facial skin abrasion	Air bag-PS side
1=Minor	Facial skin contusion	Air bag-PS side
1=Minor	Upper extremity skin abrasion	Right panel
1=Minor	Leg skin contusion (hematoma)	Right panel
1=Minor	Leg skin contusion (hematoma)	Right panel
1=Minor	Abdominal skin contusion	Belt webb/buckle
1=Minor	Facial skin abrasion	Air bag-PS side
2=Moderate	Carpus or metacarpus fracture	Right panel
1=Minor	Thoracic skin contusion	Belt webb/buckle
1=Minor	Awake on admission, never unconscious	Air bag-PS side

10 Case 1999-12-32

Summary:

Vehicle 1 was eastbound on a 3 lane concrete expressway entering the roadway from the shoulder in front of vehicle 2 which had been traveling in the first lane. The front of vehicle 2 contacted the back of vehicle 1 sending it off road to the right into a grassy median. Vehicle 2 continued forward into the 3 rd lane contacting a concrete barrier which ruptured a side gas tank catching on fire. The roadway was pitted and charred from the diesel fuel engulfing the area and destroying the rear section of the tractor along with the trailer which had been carrying medical supplies. Both vehicles were towed from the scene and the driver of vehicle 1 transported with minor injuries.



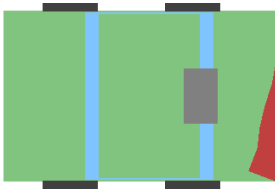
Vehicle	Body type	Make	Model	Year	Occ.#	Age	Occupant's sex	Maximum known occupant ais
1	LARGE PICKUP	Jeep	Pickup	1977	1	27	FEMALE-NOT PREG	1=Minor

Occupant: 1999-12-32-1-1



Fire Information

Fire Occurence	No fire
Fire Origin	No fire
Location of Fuel Leakage	No fuel leakage
Type of Fuel Tank	Metallic
Fuel Tank Location	Forward of rear axle, left side
Fuel Cap Location	Left side, forward rear axle
Fuel Tank Damage	No damage
Fuel Type	Gasoline



Crash Severity

Nr. Quarter Turns	No rollover
Impact Speed	< 0.5KMPH
Total, Longitudal, and Lateral δV	< 0.5 KMPH < 0.5 KMPH < 0.5 KMPH
Est. δV with sequence number	DELTA V CODED 1
CDC	6 B Y E W 2
Damage (C1-C6)	39 27 23 16 6 0
Crush (L and D)	190 -48
Object Contacted 1	VEHICLE NO. 2
Object Contacted 2	0

NASS Weighting Factor

Weighting factor	439.44404636
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Rollover Characteristics

Number of Events	3
Rollover Initiation Type	No rollover
Location of Rollover Initiation	No rollover
Rollover Initiation Object Contacted	No rollover
Location on Vehicle where Principal Tripping Force was Applied	No rollover
Direction of Initial Roll	No rollover

Pre-Crash Environment

Traffic Flow	ONE WAY
Number of Travel Lanes	THREE
Roadway Alignment	STRAIGHT
Roadway Profile	LEVEL
Roadway Surface Type	CONCRETE
Roadway Surface Condition	DRY
Light Conditions	DARK/LIGHTED
Atmospheric Conditions	No ADVERSE COND
Relation to Intersection	NONINTER/NONJUNC
Traffic Control Device	
Police Reported Alcohol Presence	No ALCOHOL
Alcohol Test (< 95 indicates BAC 0.xx)	0

Vehicle Factors

Make-Model	Jeep Pickup
Year	1977
Class	PASSENGER CAR
Body Type	LARGE PICKUP
Weight	177

Pre-Crash Driver Data

Accident Type	32
Pre-event Movement	STARTING IN LANE
Critical Pre-crash Event	OVER LINE-RIGHT
Attempted Avoidance Maneuver	No AVOIDANCE
Pre-impact Stability	TRACKING
Pre-impact Location	STAYED IN LANE

DRIVER Factors

Age	27	Height	150	Weight	57
Gender					FEMALE-NOT PREG
Ejection					No EJECTION
Ejection Area					No EJECTION
Entrapment					Not ENTRAPPED

Restraint Factors

Restrain	None used/avail
AOPS	NO
Airbag Deployment	Not EQUIP/AVAIL
Airbag Deployment - 1 st Seat	Not EQUIP/AVAIL
Airbag Deployment - Oth Seat	Not EQUIP W/ OTH

Injuries

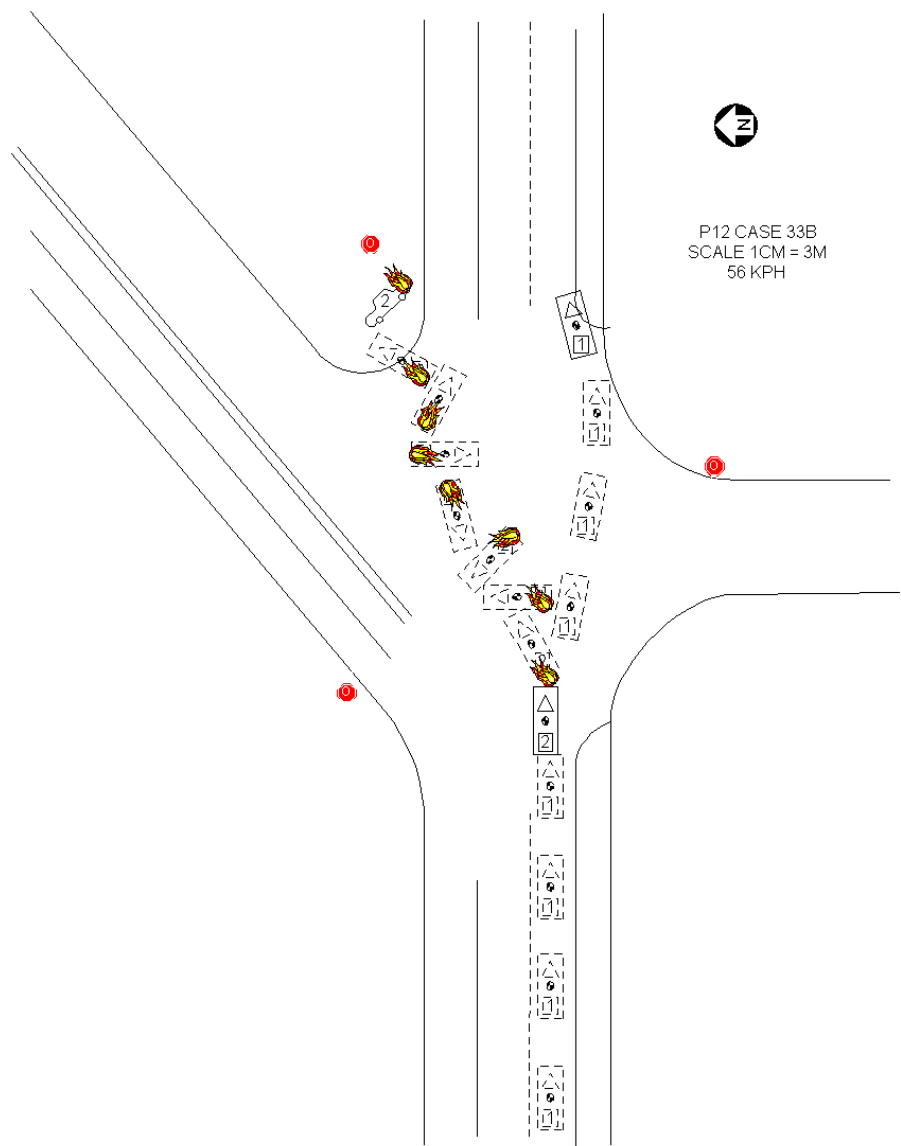
Occupant	1999-12-32-1-1
MAIS	1=Minor
Seat Position	Front left side

AIS Level	Injury Description	Contacts
1=Minor	Thoracic skin contusion	Sterring hub
1=Minor	Facial skin contusion	Steering rim

11 Case 1999-12-33

Summary:

Vehicles 1 and 2 were headed east on a 2 way, 2 lane, dry, asphalt roadway. Vehicle 2 was stopped and waiting to turn left while vehicle 1 was traveling behind vehicle 2. The crash happened after dark but under lighted conditions. The front of vehicle 1 contacted the rear of vehicle 2. After contact vehicle 2 burst into flames as it spun in a counter-clockwise direction. It then rolled to the right as it left the roadway and came to rest on the northeast curb area of the intersection. The driver of vehicle 1 and the passenger of vehicle 2 sought medical attention at a local trauma center while the driver of vehicle 2 was fatally injured in the crash.



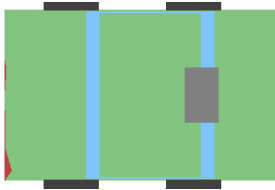
Vehicle	Body type	Make	Model	Year	Occ.#	Age	Occupant's sex	Maximum known occupant ais
1	MINIVAN	Chevrolet	Astrovan	1995	1	39	MALE	1=Minor
2	AUTO BASE PICKUP	Chevrolet	El Camino	1980	1	39	MALE	6=Maximum
2	AUTO BASE PICKUP	Chevrolet	El Camino	1980	2	39	FEMALE-NOT PREG	3=Serious

Occupant: 1999-12-33-1-1



Fire Information

Fire Occurrence	No fire
Fire Origin	No fire
Location of Fuel Leakage	No fuel leakage
Type of Fuel Tank	Metallic
Fuel Tank Location	Forward of rear axle, left side
Fuel Cap Location	Left side, forward rear axle
Fuel Tank Damage	No damage
Fuel Type	Gasoline



Pre-Crash Environment

Traffic Flow	Not DIVIDED
Number of Travel Lanes	TWO
Roadway Alignment	STRAIGHT
Roadway Profile	LEVEL
Roadway Surface Type	ASPHALT
Roadway Surface Condition	DRY
Light Conditions	DARK/LIGHTED
Atmospheric Conditions	No ADVERSE COND
Relation to Intersection	INTERSECTION REL
Traffic Control Device	
Police Reported Alcohol Presence	ALCOHOL PRESENT
Alcohol Test (< 95 indicates BAC 0.xx)	22

Crash Severity

Nr. Quarter Turns	No rollover
Impact Speed	998
Total, Longitudal, and Lateral δV	15 -15 < 0.5 KMPH
Est. δV with sequence number	DELTA V CODED 1
CDC	12 F D E W 1
Damage (C1-C6)	10 2 2 0 0 3
Crush (L and D)	177 -11
Object Contacted 1	VEHICLE NO. 2
Object Contacted 2	0

NASS Weighting Factor

Weighting factor	37.455338785
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Rollover Characteristics

Number of Events	3
Rollover Initiation Type	No rollover
Location of Rollover Initiation	No rollover
Rollover Initiation Object Contacted	No rollover
Location on Vehicle where Principal Tripping Force was Applied	No rollover
Direction of Initial Roll	No rollover

Vehicle Factors

Make-Model	Chevrolet Astrovan
Year	1995
Class	PASSENGER CAR
Body Type	MINIVAN
Weight	172

Pre-Crash Driver Data

Accident Type	20
Pre-event Movement	GOING STRAIGHT
Critical Pre-crash Event	STOPPED
Attempted Avoidance Manuever	No AVOIDANCE
Pre-impact Stability	TRACKING
Pre-impact Location	STAYED IN LANE

DRIVER Factors

Age	39	Height	0	Weight	0
Gender					MALE
Ejection					No EJECTION
Ejection Area					No EJECTION
Entrapment					Not ENTRAPPED

Restraint Factors

Restrain	None used/avail
AOPS	YES-RES DET
Airbag Deployment	NONDEPLOYED
Airbag Deployment - 1 st Seat	NONDEPLOYED
Airbag Deployment - Oth Seat	Not EQUIP W/ OTH

Injuries

Occupant	1999-12-33-1-1
MAIS	1=Minor
Seat Position	Front left side

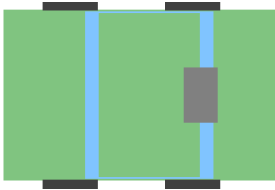
AIS Level	Injury Description	Contacts
1=Minor	Facial skin abrasion	Windshield
1=Minor	Facial skin abrasion	Windshield
1=Minor	792006	Unknown SOURCE

Occupant: 1999-12-33-2-1



Fire Information

Fire Occurence	No data
Fire Origin	No data
Location of Fuel Leakage	No data
Type of Fuel Tank	No data
Fuel Tank Location	No data
Fuel Cap Location	No data
Fuel Tank Damage	No data
Fuel Type	No data



Crash Severity

Nr. Quarter Turns	No rollover
Impact Speed	998
Total, Longitudal, and Lateral δV	17 17 < 0.5 KMPH
Est. δV with sequence number	DELTA V CODED 1
CDC	No data No data No data No data
Damage (C1-C6)	No data No data No data No data
Crush (L and D)	No data No data
Object Contacted 1	No data
Object Contacted 2	No data

NASS Weighting Factor

Weighting factor	37.455338785
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Rollover Characteristics

Number of Events	3
Rollover Initiation Type	No rollover
Location of Rollover Initiation	No rollover
Rollover Initiation Object	No rollover
Contacted	
Location on Vehicle where Principal Tripping Force was Applied	No rollover
Direction of Initial Roll	No rollover

Pre-Crash Environment

Traffic Flow	Not DIVIDED
Number of Travel Lanes	TWO
Roadway Alignment	STRAIGHT
Roadway Profile	LEVEL
Roadway Surface Type	ASPHALT
Roadway Surface Condition	DRY
Light Conditions	DARK/LIGHTED
Atmospheric Conditions	No ADVERSE COND
Relation to Intersection	INTERSECTION REL
Traffic Control Device	
Police Reported Alcohol Presence	No ALCOHOL
Alcohol Test (< 95 indicates BAC 0.xx)	0

Vehicle Factors

Make-Model	Chevrolet El Camino
Year	1980
Class	PASSENGER CAR
Body Type	AUTO BASE PICKUP
Weight	145

Pre-Crash Driver Data

Accident Type	21
Pre-event Movement	STOPPED IN LANE
Critical Pre-crash Event	Same DIR-HISPEED
Attempted Avoidance Maneuver	No DRIVER
Pre-impact Stability	TRACKING
Pre-impact Location	STAYED IN LANE

DRIVER Factors

Age	39	Height	165	Weight	0
Gender			MALE		
Ejection			No EJECTION		
Ejection Area			No EJECTION		
Entrapment			JAMMED DOOR/FIRE		

Restraint Factors

Restrain	None used/avail
AOPS	NO
Airbag Deployment	Not EQUIP/AVAIL
Airbag Deployment - 1 st Seat	Not EQUIP/AVAIL
Airbag Deployment - Oth Seat	Not EQUIP W/ OTH

Injuries

Occupant	1999-12-33-2-1
MAIS	6=Maximum
Seat Position	Front left side

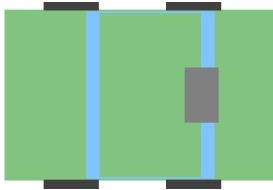
AIS Level	Injury Description	Contacts
6=Maximum	Burn, 2nd or 3rd degree, >905=Critical	Inhalation injury, severe (CO level >40 mg)

Occupant: 1999-12-33-2-2



Fire Information

Fire Occurrence	No data
Fire Origin	No data
Location of Fuel Leakage	No data
Type of Fuel Tank	No data
Fuel Tank Location	No data
Fuel Cap Location	No data
Fuel Tank Damage	No data
Fuel Type	No data



Crash Severity

Nr. Quarter Turns	No rollover
Impact Speed	998
Total, Longitudal, and Lateral δV	17 17 < 0.5 KMPH
Est. δV with sequence number	DELTA V CODED 1
CDC	No data No data No data No data
Damage (C1-C6)	No data No data No data No data
Crush (L and D)	No data No data
Object Contacted 1	No data
Object Contacted 2	No data

NASS Weighting Factor

Weighting factor	37.455338785
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Rollover Characteristics

Number of Events	3
Rollover Initiation Type	No rollover
Location of Rollover Initiation	No rollover
Rollover Initiation Object Contacted	No rollover
Location on Vehicle where Principal Tripping Force was Applied	No rollover
Direction of Initial Roll	No rollover

Pre-Crash Environment

Traffic Flow	Not DIVIDED
Number of Travel Lanes	TWO
Roadway Alignment	STRAIGHT
Roadway Profile	LEVEL
Roadway Surface Type	ASPHALT
Roadway Surface Condition	DRY
Light Conditions	DARK/LIGHTED
Atmospheric Conditions	No ADVERSE COND
Relation to Intersection	INTERSECTION REL
Traffic Control Device	
Police Reported Alcohol Presence	No ALCOHOL
Alcohol Test (< 95 indicates BAC 0.xx)	0

Vehicle Factors

Make-Model	Chevrolet El Camino
Year	1980
Class	PASSENGER CAR
Body Type	AUTO BASE PICKUP
Weight	145

Pre-Crash Driver Data

Accident Type	21
Pre-event Movement	STOPPED IN LANE
Critical Pre-crash Event	Same DIR-HISPEED
Attempted Avoidance Manuever	No DRIVER
Pre-impact Stability	TRACKING
Pre-impact Location	STAYED IN LANE

PASSENGER Factors

Age	39	Height	0	Weight	49
Gender				FEMALE-NOT PREG	
Ejection				No EJECTION	
Ejection Area				No EJECTION	
Entrapment				Not ENTRAPPED	

Restraint Factors

Restrain	None used/avail
AOPS	NO
Airbag Deployment	Not EQUIP/AVAIL
Airbag Deployment - 1 st Seat	Not EQUIP/AVAIL
Airbag Deployment - Oth Seat	Not EQUIP W/ OTH

Injuries

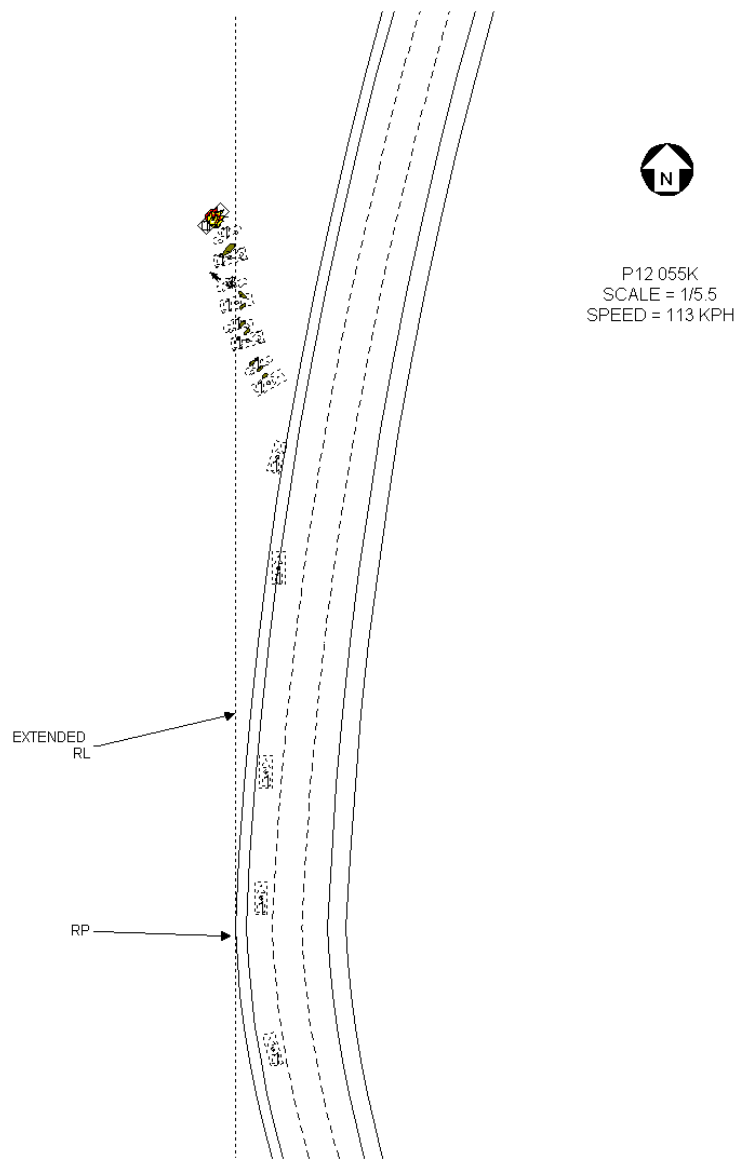
Occupant	1999-12-33-2-2
MAIS	3=Serious
Seat Position	Front right side

AIS Level	Injury Description	Contacts
1=Minor	Facial skin contusion	Unknown SOURCE
1=Minor	Facial skin laceration, minor	Unknown SOURCE
1=Minor	297402	Unknown SOURCE
2=Moderate	Awake on admission, prior unconscious, length NFS	Unknown SOURCE
3=Serious	Burn, 2nd or 3rd degree, 102=Moderate	2-3 rib fractures with stable chest
Unknown SOURCE		

12 Case 1999-12-55

Summary:

Vehicle one was heading north, in the outside fast lane, on a one way three lane dry asphalt expressway. The vehicle left the road on the left side of the road. The vehicle began to roll left a total of eight quarter turns before final rest on its wheels. At final rest the vehicle caught fire and was burnt completely. The only occupant of the vehicle was ejected out the drivers side door. The occupant was transported to a local trauma center for medical treatment sustained in the crash.



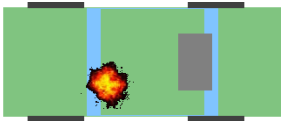
Vehicle	Body type	Make	Model	Year	Occ.#	Age	Occupant's sex	Maximum known occupant ais
1	3DR/2DR HATCHBAK	Ford	Escort/EXP	1991	1	18	FEMALE-NOT PREG	2=Moderate

Occupant: 1999-12-55-1-1



Fire Information

Fire Occurence	Major fire
Fire Origin	Instrument panel
Location of Fuel Leakage	No fuel leakage
Type of Fuel Tank	Metallic
Fuel Tank Location	Forward of rear axle, centered
Fuel Cap Location	Left side, behind rear axle
Fuel Tank Damage	No damage
Fuel Type	Gasoline



Pre-Crash Environment

Traffic Flow	ONE WAY
Number of Travel Lanes	THREE
Roadway Alignment	CURVE RIGHT
Roadway Profile	LEVEL
Roadway Surface Type	ASPHALT
Roadway Surface Condition	DRY
Light Conditions	DAYLIGHT
Atmospheric Conditions	No ADVERSE COND
Relation to Intersection	NONINTER/NONJUNC
Traffic Control Device	
Police Reported Alcohol Presence	No ALCOHOL
Alcohol Test (< 95 indicates BAC 0.xx)	0

Crash Severity

Nr. Quarter Turns	8 QUARTER TURNS
Impact Speed	< 0.5KMPH
Total, Longitudal, and Lateral δV	< 0.5 KMPH < 0.5 KMPH < 0.5 KMPH
Est. δV with sequence number	MODERATE 1
CDC	0 T D D O 2
Damage (C1-C6)	0 0 0 0 0
Crush (L and D)	0 0
Object Contacted 1	ROLLOVER-OVERTURN
Object Contacted 2	0

NASS Weighting Factor

Weighting factor	73.517976715
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Rollover Characteristics

Number of Events	2
Rollover Initiation Type	TRIP-OVER
Location of Rollover Initiation	ROADSIDE/MEDIAN
Rollover Initiation Object Contacted	GROUND
Location on Vehicle where Principal Tripping Force was Applied	WHEELS/TIRES
Direction of Initial Roll	ROLL LEFT

Vehicle Factors

Make-Model	Ford Escort/EXP
Year	1991
Class	PASSENGER CAR
Body Type	3DR/2DR HATCHBAK
Weight	104

Pre-Crash Driver Data

Accident Type	6
Pre-event Movement	NEGOTIATE CURVE
Critical Pre-crash Event	OFF EDGE-LEFT
Attempted Avoidance Manuever	No AVOIDANCE
Pre-impact Stability	TRACKING
Pre-impact Location	DEPARTED ROADWAY

DRIVER Factors

Age	18	Height	163	Weight	51
Gender					FEMALE-NOT PREG
Ejection					COMPLETE EJECT
Ejection Area					Left FRONT
Entrapment					Not ENTRAPPED

Restraint Factors

Restrain	None used/avail
AOPS	YES-RES DET
Airbag Deployment	Not EQUIP/AVAIL
Airbag Deployment - 1 st Seat	Not EQUIP/AVAIL
Airbag Deployment - Oth Seat	Not EQUIP W/ OTH

Injuries

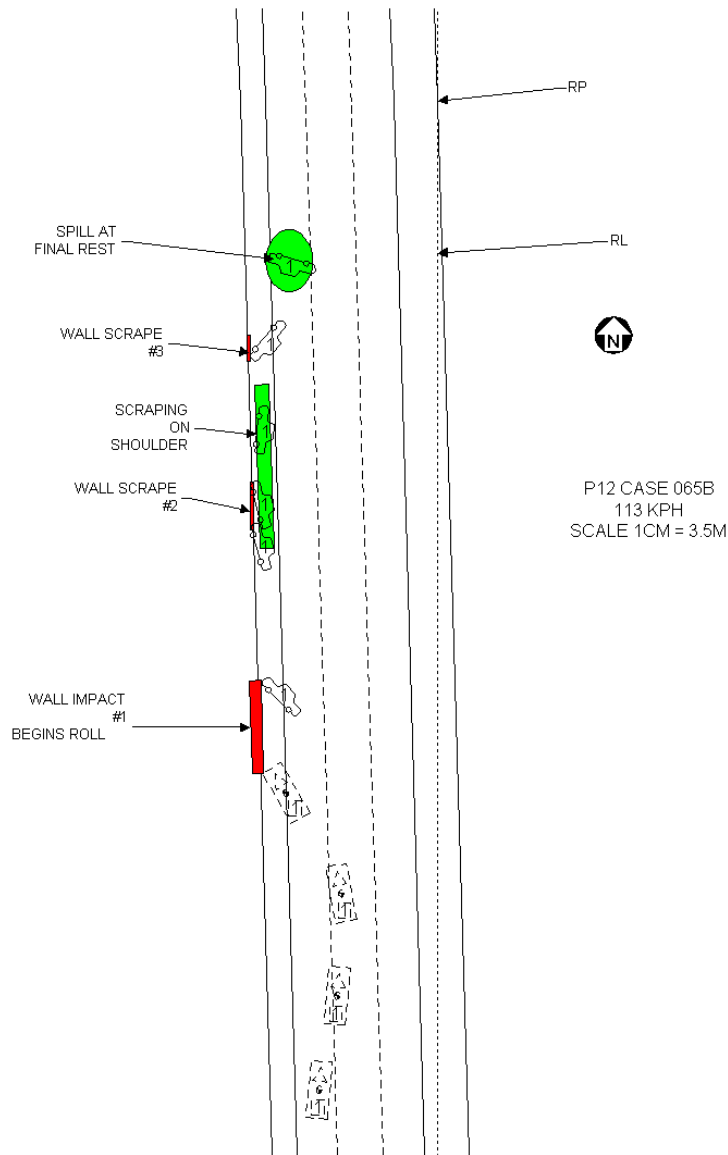
Occupant	1999-12-55-1-1
MAIS	2=Moderate
Seat Position	Front left side

AIS Level	Injury Description	Contacts
2=Moderate	Carpus or metacarpus fracture	Ground
1=Minor	Abdominal skin abrasion	Left interior
1=Minor	Abdominal skin contusion	Left interior

13 Case 1999-12-65

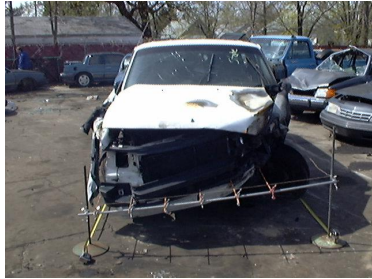
Summary:

Vehicle 1 was traveling north on a one way,3 lane, wet,asphalt roadway after dark. The driver lost control of the vehicle and left the roadway to the left striking a concrete wall and overturning. As the vehicle rolled to the right, the driver was partially ejected out of the right front window. The right side of the vehicle then came down on the upper half of the driver's body. The vehicle skidded to final rest on it's right side with the upper half of the driver's body underneath it . At final rest, the vehicle sustained a minor fuel system fire that was quickly extinguished by fire department personel. The driver was fatally wounded by the injuries sustained in this crash and the vehicle was towed due to the damage sustained in the crash.



Vehicle	Body type	Make	Model	Year	Occ.#	Age	Occupant's sex	Maximum known occupant ais
1	MINIVAN	Dodge	Caravan	1995	1	36	MALE	7=Unk. sev.

Occupant: 1999-12-65-1-1



Fire Information

Fire Occurrence	Minor fire
Fire Origin	Fuel tank
Location of Fuel Leakage	No fuel leakage
Type of Fuel Tank	Metallic
Fuel Tank Location	Forward of rear axle, centered
Fuel Cap Location	Left side, forward rear axle
Fuel Tank Damage	No damage
Fuel Type	Gasoline



Pre-Crash Environment

Traffic Flow	ONE WAY
Number of Travel Lanes	THREE
Roadway Alignment	CURVE LEFT
Roadway Profile	LEVEL
Roadway Surface Type	ASPHALT
Roadway Surface Condition	WET
Light Conditions	DARK
Atmospheric Conditions	RAIN
Relation to Intersection	NONINTER/NONJUNC
Traffic Control Device	
Police Reported Alcohol Presence	ALCOHOL PRESENT
Alcohol Test (< 95 indicates BAC 0.xx)	28

Crash Severity

Nr. Quarter Turns	1 QUARTER TURN
Impact Speed	998
Total, Longitudal, and Lateral δV	28 -21 18
Est. δV with sequence number	DELTA V CODED 1
CDC	11 F L E E 4
Damage (C1-C6)	47 23 18 10 17 11
Crush (L and D)	160 -71
Object Contacted 1	CONCRETE BARRIER
Object Contacted 2	ROLLOVER-OVERTURN

NASS Weighting Factor

Weighting factor	37.455338785
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Rollover Characteristics

Number of Events	3
Rollover Initiation Type	BOUNCE-OVER
Location of Rollover Initiation	ROADSIDE/MEDIAN
Rollover Initiation Object Contacted	CONCRETE BARRIER
Location on Vehicle where Principal Tripping Force was Applied	END PLANE
Direction of Initial Roll	ROLL RIGHT

Vehicle Factors

Make-Model	Dodge Caravan
Year	1995
Class	PASSENGER CAR
Body Type	MINIVAN
Weight	155

Pre-Crash Driver Data

Accident Type	7
Pre-event Movement	NEGOTIATE CURVE
Critical Pre-crash Event	TRAVEL TOO FAST
Attempted Avoidance Manuever	No DRIVER
Pre-impact Stability	TRACKING
Pre-impact Location	DEPARTED ROADWAY

DRIVER Factors

Age	36	Height	165	Weight	59
Gender					MALE
Ejection					PARTIAL EJECTION
Ejection Area					Right FRONT
Entrapment					Not ENTRAPPED

Restraint Factors

Restrain	None used/avail
AOPS	YES-RES DET
Airbag Deployment	BAG DEPLOYED
Airbag Deployment - 1 st Seat	DR
PAS BAG DEPLY	
Airbag Deployment - Oth Seat	Not EQUIP W/ OTH

Injuries

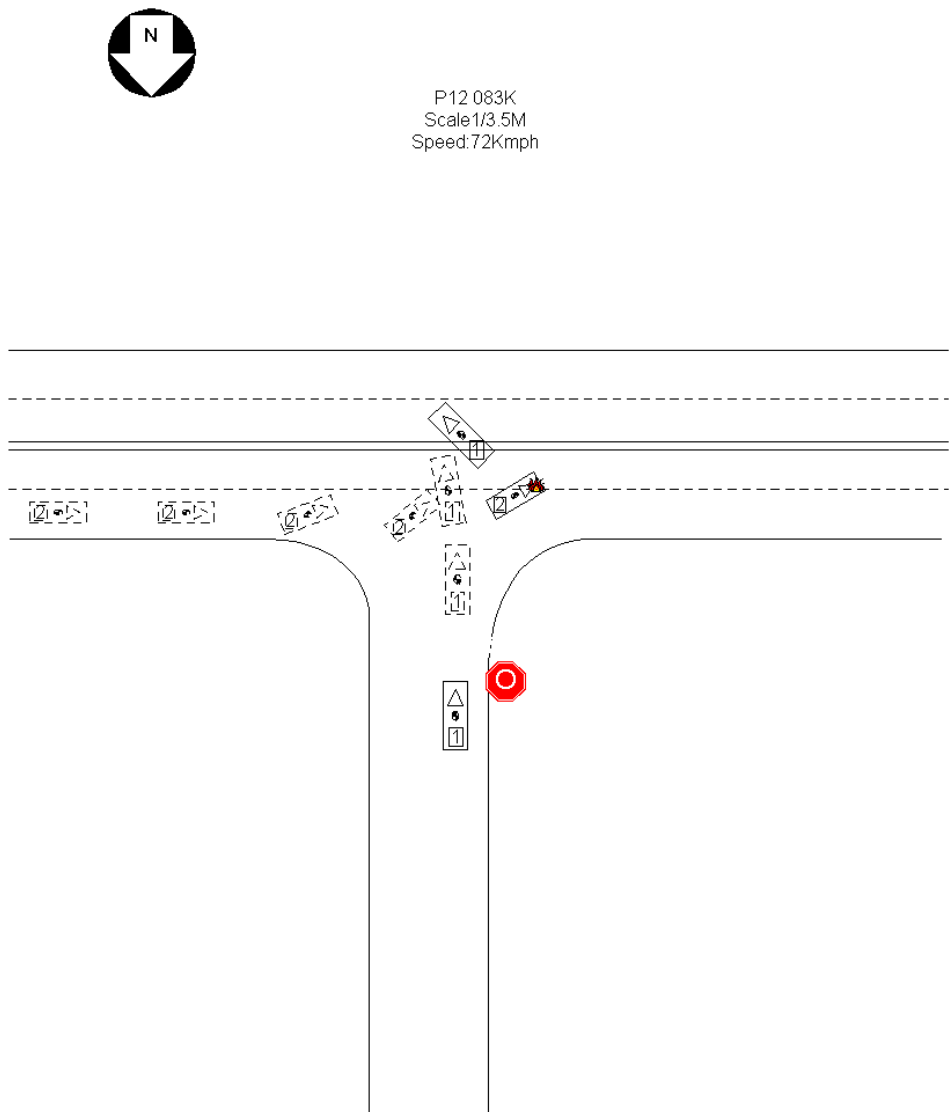
Occupant	1999-12-65-1-1
MAIS	7=Unk. sev.
Seat Position	Front left side

AIS Level	Injury Description	Contacts
7=Unk. sev.	Traumatic brain injury	Ground
7=Unk. sev.	315099	Ground

14 Case 1999-12-83

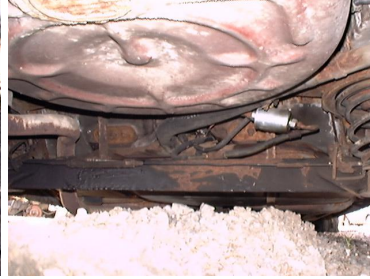
Summary:

Vehicle 1 was traveling south from a 2 lane asphalt roadway under dark/lighted, and rainy environmental conditions. Vehicle 2 was traveling west on a 4 lane, concrete roadway when the front of vehicle 2 contacted the left side of vehicle1. Vehicle 2, then caught fire under the hood and burned 2/3 of the vehicle. The vehicles were towed from the scene of the crash due to damage, and the driver of vehicle 1 fled the scene. Vehicle 2 occupants were transported to a trauma center for medical attention.



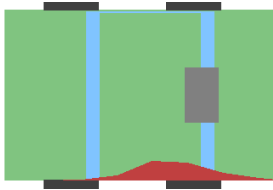
Vehicle	Body type	Make	Model	Year	Occ.#	Age	Occupant's sex	Maximum known occupant ais
1	4-DR SEDAN/HDTOP	Oldsmobile	Delta 88	1984	1	LESS THAN ONE YR	Unknown	0=None
2	2DR SEDAN/HT/CPE	Oldsmobile	Calais	1985	1	18	MALE	3=Serious
2	2DR SEDAN/HT/CPE	Oldsmobile	Calais	1985	2	19	MALE	1=Minor
2	2DR SEDAN/HT/CPE	Oldsmobile	Calais	1985	3	18	MALE	1=Minor

Occupant: 1999-12-83-1-1



Fire Information

Fire Occurrence	No fire
Fire Origin	No fire
Location of Fuel Leakage	No fuel leakage
Type of Fuel Tank	Metallic
Fuel Tank Location	Behind rear axle, centered
Fuel Cap Location	On back plane
Fuel Tank Damage	No damage
Fuel Type	Gasoline



Crash Severity

Nr. Quarter Turns	No rollover
Impact Speed	998
Total, Longitudal, and Lateral δV	24 -4 24
Est. δV with sequence number	DELTA V CODED 1
CDC	9 L Z E W 2
Damage (C1-C6)	0 7 28 26 10 3
Crush (L and D)	313 -113
Object Contacted 1	VEHICLE NO. 2
Object Contacted 2	0

NASS Weighting Factor

Weighting factor	43.219659039
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Rollover Characteristics

Number of Events	2
Rollover Initiation Type	No rollover
Location of Rollover Initiation	No rollover
Rollover Initiation Object	No rollover
Contacted	
Location on Vehicle where Principal Tripping Force was Applied	No rollover
Direction of Initial Roll	No rollover

Pre-Crash Environment

Traffic Flow	Not DIVIDED
Number of Travel Lanes	TWO
Roadway Alignment	STRAIGHT
Roadway Profile	LEVEL
Roadway Surface Type	ASPHALT
Roadway Surface Condition	WET
Light Conditions	DARK/LIGHTED
Atmospheric Conditions	RAIN
Relation to Intersection	INTERSECTION REL
Traffic Control Device	
Police Reported Alcohol Presence	Not REPORTED
Alcohol Test (< 95 indicates BAC 0.xx)	0

Vehicle Factors

Make-Model	Oldsmobile Delta 88
Year	1984
Class	PASSENGER CAR
Body Type	4-DR SEDAN/HDTOP
Weight	165

Pre-Crash Driver Data

Accident Type	82
Pre-event Movement	TURNING LEFT
Critical Pre-crash Event	TURN LEFT-INTERS
Attempted Avoidance Manuever	No DRIVER
Pre-impact Stability	TRACKING
Pre-impact Location	STAYED IN LANE

DRIVER Factors

Age	LESS THAN ONE YR	Height	0	Weight	0
Gender					
Ejection					Unknown
Ejection Area					No EJECTION
Entrapment					No EJECTION
					Not ENTRAPPED

Restraint Factors

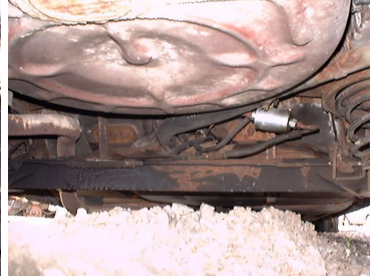
Restrain	None used/avail
AOPS	NO
Airbag Deployment	Not EQUIP/AVAIL
Airbag Deployment - 1 st Seat	Not EQUIP/AVAIL
Airbag Deployment - Oth Seat	Not EQUIP W/ OTH

Injuries

Occupant	1999-12-83-1-1
MAIS	0=None
Seat Position	Front left side

AIS Level	Injury Description	Contacts
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Occupant: 1999-12-83-2-1



Fire Information

Fire Occurrence	Minor fire
Fire Origin	Engine compartment
Location of Fuel Leakage	No fuel leakage
Type of Fuel Tank	Metallic
Fuel Tank Location	Forward of rear axle, right side
Fuel Cap Location	Right side, behind rear axle
Fuel Tank Damage	No damage
Fuel Type	Gasoline



Pre-Crash Environment

Traffic Flow	Not DIVIDED
Number of Travel Lanes	FOUR
Roadway Alignment	STRAIGHT
Roadway Profile	LEVEL
Roadway Surface Type	CONCRETE
Roadway Surface Condition	WET
Light Conditions	DARK/LIGHTED
Atmospheric Conditions	RAIN
Relation to Intersection	INTERSECTION REL
Traffic Control Device	
Police Reported Alcohol Presence	No ALCOHOL
Alcohol Test (< 95 indicates BAC 0.xx)	0

Crash Severity

Nr. Quarter Turns	No rollover
Impact Speed	998
Total, Longitudal, and Lateral δV	28 -21 -18
Est. δV with sequence number	DELTA V CODED 1
CDC	1 F D E W 3
Damage (C1-C6)	72 53 41 41 18 0
Crush (L and D)	140 0
Object Contacted 1	VEHICLE NO. 1
Object Contacted 2	0

NASS Weighting Factor

Weighting factor	43.219659039
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Rollover Characteristics

Number of Events	2
Rollover Initiation Type	No rollover
Location of Rollover Initiation	No rollover
Rollover Initiation Object Contacted	No rollover
Location on Vehicle where Principal Tripping Force was Applied	No rollover
Direction of Initial Roll	No rollover

Vehicle Factors

Make-Model	Oldsmobile Calais
Year	1985
Class	PASSENGER CAR
Body Type	2DR SEDAN/HT/CPE
Weight	117

Pre-Crash Driver Data

Accident Type	83
Pre-event Movement	GOING STRAIGHT
Critical Pre-crash Event	OPP DIR-OVR LEFT
Attempted Avoidance Manuever	BRAKE W/ LOCKUP
Pre-impact Stability	LAT SKID-CTR CLK
Pre-impact Location	STAYED IN LANE

DRIVER Factors

Age	18	Height	183	Weight	91
Gender			MALE		
Ejection			No EJECTION		
Ejection Area			No EJECTION		
Entrapment			Not ENTRAPPED		

Restraint Factors

Restrain	None used/avail
AOPS	NO
Airbag Deployment	Not EQUIP/AVAIL
Airbag Deployment - 1 st Seat	Not EQUIP/AVAIL
Airbag Deployment - Oth Seat	Not EQUIP W/ OTH

Injuries

Occupant	1999-12-83-2-1
MAIS	3=Serious
Seat Position	Front left side

AIS Level	Injury Description	Contacts
3=Serious	Pelvic fracture, open/displaced/comminuted	Steering rim
2=Moderate	Awake on admission, prior unconscious, length NFS	Windshield

Occupant: 1999-12-83-2-2



Fire Information

Fire Occurrence	Minor fire
Fire Origin	Engine compartment
Location of Fuel Leakage	No fuel leakage
Type of Fuel Tank	Metallic
Fuel Tank Location	Forward of rear axle, right side
Fuel Cap Location	Right side, behind rear axle
Fuel Tank Damage	No damage
Fuel Type	Gasoline



Pre-Crash Environment

Traffic Flow	Not DIVIDED
Number of Travel Lanes	FOUR
Roadway Alignment	STRAIGHT
Roadway Profile	LEVEL
Roadway Surface Type	CONCRETE
Roadway Surface Condition	WET
Light Conditions	DARK/LIGHTED
Atmospheric Conditions	RAIN
Relation to Intersection	INTERSECTION REL
Traffic Control Device	
Police Reported Alcohol Presence	No ALCOHOL
Alcohol Test (< 95 indicates BAC 0.xx)	0

Crash Severity

Nr. Quarter Turns	No rollover
Impact Speed	998
Total, Longitudal, and Lateral δV	28 -21 -18
Est. δV with sequence number	DELTA V CODED 1
CDC	1 F D E W 3
Damage (C1-C6)	72 53 41 41 18 0
Crush (L and D)	140 0
Object Contacted 1	VEHICLE NO. 1
Object Contacted 2	0

NASS Weighting Factor

Weighting factor	43.219659039
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Rollover Characteristics

Number of Events	2
Rollover Initiation Type	No rollover
Location of Rollover Initiation	No rollover
Rollover Initiation Object Contacted	No rollover
Location on Vehicle where Principal Tripping Force was Applied	No rollover
Direction of Initial Roll	No rollover

Vehicle Factors

Make-Model	Oldsmobile Calais
Year	1985
Class	PASSENGER CAR
Body Type	2DR SEDAN/HT/CPE
Weight	117

Pre-Crash Driver Data

Accident Type	83
Pre-event Movement	GOING STRAIGHT
Critical Pre-crash Event	OPP DIR-OVR LEFT
Attempted Avoidance Manuever	BRAKE W/ LOCKUP
Pre-impact Stability	LAT SKID-CTR CLK
Pre-impact Location	STAYED IN LANE

PASSENGER Factors

Age	19	Height	188	Weight	74
Gender			MALE		
Ejection			No EJECTION		
Ejection Area			No EJECTION		
Entrapment			Not ENTRAPPED		

Restraint Factors

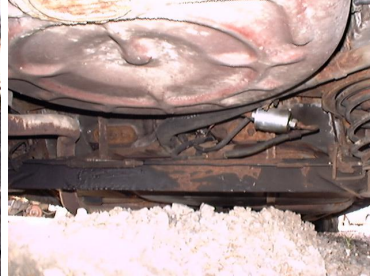
Restrain	Lap and shoulder
AOPS	NO
Airbag Deployment	Not EQUIP/AVAIL
Airbag Deployment - 1 st Seat	Not EQUIP/AVAIL
Airbag Deployment - Oth Seat	Not EQUIP W/ OTH

Injuries

Occupant	1999-12-83-2-2
MAIS	1=Minor
Seat Position	Front right side

AIS Level	Injury Description	Contacts
1=Minor	Leg skin contusion (hematoma)	Right panel
1=Minor	Acute cervical spine strain without fracture or dislocation	Other noncontact

Occupant: 1999-12-83-2-3



Fire Information

Fire Occurrence	Minor fire
Fire Origin	Engine compartment
Location of Fuel Leakage	No fuel leakage
Type of Fuel Tank	Metallic
Fuel Tank Location	Forward of rear axle, right side
Fuel Cap Location	Right side, behind rear axle
Fuel Tank Damage	No damage
Fuel Type	Gasoline



Pre-Crash Environment

Traffic Flow	Not DIVIDED
Number of Travel Lanes	FOUR
Roadway Alignment	STRAIGHT
Roadway Profile	LEVEL
Roadway Surface Type	CONCRETE
Roadway Surface Condition	WET
Light Conditions	DARK/LIGHTED
Atmospheric Conditions	RAIN
Relation to Intersection	INTERSECTION REL
Traffic Control Device	
Police Reported Alcohol Presence	No ALCOHOL
Alcohol Test (< 95 indicates BAC 0.xx)	0

Crash Severity

Nr. Quarter Turns	No rollover
Impact Speed	998
Total, Longitudal, and Lateral δV	28 -21 -18
Est. δV with sequence number	DELTA V CODED 1
CDC	1 F D E W 3
Damage (C1-C6)	72 53 41 41 18 0
Crush (L and D)	140 0
Object Contacted 1	VEHICLE NO. 1
Object Contacted 2	0

NASS Weighting Factor

Weighting factor	43.219659039
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Rollover Characteristics

Number of Events	2
Rollover Initiation Type	No rollover
Location of Rollover Initiation	No rollover
Rollover Initiation Object Contacted	No rollover
Location on Vehicle where Principal Tripping Force was Applied	No rollover
Direction of Initial Roll	No rollover

Vehicle Factors

Make-Model	Oldsmobile Calais
Year	1985
Class	PASSENGER CAR
Body Type	2DR SEDAN/HT/CPE
Weight	117

Pre-Crash Driver Data

Accident Type	83
Pre-event Movement	GOING STRAIGHT
Critical Pre-crash Event	OPP DIR-OVR LEFT
Attempted Avoidance Manuever	BRAKE W/ LOCKUP
Pre-impact Stability	LAT SKID-CTR CLK
Pre-impact Location	STAYED IN LANE

PASSENGER Factors

Age	18	Height	180	Weight	82
Gender					MALE
Ejection					No EJECTION
Ejection Area					No EJECTION
Entrapment					Not ENTRAPPED

Restraint Factors

Restrain	None used/avail
AOPS	NO
Airbag Deployment	Not EQUIP/AVAIL
Airbag Deployment - 1 st Seat	Not EQUIP/AVAIL
Airbag Deployment - Oth Seat	Not EQUIP W/ OTH

Injuries

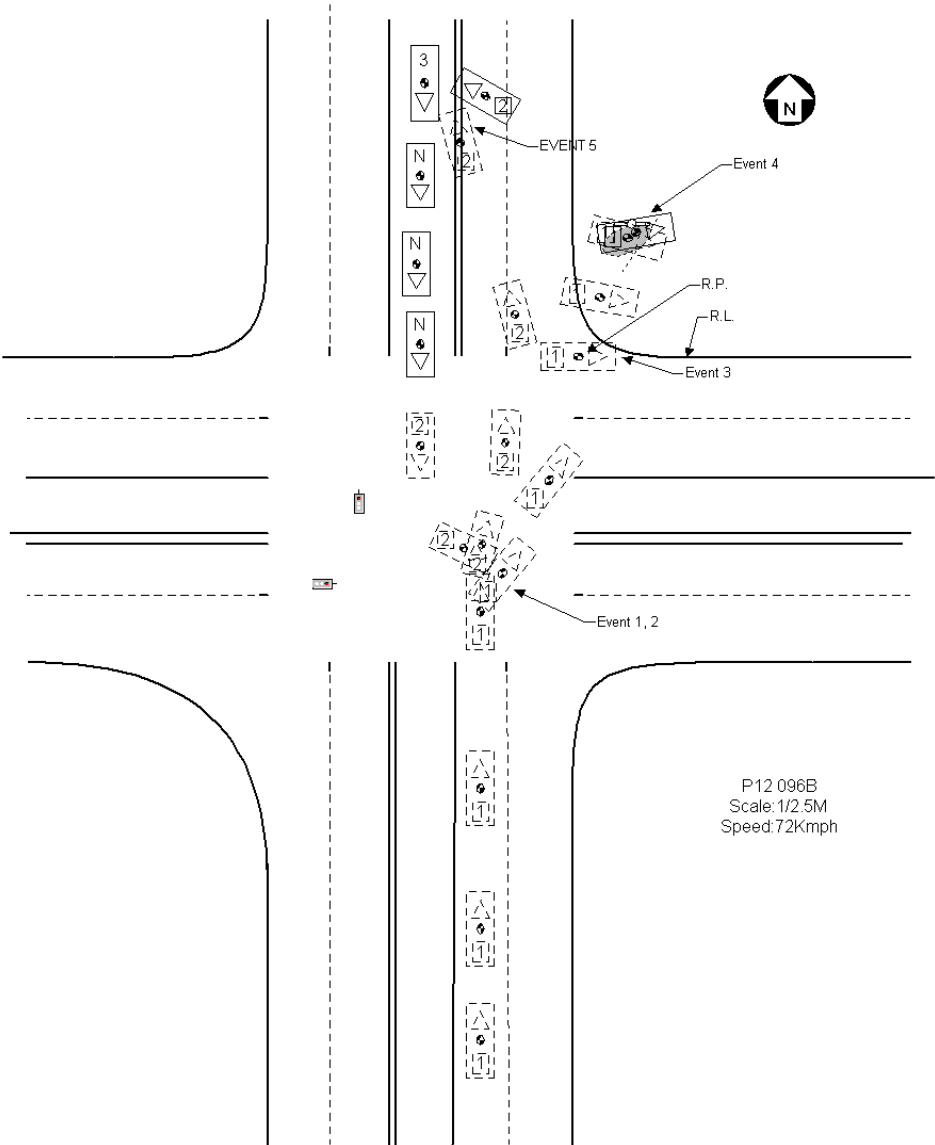
Occupant	1999-12-83-2-3
MAIS	1=Minor
Seat Position	Second right

AIS Level	Injury Description	Contacts
1=Minor	Acute cervical spine strain without fracture or dislocation	Other noncontact
1=Minor	Leg skin contusion (hematoma)	Seat, back

15 Case 1999-12-96

Summary:

Vehicle 1 was traveling north on a 5 lane, 2 way, concrete roadway during dry, daylight hours. Vehicle 2 and 3 were in the left turn lane in an opposite travel direction of vehicle 1. The front of vehicle 1 contacted the right side of vehicle 2, and then side slapped, vehicle 1 left side to vehicle 2 right side. Vehicle 1 continued ahead and left the right shoulder contacting the left side to a utility pole and coming to final rest. Vehicle 2 continued spinning counterclockwise in a northerly direction and contacted the frontal plane to vehicle 3's left side before coming to final rest. Vehicle 2 then began to burn with an origin in the engine compartment. The fire was minor being extinguished at the scene. Airbags deployed in vehicle 1, and rescue cut the right bag out to better service the injured. Vehicle 1 also sustained integrity loss and intrusion. All vehicles were towed from the scene of the crash due to damage, and all occupants were transported to medical facilities for treatment of injuries. The driver of vehicle 2 died from apparent internal injuries.



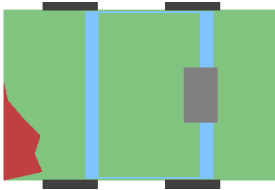
Vehicle	Body type	Make	Model	YearOcc	Age	Occupant's sex	Maximum known occupant ais
1	LARGE UTILITY	Chevrolet	Fullsize Blazer	1999	21	FEMALE-NOT PREG	1=Minor
1	LARGE UTILITY	Chevrolet	Fullsize Blazer	1999	21	FEMALE-NOT PREG	5=Critical
1	LARGE UTILITY	Chevrolet	Fullsize Blazer	1999	15	FEMALE-NOT PREG	3=Serious
1	LARGE UTILITY	Chevrolet	Fullsize Blazer	1999	9	FEMALE-NOT PREG	1=Minor
2	2DR SEDAN/HT/CPE	Chevrolet	Cavalier	1994	43	MALE	5=Critical
3	4-DR SEDAN/HDTOP	Chevrolet	Baretta/Corsica	1996	68	FEMALE-NOT PREG	1=Minor
3	4-DR SEDAN/HDTOP	Chevrolet	Baretta/Corsica	1996	94	FEMALE-NOT PREG	1=Minor

Occupant: 1999-12-96-1-1



Fire Information

Fire Occurence	No fire
Fire Origin	No fire
Location of Fuel Leakage	No fuel leakage
Type of Fuel Tank	Metallic
Fuel Tank Location	Forward of rear axle, left side
Fuel Cap Location	Left side, behind rear axle
Fuel Tank Damage	No damage
Fuel Type	Gasoline



Crash Severity

Nr. Quarter Turns	No rollover
Impact Speed	998
Total, Longitudal, and Lateral δV	30 -28 10
Est. δV with sequence number	DELTA V CODED 1
CDC	11 F Y E W 4
Damage (C1-C6)	57 46 54 29 7 0
Crush (L and D)	156 -29
Object Contacted 1	VEHICLE NO. 2
Object Contacted 2	LARGE POLE

NASS Weighting Factor

Weighting factor	72.663357244
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Rollover Characteristics

Number of Events	6
Rollover Initiation Type	No rollover
Location of Rollover Initiation	No rollover
Rollover Initiation Object Contacted	No rollover
Location on Vehicle where Principal Tripping Force was Applied	No rollover
Direction of Initial Roll	No rollover

Pre-Crash Environment

Traffic Flow	Not DIVIDED
Number of Travel Lanes	FIVE
Roadway Alignment	STRAIGHT
Roadway Profile	LEVEL
Roadway Surface Type	CONCRETE
Roadway Surface Condition	DRY
Light Conditions	DAYLIGHT
Atmospheric Conditions	No ADVERSE COND
Relation to Intersection	INTERSECTION REL
Traffic Control Device	
Police Reported Alcohol Presence	No ALCOHOL
Alcohol Test (< 95 indicates BAC 0.xx)	0

Vehicle Factors

Make-Model	Chevrolet Fullsize Blazer
Year	1999
Class	PASSENGER CAR
Body Type	LARGE UTILITY
Weight	184

Pre-Crash Driver Data

Accident Type	69
Pre-event Movement	GOING STRAIGHT
Critical Pre-crash Event	CROSS OVER INTER
Attempted Avoidance Manuever	STEERING RIGHT
Pre-impact Stability	TRACKING
Pre-impact Location	Left TRAVEL LANE

DRIVER Factors

Age	21	Height	165	Weight	66
Gender					FEMALE-NOT PREG
Ejection					No EJECTION
Ejection Area					No EJECTION
Entrapment					Not ENTRAPPED

Restraint Factors

Restrain	None used/avail
AOPS	YES-RES DET
Airbag Deployment	BAG DEPLOYED
Airbag Deployment - 1 st Seat	DR
PAS BAG DEPLY	
Airbag Deployment - Oth Seat	Not EQUIP W/ OTH

Injuries

Occupant	1999-12-96-1-1
MAIS	1=Minor
Seat Position	Front left side

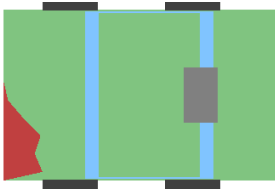
AIS Level	Injury Description	Contacts
1=Minor	Leg skin abrasion	Knee bolster
1=Minor	Leg skin contusion (hematoma)	Knee bolster

Occupant: 1999-12-96-1-2



Fire Information

Fire Occurence	No fire
Fire Origin	No fire
Location of Fuel Leakage	No fuel leakage
Type of Fuel Tank	Metallic
Fuel Tank Location	Forward of rear axle, left side
Fuel Cap Location	Left side, behind rear axle
Fuel Tank Damage	No damage
Fuel Type	Gasoline



Pre-Crash Environment

Traffic Flow	Not DIVIDED
Number of Travel Lanes	FIVE
Roadway Alignment	STRAIGHT
Roadway Profile	LEVEL
Roadway Surface Type	CONCRETE
Roadway Surface Condition	DRY
Light Conditions	DAYLIGHT
Atmospheric Conditions	No ADVERSE COND
Relation to Intersection	INTERSECTION REL
Traffic Control Device	
Police Reported Alcohol Presence	No ALCOHOL
Alcohol Test (< 95 indicates BAC 0.xx)	0

Crash Severity

Nr. Quarter Turns	No rollover
Impact Speed	998
Total, Longitudal, and Lateral δV	30 -28 10
Est. δV with sequence number	DELTA V CODED 1
CDC	11 F Y E W 4
Damage (C1-C6)	57 46 54 29 7 0
Crush (L and D)	156 -29
Object Contacted 1	VEHICLE NO. 2
Object Contacted 2	LARGE POLE

NASS Weighting Factor

Weighting factor	72.663357244
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Rollover Characteristics

Number of Events	6
Rollover Initiation Type	No rollover
Location of Rollover Initiation	No rollover
Rollover Initiation Object Contacted	No rollover
Location on Vehicle where Principal Tripping Force was Applied	No rollover
Direction of Initial Roll	No rollover

Vehicle Factors

Make-Model	Chevrolet Fullsize Blazer
Year	1999
Class	PASSENGER CAR
Body Type	LARGE UTILITY
Weight	184

Pre-Crash Driver Data

Accident Type	69
Pre-event Movement	GOING STRAIGHT
Critical Pre-crash Event	CROSS OVER INTER
Attempted Avoidance Manuever	STEERING RIGHT
Pre-impact Stability	TRACKING
Pre-impact Location	Left TRAVEL LANE

PASSENGER Factors

Age	21	Height	150	Weight	44
Gender					FEMALE-NOT PREG
Ejection					No EJECTION
Ejection Area					No EJECTION
Entrapment					JAMMED DOOR/FIRE

Restraint Factors

Restrain	None used/avail
AOPS	YES-RES DET
Airbag Deployment	BAG DEPLOYED
Airbag Deployment - 1 st Seat	DR
PAS BAG DEPLY	
Airbag Deployment - Oth Seat	Not EQUIP W/ OTH

Injuries

Occupant	1999-12-96-1-2
MAIS	5=Critical
Seat Position	Front right side

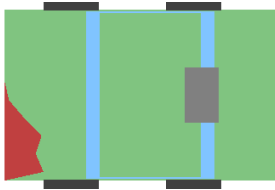
AIS Level	Injury Description	Contacts
1=Minor	Facial skin abrasion	Air bag-PS side
1=Minor	Facial skin abrasion	Air bag-PS side
1=Minor	Upper extremity skin abrasion	Air bag-PS side
5=Critical	Massive splenic injury (hilar disruption, tissue loss)	Transmiss lever
3=Serious	Femoral shaft fracture	Transmiss lever
2=Moderate	Clavicle fracture	Seat, back
3=Serious	Thoracic cavity injury NFS, with hemo-/pneumothorax	Seat, back

Occupant: 1999-12-96-1-3



Fire Information

Fire Occurrence	No fire
Fire Origin	No fire
Location of Fuel Leakage	No fuel leakage
Type of Fuel Tank	Metallic
Fuel Tank Location	Forward of rear axle, left side
Fuel Cap Location	Left side, behind rear axle
Fuel Tank Damage	No damage
Fuel Type	Gasoline



Pre-Crash Environment

Traffic Flow	Not DIVIDED
Number of Travel Lanes	FIVE
Roadway Alignment	STRAIGHT
Roadway Profile	LEVEL
Roadway Surface Type	CONCRETE
Roadway Surface Condition	DRY
Light Conditions	DAYLIGHT
Atmospheric Conditions	No ADVERSE COND
Relation to Intersection	INTERSECTION REL
Traffic Control Device	
Police Reported Alcohol Presence	No ALCOHOL
Alcohol Test (< 95 indicates BAC 0.xx)	0

Crash Severity

Nr. Quarter Turns	No rollover
Impact Speed	998
Total, Longitudal, and Lateral δV	30 -28 10
Est. δV with sequence number	DELTA V CODED 1
CDC	11 F Y E W 4
Damage (C1-C6)	57 46 54 29 7 0
Crush (L and D)	156 -29
Object Contacted 1	VEHICLE NO. 2
Object Contacted 2	LARGE POLE

NASS Weighting Factor

Weighting factor	72.663357244
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Rollover Characteristics

Number of Events	6
Rollover Initiation Type	No rollover
Location of Rollover Initiation	No rollover
Rollover Initiation Object Contacted	No rollover
Location on Vehicle where Principal Tripping Force was Applied	No rollover
Direction of Initial Roll	No rollover

Vehicle Factors

Make-Model	Chevrolet Fullsize Blazer
Year	1999
Class	PASSENGER CAR
Body Type	LARGE UTILITY
Weight	184

Pre-Crash Driver Data

Accident Type	69
Pre-event Movement	GOING STRAIGHT
Critical Pre-crash Event	CROSS OVER INTER
Attempted Avoidance Manuever	STEERING RIGHT
Pre-impact Stability	TRACKING
Pre-impact Location	Left TRAVEL LANE

PASSENGER Factors

Age	15	Height	168	Weight	61
Gender					FEMALE-NOT PREG
Ejection					No EJECTION
Ejection Area					No EJECTION
Entrapment					Not ENTRAPPED

Restraint Factors

Restrain	None used/avail
AOPS	YES-RES DET
Airbag Deployment	Not EQUIP/AVAIL
Airbag Deployment - 1 st Seat	DR
PAS BAG DEPLY	
Airbag Deployment - Oth Seat	Not EQUIP W/ OTH

Injuries

Occupant	1999-12-96-1-3
MAIS	3=Serious
Seat Position	Second left

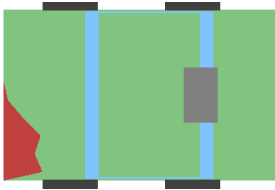
AIS Level	Injury Description	Contacts
1=Minor	Facial skin avulsion, superficial	Left window glas
1=Minor	Facial skin laceration, minor	Left window glas
1=Minor	Scalp laceration, minor	Left window glas
3=Serious	Femoral shaft fracture	Left interior
1=Minor	Facial skin laceration, minor	Seat, back
2=Moderate	Clavicle fracture	Left interior
1=Minor	Thoracic skin contusion	Seat, back
1=Minor	Leg skin contusion (hematoma)	Left interior
1=Minor	Scalp contusion	Unknown SOURCE
1=Minor	Facial skin contusion	Unknown SOURCE

Occupant: 1999-12-96-1-4



Fire Information

Fire Occurence	No fire
Fire Origin	No fire
Location of Fuel Leakage	No fuel leakage
Type of Fuel Tank	Metallic
Fuel Tank Location	Forward of rear axle, left side
Fuel Cap Location	Left side, behind rear axle
Fuel Tank Damage	No damage
Fuel Type	Gasoline



Pre-Crash Environment

Traffic Flow	Not DIVIDED
Number of Travel Lanes	FIVE
Roadway Alignment	STRAIGHT
Roadway Profile	LEVEL
Roadway Surface Type	CONCRETE
Roadway Surface Condition	DRY
Light Conditions	DAYLIGHT
Atmospheric Conditions	No ADVERSE COND
Relation to Intersection	INTERSECTION REL
Traffic Control Device	
Police Reported Alcohol Presence	No ALCOHOL
Alcohol Test (< 95 indicates BAC 0.xx)	0

Crash Severity

Nr. Quarter Turns	No rollover
Impact Speed	998
Total, Longitudal, and Lateral δV	30 -28 10
Est. δV with sequence number	DELTA V CODED 1
CDC	11 F Y E W 4
Damage (C1-C6)	57 46 54 29 7 0
Crush (L and D)	156 -29
Object Contacted 1	VEHICLE NO. 2
Object Contacted 2	LARGE POLE

NASS Weighting Factor

Weighting factor	72.663357244
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Rollover Characteristics

Number of Events	6
Rollover Initiation Type	No rollover
Location of Rollover Initiation	No rollover
Rollover Initiation Object Contacted	No rollover
Location on Vehicle where Principal Tripping Force was Applied	No rollover
Direction of Initial Roll	No rollover

Vehicle Factors

Make-Model	Chevrolet Fullsize Blazer
Year	1999
Class	PASSENGER CAR
Body Type	LARGE UTILITY
Weight	184

Pre-Crash Driver Data

Accident Type	69
Pre-event Movement	GOING STRAIGHT
Critical Pre-crash Event	CROSS OVER INTER
Attempted Avoidance Manuever	STEERING RIGHT
Pre-impact Stability	TRACKING
Pre-impact Location	Left TRAVEL LANE

PASSENGER Factors

Age	9	Height	147	Weight	43
Gender					FEMALE-NOT PREG
Ejection					No EJECTION
Ejection Area					No EJECTION
Entrapment					JAMMED DOOR/FIRE

Restraint Factors

Restrain	None used/avail
AOPS	YES-RES DET
Airbag Deployment	Not EQUIP/AVAIL
Airbag Deployment - 1 st Seat	DR
PAS BAG DEPLY	
Airbag Deployment - Oth Seat	Not EQUIP W/ OTH

Injuries

Occupant	1999-12-96-1-4
MAIS	1=Minor
Seat Position	Second right

AIS Level	Injury Description	Contacts
1=Minor	Facial skin laceration, minor	Seat, back
1=Minor	Leg skin abrasion	Seat, back
1=Minor	Facial skin abrasion	Seat, back
1=Minor	Awake on admission, NFS	Seat, back
1=Minor	Teeth avulsion	Seat, back

Occupant: 1999-12-96-2-1



Fire Information

Fire Occurrence	Minor fire
Fire Origin	Engine compart
Location of Fuel Leakage	No fuel leakage
Type of Fuel Tank	Metallic
Fuel Tank Location	Forward of rear axle, centered
Fuel Cap Location	Left side, behind rear axle
Fuel Tank Damage	No damage
Fuel Type	Gasoline



Pre-Crash Environment

Traffic Flow	Not DIVIDED
Number of Travel Lanes	FIVE
Roadway Alignment	STRAIGHT
Roadway Profile	LEVEL
Roadway Surface Type	CONCRETE
Roadway Surface Condition	DRY
Light Conditions	DAYLIGHT
Atmospheric Conditions	No ADVERSE COND
Relation to Intersection	INTERSECTION REL
Traffic Control Device	
Police Reported	Alcohol Not REPORTED
Presence	
Alcohol Test (< 95 indicates	0
BAC 0.xx)	

Crash Severity

Nr. Quarter Turns	No rollover
Impact Speed	998
Total, Longitudal, and Lateral δV	50 -25 -43
Est. δV with sequence number	DELTA V CODED 1
CDC	82 R F E W 4
Damage (C1-C6)	0 0 3 40 41 36
Crush (L and D)	245 126
Object Contacted 1	VEHICLE NO. 1
Object Contacted 2	VEHICLE NO. 3

NASS Weighting Factor

Weighting factor	72.663357244
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Rollover Characteristics

Number of Events	6
Rollover Initiation Type	No rollover
Location of Rollover Initiation	No rollover
Rollover Initiation Object Contacted	No rollover
Location on Vehicle where Principal Tripping Force was Applied	No rollover
Direction of Initial Roll	No rollover

Vehicle Factors

Make-Model	Chevrolet Cavalier
Year	1994
Class	PASSENGER CAR
Body Type	2DR SEDAN/HT/CPE
Weight	114

Pre-Crash Driver Data

Accident Type	68
Pre-event Movement	TURNING LEFT
Critical Pre-crash Event	TURN LEFT-INTERS
Attempted Avoidance Maneuver	No DRIVER
Pre-impact Stability	TRACKING
Pre-impact Location	STAYED IN LANE

DRIVER Factors

Age	43	Height	173	Weight	79
Gender			MALE		
Ejection			No EJECTION		
Ejection Area			No EJECTION		
Entrapment			Not ENTRAPPED		

Restraint Factors

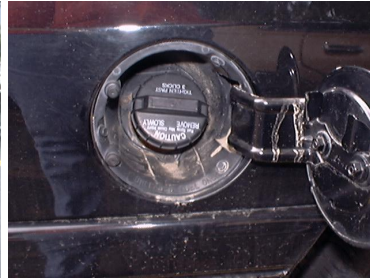
Restrain	None used/avail
AOPS	YES-RES DET
Airbag Deployment	Not EQUIP/AVAIL
Airbag Deployment - 1 st Seat	Not EQUIP/AVAIL
Airbag Deployment - Oth Seat	Not EQUIP W/ OTH

Injuries

Occupant	1999-12-96-2-1
MAIS	5=Critical
Seat Position	Front left side

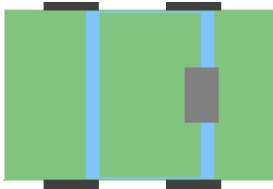
AIS Level	Injury Description	Contacts
2=Moderate	Cervical fracture without cord injury +/- dislocation NFS	Belt webb/buckle
3=Serious	Thoracic cavity injury NFS, with hemo-/pneumothorax	Belt webb/buckle
1=Minor	Facial skin contusion	Steering rim
1=Minor	Thoracic skin abrasion	Belt webb/buckle
1=Minor	Upper extremity skin abrasion	Belt webb/buckle
1=Minor	Abdominal skin abrasion	Belt webb/buckle
1=Minor	Leg skin contusion (hematoma)	Transmiss lever
1=Minor	Thoracic skin contusion	Belt webb/buckle
1=Minor	Upper extremity skin contusion	Belt webb/buckle
1=Minor	Upper extremity skin abrasion	Steering rim
1=Minor	Upper extremity skin abrasion	Transmiss lever
1=Minor	Upper extremity skin contusion	Transmiss lever
1=Minor	Abdominal skin laceration, minor	Belt webb/buckle
1=Minor	Leg skin abrasion	Left apnel
1=Minor	Leg skin contusion (hematoma)	Floor
2=Moderate	Metatarsal or tarsal fracture	Floor
3=Serious	Myocardial contusion NFS	Belt webb/buckle
2=Moderate	Pericardial laceration (puncture)	Belt webb/buckle
5=Critical	Intraventricular or intra-atrial septal laceration/rupture	Belt webb/buckle
3=Serious	Myocardial laceration NFS	Belt webb/buckle
2=Moderate	Hepatic laceration, minor (<3cms deep, EBL<202=Moderate)	Sternal fracture
Belt webb/buckle		

Occupant: 1999-12-96-3-1



Fire Information

Fire Occurrence	No fire
Fire Origin	No fire
Location of Fuel Leakage	No fuel leakage
Type of Fuel Tank	Metallic
Fuel Tank Location	Forward of rear axle, right side
Fuel Cap Location	Right side, behind rear axle
Fuel Tank Damage	No damage
Fuel Type	Gasoline



Pre-Crash Environment

Traffic Flow	Not DIVIDED
Number of Travel Lanes	FIVE
Roadway Alignment	STRAIGHT
Roadway Profile	LEVEL
Roadway Surface Type	CONCRETE
Roadway Surface Condition	DRY
Light Conditions	DAYLIGHT
Atmospheric Conditions	No ADVERSE COND
Relation to Intersection	INTERSECTION REL
Traffic Control Device	
Police Reported Alcohol Presence	No ALCOHOL
Alcohol Test (< 95 indicates BAC 0.xx)	0

Vehicle Factors

Make-Model	Chevrolet Barchetta/Corsica
Year	1996
Class	PASSENGER CAR
Body Type	4-DR SEDAN/HDTOP
Weight	124

Crash Severity

Nr. Quarter Turns	No rollover
Impact Speed	< 0.5KMPH
Total, Longitudal, and Lateral δV	< 0.5 KMPH < 0.5 KMPH < 0.5 KMPH
Est. δV with sequence number	DELTA V CODED 5
CDC	0 L 9 9 9 0
Damage (C1-C6)	0 0 0 0 0 0
Crush (L and D)	0 0
Object Contacted 1	VEHICLE NO. 2
Object Contacted 2	0

Pre-Crash Driver Data

Accident Type	98
Pre-event Movement	GOING STRAIGHT
Critical Pre-crash Event	OPP DIR-OVR LEFT
Attempted Avoidance Manuever	No AVOIDANCE
Pre-impact Stability	TRACKING
Pre-impact Location	STAYED IN LANE

NASS Weighting Factor

Weighting factor	72.663357244
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DRIVER Factors

Rollover Characteristics

Number of Events	6
Rollover Initiation Type	No rollover
Location of Rollover Initiation	No rollover
Rollover Initiation Object Contacted	No rollover
Location on Vehicle where Principal Tripping Force was Applied	No rollover
Direction of Initial Roll	No rollover

Age	68	Height	173	Weight	73
Gender					FEMALE-NOT PREG
Ejection					No EJECTION
Ejection Area					No EJECTION
Entrapment					Not ENTRAPPED

Restraint Factors

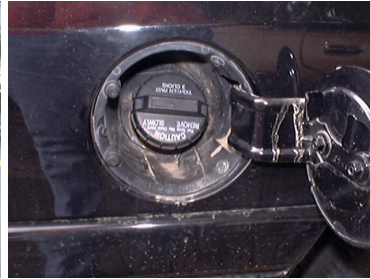
Restrain	None used/avail
AOPS	YES-RES DET
Airbag Deployment	NONDEPLOYED
Airbag Deployment - 1 st Seat	NONDEPLOYED
Airbag Deployment - Oth Seat	Not EQUIP W/ OTH

Injuries

Occupant	1999-12-96-3-1
MAIS	1=Minor
Seat Position	Front left side

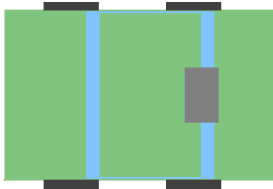
AIS Level	Injury Description	Contacts
1=Minor	Scalp contusion	Head restraint

Occupant: 1999-12-96-3-2



Fire Information

Fire Occurrence	No fire
Fire Origin	No fire
Location of Fuel Leakage	No fuel leakage
Type of Fuel Tank	Metallic
Fuel Tank Location	Forward of rear axle, right side
Fuel Cap Location	Right side, behind rear axle
Fuel Tank Damage	No damage
Fuel Type	Gasoline



Pre-Crash Environment

Traffic Flow	Not DIVIDED
Number of Travel Lanes	FIVE
Roadway Alignment	STRAIGHT
Roadway Profile	LEVEL
Roadway Surface Type	CONCRETE
Roadway Surface Condition	DRY
Light Conditions	DAYLIGHT
Atmospheric Conditions	No ADVERSE COND
Relation to Intersection	INTERSECTION REL
Traffic Control Device	
Police Reported Alcohol Presence	No ALCOHOL
Alcohol Test (< 95 indicates BAC 0.xx)	0

Vehicle Factors

Make-Model	Chevrolet Barchetta/Corsica
Year	1996
Class	PASSENGER CAR
Body Type	4-DR SEDAN/HDTOP
Weight	124

Crash Severity

Nr. Quarter Turns	No rollover
Impact Speed	< 0.5KMPH
Total, Longitudal, and Lateral δV	< 0.5 KMPH < 0.5 KMPH < 0.5 KMPH
Est. δV with sequence number	DELTA V CODED 5
CDC	0 L 9 9 9 0
Damage (C1-C6)	0 0 0 0 0
Crush (L and D)	0 0
Object Contacted 1	VEHICLE NO. 2
Object Contacted 2	0

Pre-Crash Driver Data

Accident Type	98
Pre-event Movement	GOING STRAIGHT
Critical Pre-crash Event	OPP DIR-OVR LEFT
Attempted Avoidance Manuever	No AVOIDANCE
Pre-impact Stability	TRACKING
Pre-impact Location	STAYED IN LANE

NASS Weighting Factor

Weighting factor	72.663357244
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PASSENGER Factors

Rollover Characteristics

Number of Events	6
Rollover Initiation Type	No rollover
Location of Rollover Initiation	No rollover
Rollover Initiation Object Contacted	No rollover
Location on Vehicle where Principal Tripping Force was Applied	No rollover
Direction of Initial Roll	No rollover

Age	94	Height	142	Weight	41
Gender					FEMALE-NOT PREG
Ejection					No EJECTION
Ejection Area					No EJECTION
Entrapment					Not ENTRAPPED

Restraint Factors

Restrain	None used/avail
AOPS	YES-RES DET
Airbag Deployment	NONDEPLOYED
Airbag Deployment - 1 st Seat	NONDEPLOYED
Airbag Deployment - Oth Seat	Not EQUIP W/ OTH

Injuries

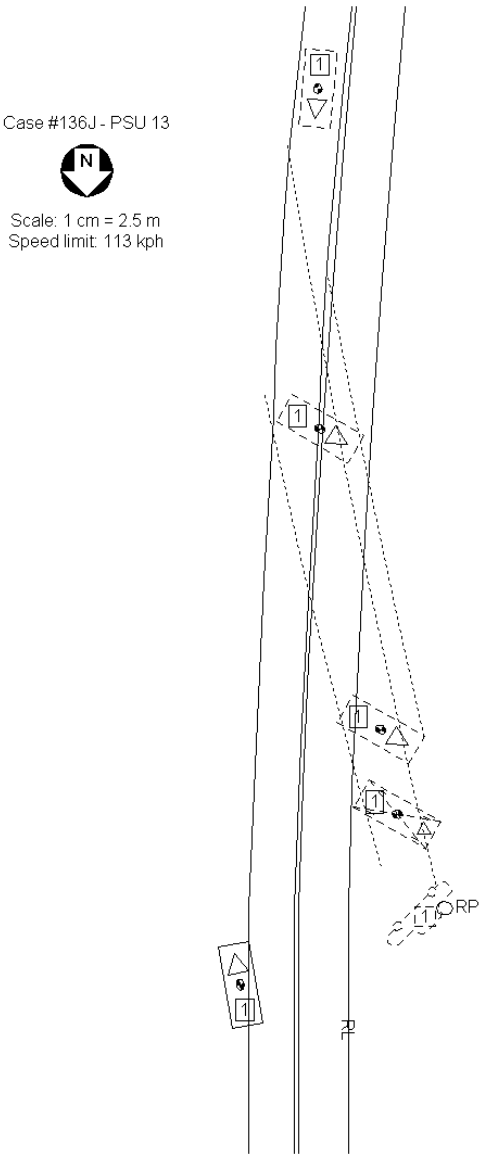
Occupant	1999-12-96-3-2
MAIS	1=Minor
Seat Position	Front right side

AIS Level	Injury Description	Contacts
1=Minor	Thoracic skin contusion	Belt webb/buckle

16 Case 1999-13-136

Summary:

Vehicle 1 was travelling southbound on a dry, 2-lane, 2-way, asphalt road at dark. V1 swerved to avoid an animal that entered the road and lost control. V1 went off the road to the left, rolled over an indeterminate number of times, and impacted a tree with the hood while on it's right side. V1 then rolled back onto it's wheels and spun it's way across the road. V1 was towed from the scene and severely damaged. The driver of V1 was unrestrained, completely ejected out the left front door, which came open during the crash, and sustained moderate injuries. The passenger was restrained and sustained minor injuries.



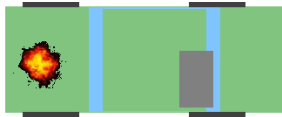
Vehicle	Body type	Make	Model	Year	Occ.#	Age	Occupant's sex	Maximum known occupant ais
1	MINIVAN	Plymouth	Voyager Minivan	1998	1	20	MALE	2=Moderate
1	MINIVAN	Plymouth	Voyager Minivan	1998	2	18	FEMALE-NOT PREG	1=Minor

Occupant: 1999-13-136-1-1



Fire Information

Fire Occurrence	Minor fire
Fire Origin	Engine compartment
Location of Fuel Leakage	No fuel leakage
Type of Fuel Tank	Non-metallic
Fuel Tank Location	Forward of rear axle, left side
Fuel Cap Location	Left side, forward rear axle
Fuel Tank Damage	No damage
Fuel Type	Gasoline



Crash Severity

Nr. Quarter Turns	No rollover
Impact Speed	< 0.5KMPH
Total, Longitudal, and Lateral δV	< 0.5 KMPH < 0.5 KMPH < 0.5 KMPH
Est. δV with sequence number	MODERATE 2
CDC	0 T F D W 6
Damage (C1-C6)	0 0 0 0 0 0
Crush (L and D)	0 0
Object Contacted 1	LARGE TREE
Object Contacted 2	ROLLOVER-OVERTURN

NASS Weighting Factor

Weighting factor	84.157420189
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Rollover Characteristics

Number of Events	3
Rollover Initiation Type	No rollover
Location of Rollover Initiation	No rollover
Rollover Initiation Object Contacted	No rollover
Location on Vehicle where Principal Tripping Force was Applied	No rollover
Direction of Initial Roll	No rollover

Pre-Crash Environment

Traffic Flow	Not DIVIDED
Number of Travel Lanes	TWO
Roadway Alignment	CURVE RIGHT
Roadway Profile	LEVEL
Roadway Surface Type	ASPHALT
Roadway Surface Condition	DRY
Light Conditions	DARK
Atmospheric Conditions	No ADVERSE COND
Relation to Intersection	NONINTER/NONJUNC
Traffic Control Device	
Police Reported Alcohol Presence	ALCOHOL PRESENT
Alcohol Test (< 95 indicates BAC 0.xx)	0

Vehicle Factors

Make-Model	Plymouth Voyager Minivan
Year	1998
Class	PASSENGER CAR
Body Type	MINIVAN
Weight	175

Pre-Crash Driver Data

Accident Type	8
Pre-event Movement	NEGOTIATE CURVE
Critical Pre-crash Event	ANIMAL IN ROAD
Attempted Avoidance Manuever	BRAKE+STEER LEFT
Pre-impact Stability	LONGITUDINAL SKID
Pre-impact Location	DEPARTED ROADWAY

DRIVER Factors

Age	20	Height	185	Weight	86
Gender			MALE		
Ejection			COMPLETE EJECT		
Ejection Area			Left FRONT		
Entrapment			Not ENTRAPPED		

Restraint Factors

Restrain	None used/avail
AOPS	YES-RES DET
Airbag Deployment	BAG DEPLOYED
Airbag Deployment - 1 st Seat	DR
PAS BAG DEPLY	
Airbag Deployment - Oth Seat	Not EQUIP W/ OTH

Injuries

Occupant	1999-13-136-1-1
MAIS	2=Moderate
Seat Position	Front left side

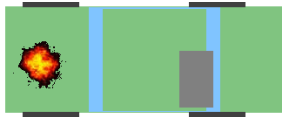
AIS Level	Injury Description	Contacts
1=Minor	Single rib fracture	Left hardware
2=Moderate	Thoracic disc injury	Ground
	NFS	

Occupant: 1999-13-136-1-2



Fire Information

Fire Occurrence	Minor fire
Fire Origin	Engine compartment
Location of Fuel Leakage	No fuel leakage
Type of Fuel Tank	Non-metallic
Fuel Tank Location	Forward of rear axle, left side
Fuel Cap Location	Left side, forward rear axle
Fuel Tank Damage	No damage
Fuel Type	Gasoline



Crash Severity

Nr. Quarter Turns	No rollover
Impact Speed	< 0.5KMPH
Total, Longitudal, and Lateral δV	< 0.5 KMPH < 0.5 KMPH < 0.5 KMPH
Est. δV with sequence number	MODERATE 2
CDC	0 T F D W 6
Damage (C1-C6)	0 0 0 0 0 0
Crush (L and D)	0 0
Object Contacted 1	LARGE TREE
Object Contacted 2	ROLLOVER-OVERTURN

NASS Weighting Factor

Weighting factor	84.157420189
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Rollover Characteristics

Number of Events	3
Rollover Initiation Type	No rollover
Location of Rollover Initiation	No rollover
Rollover Initiation Object Contacted	No rollover
Location on Vehicle where Principal Tripping Force was Applied	No rollover
Direction of Initial Roll	No rollover

Pre-Crash Environment

Traffic Flow	Not DIVIDED
Number of Travel Lanes	TWO
Roadway Alignment	CURVE RIGHT
Roadway Profile	LEVEL
Roadway Surface Type	ASPHALT
Roadway Surface Condition	DRY
Light Conditions	DARK
Atmospheric Conditions	No ADVERSE COND
Relation to Intersection	NONINTER/NONJUNC
Traffic Control Device	
Police Reported Alcohol Presence	ALCOHOL PRESENT
Alcohol Test (< 95 indicates BAC 0.xx)	0

Vehicle Factors

Make-Model	Plymouth Voyager Minivan
Year	1998
Class	PASSENGER CAR
Body Type	MINIVAN
Weight	175

Pre-Crash Driver Data

Accident Type	8
Pre-event Movement	NEGOTIATE CURVE
Critical Pre-crash Event	ANIMAL IN ROAD
Attempted Avoidance Manuever	BRAKE+STEER LEFT
Pre-impact Stability	LONGITUDINAL SKID
Pre-impact Location	DEPARTED ROADWAY

PASSENGER Factors

Age	18	Height	175	Weight	68
Gender					FEMALE-NOT PREG
Ejection					No EJECTION
Ejection Area					No EJECTION
Entrapment					Not ENTRAPPED

Restraint Factors

Restrain	Lap and shoulder
AOPS	YES-RES DET
Airbag Deployment	BAG DEPLOYED
Airbag Deployment - 1 st Seat	DR
PAS BAG DEPLY	
Airbag Deployment - Oth Seat	Not EQUIP W/ OTH

Injuries

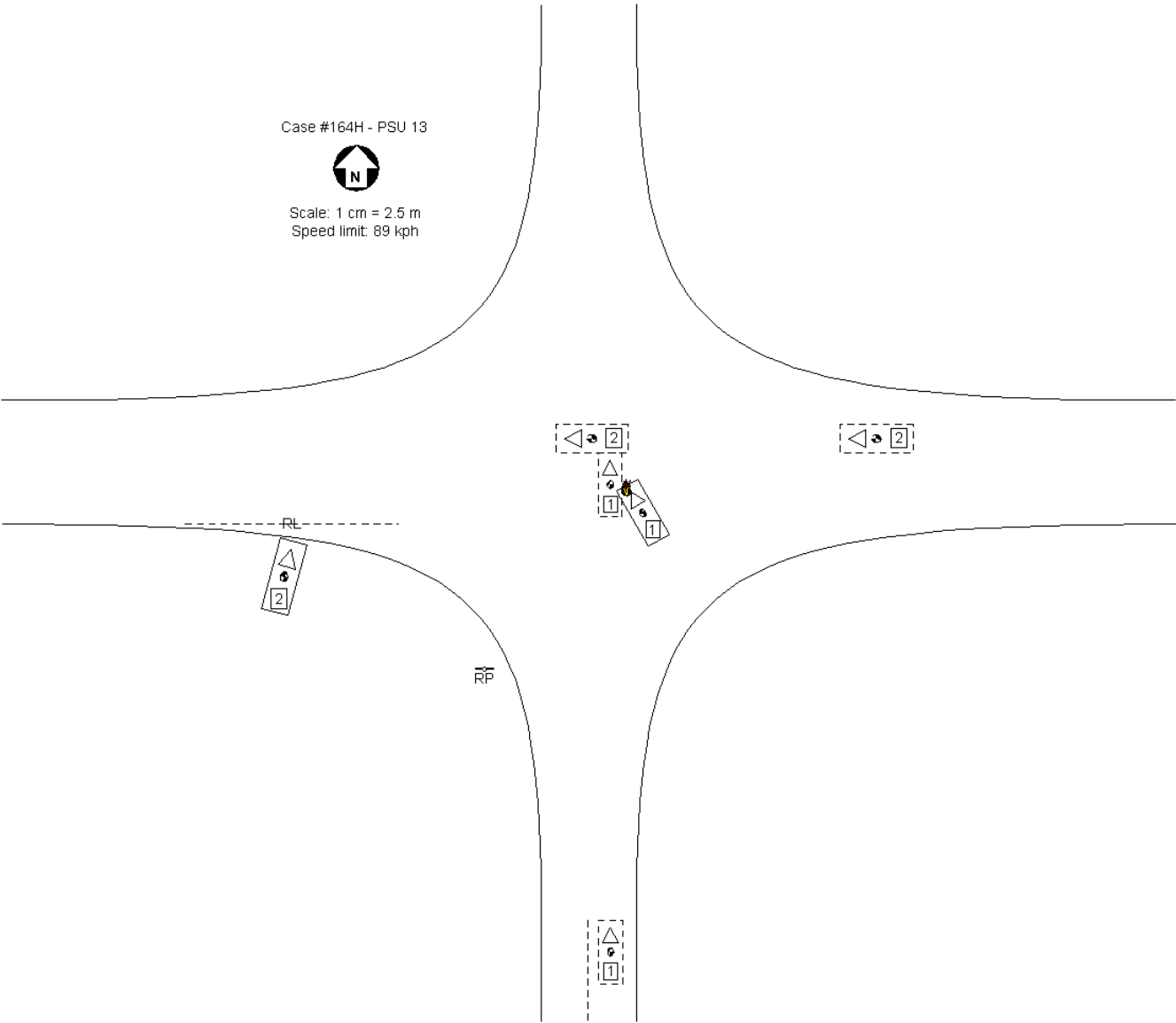
Occupant	1999-13-136-1-2
MAIS	1=Minor
Seat Position	Front right side

AIS Level	Injury Description	Contacts
1=Minor	Acute cervical spine strain without fracture or dislocation	Other noncontact
1=Minor	Upper extremity skin abrasion	Air bag-PS side

17 Case 1999-13-164

Summary:

Vehicle 1 was travelling northbound on a dry, 2-lane, 2-way, asphalt road at daylight. V1 entered an intersection at the same time as V2, which was westbound on a dry, 2-lane, 2-way, asphalt road. The front of V1 impacted the left side of V2. V1 then had a minor fire in the engine compartment. V1 was towed from the scene and severely damaged. V2 was not towed and had minor damage. The restrained occupants of both vehicles all had minor injuries and received no medical treatment.



Vehicle	Body type	Make	Model	Year	Occ.#	Age	Occupant's sex	Maximum known occupant ais
1	2DR SEDAN/HT/CPE	Subaru	XT/XT6	1987	1	16	FEMALE-NOT PREG	1=Minor

Occupant: 1999-13-164-1-1



Fire Information

Fire Occurrence	Minor fire
Fire Origin	Engine compartment
Location of Fuel Leakage	No fuel leakage
Type of Fuel Tank	Metallic
Fuel Tank Location	Behind rear axle, centered
Fuel Cap Location	Right side, behind rear axle
Fuel Tank Damage	No damage
Fuel Type	Gasoline



Crash Severity

Nr. Quarter Turns	No rollover
Impact Speed	998
Total, Longitudal, and Lateral δV	19 -16 -9
Est. δV with sequence number	DELTA V CODED 1
CDC	81 F D E W 2
Damage (C1-C6)	28 25 22 19 14 13
Crush (L and D)	140 0
Object Contacted 1	VEHICLE NO. 2
Object Contacted 2	0

NASS Weighting Factor

Weighting factor	1202.9442708
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Rollover Characteristics

Number of Events	2
Rollover Initiation Type	No rollover
Location of Rollover Initiation	No rollover
Rollover Initiation Object Contacted	No rollover
Location on Vehicle where Principal Tripping Force was Applied	No rollover
Direction of Initial Roll	No rollover

Pre-Crash Environment

Traffic Flow	Not DIVIDED
Number of Travel Lanes	TWO
Roadway Alignment	STRAIGHT
Roadway Profile	LEVEL
Roadway Surface Type	ASPHALT
Roadway Surface Condition	DRY
Light Conditions	DAYLIGHT
Atmospheric Conditions	No ADVERSE COND
Relation to Intersection	INTERSECTION REL
Traffic Control Device	
Police Reported Alcohol Presence	No ALCOHOL
Alcohol Test (< 95 indicates BAC 0.xx)	0

Vehicle Factors

Make-Model	Subaru XT/XT6
Year	1987
Class	PASSENGER CAR
Body Type	2DR SEDAN/HT/CPE
Weight	111

Pre-Crash Driver Data

Accident Type	88
Pre-event Movement	GOING STRAIGHT
Critical Pre-crash Event	CROSS OVER INTER
Attempted Avoidance Manuever	BRAKE W/O LOCKUP
Pre-impact Stability	TRACKING
Pre-impact Location	STAYED IN LANE

DRIVER Factors

Age	16	Height	180	Weight	61
Gender					FEMALE-NOT PREG
Ejection					No EJECTION
Ejection Area					No EJECTION
Entrapment					Not ENTRAPPED

Restraint Factors

Restrain	Lap belt
AOPS	YES-RES DET
Airbag Deployment	Not EQUIP/AVAIL
Airbag Deployment - 1 st Seat	Not EQUIP/AVAIL
Airbag Deployment - Oth Seat	Not EQUIP W/ OTH

Injuries

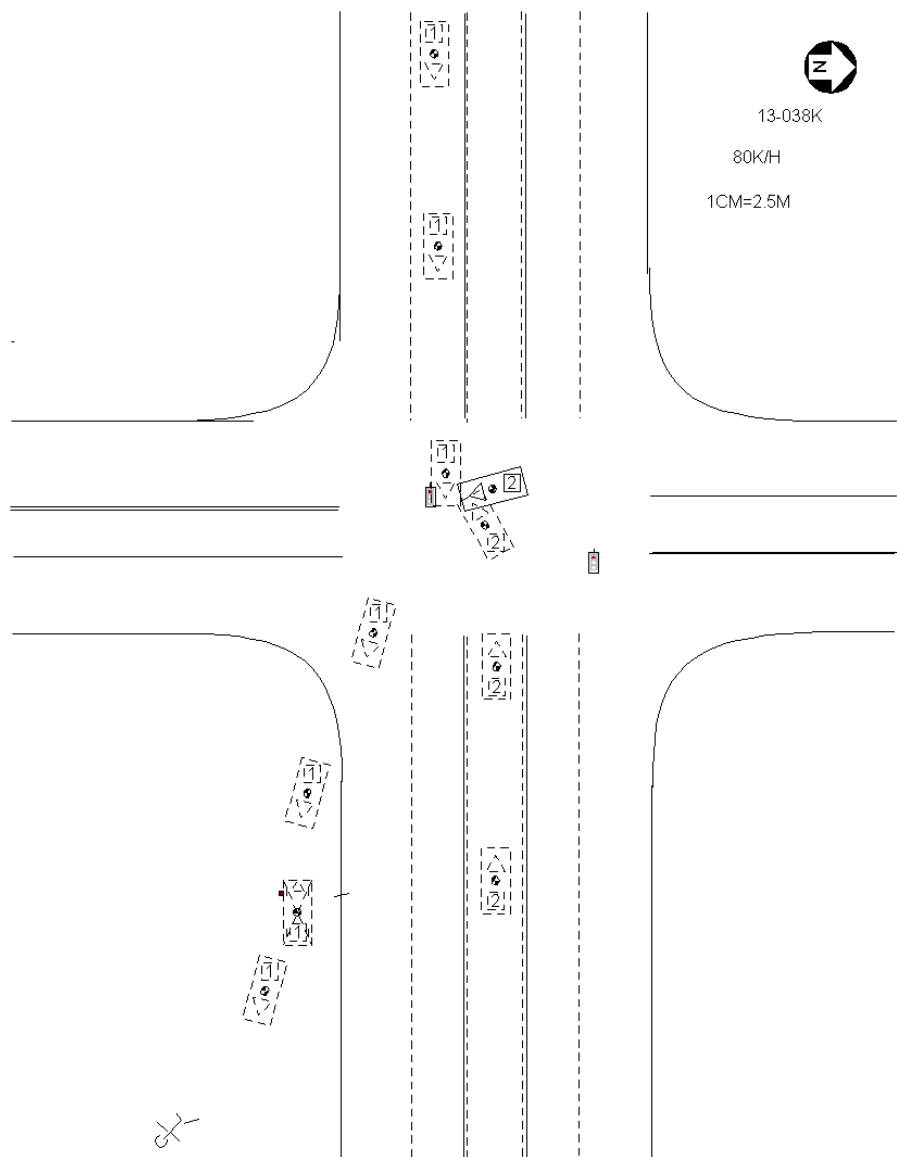
Occupant	1999-13-164-1-1
MAIS	1=Minor
Seat Position	Front left side

AIS Level	Injury Description	Contacts
1=Minor	Thoracic skin contusion	Belt webb/buckle
1=Minor	Leg skin contusion (hematoma)	Left apnel

18 Case 1999-13-38

Summary:

VEHICLE # 1 WAS EAST BOUND ON A 5 LANE , ASPHALT, DRY, 80 K/H , STATE HIGHWAY IN THE SECOND LANE FROM THE RIGHT CURB AND WAS CONTACTED IN THE RIGHT FRONT BY VEHICLE # 2'S FRONT WHICH WAS WEST BOUND TURNING SOUTH IN THE 3RD LANE FROM THE RIGHT CURB ON A 5 LANE, ASPHALT, DRY, 80K/H, STATE HIGHWAY. VEHICLE # 1 CONTINUED ON ROLLING OVER AND CONTACTING A UTILITY POLE AND COMING TO REST ON ITS WHEELS HEADING WEST. BOTH VEHICLES WERE TOWED DUE TO DAMAGE. ALL OCCUPANTS WHEN TO THE HOSPITAL WITH VEHICLE # 2'S BEING TREATED AND RELEASED, AND VEHICLE # 1'S STILL IN THE HOSPITAL VEHICLE # 1'S LONE OCCUPANT WAS EJECTED THRU THE LEFT SIDE WINDOW..



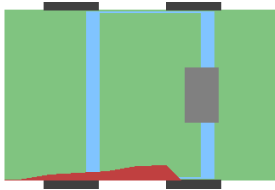
Vehicle	Body type	Make	Model	Year	Occ.#	Age	Occupant's sex	Maximum known occupant ais
1	COMPACT UTILITY	Ford	Bronco II	1989	1	21	MALE	5=Critical
2	5DR/4DR HATCHBAK	Plymouth	Horizon	1989	1	45	MALE	1=Minor
2	5DR/4DR HATCHBAK	Plymouth	Horizon	1989	2	78	FEMALE-NOT PREG	1=Minor

Occupant: 1999-13-38-1-1



Fire Information

Fire Occurrence	No fire
Fire Origin	No fire
Location of Fuel Leakage	Tank
Type of Fuel Tank	Metallic
Fuel Tank Location	Behind rear axle, centered
Fuel Cap Location	Left side, behind rear axle
Fuel Tank Damage	Punctured
Fuel Type	Gasoline



Pre-Crash Environment

Traffic Flow	Not DIVIDED
Number of Travel Lanes	FIVE
Roadway Alignment	STRAIGHT
Roadway Profile	LEVEL
Roadway Surface Type	ASPHALT
Roadway Surface Condition	DRY
Light Conditions	DARK/LIGHTED
Atmospheric Conditions	No ADVERSE COND
Relation to Intersection	INTERSECTION REL
Traffic Control Device	
Police Reported Alcohol Presence	No ALCOHOL
Alcohol Test (< 95 indicates BAC 0.xx)	0

Crash Severity

Nr. Quarter Turns	4 QUARTER TURNS
Impact Speed	998
Total, Longitudal, and Lateral δV	19 -16 10
Est. δV with sequence number	DELTA V CODED 1
CDC	11 L Y E W 3
Damage (C1-C6)	0 8 11 13 21 22
Crush (L and D)	260 43
Object Contacted 1	VEHICLE NO. 2
Object Contacted 2	ROLLOVER-OVERTURN

NASS Weighting Factor

Weighting factor	91.42678482
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Rollover Characteristics

Number of Events	4
Rollover Initiation Type	TRIP-OVER
Location of Rollover Initiation	ROADSIDE/MEDIAN
Rollover Initiation Object Contacted	GROUND
Location on Vehicle where Principal Tripping Force was Applied	WHEELS/TIRES
Direction of Initial Roll	ROLL RIGHT

Vehicle Factors

Make-Model	Ford Bronco II
Year	1989
Class	PASSENGER CAR
Body Type	COMPACT UTILITY
Weight	153

Pre-Crash Driver Data

Accident Type	69
Pre-event Movement	GOING STRAIGHT
Critical Pre-crash Event	CROSS OVER INTER
Attempted Avoidance Manuever	No AVOIDANCE
Pre-impact Stability	TRACKING
Pre-impact Location	STAYED IN LANE

DRIVER Factors

Age	21	Height	180	Weight	84
Gender					MALE
Ejection					COMPLETE EJECT
Ejection Area					Left FRONT
Entrapment					Not ENTRAPPED

Restraint Factors

Restrain	None used/avail
AOPS	NO
Airbag Deployment	Not EQUIP/AVAIL
Airbag Deployment - 1 st Seat	Not EQUIP/AVAIL
Airbag Deployment - Oth Seat	Not EQUIP W/ OTH

Injuries

Occupant	1999-13-38-1-1
MAIS	5=Critical
Seat Position	Front left side

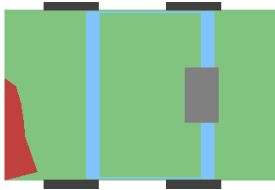
AIS Level	Injury Description	Contacts
1=Minor	Facial skin contusion	Ground
1=Minor	Leg skin contusion (hematoma)	Ground
4=Severe	Lung contusion, bilateral	Left interior
3=Serious	2-3 rib fractures with stable chest and hemo-/pneumothorax	Left interior
1=Minor	Leg skin abrasion	Ground
1=Minor	Upper extremity skin abrasion	Ground
2=Moderate	Skull fracture, vault, closed (simple, undisplaced)	Ground
2=Moderate	Skull fracture, vault, closed (simple, undisplaced)	Ground
3=Serious	Cerebral subarachnoid hemorrhage	Ground
3=Serious	Cerebral edema, mild (compressed ventricles w/o brain stem)	Ground
3=Serious	Cerebral edema, mild (compressed ventricles w/o brain stem)	Ground
5=Critical	Unconscious on admission, inappropriate movements	Ground

Occupant: 1999-13-38-2-1



Fire Information

Fire Occurrence	No fire
Fire Origin	No fire
Location of Fuel Leakage	No fuel leakage
Type of Fuel Tank	Metallic
Fuel Tank Location	Behind rear axle, centered
Fuel Cap Location	Right side, behind rear axle
Fuel Tank Damage	No damage
Fuel Type	Gasoline



Pre-Crash Environment

Traffic Flow	Not DIVIDED
Number of Travel Lanes	FIVE
Roadway Alignment	STRAIGHT
Roadway Profile	LEVEL
Roadway Surface Type	ASPHALT
Roadway Surface Condition	DRY
Light Conditions	DARK/LIGHTED
Atmospheric Conditions	No ADVERSE COND
Relation to Intersection	INTERSECTION REL
Traffic Control Device	
Police Reported Alcohol Presence	No ALCOHOL
Alcohol Test (< 95 indicates BAC 0.xx)	0

Crash Severity

Nr. Quarter Turns	No rollover
Impact Speed	998
Total, Longitudal, and Lateral δV	25 -13 -22
Est. δV with sequence number	DELTA V CODED 1
CDC	82 F D E W 2
Damage (C1-C6)	48 39 31 28 24 17
Crush (L and D)	150 0
Object Contacted 1	VEHICLE NO. 1
Object Contacted 2	0

NASS Weighting Factor

Weighting factor	91.42678482
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Rollover Characteristics

Number of Events	4
Rollover Initiation Type	No rollover
Location of Rollover Initiation	No rollover
Rollover Initiation Object Contacted	No rollover
Location on Vehicle where Principal Tripping Force was Applied	No rollover
Direction of Initial Roll	No rollover

Vehicle Factors

Make-Model	Plymouth Horizon
Year	1989
Class	PASSENGER CAR
Body Type	5DR/4DR HATCHBAK
Weight	104

Pre-Crash Driver Data

Accident Type	68
Pre-event Movement	TURNING LEFT
Critical Pre-crash Event	TURN LEFT-INTERS
Attempted Avoidance Manuever	No AVOIDANCE
Pre-impact Stability	TRACKING
Pre-impact Location	STAYED IN LANE

DRIVER Factors

Age	45	Height	168	Weight	86
Gender			MALE		
Ejection			No EJECTION		
Ejection Area			No EJECTION		
Entrapment			Not ENTRAPPED		

Restraint Factors

Restrain	Lap and shoulder
AOPS	NO
Airbag Deployment	Not EQUIP/AVAIL
Airbag Deployment - 1 st Seat	Not EQUIP/AVAIL
Airbag Deployment - Oth Seat	Not EQUIP W/ OTH

Injuries

Occupant	1999-13-38-2-1
MAIS	1=Minor
Seat Position	Front left side

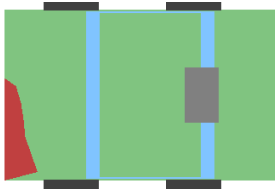
AIS Level	Injury Description	Contacts
1=Minor	Facial skin laceration, minor	Mirror
1=Minor	Facial skin contusion	Mirror
1=Minor	Facial skin laceration, minor	Mirror
1=Minor	Teeth fracture	Mirror

Occupant: 1999-13-38-2-2



Fire Information

Fire Occurrence	No fire
Fire Origin	No fire
Location of Fuel Leakage	No fuel leakage
Type of Fuel Tank	Metallic
Fuel Tank Location	Behind rear axle, centered
Fuel Cap Location	Right side, behind rear axle
Fuel Tank Damage	No damage
Fuel Type	Gasoline



Pre-Crash Environment

Traffic Flow	Not DIVIDED
Number of Travel Lanes	FIVE
Roadway Alignment	STRAIGHT
Roadway Profile	LEVEL
Roadway Surface Type	ASPHALT
Roadway Surface Condition	DRY
Light Conditions	DARK/LIGHTED
Atmospheric Conditions	No ADVERSE COND
Relation to Intersection	INTERSECTION REL
Traffic Control Device	
Police Reported Alcohol Presence	No ALCOHOL
Alcohol Test (< 95 indicates BAC 0.xx)	0

Crash Severity

Nr. Quarter Turns	No rollover
Impact Speed	998
Total, Longitudal, and Lateral δV	25 -13 -22
Est. δV with sequence number	DELTA V CODED 1
CDC	82 F D E W 2
Damage (C1-C6)	48 39 31 28 24 17
Crush (L and D)	150 0
Object Contacted 1	VEHICLE NO. 1
Object Contacted 2	0

NASS Weighting Factor

Weighting factor	91.42678482
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Rollover Characteristics

Number of Events	4
Rollover Initiation Type	No rollover
Location of Rollover Initiation	No rollover
Rollover Initiation Object Contacted	No rollover
Location on Vehicle where Principal Tripping Force was Applied	No rollover
Direction of Initial Roll	No rollover

Vehicle Factors

Make-Model	Plymouth Horizon
Year	1989
Class	PASSENGER CAR
Body Type	5DR/4DR HATCHBAK
Weight	104

Pre-Crash Driver Data

Accident Type	68
Pre-event Movement	TURNING LEFT
Critical Pre-crash Event	TURN LEFT-INTERS
Attempted Avoidance Manuever	No AVOIDANCE
Pre-impact Stability	TRACKING
Pre-impact Location	STAYED IN LANE

PASSENGER Factors

Age	78	Height	152	Weight	45
Gender					FEMALE-NOT PREG
Ejection					No EJECTION
Ejection Area					No EJECTION
Entrapment					Not ENTRAPPED

Restraint Factors

Restrain	Lap belt
AOPS	NO
Airbag Deployment	Not EQUIP/AVAIL
Airbag Deployment - 1 st Seat	Not EQUIP/AVAIL
Airbag Deployment - Oth Seat	Not EQUIP W/ OTH

Injuries

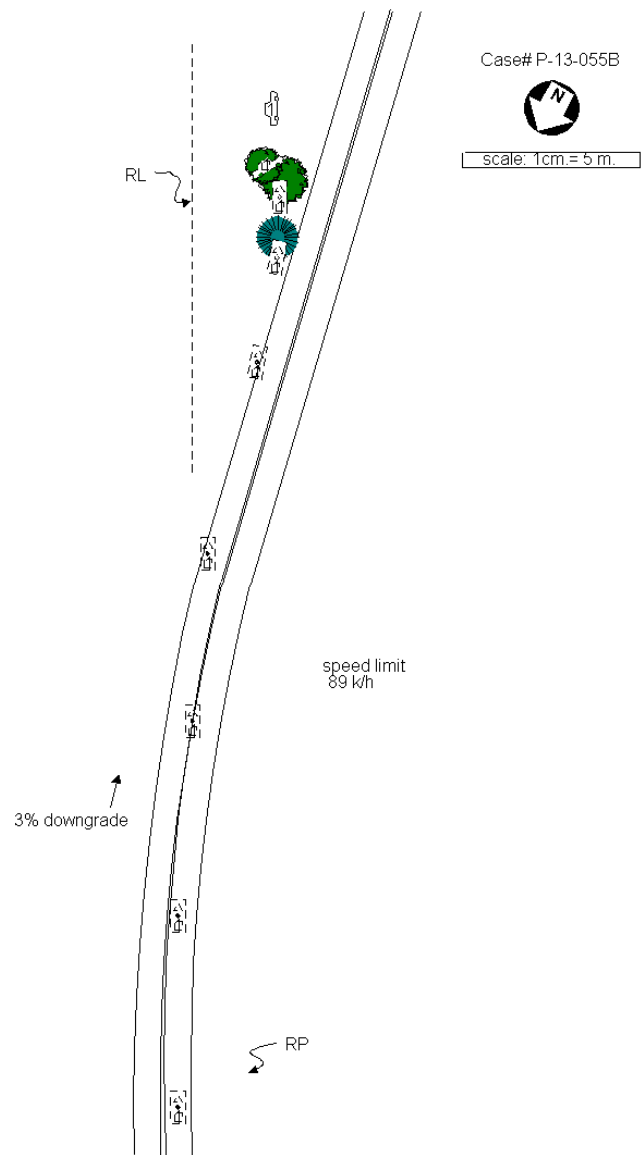
Occupant	1999-13-38-2-2
MAIS	1=Minor
Seat Position	Second right

AIS Level	Injury Description	Contacts
1=Minor	Upper extremity skin contusion	Right hardware
1=Minor	Single rib fracture	Right hardware
1=Minor	Leg skin contusion (hematoma)	Right hardware
1=Minor	Upper extremity skin laceration, minor	Right hardware

19 Case 1999-13-55

Summary:

Vehicle 1 was southbound on a dry, paved, 2 lane rural roadway and being pursued by a police vehicle. The driver was negotiating a curve and crossed the centerline and left the roadway off the left shoulder where he struck several trees, the largest of which caused severe frontal crush and initiated a 1/4 rollover event. The vehicle ended up on its left side with both occupants pinned in the wreckage. The driver was pinned by the steering wheel and the RF passenger was pinned by the RF door and instrument panel. The vehicle had to be stretched by the wrecker to extricate the RF passenger who was dead at the scene. Both occupants were restrained.



Vehicle	Body type	Make	Model	Year	Occ.#	Age	Occupant's sex	Maximum known occupant ais
1	4-DR SEDAN/HDTOP	Dodge	Aries	1987	1	16	MALE	2=Moderate
1	4-DR SEDAN/HDTOP	Dodge	Aries	1987	2	15	MALE	6=Maximum

Occupant: 1999-13-55-1-1



Fire Information

Fire Occurrence	Minor fire
Fire Origin	Engine compart
Location of Fuel Leakage	No fuel leakage
Type of Fuel Tank	Metallic
Fuel Tank Location	Forward of rear axle, centered
Fuel Cap Location	Right side, behind rear axle
Fuel Tank Damage	No damage
Fuel Type	Gasoline



Pre-Crash Environment

Traffic Flow	Not DIVIDED
Number of Travel Lanes	TWO
Roadway Alignment	CURVE RIGHT
Roadway Profile	DOWNHILL GRADE
Roadway Surface Type	ASPHALT
Roadway Surface Condition	DRY
Light Conditions	DARK
Atmospheric Conditions	No ADVERSE COND
Relation to Intersection	NONINTER/NONJUNC
Traffic Control Device	
Police Reported Alcohol Presence	ALCOHOL PRESENT
Alcohol Test (< 95 indicates BAC 0.xx)	0

Crash Severity

Nr. Quarter Turns	1 QUARTER TURN
Impact Speed	< 0.5KMPH
Total, Longitudal, and Lateral δV	< 0.5 KMPH < 0.5 KMPH < 0.5 KMPH
Est. δV with sequence number	SEVERE 2
CDC	72 F Z E W 4
Damage (C1-C6)	42 58 77 99 109 112
Crush (L and D)	150 36
Object Contacted 1	LARGE TREE
Object Contacted 2	ROLLOVER-OVERTURN

NASS Weighting Factor

Weighting factor	88.539882514
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Rollover Characteristics

Number of Events	6
Rollover Initiation Type	FLIP-OVER
Location of Rollover Initiation	ROADSIDE/MEDIAN
Rollover Initiation Object Contacted	LARGE TREE
Location on Vehicle where Principal Tripping Force was Applied	UNDERCARRIAGE
Direction of Initial Roll	ROLL LEFT

Vehicle Factors

Make-Model	Dodge Aries
Year	1987
Class	PASSENGER CAR
Body Type	4-DR SEDAN/HDTOP
Weight	109

Pre-Crash Driver Data

Accident Type	6
Pre-event Movement	NEGOTIATE CURVE
Critical Pre-crash Event	OVER LINE-LEFT
Attempted Avoidance Manuever	STEERING RIGHT
Pre-impact Stability	TRACKING
Pre-impact Location	REMAIN OFF ROAD

DRIVER Factors

Age	16	Height	0	Weight	0
Gender					MALE
Ejection					No EJECTION
Ejection Area					No EJECTION
Entrapment					ENTRAPPED

Restraint Factors

Restrain	Lap and shoulder
AOPS	NO
Airbag Deployment	Not EQUIP/AVAIL
Airbag Deployment - 1 st Seat	Not EQUIP/AVAIL
Airbag Deployment - Oth Seat	Not EQUIP W/ OTH

Injuries

Occupant	1999-13-55-1-1
MAIS	2=Moderate
Seat Position	Front left side

AIS Level	Injury Description	Contacts
2=Moderate	Tibial fracture of the medial malleolus	Steering rim
1=Minor	Facial skin abrasion	Steering rim
1=Minor	297402	Steering rim
1=Minor	Scalp abrasion	Steering rim
1=Minor	Facial skin laceration, minor	Steering rim
1=Minor	Neck skin abrasion	Belt webb/buckle
1=Minor	Upper extremity skin abrasion	Left apnel
1=Minor	Leg skin contusion (hematoma)	Left apnel
1=Minor	Leg skin abrasion	Steering rim

Occupant: 1999-13-55-1-2



Fire Information

Fire Occurrence	Minor fire
Fire Origin	Engine compart
Location of Fuel Leakage	No fuel leakage
Type of Fuel Tank	Metallic
Fuel Tank Location	Forward of rear axle, centered
Fuel Cap Location	Right side, behind rear axle
Fuel Tank Damage	No damage
Fuel Type	Gasoline



Pre-Crash Environment

Traffic Flow	Not DIVIDED
Number of Travel Lanes	TWO
Roadway Alignment	CURVE RIGHT
Roadway Profile	DOWNHILL GRADE
Roadway Surface Type	ASPHALT
Roadway Surface Condition	DRY
Light Conditions	DARK
Atmospheric Conditions	No ADVERSE COND
Relation to Intersection	NONINTER/NONJUNC
Traffic Control Device	
Police Reported Alcohol Presence	ALCOHOL PRESENT
Alcohol Test (< 95 indicates BAC 0.xx)	0

Crash Severity

Nr. Quarter Turns	1 QUARTER TURN
Impact Speed	< 0.5KMPH
Total, Longitudal, and Lateral δV	< 0.5 KMPH < 0.5 KMPH < 0.5 KMPH
Est. δV with sequence number	SEVERE 2
CDC	72 F Z E W 4
Damage (C1-C6)	42 58 77 99 109 112
Crush (L and D)	150 36
Object Contacted 1	LARGE TREE
Object Contacted 2	ROLLOVER-OVERTURN

NASS Weighting Factor

Weighting factor	88.539882514
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Rollover Characteristics

Number of Events	6
Rollover Initiation Type	FLIP-OVER
Location of Rollover Initiation	ROADSIDE/MEDIAN
Rollover Initiation Object Contacted	LARGE TREE
Location on Vehicle where Principal Tripping Force was Applied	UNDERCARRIAGE
Direction of Initial Roll	ROLL LEFT

Vehicle Factors

Make-Model	Dodge Aries
Year	1987
Class	PASSENGER CAR
Body Type	4-DR SEDAN/HDTOP
Weight	109

Pre-Crash Driver Data

Accident Type	6
Pre-event Movement	NEGOTIATE CURVE
Critical Pre-crash Event	OVER LINE-LEFT
Attempted Avoidance Manuever	STEERING RIGHT
Pre-impact Stability	TRACKING
Pre-impact Location	REMAIN OFF ROAD

PASSENGER Factors

Age	15	Height	168	Weight	52
Gender			MALE		
Ejection			No EJECTION		
Ejection Area			No EJECTION		
Entrapment			ENTRAPPED		

Restraint Factors

Restrain	Lap and shoulder
AOPS	NO
Airbag Deployment	Not EQUIP/AVAIL
Airbag Deployment - 1 st Seat	Not EQUIP/AVAIL
Airbag Deployment - Oth Seat	Not EQUIP W/ OTH

Injuries

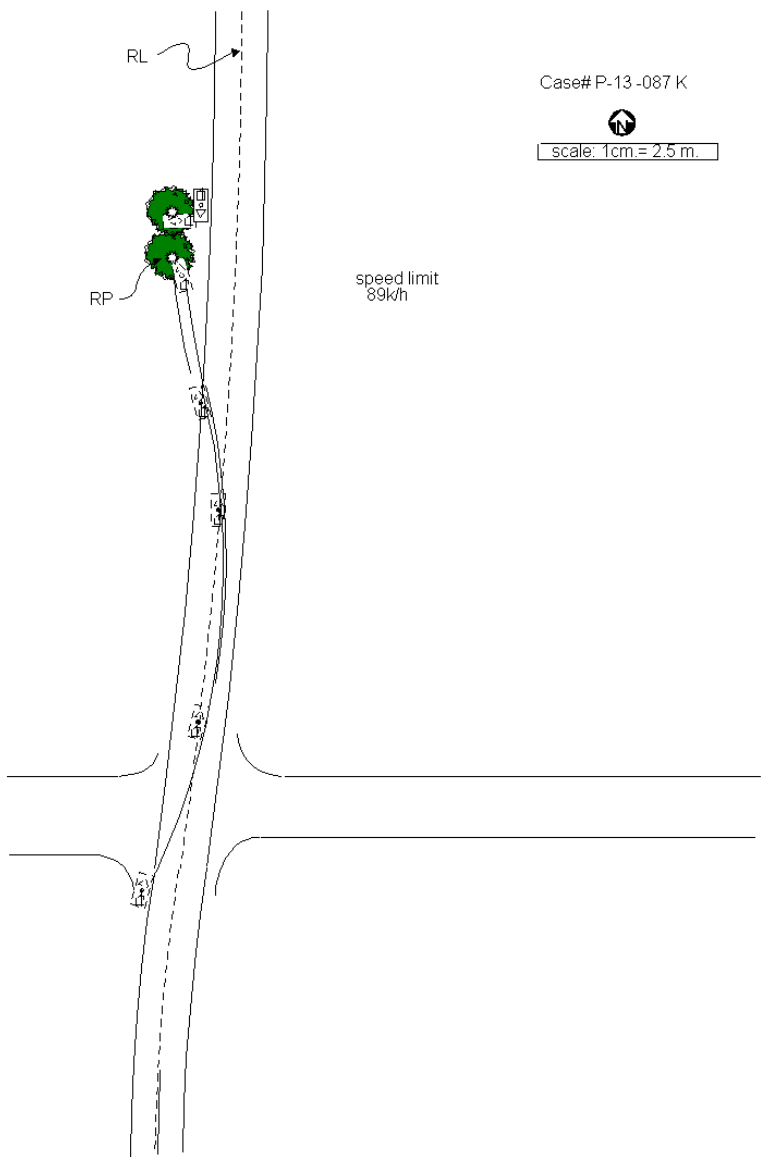
Occupant	1999-13-55-1-2
MAIS	6=Maximum
Seat Position	Front right side

AIS Level	Injury Description	Contacts
1=Minor	Facial skin abrasion	Windshield
1=Minor	Neck skin abrasion	Right panel
1=Minor	Upper extremity skin abrasion	Belt webb/buckle
1=Minor	Thoracic skin abrasion	Belt webb/buckle
1=Minor	Upper extremity skin laceration, minor	Belt webb/buckle
1=Minor	Upper extremity skin abrasion	Right panel
1=Minor	Leg skin abrasion	Right panel
2=Moderate	Arm, forearm, hand fracture NFS	Right panel
2=Moderate	Knee joint dislocation NFS	Right panel
2=Moderate	Patellar fracture	Right panel
4=Severe	>3 rib fxs on each side, stable chest	Right panel
6=Maximum	Myocardial laceration with complex perforation	Right panel
5=Critical	Thoracic aortic laceration, major, & mediastinal bleeding	Right panel
2=Moderate	Hepatic laceration NFS	Right panel
4=Severe	Lung contusion, bilateral	Right panel
1=Minor	Leg skin abrasion	Seat, back

20 Case 1999-13-87

Summary:

Driver was accelerating from the west shoulder of a dry, 2 lane rural roadway and lost control leaving the roadway back off the left shoulder where he struck a tree with the front left bumper area. The impact caused the vehicle to rotate ccw and strike another tree with its right side. Both driver and passenger were injured and transported to the hospital. The driver was treated and released but the passenger was admitted.



Vehicle	Body type	Make	Model	Year	Occ.#	Age	Occupant's sex	Maximum known occupant ais
1	2DR SEDAN/HT/CPE	Ford	Mustang/Mustang II	1972	1	19	MALE	1=Minor
1	2DR SEDAN/HT/CPE	Ford	Mustang/Mustang II	1972	2	20	MALE	4=Severe

Occupant: 1999-13-87-1-1



Fire Information

Fire Occurrence	No fire
Fire Origin	No fire
Location of Fuel Leakage	Tank
Type of Fuel Tank	Metallic
Fuel Tank Location	Behind rear axle, centered
Fuel Cap Location	On back plane
Fuel Tank Damage	Other damage
Fuel Type	Gasoline



Crash Severity

Nr. Quarter Turns	No rollover
Impact Speed	998
Total, Longitudal, and Lateral δV	62 -40 -48
Est. δV with sequence number	DELTA V CODED 2
CDC	82 R F E W 6
Damage (C1-C6)	1 26 39 91 69 64
Crush (L and D)	242 170
Object Contacted 1	LARGE TREE
Object Contacted 2	LARGE TREE

NASS Weighting Factor

Weighting factor	91.42678482
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Rollover Characteristics

Number of Events	2
Rollover Initiation Type	No rollover
Location of Rollover Initiation	No rollover
Rollover Initiation Object Contacted	No rollover
Location on Vehicle where Principal Tripping Force was Applied	No rollover
Direction of Initial Roll	No rollover

Pre-Crash Environment

Traffic Flow	Not DIVIDED
Number of Travel Lanes	TWO
Roadway Alignment	CURVE RIGHT
Roadway Profile	LEVEL
Roadway Surface Type	ASPHALT
Roadway Surface Condition	DRY
Light Conditions	DARK
Atmospheric Conditions	No ADVERSE COND
Relation to Intersection	NONINTER/NONJUNC
Traffic Control Device	
Police Reported Alcohol Presence	ALCOHOL PRESENT
Alcohol Test (< 95 indicates BAC 0.xx)	11

Vehicle Factors

Make-Model	Ford Mustang/Mustang II
Year	1972
Class	PASSENGER CAR
Body Type	2DR SEDAN/HT/CPE
Weight	146

Pre-Crash Driver Data

Accident Type	7
Pre-event Movement	ACCELER IN LANE
Critical Pre-crash Event	TRAVEL TOO FAST
Attempted Avoidance Manuever	No DRIVER
Pre-impact Stability	TRACKING
Pre-impact Location	DEPARTED ROADWAY

DRIVER Factors

Age	19	Height	0	Weight	0
Gender					MALE
Ejection					No EJECTION
Ejection Area					No EJECTION
Entrapment					Not ENTRAPPED

Restraint Factors

Restrain	None used/avail
AOPS	NO
Airbag Deployment	Not EQUIP/AVAIL
Airbag Deployment - 1 st Seat	Not EQUIP/AVAIL
Airbag Deployment - Oth Seat	Not EQUIP W/ OTH

Injuries

Occupant	1999-13-87-1-1
MAIS	1=Minor
Seat Position	Front left side

AIS Level	Injury Description	Contacts
1=Minor	Scalp contusion	Seat, back
1=Minor	Scalp contusion	Other occupants
1=Minor	Scalp abrasion	Other occupants
1=Minor	Neck skin abrasion	Flying glass
1=Minor	Neck skin laceration, minor	Flying glass
1=Minor	Upper extremity skin abrasion	Flying glass
1=Minor	Upper extremity skin laceration, minor	Flying glass
1=Minor	Leg skin abrasion	Left apnel
1=Minor	Leg skin contusion (hematoma)	Left apnel

Occupant: 1999-13-87-1-2



Fire Information

Fire Occurrence	No fire
Fire Origin	No fire
Location of Fuel Leakage	Tank
Type of Fuel Tank	Metallic
Fuel Tank Location	Behind rear axle, centered
Fuel Cap Location	On back plane
Fuel Tank Damage	Other damage
Fuel Type	Gasoline



Crash Severity

Nr. Quarter Turns	No rollover
Impact Speed	998
Total, Longitudal, and Lateral δV	62 -40 -48
Est. δV with sequence number	DELTA V CODED 2
CDC	82 R F E W 6
Damage (C1-C6)	1 26 39 91 69 64
Crush (L and D)	242 170
Object Contacted 1	LARGE TREE
Object Contacted 2	LARGE TREE

NASS Weighting Factor

Weighting factor	91.42678482
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Rollover Characteristics

Number of Events	2
Rollover Initiation Type	No rollover
Location of Rollover Initiation	No rollover
Rollover Initiation Object Contacted	No rollover
Location on Vehicle where Principal Tripping Force was Applied	No rollover
Direction of Initial Roll	No rollover

Pre-Crash Environment

Traffic Flow	Not DIVIDED
Number of Travel Lanes	TWO
Roadway Alignment	CURVE RIGHT
Roadway Profile	LEVEL
Roadway Surface Type	ASPHALT
Roadway Surface Condition	DRY
Light Conditions	DARK
Atmospheric Conditions	No ADVERSE COND
Relation to Intersection	NONINTER/NONJUNC
Traffic Control Device	
Police Reported Alcohol Presence	ALCOHOL PRESENT
Alcohol Test (< 95 indicates BAC 0.xx)	11

Vehicle Factors

Make-Model	Ford Mustang/Mustang II
Year	1972
Class	PASSENGER CAR
Body Type	2DR SEDAN/HT/CPE
Weight	146

Pre-Crash Driver Data

Accident Type	7
Pre-event Movement	ACCELER IN LANE
Critical Pre-crash Event	TRAVEL TOO FAST
Attempted Avoidance Manuever	No DRIVER
Pre-impact Stability	TRACKING
Pre-impact Location	DEPARTED ROADWAY

PASSENGER Factors

Age	20	Height	0	Weight	95
Gender					MALE
Ejection					No EJECTION
Ejection Area					No EJECTION
Entrapment					Not ENTRAPPED

Restraint Factors

Restrain	None used/avail
AOPS	NO
Airbag Deployment	Not EQUIP/AVAIL
Airbag Deployment - 1 st Seat	Not EQUIP/AVAIL
Airbag Deployment - Oth Seat	Not EQUIP W/ OTH

Injuries

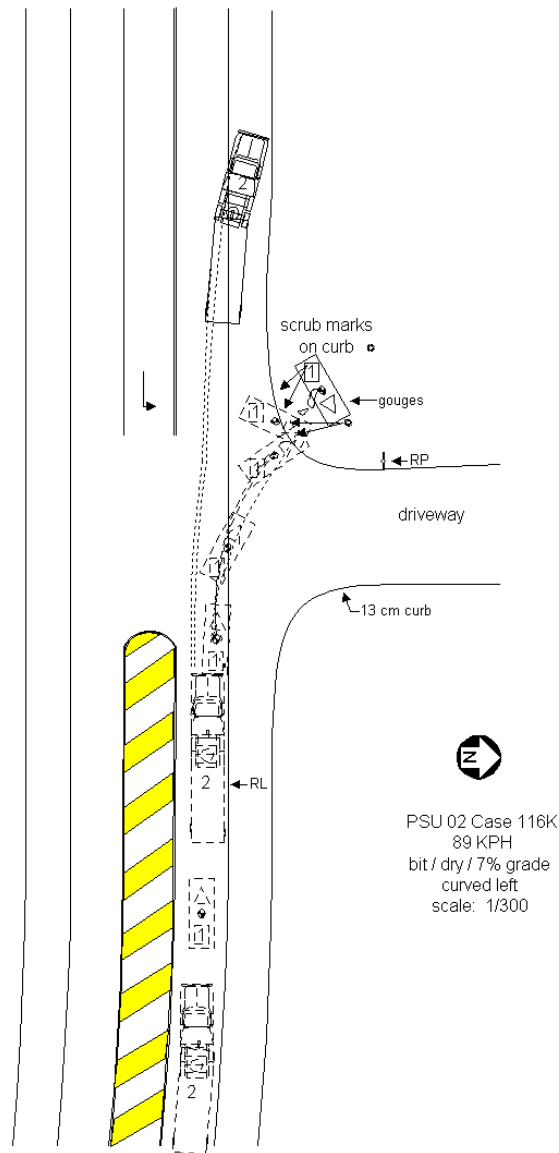
Occupant	1999-13-87-1-2
MAIS	4=Severe
Seat Position	Front right side

AIS Level	Injury Description	Contacts
3=Serious	Femoral shaft fracture	Right panel
3=Serious	Femoral shaft fracture	Right interior
4=Severe	Femoral artery laceration, major (complete or EBL>203=Serious	Tibial shaft fracture, open/displaced/comminuted
Floor		
2=Moderate	Fibular head, neck, or shaft fracture	Floor
1=Minor	Scrotal contusion (hematoma)	Right panel
2=Moderate	Femoral vein laceration NFS	Right panel
2=Moderate	Femoral, tibial, or peroneal nerve contusion	Right panel
2=Moderate	Awake on admission, prior unconscious, length NFS	Right A pillar
1=Minor	Facial skin abrasion	Flying glass
1=Minor	Facial skin abrasion	Flying glass
1=Minor	Neck skin abrasion	Flying glass
1=Minor	Upper extremity skin abrasion	Right interior
1=Minor	Leg skin contusion (hematoma)	Right panel

21 Case 1999-2-116

Summary:

Vehicle #1 and Vehicle #2 traveling west on two lane divided roadway negotiating a slight curve to the left. Vehicle #1 slows to make a right turn into a driveway and is struck in rear by Vehicle #2 (a tractor trailer) front. Vehicle #1 catches fire in fuel system (tank) and rotates clockwise off right side of roadway striking a curbing, continuing over same and comes to rest facing in an easterly direction. The weather was clear, the roadway dry and it was daylight at the time of the crash. Both vehicles were towed due to damage. Occupant #1 and #2 of Vehicle #1 was transported, treated and released. Occupant #3 in Vehicle #1 was transported, treated and hospitalized due to injuries.



Vehicle	Body type	Make	Model	Year	Occ. #	Age	Occupant's sex	Maximum known occupant ais
1	2DR SEDAN/HT/CPE	Oldsmobile	Cutlass RWD	1981	21	39	MALE	3=Serious
1	2DR SEDAN/HT/CPE	Oldsmobile	Cutlass RWD	1982	22	43	FEMALE-NOT PREG	2=Moderate
1	2DR SEDAN/HT/CPE	Oldsmobile	Cutlass RWD	1983	23	70	MALE	2=Moderate

Occupant: 1999-2-116-1-1



Fire Information

Fire Occurrence	Minor fire
Fire Origin	Fuel tank
Location of Fuel Leakage	Filler neck
Type of Fuel Tank	Metallic
Fuel Tank Location	Behind rear axle, centered
Fuel Cap Location	On back plane
Fuel Tank Damage	Deformed
Fuel Type	Gasoline



Crash Severity

Nr. Quarter Turns	No rollover
Impact Speed	< 0.5KMPH
Total, Longitudal, and Lateral δV	< 0.5 KMPH < 0.5 KMPH < 0.5 KMPH
Est. δV with sequence number	0.5 KMPH
CDC	DELTA V CODED 1
Damage (C1-C6)	6 B D E W 4
Crush (L and D)	54 57 39 32 31 28
Object Contacted 1	158 -23
Object Contacted 2	VEHICLE NO. 2
	CURB

NASS Weighting Factor

Weighting factor	57.246095949
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Rollover Characteristics

Number of Events	3
Rollover Initiation Type	No rollover
Location of Rollover Initiation	No rollover
Rollover Initiation Object Contacted	No rollover
Location on Vehicle where Principal Tripping Force was Applied	No rollover
Direction of Initial Roll	No rollover

Pre-Crash Environment

Traffic Flow	DVDED/NO BARRIER
Number of Travel Lanes	ONE
Roadway Alignment	CURVE LEFT
Roadway Profile	UPHILL GRADE
Roadway Surface Type	ASPHALT
Roadway Surface Condition	DRY
Light Conditions	DAYLIGHT
Atmospheric Conditions	No ADVERSE COND
Relation to Intersection	DRIVEWAY RELATED
Traffic Control Device	
Police Reported Alcohol Presence	No ALCOHOL
Alcohol Test (< 95 indicates BAC 0.xx)	0

Vehicle Factors

Make-Model	Oldsmobile Cutlass RWD
Year	1982
Class	PASSENGER CAR
Body Type	2DR SEDAN/HT/CPE
Weight	149

Pre-Crash Driver Data

Accident Type	31
Pre-event Movement	TURNING RIGHT
Critical Pre-crash Event	Same DIR-HISPEED
Attempted Avoidance Maneuver	No AVOIDANCE
Pre-impact Stability	TRACKING
Pre-impact Location	STAYED IN LANE

DRIVER Factors

Age	39	Height	185	Weight	140
Gender			MALE		
Ejection			No EJECTION		
Ejection Area			No EJECTION		
Entrapment			Not ENTRAPPED		

Restraint Factors

Restrain	Lap and shoulder
AOPS	NO
Airbag Deployment	Not EQUIP/AVAIL
Airbag Deployment - 1 st Seat	Not EQUIP/AVAIL
Airbag Deployment - Oth Seat	Not EQUIP W/ OTH

Injuries

Occupant	1999-2-116-1-1
MAIS	3=Serious
Seat Position	Front left side

AIS Level	Injury Description	Contacts
1=Minor	Leg skin contusion (hematoma)	Left hardware
1=Minor	Leg skin contusion (hematoma)	Steering rim
1=Minor	Upper extremity skin abrasion	Left interior
1=Minor	Neck skin abrasion	Belt webb/buckle
3=Serious	Burn, 2nd or 3rd degree, 20	

Occupant: 1999-2-116-1-2



Fire Information

Fire Occurrence	Minor fire
Fire Origin	Fuel tank
Location of Fuel Leakage	Filler neck
Type of Fuel Tank	Metallic
Fuel Tank Location	Behind rear axle, centered
Fuel Cap Location	On back plane
Fuel Tank Damage	Deformed
Fuel Type	Gasoline



Crash Severity

Nr. Quarter Turns	No rollover
Impact Speed	< 0.5KMPH
Total, Longitudal, and Lateral δV	< 0.5 KMPH < 0.5 KMPH < 0.5 KMPH
Est. δV with sequence number	0.5 KMPH
CDC	DELTA V CODED 1
Damage (C1-C6)	6 B D E W 4
Crush (L and D)	54 57 39 32 31 28
Object Contacted 1	158 -23
Object Contacted 2	VEHICLE NO. 2
	CURB

NASS Weighting Factor

Weighting factor	57.246095949
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Rollover Characteristics

Number of Events	3
Rollover Initiation Type	No rollover
Location of Rollover Initiation	No rollover
Rollover Initiation Object Contacted	No rollover
Location on Vehicle where Principal Tripping Force was Applied	No rollover
Direction of Initial Roll	No rollover

Pre-Crash Environment

Traffic Flow	DVDED/NO BARRIER
Number of Travel Lanes	ONE
Roadway Alignment	CURVE LEFT
Roadway Profile	UPHILL GRADE
Roadway Surface Type	ASPHALT
Roadway Surface Condition	DRY
Light Conditions	DAYLIGHT
Atmospheric Conditions	No ADVERSE COND
Relation to Intersection	DRIVEWAY RELATED
Traffic Control Device	
Police Reported Alcohol Presence	No ALCOHOL
Alcohol Test (< 95 indicates BAC 0.xx)	0

Vehicle Factors

Make-Model	Oldsmobile Cutlass RWD
Year	1982
Class	PASSENGER CAR
Body Type	2DR SEDAN/HT/CPE
Weight	149

Pre-Crash Driver Data

Accident Type	31
Pre-event Movement	TURNING RIGHT
Critical Pre-crash Event	Same DIR-HISPEED
Attempted Avoidance Maneuver	No AVOIDANCE
Pre-impact Stability	TRACKING
Pre-impact Location	STAYED IN LANE

PASSENGER Factors

Age	43	Height	160	Weight	77
Gender					FEMALE-NOT PREG
Ejection					No EJECTION
Ejection Area					No EJECTION
Entrapment					Not ENTRAPPED

Restraint Factors

Restrain	Lap and shoulder
AOPS	NO
Airbag Deployment	Not EQUIP/AVAIL
Airbag Deployment - 1 st Seat	Not EQUIP/AVAIL
Airbag Deployment - Oth Seat	Not EQUIP W/ OTH

Injuries

Occupant	1999-2-116-1-2
MAIS	2=Moderate
Seat Position	Front right side

AIS Level	Injury Description	Contacts
1=Minor	297402	Right panel
2=Moderate	Clavicle fracture	Seat, back
1=Minor	Nose fracture NFS	Right panel
2=Moderate	Orbit fracture NFS	Right panel

Occupant: 1999-2-116-1-3



Fire Information

Fire Occurrence	Minor fire
Fire Origin	Fuel tank
Location of Fuel Leakage	Filler neck
Type of Fuel Tank	Metallic
Fuel Tank Location	Behind rear axle, centered
Fuel Cap Location	On back plane
Fuel Tank Damage	Deformed
Fuel Type	Gasoline



Crash Severity

Nr. Quarter Turns	No rollover
Impact Speed	< 0.5KMPH
Total, Longitudal, and Lateral δV	< 0.5 KMPH < 0.5 KMPH < 0.5 KMPH
Est. δV with sequence number	0.5 KMPH
CDC	DELTA V CODED 1
Damage (C1-C6)	6 B D E W 4
Crush (L and D)	54 57 39 32 31 28
Object Contacted 1	158 -23
Object Contacted 2	VEHICLE NO. 2
	CURB

NASS Weighting Factor

Weighting factor	57.246095949
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Rollover Characteristics

Number of Events	3
Rollover Initiation Type	No rollover
Location of Rollover Initiation	No rollover
Rollover Initiation Object Contacted	No rollover
Location on Vehicle where Principal Tripping Force was Applied	No rollover
Direction of Initial Roll	No rollover

Pre-Crash Environment

Traffic Flow	DVDED/NO BARRIER
Number of Travel Lanes	ONE
Roadway Alignment	CURVE LEFT
Roadway Profile	UPHILL GRADE
Roadway Surface Type	ASPHALT
Roadway Surface Condition	DRY
Light Conditions	DAYLIGHT
Atmospheric Conditions	No ADVERSE COND
Relation to Intersection	DRIVEWAY RELATED
Traffic Control Device	
Police Reported Alcohol Presence	No ALCOHOL
Alcohol Test (< 95 indicates BAC 0.xx)	0

Vehicle Factors

Make-Model	Oldsmobile Cutlass RWD
Year	1982
Class	PASSENGER CAR
Body Type	2DR SEDAN/HT/CPE
Weight	149

Pre-Crash Driver Data

Accident Type	31
Pre-event Movement	TURNING RIGHT
Critical Pre-crash Event	Same DIR-HISPEED
Attempted Avoidance Manuever	No AVOIDANCE
Pre-impact Stability	TRACKING
Pre-impact Location	STAYED IN LANE

PASSENGER Factors

Age	70	Height	165	Weight	64
Gender			MALE		
Ejection			No EJECTION		
Ejection Area			No EJECTION		
Entrapment			Not ENTRAPPED		

Restraint Factors

Restrain	None used/avail
AOPS	NO
Airbag Deployment	Not EQUIP/AVAIL
Airbag Deployment - 1 st Seat	Not EQUIP/AVAIL
Airbag Deployment - Oth Seat	Not EQUIP W/ OTH

Injuries

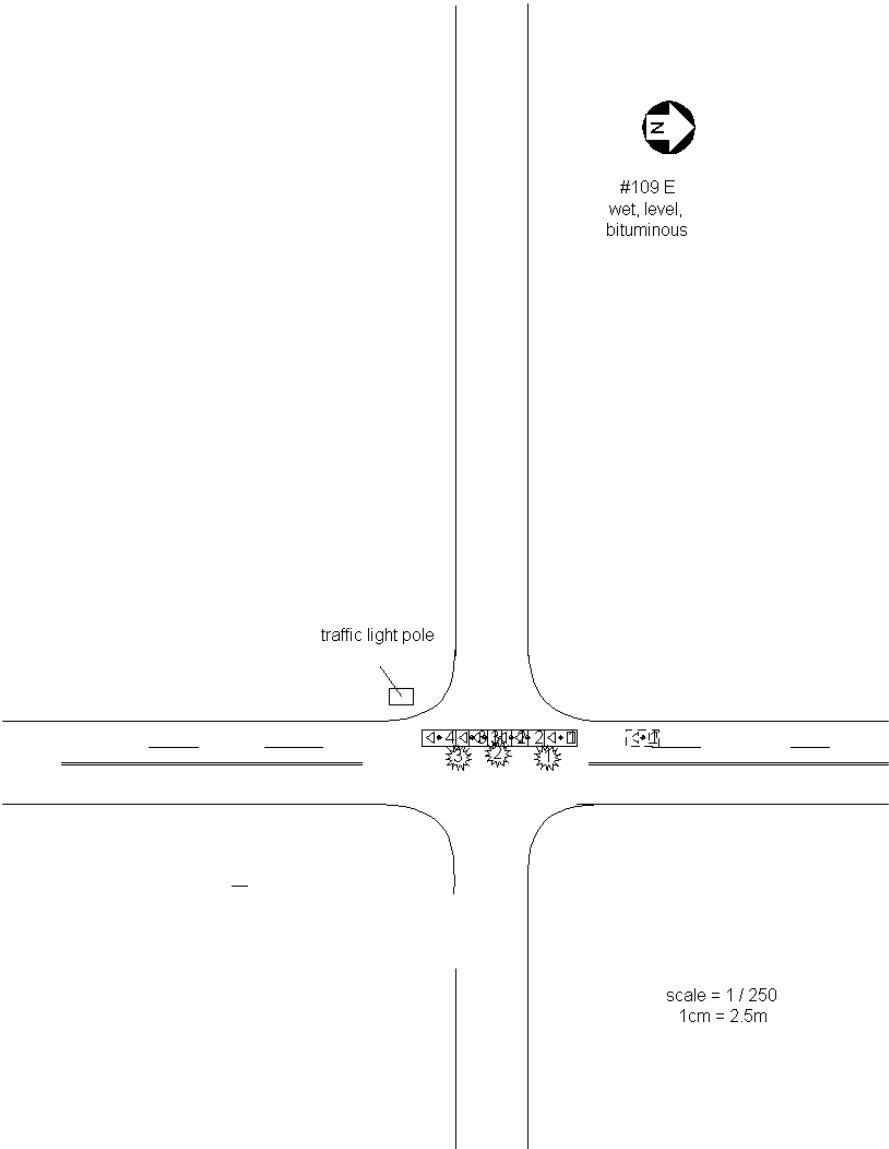
Occupant	1999-2-116-1-3
MAIS	2=Moderate
Seat Position	Second left

AIS Level	Injury Description	Contacts
2=Moderate	Hip joint dislocation NFS	Seat, back
1=Minor	Leg skin abrasion	Seat, back

22 Case 1999-3-109

Summary:

All four vehicles were travelling south on three lane, bituminous, level roadway. All vehicles were travelling in the same lane. At an intersection, Vehicle #1 collided with the rear of Vehicle #2. Vehicle #2s front then collided with vehicle #3s rear. Vehicle #3s front then collided with Vehicle #4s rear.



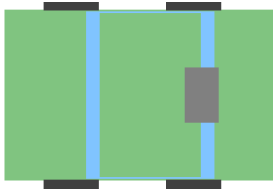
Vehicle	Body type	Make	Model	Year	Occ.#	Age	Occupant's sex	Maximum known occupant ais
1	4-DR SEDAN/HDTOP	Toyota	Tercel	1991	1	33	MALE	7=Unk. sev.
2	LARGE VAN	Dodge	B-series Van	1986	1	40	MALE	0=None

Occupant: 1999-3-109-1-1



Fire Information

Fire Occurrence	No data
Fire Origin	No data
Location of Fuel Leakage	No data
Type of Fuel Tank	No data
Fuel Tank Location	No data
Fuel Cap Location	No data
Fuel Tank Damage	No data
Fuel Type	No data



Crash Severity

Nr. Quarter Turns	No rollover
Impact Speed	998
Total, Longitudal, and Lateral δV	18 -18 < 0.5 KMPH
Est. δV with sequence number	DELTA V CODED 1
CDC	No data No data No data No data
Damage (C1-C6)	No data No data No data No data
Crush (L and D)	No data No data
Object Contacted 1	No data
Object Contacted 2	No data

NASS Weighting Factor

Weighting factor	81.934681209
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Rollover Characteristics

Number of Events	3
Rollover Initiation Type	No rollover
Location of Rollover Initiation	No rollover
Rollover Initiation Object Contacted	No rollover
Location on Vehicle where Principal Tripping Force was Applied	No rollover
Direction of Initial Roll	No rollover

Pre-Crash Environment

Traffic Flow	Not DIVIDED
Number of Travel Lanes	THREE
Roadway Alignment	STRAIGHT
Roadway Profile	LEVEL
Roadway Surface Type	ASPHALT
Roadway Surface Condition	WET
Light Conditions	DARK/LIGHTED
Atmospheric Conditions	RAIN
Relation to Intersection	INTERSECTION REL
Traffic Control Device	
Police Reported Alcohol Presence	Not REPORTED
Alcohol Test (< 95 indicates BAC 0.xx)	0

Vehicle Factors

Make-Model	Toyota Tercel
Year	1991
Class	Unknown
Body Type	4-DR SEDAN/HDTOP
Weight	0

Pre-Crash Driver Data

Accident Type	20
Pre-event Movement	GOING STRAIGHT
Critical Pre-crash Event	STOPPED
Attempted Avoidance Maneuver	No DRIVER
Pre-impact Stability	TRACKING
Pre-impact Location	STAYED IN LANE

DRIVER Factors

Age	33	Height	0	Weight	0
Gender			MALE		
Ejection			No EJECTION		
Ejection Area			No EJECTION		
Entrapment			Not ENTRAPPED		

Restraint Factors

Restrain	None used/avail
AOPS	NO
Airbag Deployment	Not EQUIP/AVAIL
Airbag Deployment - 1 st Seat	Not EQUIP/AVAIL
Airbag Deployment - Oth Seat	Not EQUIP W/ OTH

Injuries

Occupant	1999-3-109-1-1
MAIS	7=Unk. sev.
Seat Position	Front left side

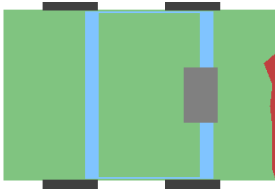
AIS Level	Injury Description	Contacts
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Occupant: 1999-3-109-2-1



Fire Information

Fire Occurence	No fire
Fire Origin	No fire
Location of Fuel Leakage	Tank
Type of Fuel Tank	Metallic
Fuel Tank Location	Behind rear axle, centered
Fuel Cap Location	Left side, behind rear axle
Fuel Tank Damage	Lacerated
Fuel Type	Gasoline



Pre-Crash Environment

Traffic Flow	Not DIVIDED
Number of Travel Lanes	THREE
Roadway Alignment	STRAIGHT
Roadway Profile	LEVEL
Roadway Surface Type	ASPHALT
Roadway Surface Condition	WET
Light Conditions	DARK/LIGHTED
Atmospheric Conditions	RAIN
Relation to Intersection	INTERSECTION REL
Traffic Control Device	
Police Reported	Alcohol Not REPORTED
Presence	
Alcohol Test (< 95 indicates BAC 0.xx)	0

Crash Severity

Nr. Quarter Turns	No rollover
Impact Speed	998
Total, Longitudal, and Lateral δV	14 14 < 0.5 KMPH
Est. δV with sequence number	DELTA V CODED 1
CDC	6 B D E W 2
Damage (C1-C6)	4 4 5 8 4 17
Crush (L and D)	188 19
Object Contacted 1	VEHICLE NO. 1
Object Contacted 2	VEHICLE NO. 3

NASS Weighting Factor

Weighting factor	81.934681209
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Rollover Characteristics

Number of Events	3
Rollover Initiation Type	No rollover
Location of Rollover Initiation	No rollover
Rollover Initiation Object Contacted	No rollover
Location on Vehicle where Principal Tripping Force was Applied	No rollover
Direction of Initial Roll	No rollover

Vehicle Factors

Make-Model	Dodge B-series Van
Year	1986
Class	TRUCK
Body Type	LARGE VAN
Weight	236

Pre-Crash Driver Data

Accident Type	21
Pre-event Movement	STOPPED IN LANE
Critical Pre-crash Event	Same DIR-HISPEED
Attempted Avoidance Manuever	No DRIVER
Pre-impact Stability	TRACKING
Pre-impact Location	STAYED IN LANE

DRIVER Factors

Age	40	Height	165	Weight	73
Gender			MALE		
Ejection			No EJECTION		
Ejection Area			No EJECTION		
Entrapment			Not ENTRAPPED		

Restraint Factors

Restrain	Lap and shoulder
AOPS	NO
Airbag Deployment	Not EQUIP/AVAIL
Airbag Deployment - 1 st Seat	Not EQUIP/AVAIL
Airbag Deployment - Oth Seat	Not EQUIP W/ OTH

Injuries

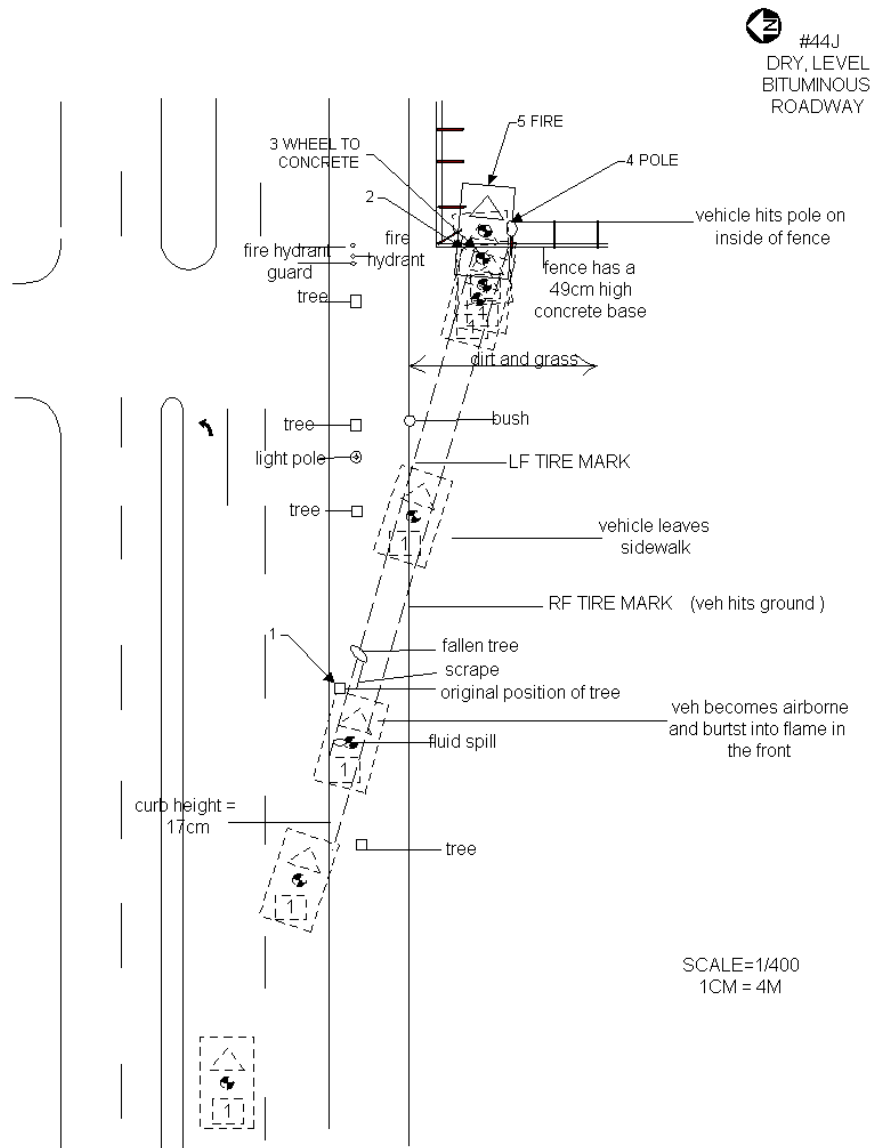
Occupant	1999-3-109-2-1
MAIS	0=None
Seat Position	Front left side

AIS Level	Injury Description	Contacts
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23 Case 1999-3-44

Summary:

Veh #1 while traveling east on a three lane roadway at a high rate of speed, departed the roadway to the right, and struck a small diameter tree with the front. The vehicle continued, became airborne, hit the ground beyond the sidewalk where it is dirt and grass and smashed into an anchor fence situated on a large concrete base. The vehicle also hit its right side on a small diameter (10-15 cm) fence support pole and came to final rest. During the vehicle's travel over the concrete base a fire occurred.



Vehicle	Body type	Make	Model	Year	Occ Age	Occupant's sex	Maximum known occupant ais
1	4-DR SEDAN/HDTOP	Chevrolet	Malibu/Chevelle	1999	21	MALE	3=Serious
1	4-DR SEDAN/HDTOP	Chevrolet	Malibu/Chevelle	1999	27	FEMALE-NOT PREG	2=Moderate
1	4-DR SEDAN/HDTOP	Chevrolet	Malibu/Chevelle	1999	17	FEMALE-NOT PREG	0=None
1	4-DR SEDAN/HDTOP	Chevrolet	Malibu/Chevelle	1999	19	FEMALE-NOT PREG	0=None

Occupant: 1999-3-44-1-1



Fire Information

Fire Occurrence	Major fire
Fire Origin	Engine compart
Location of Fuel Leakage	Tank
Type of Fuel Tank	Metallic
Fuel Tank Location	Forward of rear axle, centered
Fuel Cap Location	Right side, behind rear axle
Fuel Tank Damage	Lacerated
Fuel Type	Gasoline



Pre-Crash Environment

Traffic Flow	DVDED/NO BARRIER
Number of Travel Lanes	THREE
Roadway Alignment	STRAIGHT
Roadway Profile	LEVEL
Roadway Surface Type	ASPHALT
Roadway Surface Condition	DRY
Light Conditions	DAYLIGHT
Atmospheric Conditions	No ADVERSE COND
Relation to Intersection	NONINTER/NONJUNC
Traffic Control Device	
Police Reported	Alcohol Not REPORTED
Presence	
Alcohol Test (< 95 indicates BAC 0.xx)	1

Crash Severity

Nr. Quarter Turns	No rollover
Impact Speed	< 0.5KMPH
Total, Longitudal, and Lateral δV	< 0.5 KMPH < 0.5 KMPH < 0.5 KMPH
Est. δV with sequence number	0.5 KMPH
CDC	SEVERE 3
Damage (C1-C6)	52 F D L W 4
Crush (L and D)	0 0 0 0 0 0
Object Contacted 1	0 0
Object Contacted 2	Oth FIXED OBJECT
	MEDIUM POLE

NASS Weighting Factor

Weighting factor	29.014145649
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Rollover Characteristics

Number of Events	5
Rollover Initiation Type	No rollover
Location of Rollover Initiation	No rollover
Rollover Initiation Object Contacted	No rollover
Location on Vehicle where Principal Tripping Force was Applied	No rollover
Direction of Initial Roll	No rollover

Vehicle Factors

Make-Model	Chevrolet Malibu/Chevelle
Year	1999
Class	PASSENGER CAR
Body Type	4-DR SEDAN/HDTOP
Weight	138

Pre-Crash Driver Data

Accident Type	2
Pre-event Movement	GOING STRAIGHT
Critical Pre-crash Event	TRAVEL TOO FAST
Attempted Avoidance Manuever	No DRIVER
Pre-impact Stability	TRACKING
Pre-impact Location	DEPARTED ROADWAY

DRIVER Factors

Age	21	Height	0	Weight	0
Gender					MALE
Ejection					No EJECTION
Ejection Area					No EJECTION
Entrapment					Not ENTRAPPED

Restraint Factors

Restrain	None used/avail
AOPS	YES-RES DET
Airbag Deployment	BAG DEPLOYED
Airbag Deployment - 1 st Seat	DR
PAS BAG DEPLY	
Airbag Deployment - Oth Seat	Not EQUIP W/ OTH

Injuries

Occupant	1999-3-44-1-1
MAIS	3=Serious
Seat Position	Front left side

AIS Level	Injury Description	Contacts
2=Moderate	Calcaneus fracture	Floor
3=Serious	Femur fracture NFS	Knee bolster
3=Serious	Tibial shaft fracture, open/displaced/comminuted	Knee bolster
2=Moderate	Fibular head, neck, or shaft fracture	Knee bolster
1=Minor	Leg skin laceration, minor	Left apnel

Occupant: 1999-3-44-1-2



Fire Information

Fire Occurrence	Major fire
Fire Origin	Engine compart
Location of Fuel Leakage	Tank
Type of Fuel Tank	Metallic
Fuel Tank Location	Forward of rear axle, centered
Fuel Cap Location	Right side, behind rear axle
Fuel Tank Damage	Lacerated
Fuel Type	Gasoline



Pre-Crash Environment

Traffic Flow	DVDED/NO BARRIER
Number of Travel Lanes	THREE
Roadway Alignment	STRAIGHT
Roadway Profile	LEVEL
Roadway Surface Type	ASPHALT
Roadway Surface Condition	DRY
Light Conditions	DAYLIGHT
Atmospheric Conditions	No ADVERSE COND
Relation to Intersection	NONINTER/NONJUNC
Traffic Control Device	
Police Reported	Alcohol Not REPORTED
Presence	
Alcohol Test (< 95 indicates BAC 0.xx)	1

Crash Severity

Nr. Quarter Turns	No rollover
Impact Speed	< 0.5KMPH
Total, Longitudal, and Lateral δV	< 0.5 KMPH < 0.5 KMPH <
Est. δV with sequence number	0.5 KMPH
CDC	SEVERE 3
Damage (C1-C6)	52 F D L W 4
Crush (L and D)	0 0 0 0 0 0
Object Contacted 1	0 0
Object Contacted 2	Oth FIXED OBJECT
	MEDIUM POLE

NASS Weighting Factor

Weighting factor	29.014145649
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Rollover Characteristics

Number of Events	5
Rollover Initiation Type	No rollover
Location of Rollover Initiation	No rollover
Rollover Initiation Object Contacted	No rollover
Location on Vehicle where Principal Tripping Force was Applied	No rollover
Direction of Initial Roll	No rollover

Vehicle Factors

Make-Model	Chevrolet Malibu/Chevelle
Year	1999
Class	PASSENGER CAR
Body Type	4-DR SEDAN/HDTOP
Weight	138

Pre-Crash Driver Data

Accident Type	2
Pre-event Movement	GOING STRAIGHT
Critical Pre-crash Event	TRAVEL TOO FAST
Attempted Avoidance Manuever	No DRIVER
Pre-impact Stability	TRACKING
Pre-impact Location	DEPARTED ROADWAY

PASSENGER Factors

Age	27	Height	0	Weight	0
Gender					FEMALE-NOT PREG
Ejection					No EJECTION
Ejection Area					No EJECTION
Entrapment					Not ENTRAPPED

Restraint Factors

Restrain	None used/avail
AOPS	YES-RES DET
Airbag Deployment	BAG DEPLOYED
Airbag Deployment - 1 st Seat	DR
PAS BAG DEPLY	
Airbag Deployment - Oth Seat	Not EQUIP W/ OTH

Injuries

Occupant	1999-3-44-1-2
MAIS	2=Moderate
Seat Position	Front right side

AIS Level	Injury Description	Contacts
2=Moderate	Tibial fracture NFS	Floor

Occupant: 1999-3-44-1-3



Fire Information

Fire Occurrence	Major fire
Fire Origin	Engine compartment
Location of Fuel Leakage	Tank
Type of Fuel Tank	Metallic
Fuel Tank Location	Forward of rear axle, centered
Fuel Cap Location	Right side, behind rear axle
Fuel Tank Damage	Lacerated
Fuel Type	Gasoline



Pre-Crash Environment

Traffic Flow	DVDED/NO BARRIER
Number of Travel Lanes	THREE
Roadway Alignment	STRAIGHT
Roadway Profile	LEVEL
Roadway Surface Type	ASPHALT
Roadway Surface Condition	DRY
Light Conditions	DAYLIGHT
Atmospheric Conditions	No ADVERSE COND
Relation to Intersection	NONINTER/NONJUNC
Traffic Control Device	
Police Reported	Alcohol Not REPORTED
Presence	
Alcohol Test (< 95 indicates	1
BAC 0.xx)	

Crash Severity

Nr. Quarter Turns	No rollover
Impact Speed	< 0.5KMPH
Total, Longitudal, and Lateral δV	< 0.5 KMPH < 0.5 KMPH <
Est. δV with sequence number	0.5 KMPH
CDC	SEVERE 3
Damage (C1-C6)	52 F D L W 4
Crush (L and D)	0 0 0 0 0 0
Object Contacted 1	0 0
Object Contacted 2	Oth FIXED OBJECT
	MEDIUM POLE

NASS Weighting Factor

Weighting factor	29.014145649
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Rollover Characteristics

Number of Events	5
Rollover Initiation Type	No rollover
Location of Rollover Initiation	No rollover
Rollover Initiation Object Contacted	No rollover
Location on Vehicle where Principal Tripping Force was Applied	No rollover
Direction of Initial Roll	No rollover

Vehicle Factors

Make-Model	Chevrolet Malibu/Chevelle
Year	1999
Class	PASSENGER CAR
Body Type	4-DR SEDAN/HDTOP
Weight	138

Pre-Crash Driver Data

Accident Type	2
Pre-event Movement	GOING STRAIGHT
Critical Pre-crash Event	TRAVEL TOO FAST
Attempted Avoidance Manuever	No DRIVER
Pre-impact Stability	TRACKING
Pre-impact Location	DEPARTED ROADWAY

PASSENGER Factors

Age	17	Height	0	Weight	0
Gender					FEMALE-NOT PREG
Ejection					No EJECTION
Ejection Area					No EJECTION
Entrapment					Not ENTRAPPED

Restraint Factors

Restrain	None used/avail
AOPS	YES-RES DET
Airbag Deployment	Not EQUIP/AVAIL
Airbag Deployment - 1 st Seat	DR
PAS BAG DEPLY	
Airbag Deployment - Oth Seat	Not EQUIP W/ OTH

Injuries

Occupant	1999-3-44-1-3
MAIS	0=None
Seat Position	Second right

AIS Level	Injury Description	Contacts
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Occupant: 1999-3-44-1-4



Fire Information

Fire Occurrence	Major fire
Fire Origin	Engine compartment
Location of Fuel Leakage	Tank
Type of Fuel Tank	Metallic
Fuel Tank Location	Forward of rear axle, centered
Fuel Cap Location	Right side, behind rear axle
Fuel Tank Damage	Lacerated
Fuel Type	Gasoline



Pre-Crash Environment

Traffic Flow	DVDED/NO BARRIER
Number of Travel Lanes	THREE
Roadway Alignment	STRAIGHT
Roadway Profile	LEVEL
Roadway Surface Type	ASPHALT
Roadway Surface Condition	DRY
Light Conditions	DAYLIGHT
Atmospheric Conditions	No ADVERSE COND
Relation to Intersection	NONINTER/NONJUNC
Traffic Control Device	
Police Reported	Alcohol Not REPORTED
Presence	
Alcohol Test (< 95 indicates BAC 0.xx)	1

Crash Severity

Nr. Quarter Turns	No rollover
Impact Speed	< 0.5KMPH
Total, Longitudal, and Lateral δV	< 0.5 KMPH < 0.5 KMPH < 0.5 KMPH
Est. δV with sequence number	0.5 KMPH
CDC	SEVERE 3
Damage (C1-C6)	52 F D L W 4
Crush (L and D)	0 0 0 0 0 0
Object Contacted 1	0 0
Object Contacted 2	Oth FIXED OBJECT
	MEDIUM POLE

NASS Weighting Factor

Weighting factor	29.014145649
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Rollover Characteristics

Number of Events	5
Rollover Initiation Type	No rollover
Location of Rollover Initiation	No rollover
Rollover Initiation Object Contacted	No rollover
Location on Vehicle where Principal Tripping Force was Applied	No rollover
Direction of Initial Roll	No rollover

Vehicle Factors

Make-Model	Chevrolet Malibu/Chevelle
Year	1999
Class	PASSENGER CAR
Body Type	4-DR SEDAN/HDTOP
Weight	138

Pre-Crash Driver Data

Accident Type	2
Pre-event Movement	GOING STRAIGHT
Critical Pre-crash Event	TRAVEL TOO FAST
Attempted Avoidance Manuever	No DRIVER
Pre-impact Stability	TRACKING
Pre-impact Location	DEPARTED ROADWAY

PASSENGER Factors

Age	19	Height	0	Weight	0
Gender					FEMALE-NOT PREG
Ejection					No EJECTION
Ejection Area					No EJECTION
Entrapment					Not ENTRAPPED

Restraint Factors

Restrain	None used/avail
AOPS	YES-RES DET
Airbag Deployment	Not EQUIP/AVAIL
Airbag Deployment - 1 st Seat	DR
PAS BAG DEPLY	
Airbag Deployment - Oth Seat	Not EQUIP W/ OTH

Injuries

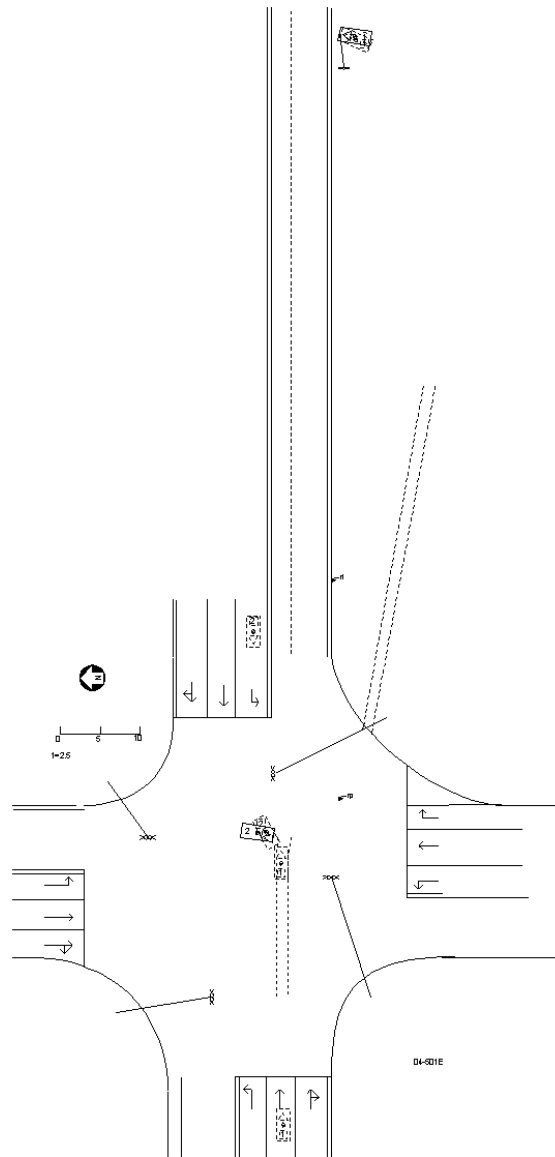
Occupant	1999-3-44-1-4
MAIS	0=None
Seat Position	Second left

AIS Level	Injury Description	Contacts
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24 Case 1999-4-501

Summary:

V1 was traveling east on a five lane roadway (in the second lane) approaching an intersection. V2 was traveling west on the same roadway (in the third lane) approaching the same intersection. V2 attempted a left turn and the front of V1 impacted the front of V2. V1 departed the road at the southeast corner and traveled 95 meters through a field. During this sequence, V1 caught fire causing both the vehicle and the field to catch fire. Both vehicles were towed due to damage. Both occupants of V1 and both occupants of V2 were transported with "C" injuries.



Vehicle ID	Body type	Make	Model	Year	Occ.#	Age	Occupant's sex	Maximum known occupant ais
1	4-DR SEDAN/HDTP	Dodge	Stratus	1997	1	32	FEMALE-NOT PREG	1=Minor
1	4-DR SEDAN/HDTP	Dodge	Stratus	1997	2	5	FEMALE-NOT PREG	1=Minor
2	COMPACT UTILITY	Jeep	Cherokee84-	1998	1	48	FEMALE-NOT PREG	1=Minor
2	COMPACT UTILITY	Jeep	Cherokee84-	1998	2	11	MALE	1=Minor

Occupant: 1999-4-501-1-1



Fire Information

Fire Occurrence	Minor fire
Fire Origin	Engine compart
Location of Fuel Leakage	No fuel leakage
Type of Fuel Tank	Non-metallic
Fuel Tank Location	Forward of rear axle, centered
Fuel Cap Location	Left side, behind rear axle
Fuel Tank Damage	No damage
Fuel Type	Gasoline



Pre-Crash Environment

Traffic Flow	Not DIVIDED
Number of Travel Lanes	FIVE
Roadway Alignment	STRAIGHT
Roadway Profile	LEVEL
Roadway Surface Type	ASPHALT
Roadway Surface Condition	DRY
Light Conditions	DAYLIGHT
Atmospheric Conditions	No ADVERSE COND
Relation to Intersection	INTERSECTION REL
Traffic Control Device	
Police Reported Alcohol Presence	No ALCOHOL
Alcohol Test (< 95 indicates BAC 0.xx)	0

Crash Severity

Nr. Quarter Turns	No rollover
Impact Speed	998
Total, Longitudal, and Lateral δV	28 -26 9
Est. δV with sequence number	DELTA V CODED 1
CDC	11 F Y E W 2
Damage (C1-C6)	24 17 11 0 0 0
Crush (L and D)	152 -44
Object Contacted 1	VEHICLE NO. 2
Object Contacted 2	Oth FIXED OBJECT

NASS Weighting Factor

Weighting factor	0
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Rollover Characteristics

Number of Events	3
Rollover Initiation Type	No rollover
Location of Rollover Initiation	No rollover
Rollover Initiation Object Contacted	No rollover
Location on Vehicle where Principal Tripping Force was Applied	No rollover
Direction of Initial Roll	No rollover

Vehicle Factors

Make-Model	Dodge Stratus
Year	1997
Class	PASSENGER CAR
Body Type	4-DR SEDAN/HDTOP
Weight	132

Pre-Crash Driver Data

Accident Type	69
Pre-event Movement	GOING STRAIGHT
Critical Pre-crash Event	OPP DIR-OVR LEFT
Attempted Avoidance Manuever	BRAKE W/ LOCKUP
Pre-impact Stability	LONGITUDINAL SKID
Pre-impact Location	STAYED IN LANE

DRIVER Factors

Age	32	Height	165	Weight	63
Gender					FEMALE-NOT PREG
Ejection					No EJECTION
Ejection Area					No EJECTION
Entrapment					Not ENTRAPPED

Restraint Factors

Restrain	Lap and shoulder
AOPS	YES-RES DET
Airbag Deployment	BAG DEPLOYED
Airbag Deployment - 1 st Seat	DR
PAS BAG DEPLY	
Airbag Deployment - Oth Seat	Not EQUIP W/ OTH

Injuries

Occupant	1999-4-501-1-1
MAIS	1=Minor
Seat Position	Front left side

AIS Level	Injury Description	Contacts
1=Minor	Acute cervical spine strain without fracture or dislocation	Belt webb/buckle
1=Minor	Leg skin abrasion	Knee bolster
1=Minor	Leg skin contusion (hematoma)	Knee bolster
1=Minor	Shoulder sprain (glenohumeral joint)	Belt webb/buckle
1=Minor	Upper extremity skin contusion	Belt webb/buckle
1=Minor	Leg skin contusion (hematoma)	Foot controls

Occupant: 1999-4-501-1-2



Fire Information

Fire Occurrence	Minor fire
Fire Origin	Engine compart
Location of Fuel Leakage	No fuel leakage
Type of Fuel Tank	Non-metallic
Fuel Tank Location	Forward of rear axle, centered
Fuel Cap Location	Left side, behind rear axle
Fuel Tank Damage	No damage
Fuel Type	Gasoline



Pre-Crash Environment

Traffic Flow	Not DIVIDED
Number of Travel Lanes	FIVE
Roadway Alignment	STRAIGHT
Roadway Profile	LEVEL
Roadway Surface Type	ASPHALT
Roadway Surface Condition	DRY
Light Conditions	DAYLIGHT
Atmospheric Conditions	No ADVERSE COND
Relation to Intersection	INTERSECTION REL
Traffic Control Device	
Police Reported Alcohol Presence	No ALCOHOL
Alcohol Test (< 95 indicates BAC 0.xx)	0

Crash Severity

Nr. Quarter Turns	No rollover
Impact Speed	998
Total, Longitudal, and Lateral δV	28 -26 9
Est. δV with sequence number	DELTA V CODED 1
CDC	11 F Y E W 2
Damage (C1-C6)	24 17 11 0 0 0
Crush (L and D)	152 -44
Object Contacted 1	VEHICLE NO. 2
Object Contacted 2	Oth FIXED OBJECT

NASS Weighting Factor

Weighting factor	0
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Rollover Characteristics

Number of Events	3
Rollover Initiation Type	No rollover
Location of Rollover Initiation	No rollover
Rollover Initiation Object Contacted	No rollover
Location on Vehicle where Principal Tripping Force was Applied	No rollover
Direction of Initial Roll	No rollover

Vehicle Factors

Make-Model	Dodge Stratus
Year	1997
Class	PASSENGER CAR
Body Type	4-DR SEDAN/HDTOP
Weight	132

Pre-Crash Driver Data

Accident Type	69
Pre-event Movement	GOING STRAIGHT
Critical Pre-crash Event	OPP DIR-OVR LEFT
Attempted Avoidance Manuever	BRAKE W/ LOCKUP
Pre-impact Stability	LONGITUDINAL SKID
Pre-impact Location	STAYED IN LANE

PASSENGER Factors

Age	5	Height	102	Weight	18
Gender					FEMALE-NOT PREG
Ejection					No EJECTION
Ejection Area					No EJECTION
Entrapment					Not ENTRAPPED

Restraint Factors

Restrain	Lap w/ch/seat
AOPS	YES-RES DET
Airbag Deployment	Not EQUIP/AVAIL
Airbag Deployment - 1 st Seat	DR
PAS BAG DEPLY	
Airbag Deployment - Oth Seat	Not EQUIP W/ OTH

Injuries

Occupant	1999-4-501-1-2
MAIS	1=Minor
Seat Position	Second middle

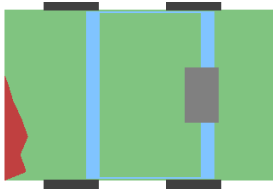
AIS Level	Injury Description	Contacts
1=Minor	Neck skin abrasion	Child seat
1=Minor	Neck skin abrasion	Child seat
1=Minor	Upper extremity skin contusion	Child seat

Occupant: 1999-4-501-2-1



Fire Information

Fire Occurrence	No fire
Fire Origin	No fire
Location of Fuel Leakage	No fuel leakage
Type of Fuel Tank	Non-metallic
Fuel Tank Location	Behind rear axle, centered
Fuel Cap Location	Left side, behind rear axle
Fuel Tank Damage	No damage
Fuel Type	Gasoline



Pre-Crash Environment

Traffic Flow	Not DIVIDED
Number of Travel Lanes	FIVE
Roadway Alignment	STRAIGHT
Roadway Profile	LEVEL
Roadway Surface Type	ASPHALT
Roadway Surface Condition	DRY
Light Conditions	DAYLIGHT
Atmospheric Conditions	No ADVERSE COND
Relation to Intersection	INTERSECTION REL
Traffic Control Device	
Police Reported	Alcohol Not REPORTED
Presence	
Alcohol Test (< 95 indicates	0
BAC 0.xx)	

Crash Severity

Nr. Quarter Turns	No rollover
Impact Speed	998
Total, Longitudal, and Lateral δV	21 -20 -7
Est. δV with sequence number	DELTA V CODED 1
CDC	1 F D E W 2
Damage (C1-C6)	32 23 34 26 13 6
Crush (L and D)	154 -16
Object Contacted 1	VEHICLE NO. 1
Object Contacted 2	0

NASS Weighting Factor

Weighting factor	0
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Rollover Characteristics

Number of Events	3
Rollover Initiation Type	No rollover
Location of Rollover Initiation	No rollover
Rollover Initiation Object	No rollover
Contacted	
Location on Vehicle where Principal Tripping Force was Applied	No rollover
Direction of Initial Roll	No rollover

Vehicle Factors

Make-Model	Jeep Cherokee84-
Year	1998
Class	TRUCK
Body Type	COMPACT UTILITY
Weight	177

Pre-Crash Driver Data

Accident Type	68
Pre-event Movement	TURNING LEFT
Critical Pre-crash Event	TURN LEFT-INTERS
Attempted Avoidance Maneuver	No DRIVER
Pre-impact Stability	No DRIVER
Pre-impact Location	No DRIVER

DRIVER Factors

Age	48	Height	168	Weight	66
Gender					FEMALE-NOT PREG
Ejection					No EJECTION
Ejection Area					No EJECTION
Entrapment					Not ENTRAPPED

Restraint Factors

Restrain	Lap and shoulder
AOPS	YES-RES DET
Airbag Deployment	BAG DEPLOYED
Airbag Deployment - 1 st Seat	DR
PAS BAG DEPLY	
Airbag Deployment - Oth Seat	Not EQUIP W/ OTH

Injuries

Occupant	1999-4-501-2-1
MAIS	1=Minor
Seat Position	Front left side

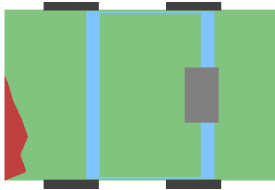
AIS Level	Injury Description	Contacts
1=Minor	Facial skin abrasion	Air bag-DR side
1=Minor	Upper extremity skin contusion	Belt webb/buckle
1=Minor	Thoracic skin contusion	Belt webb/buckle
1=Minor	Leg skin contusion (hematoma)	Knee bolster

Occupant: 1999-4-501-2-2



Fire Information

Fire Occurrence	No fire
Fire Origin	No fire
Location of Fuel Leakage	No fuel leakage
Type of Fuel Tank	Non-metallic
Fuel Tank Location	Behind rear axle, centered
Fuel Cap Location	Left side, behind rear axle
Fuel Tank Damage	No damage
Fuel Type	Gasoline



Pre-Crash Environment

Traffic Flow	Not DIVIDED
Number of Travel Lanes	FIVE
Roadway Alignment	STRAIGHT
Roadway Profile	LEVEL
Roadway Surface Type	ASPHALT
Roadway Surface Condition	DRY
Light Conditions	DAYLIGHT
Atmospheric Conditions	No ADVERSE COND
Relation to Intersection	INTERSECTION REL
Traffic Control Device	
Police Reported Alcohol Presence	Not REPORTED
Alcohol Test (< 95 indicates BAC 0.xx)	0

Crash Severity

Nr. Quarter Turns	No rollover
Impact Speed	998
Total, Longitudal, and Lateral δV	21 -20 -7
Est. δV with sequence number	DELTA V CODED 1
CDC	1 F D E W 2
Damage (C1-C6)	32 23 34 26 13 6
Crush (L and D)	154 -16
Object Contacted 1	VEHICLE NO. 1
Object Contacted 2	0

NASS Weighting Factor

Weighting factor	0
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Rollover Characteristics

Number of Events	3
Rollover Initiation Type	No rollover
Location of Rollover Initiation	No rollover
Rollover Initiation Object Contacted	No rollover
Location on Vehicle where Principal Tripping Force was Applied	No rollover
Direction of Initial Roll	No rollover

Vehicle Factors

Make-Model	Jeep Cherokee84-
Year	1998
Class	TRUCK
Body Type	COMPACT UTILITY
Weight	177

Pre-Crash Driver Data

Accident Type	68
Pre-event Movement	TURNING LEFT
Critical Pre-crash Event	TURN LEFT-INTERS
Attempted Avoidance Manuever	No DRIVER
Pre-impact Stability	No DRIVER
Pre-impact Location	No DRIVER

PASSENGER Factors

Age	11	Height	152	Weight	39
Gender					MALE
Ejection					No EJECTION
Ejection Area					No EJECTION
Entrapment					Not ENTRAPPED

Restraint Factors

Restrain	Lap and shoulder
AOPS	YES-RES DET
Airbag Deployment	BAG DEPLOYED
Airbag Deployment - 1 st Seat	DR
PAS BAG DEPLY	
Airbag Deployment - Oth Seat	Not EQUIP W/ OTH

Injuries

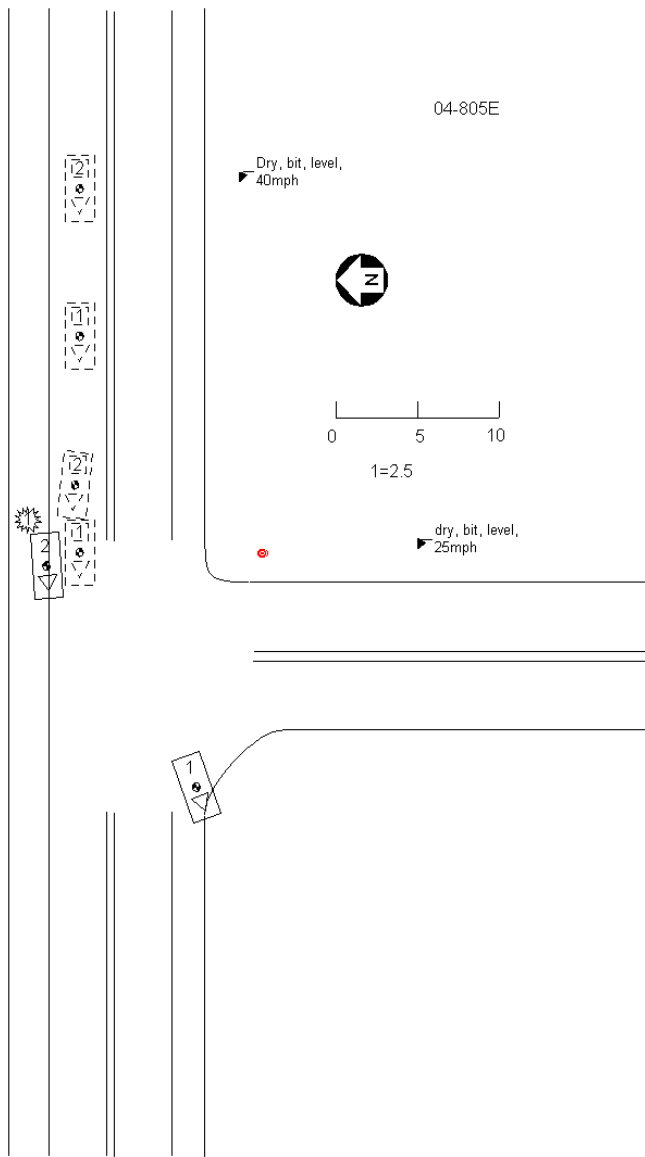
Occupant	1999-4-501-2-2
MAIS	1=Minor
Seat Position	Front right side

AIS Level	Injury Description	Contacts
1=Minor	Leg skin abrasion	Glove door
1=Minor	Leg skin contusion (hematoma)	Glove door
1=Minor	Leg skin contusion (hematoma)	Air bag-PS side
1=Minor	Facial skin abrasion	Air bag-PS side
1=Minor	Neck skin abrasion	Air bag-PS side

25 Case 1999-4-805

Summary:

V1 was traveling west on a two lane roadway and stopped to make a left turn. V2 was traveling behind V1. The front of V2 impacted the back of V1, pushing V1 into the southwest corner. Both vehicles were towed due to damage. The driver and passenger of V2 were transported with "C" injuries.



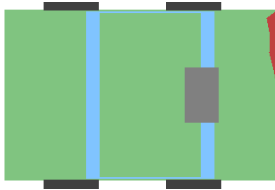
Vehicle	Body type	Make	Model	Year	Occ. Age	Occupant's sex	Maximum known occupant ais
1	COMPACT UTILITY	Isuzu	Trooper/Trooper II	1988	51	MALE	0=None
2	4-DR SEDAN/HDTOP	Toyota	Camry	1999	84	MALE	2=Moderate
2	4-DR SEDAN/HDTOP	Toyota	Camry	1999	84	FEMALE-NOT PREG	2=Moderate

Occupant: 1999-4-805-1-1



Fire Information

Fire Occurrence	No fire
Fire Origin	No fire
Location of Fuel Leakage	Tank
Type of Fuel Tank	Metallic
Fuel Tank Location	Behind rear axle, centered
Fuel Cap Location	Right side, behind rear axle
Fuel Tank Damage	Deform+seam fail
Fuel Type	Gasoline



Pre-Crash Environment

Traffic Flow	Not DIVIDED
Number of Travel Lanes	TWO
Roadway Alignment	STRAIGHT
Roadway Profile	LEVEL
Roadway Surface Type	ASPHALT
Roadway Surface Condition	DRY
Light Conditions	DARK/LIGHTED
Atmospheric Conditions	No ADVERSE COND
Relation to Intersection	INTERSECTION REL
Traffic Control Device	
Police Reported Alcohol Presence	No ALCOHOL
Alcohol Test (< 95 indicates BAC 0.xx)	0

Crash Severity

Nr. Quarter Turns	No rollover
Impact Speed	998
Total, Longitudal, and Lateral δV	16 16 3
Est. δV with sequence number	DELTA V CODED 1
CDC	6 B Z E W 2
Damage (C1-C6)	0 0 5 11 10 15
Crush (L and D)	150 25
Object Contacted 1	VEHICLE NO. 2
Object Contacted 2	0

NASS Weighting Factor

Weighting factor	0
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Rollover Characteristics

Number of Events	1
Rollover Initiation Type	No rollover
Location of Rollover Initiation	No rollover
Rollover Initiation Object Contacted	No rollover
Location on Vehicle where Principal Tripping Force was Applied	No rollover
Direction of Initial Roll	No rollover

Vehicle Factors

Make-Model	Isuzu Trooper/Trooper II
Year	1988
Class	PASSENGER CAR
Body Type	COMPACT UTILITY
Weight	215

Pre-Crash Driver Data

Accident Type	22
Pre-event Movement	STOPPED IN LANE
Critical Pre-crash Event	Same DIR-HISPEED
Attempted Avoidance Manuever	No AVOIDANCE
Pre-impact Stability	TRACKING
Pre-impact Location	STAYED IN LANE

DRIVER Factors

Age	51	Height	0	Weight	0
Gender					MALE
Ejection					No EJECTION
Ejection Area					No EJECTION
Entrapment					Not ENTRAPPED

Restraint Factors

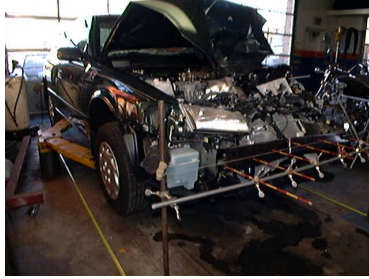
Restrain	Lap and shoulder
AOPS	NO
Airbag Deployment	Not EQUIP/AVAIL
Airbag Deployment - 1 st Seat	Not EQUIP/AVAIL
Airbag Deployment - Oth Seat	Not EQUIP W/ OTH

Injuries

Occupant	1999-4-805-1-1
MAIS	0=None
Seat Position	Front left side

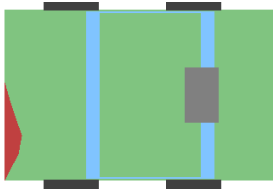
AIS Level	Injury Description	Contacts
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Occupant: 1999-4-805-2-1



Fire Information

Fire Occurrence	No fire
Fire Origin	No fire
Location of Fuel Leakage	No fuel leakage
Type of Fuel Tank	Metallic
Fuel Tank Location	Forward of rear axle, centered
Fuel Cap Location	Left side, forward rear axle
Fuel Tank Damage	No damage
Fuel Type	Gasoline



Pre-Crash Environment

Traffic Flow	Not DIVIDED
Number of Travel Lanes	TWO
Roadway Alignment	STRAIGHT
Roadway Profile	LEVEL
Roadway Surface Type	ASPHALT
Roadway Surface Condition	DRY
Light Conditions	DARK/LIGHTED
Atmospheric Conditions	No ADVERSE COND
Relation to Intersection	INTERSECTION REL
Traffic Control Device	
Police Reported Alcohol Presence	No ALCOHOL
Alcohol Test (< 95 indicates BAC 0.xx)	0

Vehicle Factors

Make-Model	Toyota Camry
Year	1999
Class	PASSENGER CAR
Body Type	4-DR SEDAN/HDTOP
Weight	136

Crash Severity

Nr. Quarter Turns	No rollover
Impact Speed	998
Total, Longitudal, and Lateral δV	24 -24 < 0.5 KMPH
Est. δV with sequence number	DELTA V CODED 1
CDC	12 F D E W 2
Damage (C1-C6)	7 20 26 17 8 0
Crush (L and D)	156 -11
Object Contacted 1	VEHICLE NO. 1
Object Contacted 2	0

Pre-Crash Driver Data

Accident Type	20
Pre-event Movement	GOING STRAIGHT
Critical Pre-crash Event	STOPPED
Attempted Avoidance Manuever	STEERING RIGHT
Pre-impact Stability	TRACKING
Pre-impact Location	STAYED IN LANE

NASS Weighting Factor

Weighting factor	0
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DRIVER Factors

Age	84	Height	0	Weight	0
Gender					MALE
Ejection					No EJECTION
Ejection Area					No EJECTION
Entrapment					Not ENTRAPPED

Rollover Characteristics

Number of Events	1
Rollover Initiation Type	No rollover
Location of Rollover Initiation	No rollover
Rollover Initiation Object Contacted	No rollover
Location on Vehicle where Principal Tripping Force was Applied	No rollover
Direction of Initial Roll	No rollover

Restraint Factors

Restrain	Lap and shoulder
AOPS	YES-RES DET
Airbag Deployment	BAG DEPLOYED
Airbag Deployment - 1 st Seat	DR
PAS BAG DEPLY	
Airbag Deployment - Oth Seat	Not EQUIP W/ OTH

Injuries

Occupant	1999-4-805-2-1
MAIS	2=Moderate
Seat Position	Front left side

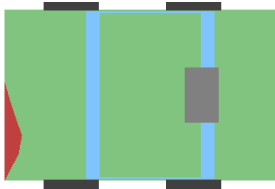
AIS Level	Injury Description	Contacts
1=Minor	Facial skin abrasion	Air bag-DR side
1=Minor	Leg skin contusion (hematoma)	Knee bolster
1=Minor	Leg skin abrasion	Knee bolster
1=Minor	Sternal contusion	Belt webb/buckle
2=Moderate	Knee sprain	Knee bolster

Occupant: 1999-4-805-2-2



Fire Information

Fire Occurrence	No fire
Fire Origin	No fire
Location of Fuel Leakage	No fuel leakage
Type of Fuel Tank	Metallic
Fuel Tank Location	Forward of rear axle, centered
Fuel Cap Location	Left side, forward rear axle
Fuel Tank Damage	No damage
Fuel Type	Gasoline



Crash Severity

Nr. Quarter Turns	No rollover
Impact Speed	998
Total, Longitudal, and Lateral δV	24 -24 < 0.5 KMPH
Est. δV with sequence number	DELTA V CODED 1
CDC	12 F D E W 2
Damage (C1-C6)	7 20 26 17 8 0
Crush (L and D)	156 -11
Object Contacted 1	VEHICLE NO. 1
Object Contacted 2	0

NASS Weighting Factor

Weighting factor	0
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Rollover Characteristics

Number of Events	1
Rollover Initiation Type	No rollover
Location of Rollover Initiation	No rollover
Rollover Initiation Object Contacted	No rollover
Location on Vehicle where Principal Tripping Force was Applied	No rollover
Direction of Initial Roll	No rollover

Pre-Crash Environment

Traffic Flow	Not DIVIDED
Number of Travel Lanes	TWO
Roadway Alignment	STRAIGHT
Roadway Profile	LEVEL
Roadway Surface Type	ASPHALT
Roadway Surface Condition	DRY
Light Conditions	DARK/LIGHTED
Atmospheric Conditions	No ADVERSE COND
Relation to Intersection	INTERSECTION REL
Traffic Control Device	
Police Reported Alcohol Presence	No ALCOHOL
Alcohol Test (< 95 indicates BAC 0.xx)	0

Vehicle Factors

Make-Model	Toyota Camry
Year	1999
Class	PASSENGER CAR
Body Type	4-DR SEDAN/HDTOP
Weight	136

Pre-Crash Driver Data

Accident Type	20
Pre-event Movement	GOING STRAIGHT
Critical Pre-crash Event	STOPPED
Attempted Avoidance Manuever	STEERING RIGHT
Pre-impact Stability	TRACKING
Pre-impact Location	STAYED IN LANE

PASSENGER Factors

Age	84	Height	0	Weight	0
Gender					FEMALE-NOT PREG
Ejection					No EJECTION
Ejection Area					No EJECTION
Entrapment					Not ENTRAPPED

Restraint Factors

Restrain	Lap and shoulder
AOPS	YES-RES DET
Airbag Deployment	BAG DEPLOYED
Airbag Deployment - 1 st Seat	DR
PAS BAG DEPLY	
Airbag Deployment - Oth Seat	Not EQUIP W/ OTH

Injuries

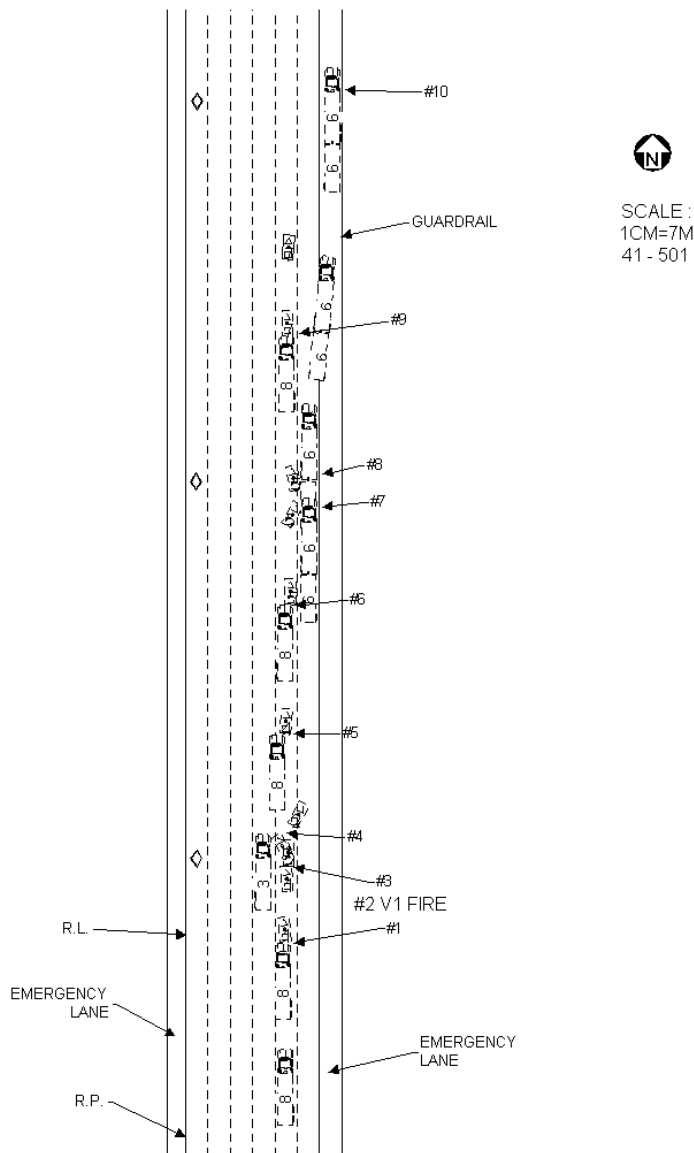
Occupant	1999-4-805-2-2
MAIS	2=Moderate
Seat Position	Front right side

AIS Level	Injury Description	Contacts
2=Moderate	Sternal fracture	Belt webb/buckle

26 Case 1999-41-501

Summary:

Vehicle one (car) was traveling north in the second lane of a five lane dry, bituminous highway during daylight. Vehicle two (car) was traveling north in the same lane directly in front of Vehicle one. Vehicle three (tractor w/o trailer) was traveling north in the third lane of the same roadway. Vehicle four (car) was traveling north in the second lane of the same roadway in front of Vehicle two. Vehicle five (car) was traveling north in the second lane in front of Vehicle four. Vehicle six (large pickup with trailer) was traveling north in the first lane of the same roadway ahead of Vehicle five. Vehicle seven (car) was traveling north in the second lane of the same roadway ahead of Vehicle five. Vehicle eight (TTT) was traveling north in the second lane of the same roadway directly behind Vehicle one. Vehicles' one through seven all decelerated in their traffic lanes. Vehicle eight's front impacted Vehicle one's rear. Vehicle one travelled northeast partially over the left lane line. Vehicle one caught fire. Vehicle one's right side impacted Vehicle two's left side. Vehicle one's left side impacted Vehicle three's right side. Vehicle eight continued traveling north in the second lane. Vehicle eight's front impacted Vehicle four's rear. Vehicle eight continued north. Vehicle eight's front impacted Vehicle five's rear. Vehicle five travelled partially over the right lane line. Vehicle five's right side impacted Vehicle six's left side of the cab. Vehicle five rotated counter clockwise approximately 20 degrees . Vehicle five's right side impacted Vehicle six's left rear tire of trailer. Vehicle eight continued north in the second lane. Vehicle eight's front impacted Vehicle seven's rear. Vehicle six travelled off the right side of the road upon the second impact impact. Vehicle six's right side impacted a guardrail.



Vehicle	Body type	Make	Model	Year	Occ. Age	Occupant's sex	Maximum known occupant ais
1	MINIVAN	Pontiac	Trans Sport	1999	45	MALE	7=Unk. sev.
5	4-DR SEDAN/HDTOP	Volvo	240/242/244/245	1989	39	FEMALE-NOT PREG	0=None
7	2DR SEDAN/HT/CPE	BMW	3-series	1986	34	MALE	7=Unk. sev.
7	2DR SEDAN/HT/CPE	BMW	3-series	1986	35	MALE	7=Unk. sev.

Occupant: 1999-41-501-1-1



Fire Information

Fire Occurrence	Major fire
Fire Origin	No fire
Location of Fuel Leakage	Other
Type of Fuel Tank	Non-metallic
Fuel Tank Location	Forward of rear axle, left side
Fuel Cap Location	Left side, forward rear axle
Fuel Tank Damage	No fuel tank
Fuel Type	Gasoline



Pre-Crash Environment

Traffic Flow	DVDED/W/BARRIER
Number of Travel Lanes	SIX
Roadway Alignment	STRAIGHT
Roadway Profile	LEVEL
Roadway Surface Type	ASPHALT
Roadway Surface Condition	DRY
Light Conditions	DAYLIGHT
Atmospheric Conditions	No ADVERSE COND
Relation to Intersection	NONINTER/NONJUNC
Traffic Control Device	
Police Reported	Alcohol
Presence	No ALCOHOL
Alcohol Test (< 95 indicates	0
BAC 0.xx)	

Crash Severity

Nr. Quarter Turns	No rollover
Impact Speed	< 0.5KMPH
Total, Longitudal, and Lateral δV	< 0.5 KMPH < 0.5 KMPH < 0.5 KMPH
Est. δV with sequence number	DELTA V CODED 1
CDC	6 B D E W 3
Damage (C1-C6)	37 32 29 19 6 0
Crush (L and D)	162 0
Object Contacted 1	VEHICLE NO. 8
Object Contacted 2	VEHICLE NO. 2

NASS Weighting Factor

Weighting factor	0
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Rollover Characteristics

Number of Events	10
Rollover Initiation Type	No rollover
Location of Rollover Initiation	No rollover
Rollover Initiation Object Contacted	No rollover
Location on Vehicle where Principal Tripping Force was Applied	No rollover
Direction of Initial Roll	No rollover

Vehicle Factors

Make-Model	Pontiac Trans Sport
Year	1999
Class	PASSENGER CAR
Body Type	MINIVAN
Weight	272

Pre-Crash Driver Data

Accident Type	29
Pre-event Movement	DECELER IN LANE
Critical Pre-crash Event	Same DIR-HISPEED
Attempted Avoidance Manuever	No DRIVER
Pre-impact Stability	No DRIVER
Pre-impact Location	STAYED IN LANE

DRIVER Factors

Age	45	Height	0	Weight	0
Gender			MALE		
Ejection			No EJECTION		
Ejection Area			No EJECTION		
Entrapment			Not ENTRAPPED		

Restraint Factors

Restrain	None used/avail
AOPS	YES-RES DET
Airbag Deployment	Unk IF DEPLOYED
Airbag Deployment - 1 st Seat	DR
PAS UNK DEPLY	
Airbag Deployment - Oth Seat	Not EQUIP W/ OTH

Injuries

Occupant	1999-41-501-1-1
MAIS	7=Unk. sev.
Seat Position	Front left side

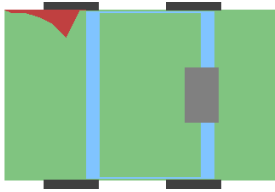
AIS Level	Injury Description	Contacts
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Occupant: 1999-41-501-5-1



Fire Information

Fire Occurrence	No fire
Fire Origin	No fire
Location of Fuel Leakage	No fuel leakage
Type of Fuel Tank	Metallic
Fuel Tank Location	Behind rear axle, centered
Fuel Cap Location	Right side, on the rear axle
Fuel Tank Damage	No damage
Fuel Type	Gasoline



Pre-Crash Environment

Traffic Flow	DVDED/W/BARRIER
Number of Travel Lanes	SIX
Roadway Alignment	STRAIGHT
Roadway Profile	LEVEL
Roadway Surface Type	ASPHALT
Roadway Surface Condition	DRY
Light Conditions	DAYLIGHT
Atmospheric Conditions	No ADVERSE COND
Relation to Intersection	NONINTER/NONJUNC
Traffic Control Device	
Police Reported Alcohol Presence	No ALCOHOL
Alcohol Test (< 95 indicates BAC 0.xx)	0

Crash Severity

Nr. Quarter Turns	No rollover
Impact Speed	< 0.5KMPH
Total, Longitudal, and Lateral δV	< 0.5 KMPH < 0.5 KMPH < 0.5 KMPH
Est. δV with sequence number	DELTA V CODED 7
CDC	5 R F E W 3
Damage (C1-C6)	3 3 10 20 39 0
Crush (L and D)	120 186
Object Contacted 1	VEHICLE NO. 6
Object Contacted 2	VEHICLE NO. 8

NASS Weighting Factor

Weighting factor	0
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Rollover Characteristics

Number of Events	10
Rollover Initiation Type	No rollover
Location of Rollover Initiation	No rollover
Rollover Initiation Object Contacted	No rollover
Location on Vehicle where Principal Tripping Force was Applied	No rollover
Direction of Initial Roll	No rollover

Vehicle Factors

Make-Model	Volvo 240/242/244/245
Year	1989
Class	PASSENGER CAR
Body Type	4-DR SEDAN/HDTOP
Weight	133

Pre-Crash Driver Data

Accident Type	98
Pre-event Movement	DECELER IN LANE
Critical Pre-crash Event	Same DIR-HISPEED
Attempted Avoidance Manuever	No AVOIDANCE
Pre-impact Stability	TRACKING
Pre-impact Location	STAYED IN LANE

DRIVER Factors

Age	39	Height	155	Weight	68
Gender					FEMALE-NOT PREG
Ejection					No EJECTION
Ejection Area					No EJECTION
Entrapment					Not ENTRAPPED

Restraint Factors

Restrain	Lap and shoulder
AOPS	NO
Airbag Deployment	Not EQUIP/AVAIL
Airbag Deployment - 1 st Seat	Not EQUIP/AVAIL
Airbag Deployment - Oth Seat	Not EQUIP W/ OTH

Injuries

Occupant	1999-41-501-5-1
MAIS	0=None
Seat Position	Front left side

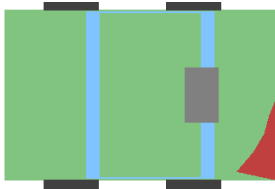
AIS Level	Injury Description	Contacts
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Occupant: 1999-41-501-7-1



Fire Information

Fire Occurrence	No fire
Fire Origin	No fire
Location of Fuel Leakage	No fuel leakage
Type of Fuel Tank	Metallic
Fuel Tank Location	Forward of rear axle, centered
Fuel Cap Location	Right side, behind rear axle
Fuel Tank Damage	No damage
Fuel Type	Gasoline



Pre-Crash Environment

Traffic Flow	DVDED/W/BARRIER
Number of Travel Lanes	SIX
Roadway Alignment	STRAIGHT
Roadway Profile	LEVEL
Roadway Surface Type	ASPHALT
Roadway Surface Condition	DRY
Light Conditions	DAYLIGHT
Atmospheric Conditions	No ADVERSE COND
Relation to Intersection	NONINTER/NONJUNC
Traffic Control Device	
Police Reported Alcohol Presence	No ALCOHOL
Alcohol Test (< 95 indicates BAC 0.xx)	0

Vehicle Factors

Make-Model	BMW 3-series
Year	1986
Class	PASSENGER CAR
Body Type	2DR SEDAN/HT/CPE
Weight	123

Crash Severity

Nr. Quarter Turns	No rollover
Impact Speed	< 0.5KMPH
Total, Longitudal, and Lateral δV	< 0.5 KMPH < 0.5 KMPH < 0.5 KMPH
Est. δV with sequence number	DELTA V CODED 9
CDC	6 B Y E W 4
Damage (C1-C6)	58 35 18 11 0 0
Crush (L and D)	164 -47
Object Contacted 1	VEHICLE NO. 8
Object Contacted 2	0

Pre-Crash Driver Data

Accident Type	98
Pre-event Movement	DECELER IN LANE
Critical Pre-crash Event	Same DIR-HISPEED
Attempted Avoidance Manuever	No DRIVER
Pre-impact Stability	No DRIVER
Pre-impact Location	STAYED IN LANE

NASS Weighting Factor

Weighting factor	0
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DRIVER Factors

Age	34	Height	0	Weight	0
Gender					MALE
Ejection					No EJECTION
Ejection Area					No EJECTION
Entrapment					Not ENTRAPPED

Rollover Characteristics

Number of Events	10
Rollover Initiation Type	No rollover
Location of Rollover Initiation	No rollover
Rollover Initiation Object Contacted	No rollover
Location on Vehicle where Principal Tripping Force was Applied	No rollover
Direction of Initial Roll	No rollover

Restraint Factors

Restrain	Lap and shoulder
AOPS	NO
Airbag Deployment	Not EQUIP/AVAIL
Airbag Deployment - 1 st Seat	Not EQUIP/AVAIL
Airbag Deployment - Oth Seat	Not EQUIP W/ OTH

Injuries

Occupant	1999-41-501-7-1
MAIS	7=Unk. sev.
Seat Position	Front left side

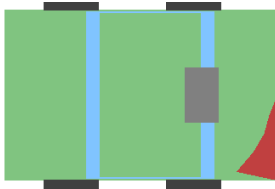
AIS Level	Injury Description	Contacts
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Occupant: 1999-41-501-7-2



Fire Information

Fire Occurrence	No fire
Fire Origin	No fire
Location of Fuel Leakage	No fuel leakage
Type of Fuel Tank	Metallic
Fuel Tank Location	Forward of rear axle, centered
Fuel Cap Location	Right side, behind rear axle
Fuel Tank Damage	No damage
Fuel Type	Gasoline



Pre-Crash Environment

Traffic Flow	DVDED/W/BARRIER
Number of Travel Lanes	SIX
Roadway Alignment	STRAIGHT
Roadway Profile	LEVEL
Roadway Surface Type	ASPHALT
Roadway Surface Condition	DRY
Light Conditions	DAYLIGHT
Atmospheric Conditions	No ADVERSE COND
Relation to Intersection	NONINTER/NONJUNC
Traffic Control Device	
Police Reported Alcohol Presence	No ALCOHOL
Alcohol Test (< 95 indicates BAC 0.xx)	0

Vehicle Factors

Make-Model	BMW 3-series
Year	1986
Class	PASSENGER CAR
Body Type	2DR SEDAN/HT/CPE
Weight	123

Crash Severity

Nr. Quarter Turns	No rollover
Impact Speed	< 0.5KMPH
Total, Longitudal, and Lateral δV	< 0.5 KMPH < 0.5 KMPH < 0.5 KMPH
Est. δV with sequence number	DELTA V CODED 9
CDC	6 B Y E W 4
Damage (C1-C6)	58 35 18 11 0 0
Crush (L and D)	164 -47
Object Contacted 1	VEHICLE NO. 8
Object Contacted 2	0

Pre-Crash Driver Data

Accident Type	98
Pre-event Movement	DECELER IN LANE
Critical Pre-crash Event	Same DIR-HISPEED
Attempted Avoidance Manuever	No DRIVER
Pre-impact Stability	No DRIVER
Pre-impact Location	STAYED IN LANE

NASS Weighting Factor

Weighting factor	0
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PASSENGER Factors

Age	35	Height	0	Weight	0
Gender					MALE
Ejection					No EJECTION
Ejection Area					No EJECTION
Entrapment					Not ENTRAPPED

Rollover Characteristics

Number of Events	10
Rollover Initiation Type	No rollover
Location of Rollover Initiation	No rollover
Rollover Initiation Object Contacted	No rollover
Location on Vehicle where Principal Tripping Force was Applied	No rollover
Direction of Initial Roll	No rollover

Restraint Factors

Restrain	Lap and shoulder
AOPS	NO
Airbag Deployment	Not EQUIP/AVAIL
Airbag Deployment - 1 st Seat	Not EQUIP/AVAIL
Airbag Deployment - Oth Seat	Not EQUIP W/ OTH

Injuries

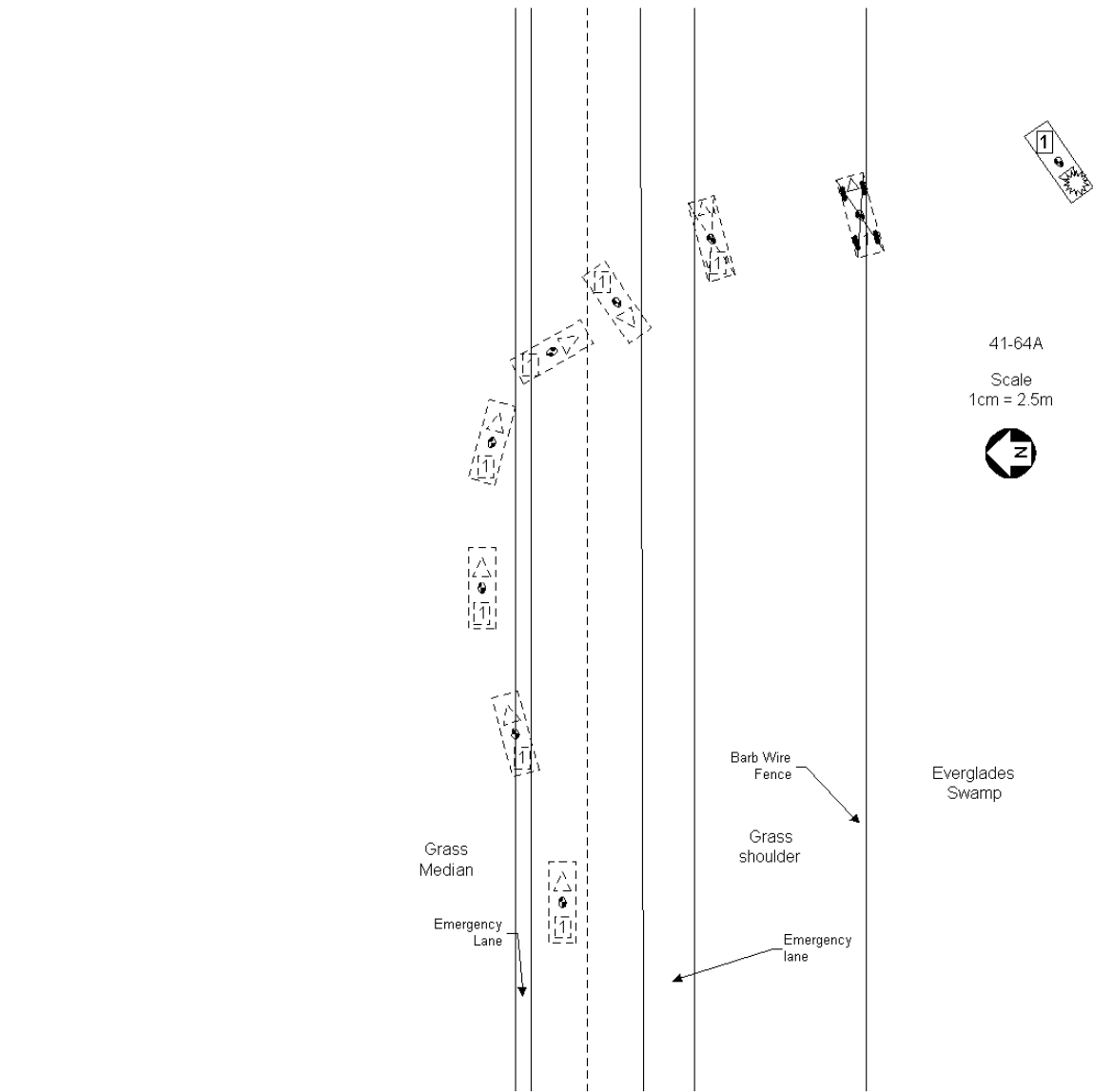
Occupant	1999-41-501-7-2
MAIS	7=Unk. sev.
Seat Position	Front right side

AIS Level	Injury Description	Contacts
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27 Case 1999-41-64

Summary:

Vehicle one was traveling east in the second lane of a two lane divided roadway. For unknown reason driver drifted to left side of road, then overcorrected to the right, causing the car to spin clockwise and roll when it went off the left side of the road. It then burst into flames. During this vehicle inspection I found that the fuel filler tube had come apart from the tank, this could have caused the fire. It was on a interstate, bituminous roadway at night no lights, dry road. This truck was burned severely nothing left but metal.



Vehicle	Body type	Make	Model	Year	Occ.#	Age	Occupant's sex	Maximum known occupant ais
1	COMPACT PICKUP	Isuzu	P'up Pickup	1998	1	46	MALE	6=Maximum
1	COMPACT PICKUP	Isuzu	P'up Pickup	1998	2	53	MALE	3=Serious
1	COMPACT PICKUP	Isuzu	P'up Pickup	1998	3	48	MALE	2=Moderate

Occupant: 1999-41-64-1-1



Fire Information

Fire Occurrence	Major fire
Fire Origin	Fuel tank
Location of Fuel Leakage	Filler neck
Type of Fuel Tank	Metallic
Fuel Tank Location	Over center of the rear wheels
Fuel Cap Location	Left side, behind rear axle
Fuel Tank Damage	Fill neck separation
Fuel Type	Gasoline



Pre-Crash Environment

Traffic Flow	DVDED/NO BARRIER
Number of Travel Lanes	TWO
Roadway Alignment	STRAIGHT
Roadway Profile	LEVEL
Roadway Surface Type	Other
Roadway Surface Condition	DRY
Light Conditions	DARK
Atmospheric Conditions	No ADVERSE COND
Relation to Intersection	NONINTER/NONJUNC
Traffic Control Device	
Police Reported Alcohol Presence	No ALCOHOL
Alcohol Test (< 95 indicates BAC 0.xx)	0

Crash Severity

Nr. Quarter Turns	No rollover
Impact Speed	< 0.5KMPH
Total, Longitudal, and Lateral δV	< 0.5 KMPH < 0.5 KMPH < 0.5 KMPH
Est. δV with sequence number	MODERATE 1
CDC	0 T 9 9 0 3
Damage (C1-C6)	0 0 0 0 0
Crush (L and D)	0 0
Object Contacted 1	ROLLOVER-OVERTRN
Object Contacted 2	0

NASS Weighting Factor

Weighting factor	18.163826721
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Rollover Characteristics

Number of Events	2
Rollover Initiation Type	No rollover
Location of Rollover Initiation	No rollover
Rollover Initiation Object Contacted	No rollover
Location on Vehicle where Principal Tripping Force was Applied	No rollover
Direction of Initial Roll	No rollover

Vehicle Factors

Make-Model	Isuzu P'up Pickup
Year	1998
Class	TRUCK
Body Type	COMPACT PICKUP
Weight	150

Pre-Crash Driver Data

Accident Type	2
Pre-event Movement	GOING STRAIGHT
Critical Pre-crash Event	OVER LINE-RIGHT
Attempted Avoidance Maneuver	STEERING RIGHT
Pre-impact Stability	LATERAL SKID-CLK
Pre-impact Location	DEPARTED ROADWAY

DRIVER Factors

Age	46	Height	183	Weight	82
Gender			MALE		
Ejection			No EJECTION		
Ejection Area			No EJECTION		
Entrapment			Not ENTRAPPED		

Restraint Factors

Restrain	None used/avail
AOPS	NO
Airbag Deployment	Not EQUIP/AVAIL
Airbag Deployment - 1 st Seat	Not EQUIP/AVAIL
Airbag Deployment - Oth Seat	Not EQUIP W/ OTH

Injuries

Occupant	1999-41-64-1-1
MAIS	6=Maximum
Seat Position	Front left side

AIS Level	Injury Description	Contacts
6=Maximum	Burn, 2nd or 3rd degree, >90	

Occupant: 1999-41-64-1-2



Fire Information

Fire Occurrence	Major fire
Fire Origin	Fuel tank
Location of Fuel Leakage	Filler neck
Type of Fuel Tank	Metallic
Fuel Tank Location	Over center of the rear wheels
Fuel Cap Location	Left side, behind rear axle
Fuel Tank Damage	Fill neck separation
Fuel Type	Gasoline



Pre-Crash Environment

Traffic Flow	DVDED/NO BARRIER
Number of Travel Lanes	TWO
Roadway Alignment	STRAIGHT
Roadway Profile	LEVEL
Roadway Surface Type	Other
Roadway Surface Condition	DRY
Light Conditions	DARK
Atmospheric Conditions	No ADVERSE COND
Relation to Intersection	NONINTER/NONJUNC
Traffic Control Device	
Police Reported Alcohol Presence	No ALCOHOL
Alcohol Test (< 95 indicates BAC 0.xx)	0

Crash Severity

Nr. Quarter Turns	No rollover
Impact Speed	< 0.5KMPH
Total, Longitudal, and Lateral δV	< 0.5 KMPH < 0.5 KMPH < 0.5 KMPH
Est. δV with sequence number	MODERATE 1
CDC	0 T 9 9 0 3
Damage (C1-C6)	0 0 0 0 0
Crush (L and D)	0 0
Object Contacted 1	ROLLOVER-OVERTURN
Object Contacted 2	0

NASS Weighting Factor

Weighting factor	18.163826721
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Rollover Characteristics

Number of Events	2
Rollover Initiation Type	No rollover
Location of Rollover Initiation	No rollover
Rollover Initiation Object Contacted	No rollover
Location on Vehicle where Principal Tripping Force was Applied	No rollover
Direction of Initial Roll	No rollover

Vehicle Factors

Make-Model	Isuzu P'up Pickup
Year	1998
Class	TRUCK
Body Type	COMPACT PICKUP
Weight	150

Pre-Crash Driver Data

Accident Type	2
Pre-event Movement	GOING STRAIGHT
Critical Pre-crash Event	OVER LINE-RIGHT
Attempted Avoidance Maneuver	STEERING RIGHT
Pre-impact Stability	LATERAL SKID-CLK
Pre-impact Location	DEPARTED ROADWAY

PASSENGER Factors

Age	53	Height	175	Weight	68
Gender					MALE
Ejection					COMPLETE EJECT
Ejection Area					No EJECTION
Entrapment					Not ENTRAPPED

Restraint Factors

Restrain	None used/avail
AOPS	NO
Airbag Deployment	Not EQUIP/AVAIL
Airbag Deployment - 1 st Seat	Not EQUIP/AVAIL
Airbag Deployment - Oth Seat	Not EQUIP W/ OTH

Injuries

Occupant	1999-41-64-1-2
MAIS	3=Serious
Seat Position	Front right side

AIS Level	Injury Description	Contacts
1=Minor	297402	Unknown SOURCE
1=Minor	Facial skin laceration NFS	Unknown SOURCE
1=Minor	Facial skin abrasion	Unknown SOURCE
1=Minor	Upper extremity skin abrasion	Unknown SOURCE
1=Minor	Upper extremity skin laceration NFS	Unknown SOURCE
1=Minor	Leg skin abrasion	Unknown SOURCE
1=Minor	Awake on admission, NFS	Unknown SOURCE
3=Serious	Cervical facet fracture, no cord injury	Unknown SOURCE
3=Serious	Cervical lamina fracture, no cord injury	Unknown SOURCE
1=Minor	Scalp contusion	Unknown SOURCE
3=Serious	Radial fracture, open/displaced/comminuted	Unknown SOURCE

Occupant: 1999-41-64-1-3



Fire Information

Fire Occurrence	Major fire
Fire Origin	Fuel tank
Location of Fuel Leakage	Filler neck
Type of Fuel Tank	Metallic
Fuel Tank Location	Over center of the rear wheels
Fuel Cap Location	Left side, behind rear axle
Fuel Tank Damage	Fill neck separation
Fuel Type	Gasoline



Pre-Crash Environment

Traffic Flow	DVDED/NO BARRIER
Number of Travel Lanes	TWO
Roadway Alignment	STRAIGHT
Roadway Profile	LEVEL
Roadway Surface Type	Other
Roadway Surface Condition	DRY
Light Conditions	DARK
Atmospheric Conditions	No ADVERSE COND
Relation to Intersection	NONINTER/NONJUNC
Traffic Control Device	
Police Reported Alcohol Presence	No ALCOHOL
Alcohol Test (< 95 indicates BAC 0.xx)	0

Crash Severity

Nr. Quarter Turns	No rollover
Impact Speed	< 0.5KMPH
Total, Longitudal, and Lateral δV	< 0.5 KMPH < 0.5 KMPH < 0.5 KMPH
Est. δV with sequence number	MODERATE 1
CDC	0 T 9 9 0 3
Damage (C1-C6)	0 0 0 0 0
Crush (L and D)	0 0
Object Contacted 1	ROLLOVER-OVERTURN
Object Contacted 2	0

NASS Weighting Factor

Weighting factor	18.163826721
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Rollover Characteristics

Number of Events	2
Rollover Initiation Type	No rollover
Location of Rollover Initiation	No rollover
Rollover Initiation Object Contacted	No rollover
Location on Vehicle where Principal Tripping Force was Applied	No rollover
Direction of Initial Roll	No rollover

Vehicle Factors

Make-Model	Isuzu P'up Pickup
Year	1998
Class	TRUCK
Body Type	COMPACT PICKUP
Weight	150

Pre-Crash Driver Data

Accident Type	2
Pre-event Movement	GOING STRAIGHT
Critical Pre-crash Event	OVER LINE-RIGHT
Attempted Avoidance Manuever	STEERING RIGHT
Pre-impact Stability	LATERAL SKID-CLK
Pre-impact Location	DEPARTED ROADWAY

PASSENGER Factors

Age	48	Height	163	Weight	68
Gender					MALE
Ejection					COMPLETE EJECT
Ejection Area					No EJECTION
Entrapment					Not ENTRAPPED

Restraint Factors

Restrain	None used/avail
AOPS	NO
Airbag Deployment	Not EQUIP/AVAIL
Airbag Deployment - 1 st Seat	Not EQUIP/AVAIL
Airbag Deployment - Oth Seat	Not EQUIP W/ OTH

Injuries

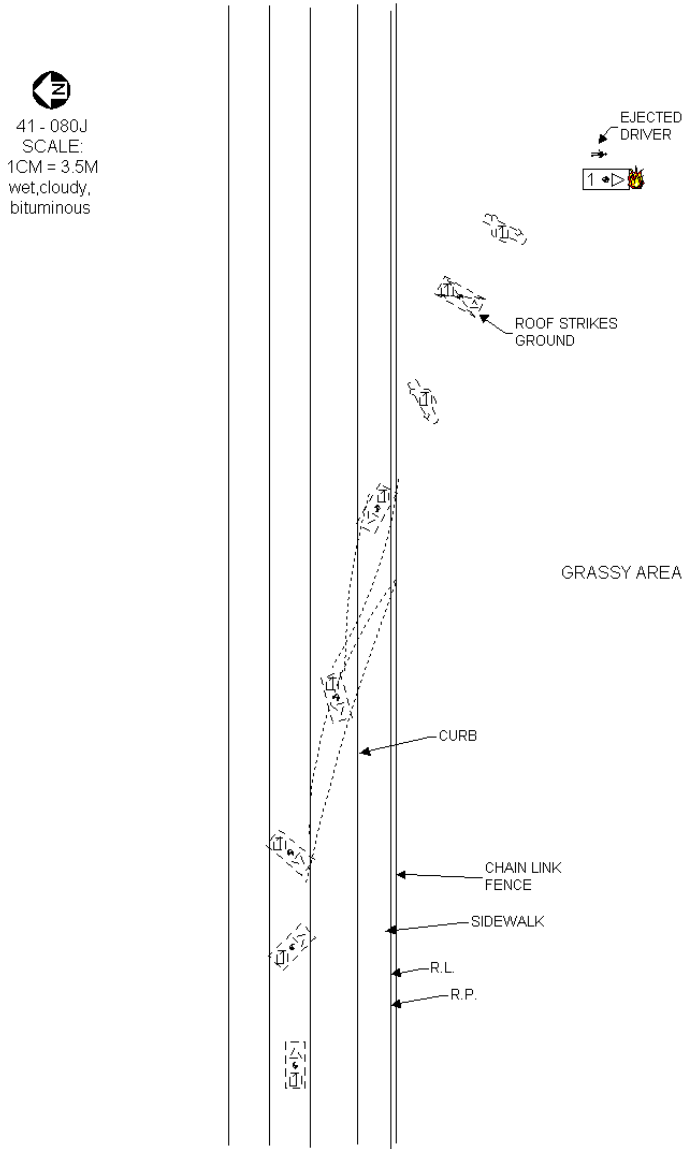
Occupant	1999-41-64-1-3
MAIS	2=Moderate
Seat Position	Front middle

AIS Level	Injury Description	Contacts
2=Moderate	Cervical spinous process fx, no cord injury, +/- dislocation	Unknown SOURCE
2=Moderate	Thoracic spinous process fracture without cord injury	Unknown SOURCE
1=Minor	Awake on admission, never unconscious	Unknown SOURCE
1=Minor	Skin contusion (body region unknown)	Unknown SOURCE

28 Case 1999-41-80

Summary:

Vehicle one was traveling east in the second lane of a three lane divided, wet, bituminous roadway during daylight. At a high rate of speed Vehicle one travelled southeast off the right side of the road. Vehicle one rotated clockwise approximately 150 degrees while exiting the roadway. Vehicle one rolled over to the left, impacting a chain link fence.. Vehicle one rolled over four quarter turns, coming to rest facing south on it's wheels. The driver of Vehicle one was ejected during the rollover and came to rest east of the vehicle. The driver of Vehicle one was hospitalized with 'A' injuries. Vehicle one was towed due to damage from the crash.



Vehicle	Body type	Make	Model	Year	Occ.#	Age	Occupant's sex	Maximum known occupant ais
1	4-DR SEDAN/HDTOP	Mitsubishi	Galant	1999	1	27	FEMALE-NOT PREG	7=Unk. sev.

Occupant: 1999-41-80-1-1



Fire Information

Fire Occurrence	Minor fire
Fire Origin	Engine compartment
Location of Fuel Leakage	No fuel leakage
Type of Fuel Tank	No fuel Tank
Fuel Tank Location	No fuel tank
Fuel Cap Location	Right side, behind rear axle
Fuel Tank Damage	No damage
Fuel Type	Gasoline



Pre-Crash Environment

Traffic Flow	DVDED/NO BARRIER
Number of Travel Lanes	THREE
Roadway Alignment	STRAIGHT
Roadway Profile	LEVEL
Roadway Surface Type	ASPHALT
Roadway Surface Condition	WET
Light Conditions	DAYLIGHT
Atmospheric Conditions	No ADVERSE COND
Relation to Intersection	NONINTER/NONJUNC
Traffic Control Device	
Police Reported Alcohol Presence	ALCOHOL PRESENT
Alcohol Test (< 95 indicates BAC 0.xx)	0

Crash Severity

Nr. Quarter Turns	4 QUARTER TURNS
Impact Speed	< 0.5KMPH
Total, Longitudal, and Lateral δV	< 0.5 KMPH < 0.5 KMPH < 0.5 KMPH
Est. δV with sequence number	0.5 KMPH
CDC	MODERATE 2
Damage (C1-C6)	0 T D D O 2
Crush (L and D)	0 0 0 0 0 0
Object Contacted 1	0 0
Object Contacted 2	ROLLOVER-OVERTURN
	FENCE

NASS Weighting Factor

Weighting factor	20.75832249
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Rollover Characteristics

Number of Events	3
Rollover Initiation Type	TRIP-OVER
Location of Rollover Initiation	ROADSIDE/MEDIAN
Rollover Initiation Object Contacted	CURB
Location on Vehicle where Principal Tripping Force was Applied	WHEELS/TIRES
Direction of Initial Roll	ROLL LEFT

Vehicle Factors

Make-Model	Mitsubishi Galant
Year	1999
Class	PASSENGER CAR
Body Type	4-DR SEDAN/HDTOP
Weight	134

Pre-Crash Driver Data

Accident Type	2
Pre-event Movement	GOING STRAIGHT
Critical Pre-crash Event	OFF EDGE-RIGHT
Attempted Avoidance Manuever	No DRIVER
Pre-impact Stability	LATERAL SKID-CLK
Pre-impact Location	DEPARTED ROADWAY

DRIVER Factors

Age	27	Height	0	Weight	0
Gender					FEMALE-NOT PREG
Ejection					COMPLETE EJECT
Ejection Area					No EJECTION
Entrapment					Not ENTRAPPED

Restraint Factors

Restrain	None used/avail
AOPS	YES-RES DET
Airbag Deployment	BAG DEPLOY UNDET
Airbag Deployment - 1 st Seat	BAG DEP DET UNK
Airbag Deployment - Oth Seat	Not EQUIP W/ OTH

Injuries

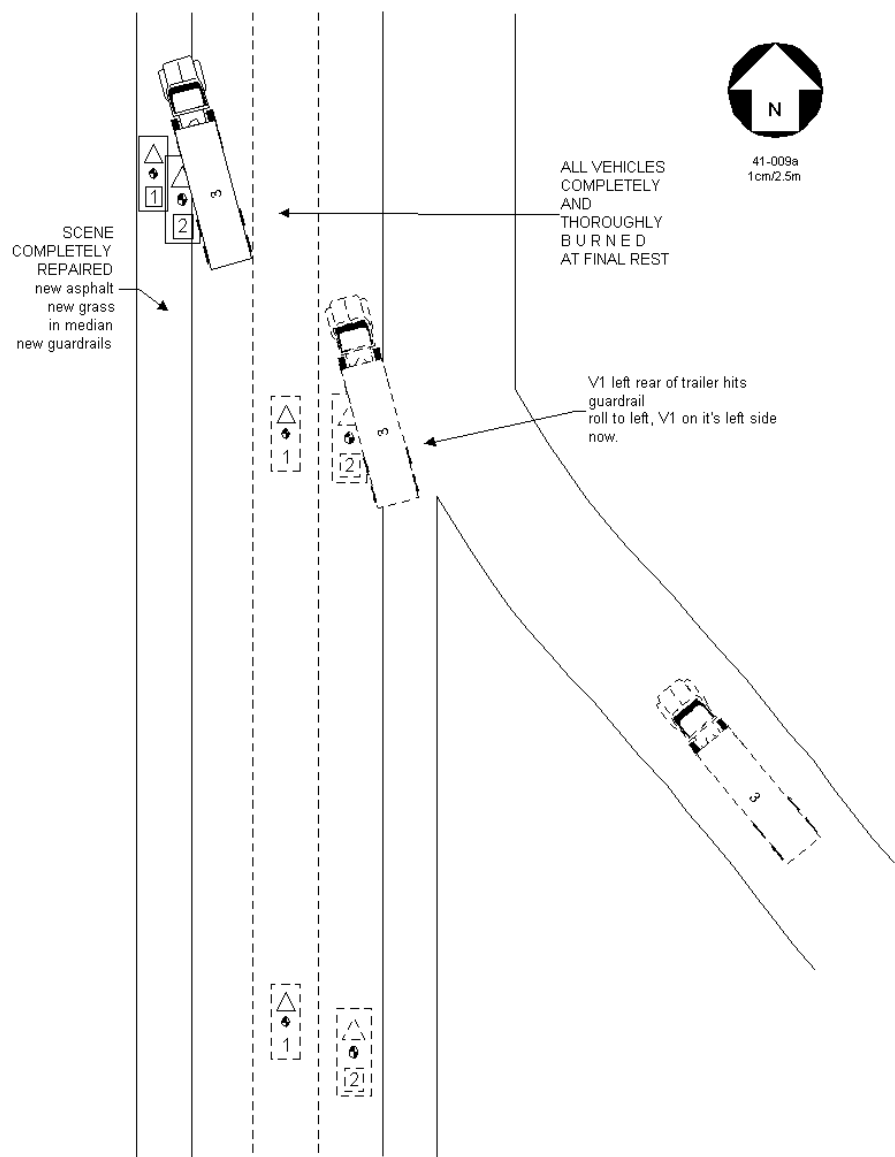
Occupant	1999-41-80-1-1
MAIS	7=Unk. sev.
Seat Position	Front left side

AIS Level	Injury Description	Contacts
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29 Case 1999-41-9

Summary:

Accident scene: an interchange, one lane exiting an interstate from West to North and the joining lanes of a Northbound three lane trafficway. Level, bituminous, dry, dark but lighted. Accident configuration: V3 (a fuel tanker truck) was exiting from Westbound to Northbound curving to the right. V3 lost control and the left rear side of the trailer hit the guardrail and the trailer started to roll to the left one quarter turn CCW and came down on the top of V2 a large pickup truck. V2 was Northbound in the right lane and V1 in second from right both Northbound. The two vehicles then slid sideways to the West and the left side of V2 struck the right side of V1, then all three vehicles became pinned to the guardrail on the West side of the roadway. The left side of V1 was against the guardrail. All vehicles came to final rest facing North against the guardrail. All vehicles burned thoroughly and completely. All vehicles were towed. Accident injury: Tanker driver/non-incapacitating, D2/fatal, D1/non-incapacitating, pass. in V1/fatal. All injured transported.



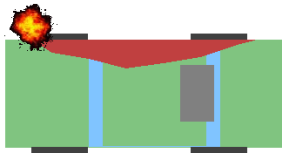
Vehicle	Body type	Make	Model	Year	Occ. Age	Occupant's sex	Maximum known occupant ais
1	4-DR SEDAN/HDTOP	Mitsubishi	Mirage	1990	45	FEMALE-NOT PREG	1=Minor
1	4-DR SEDAN/HDTOP	Mitsubishi	Mirage	1990	43	FEMALE-NOT PREG	6=Maximum
2	LARGE PICKUP	Dodge	Ram 1500 P/U	1997	50	MALE	6=Maximum

Occupant: 1999-41-9-1-1



Fire Information

Fire Occurrence	Major fire
Fire Origin	Other location
Location of Fuel Leakage	Other
Type of Fuel Tank	Metallic
Fuel Tank Location	Forward of rear axle, centered
Fuel Cap Location	Left side, behind rear axle
Fuel Tank Damage	Other damage
Fuel Type	Gasoline



Pre-Crash Environment

Traffic Flow	DVDED/NO BARRIER
Number of Travel Lanes	THREE
Roadway Alignment	STRAIGHT
Roadway Profile	LEVEL
Roadway Surface Type	ASPHALT
Roadway Surface Condition	DRY
Light Conditions	DARK/LIGHTED
Atmospheric Conditions	No ADVERSE COND
Relation to Intersection	INTERCHANGE REL
Traffic Control Device	
Police Reported Alcohol Presence	No ALCOHOL
Alcohol Test (< 95 indicates BAC 0.xx)	0

Crash Severity

Nr. Quarter Turns	No rollover
Impact Speed	998
Total, Longitudal, and Lateral δV	49 31 -37
Est. δV with sequence number	DELTA V CODED 3
CDC	4 R P E W 3
Damage (C1-C6)	20 29 44 35 26 7
Crush (L and D)	345 -5
Object Contacted 1	VEHICLE NO. 2
Object Contacted 2	Other BARRIER

NASS Weighting Factor

Weighting factor	20.570533761
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Rollover Characteristics

Number of Events	7
Rollover Initiation Type	No rollover
Location of Rollover Initiation	No rollover
Rollover Initiation Object Contacted	No rollover
Location on Vehicle where Principal Tripping Force was Applied	No rollover
Direction of Initial Roll	No rollover

Vehicle Factors

Make-Model	Mitsubishi Mirage
Year	1990
Class	Unknown
Body Type	4-DR SEDAN/HDTOP
Weight	103

Pre-Crash Driver Data

Accident Type	98
Pre-event Movement	GOING STRAIGHT
Critical Pre-crash Event	Same DIR-OV RGHT
Attempted Avoidance Manuever	No AVOIDANCE
Pre-impact Stability	TRACKING
Pre-impact Location	STAYED IN LANE

DRIVER Factors

Age	45	Height	0	Weight	0
Gender					FEMALE-NOT PREG
Ejection					No EJECTION
Ejection Area					No EJECTION
Entrapment					Not ENTRAPPED

Restraint Factors

Restrain	None used/avail
AOPS	NO
Airbag Deployment	Not EQUIP/AVAIL
Airbag Deployment - 1 st Seat	Not EQUIP/AVAIL
Airbag Deployment - Oth Seat	Not EQUIP W/ OTH

Injuries

Occupant	1999-41-9-1-1
MAIS	1=Minor
Seat Position	Front left side

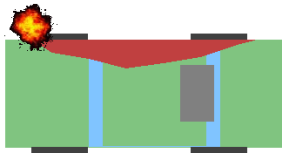
AIS Level	Injury Description	Contacts
1=Minor	Upper extremity skin abrasion	Left interior
1=Minor	Leg skin abrasion	Left apnel
1=Minor	792006	Fire in vehicle

Occupant: 1999-41-9-1-2



Fire Information

Fire Occurrence	Major fire
Fire Origin	Other location
Location of Fuel Leakage	Other
Type of Fuel Tank	Metallic
Fuel Tank Location	Forward of rear axle, centered
Fuel Cap Location	Left side, behind rear axle
Fuel Tank Damage	Other damage
Fuel Type	Gasoline



Pre-Crash Environment

Traffic Flow	DVDED/NO BARRIER
Number of Travel Lanes	THREE
Roadway Alignment	STRAIGHT
Roadway Profile	LEVEL
Roadway Surface Type	ASPHALT
Roadway Surface Condition	DRY
Light Conditions	DARK/LIGHTED
Atmospheric Conditions	No ADVERSE COND
Relation to Intersection	INTERCHANGE REL
Traffic Control Device	
Police Reported Alcohol Presence	No ALCOHOL
Alcohol Test (< 95 indicates BAC 0.xx)	0

Vehicle Factors

Make-Model	Mitsubishi Mirage
Year	1990
Class	Unknown
Body Type	4-DR SEDAN/HDTOP
Weight	103

Crash Severity

Nr. Quarter Turns	No rollover
Impact Speed	998
Total, Longitudal, and Lateral δV	49 31 -37
Est. δV with sequence number	DELTA V CODED 3
CDC	4 R P E W 3
Damage (C1-C6)	20 29 44 35 26 7
Crush (L and D)	345 -5
Object Contacted 1	VEHICLE NO. 2
Object Contacted 2	Other BARRIER

Pre-Crash Driver Data

Accident Type	98
Pre-event Movement	GOING STRAIGHT
Critical Pre-crash Event	Same DIR-OV RGHT
Attempted Avoidance Manuever	No AVOIDANCE
Pre-impact Stability	TRACKING
Pre-impact Location	STAYED IN LANE

NASS Weighting Factor

Weighting factor	20.570533761
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PASSENGER Factors

Age	43	Height	0	Weight	0
Gender					FEMALE-NOT PREG
Ejection					No EJECTION
Ejection Area					No EJECTION
Entrapment					Not ENTRAPPED

Rollover Characteristics

Number of Events	7
Rollover Initiation Type	No rollover
Location of Rollover Initiation	No rollover
Rollover Initiation Object Contacted	No rollover
Location on Vehicle where Principal Tripping Force was Applied	No rollover
Direction of Initial Roll	No rollover

Restraint Factors

Restrain	None used/avail
AOPS	NO
Airbag Deployment	Not EQUIP/AVAIL
Airbag Deployment - 1 st Seat	Not EQUIP/AVAIL
Airbag Deployment - Oth Seat	Not EQUIP W/ OTH

Injuries

Occupant	1999-41-9-1-2
MAIS	6=Maximum
Seat Position	Front right side

AIS Level	Injury Description	Contacts
4=Severe	Inhalation injury, moderate (CO level 20-40 mg6=Maximum	Burn, 2nd or 3rd degree, >90

Occupant: 1999-41-9-2-1



Fire Information

Fire Occurrence	Major fire
Fire Origin	Other location
Location of Fuel Leakage	No fuel tank
Type of Fuel Tank	Metallic
Fuel Tank Location	Forward of rear axle, centered
Fuel Cap Location	Left side, forward rear axle
Fuel Tank Damage	Other damage
Fuel Type	Gasoline



Pre-Crash Environment

Traffic Flow	DVDED/NO BARRIER
Number of Travel Lanes	THREE
Roadway Alignment	STRAIGHT
Roadway Profile	LEVEL
Roadway Surface Type	ASPHALT
Roadway Surface Condition	DRY
Light Conditions	DARK/LIGHTED
Atmospheric Conditions	No ADVERSE COND
Relation to Intersection	INTERCHANGE REL
Traffic Control Device	
Police Reported Alcohol Presence	No ALCOHOL
Alcohol Test (< 95 indicates BAC 0.xx)	1

Vehicle Factors

Make-Model	Dodge Ram 1500 P/U
Year	1997
Class	TRUCK
Body Type	LARGE PICKUP
Weight	183

Pre-Crash Driver Data

Accident Type	98
Pre-event Movement	GOING STRAIGHT
Critical Pre-crash Event	ENTR LTD ACC HWY
Attempted Avoidance Manuever	No AVOIDANCE
Pre-impact Stability	TRACKING
Pre-impact Location	STAYED IN LANE

Crash Severity

Nr. Quarter Turns	No rollover
Impact Speed	< 0.5KMPH
Total, Longitudal, and Lateral δV	< 0.5 KMPH < 0.5 KMPH < 0.5 KMPH
Est. δV with sequence number	SEVERE 2
CDC	0 T D D W 3
Damage (C1-C6)	0 0 0 0 0 0
Crush (L and D)	0 0
Object Contacted 1	VEHICLE NO. 3
Object Contacted 2	VEHICLE NO. 1

NASS Weighting Factor

Weighting factor	20.570533761
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Rollover Characteristics

Number of Events	7
Rollover Initiation Type	No rollover
Location of Rollover Initiation	No rollover
Rollover Initiation Object Contacted	No rollover
Location on Vehicle where Principal Tripping Force was Applied	No rollover
Direction of Initial Roll	No rollover

DRIVER Factors

Age	50	Height	0	Weight	0
Gender					MALE
Ejection					No EJECTION
Ejection Area					No EJECTION
Entrapment					Not ENTRAPPED

Restraint Factors

Restrain	None used/avail
AOPS	YES-RES DET
Airbag Deployment	Unk IF DEPLOYED
Airbag Deployment - 1 st Seat	DR
PAS UNK DEPLY	
Airbag Deployment - Oth Seat	Not EQUIP W/ OTH

Injuries

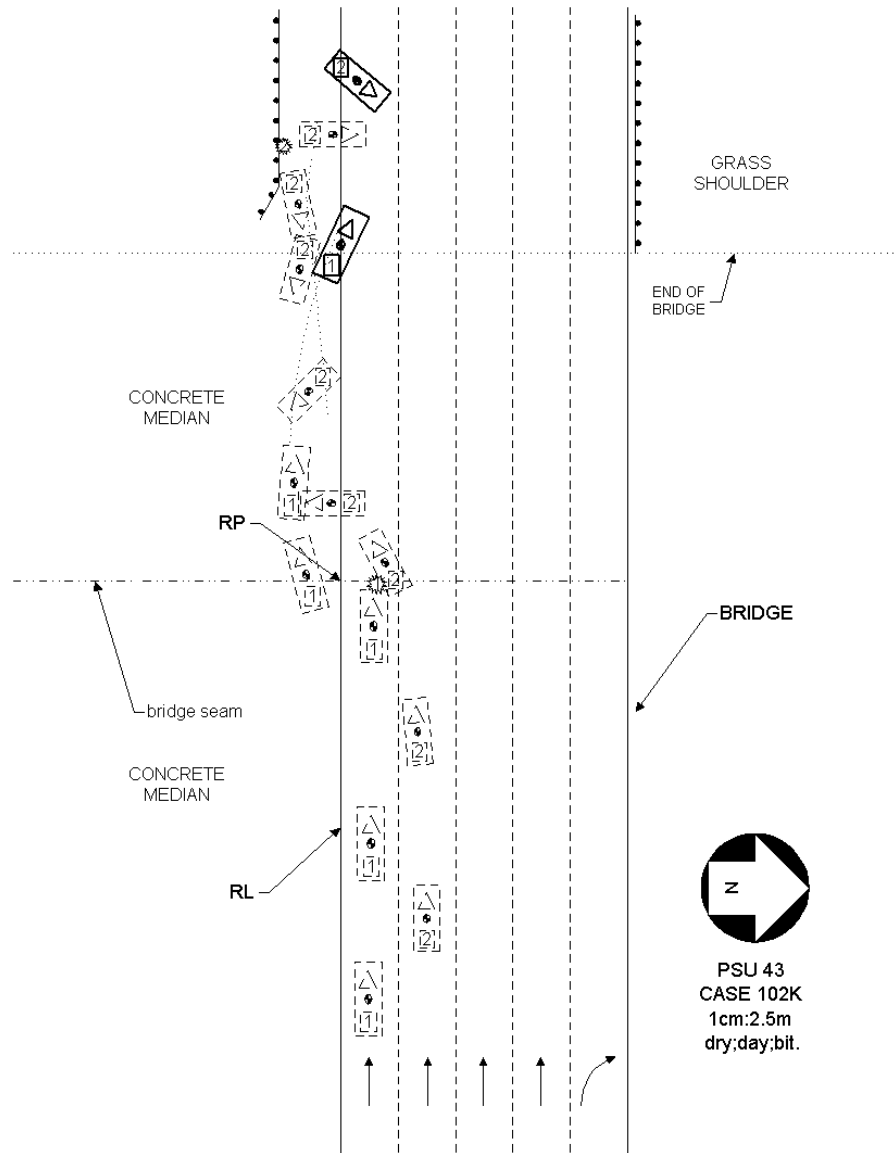
Occupant	1999-41-9-2-1
MAIS	6=Maximum
Seat Position	Front left side

AIS Level	Injury Description	Contacts
6=Maximum	Burn, 2nd or 3rd degree, >903=Serious	Inhalation injury, minor (CO level<20 mg

30 Case 1999-43-102

Summary:

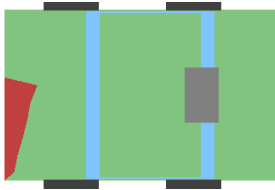
Vehicle one was traveling west in the fifth lane of an eight-lane, dry, concrete roadway during the daytime. The road is divided but only a flat concrete median separates the two directions of travel. Vehicle two was traveling west in the fourth lane of the same roadway. Vehicle two began changing lanes in front of v1. The front of v1 collided with the left rear of v2. Vehicle two rotated counterclockwise and its rear collided with the guardrail. Both vehicles came to rest in the roadway. Vehicle two's engine then caught fire and burned most of the vehicle. Both vehicles were towed due to damage. The driver of v1 suffered "B" injuries. The driver and passenger of v2 suffered "A" injuries and were transported and hospitalized at a local trauma center.



Vehicle	Body type	Make	Model	Year	Occ.#	Age	Occupant's sex	Maximum known occupant ais
1	COMPACT UTILITY	Chevrolet	S-10 Blazer	1994	1	37	MALE	7=Unk. sev.
2	CONVERTIBLE	VW	Beetle	1970	1	54	FEMALE-NOT PREG	4=Severe
2	CONVERTIBLE	VW	Beetle	1970	2	50	MALE	3=Serious

Occupant: 1999-43-102-1-1**Fire Information**

Fire Occurrence	No fire
Fire Origin	No fire
Location of Fuel Leakage	No fuel leakage
Type of Fuel Tank	Non-metallic
Fuel Tank Location	Behind rear axle, centered
Fuel Cap Location	Left side, behind rear axle
Fuel Tank Damage	No damage
Fuel Type	Gasoline

**Pre-Crash Environment**

Traffic Flow	DVDED/NO BARRIER
Number of Travel Lanes	SEVEN OR MORE
Roadway Alignment	STRAIGHT
Roadway Profile	LEVEL
Roadway Surface Type	CONCRETE
Roadway Surface Condition	DRY
Light Conditions	DAYLIGHT
Atmospheric Conditions	No ADVERSE COND
Relation to Intersection	NONINTER/NONJUNC
Traffic Control Device	
Police Reported Alcohol Presence	No ALCOHOL
Alcohol Test (< 95 indicates BAC 0.xx)	0

Crash Severity

Nr. Quarter Turns	No rollover
Impact Speed	998
Total, Longitudal, and Lateral δV	36 -34 -12
Est. δV with sequence number	DELTA V CODED 1
CDC	1 F D E W 2
Damage (C1-C6)	14 19 27 33 38 48
Crush (L and D)	152 0
Object Contacted 1	VEHICLE NO. 2
Object Contacted 2	0

NASS Weighting Factor

Weighting factor	51.367568383
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Rollover Characteristics

Number of Events	3
Rollover Initiation Type	No rollover
Location of Rollover Initiation	No rollover
Rollover Initiation Object Contacted	No rollover
Location on Vehicle where Principal Tripping Force was Applied	No rollover
Direction of Initial Roll	No rollover

Vehicle Factors

Make-Model	Chevrolet S-10 Blazer
Year	1994
Class	PASSENGER CAR
Body Type	COMPACT UTILITY
Weight	159

Pre-Crash Driver Data

Accident Type	45
Pre-event Movement	GOING STRAIGHT
Critical Pre-crash Event	Same DIR-OV RGHT
Attempted Avoidance Manuever	No DRIVER
Pre-impact Stability	TRACKING
Pre-impact Location	STAYED IN LANE

DRIVER Factors

Age	37	Height	0	Weight	0
Gender					MALE
Ejection					No EJECTION
Ejection Area					No EJECTION
Entrapment					Not ENTRAPPED

Restraint Factors

Restrain	Lap and shoulder
AOPS	NO
Airbag Deployment	Not EQUIP/AVAIL
Airbag Deployment - 1 st Seat	Not EQUIP/AVAIL
Airbag Deployment - Oth Seat	Not EQUIP W/ OTH

Injuries

Occupant	1999-43-102-1-1
MAIS	7=Unk. sev.
Seat Position	Front left side

AIS Level	Injury Description	Contacts
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Occupant: 1999-43-102-2-1



Fire Information

Fire Occurrence	Major fire
Fire Origin	Engine compartment
Location of Fuel Leakage	No fuel tank
Type of Fuel Tank	Metallic
Fuel Tank Location	No fuel tank
Fuel Cap Location	No fuel tank
Fuel Tank Damage	Deform+seam fail
Fuel Type	Gasoline



Pre-Crash Environment

Traffic Flow	DVDED/NO BARRIER
Number of Travel Lanes	SEVEN OR MORE
Roadway Alignment	STRAIGHT
Roadway Profile	LEVEL
Roadway Surface Type	CONCRETE
Roadway Surface Condition	DRY
Light Conditions	DAYLIGHT
Atmospheric Conditions	No ADVERSE COND
Relation to Intersection	NONINTER/NONJUNC
Traffic Control Device	
Police Reported Alcohol Presence	No ALCOHOL
Alcohol Test (< 95 indicates BAC 0.xx)	0

Crash Severity

Nr. Quarter Turns	No rollover
Impact Speed	998
Total, Longitudal, and Lateral δV	60 39 46
Est. δV with sequence number	DELTA V CODED 1
CDC	8 L Z E W 6
Damage (C1-C6)	65 74 82 37 20 0
Crush (L and D)	170 -85
Object Contacted 1	VEHICLE NO. 1
Object Contacted 2	Other BARRIER

NASS Weighting Factor

Weighting factor	51.367568383
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Rollover Characteristics

Number of Events	3
Rollover Initiation Type	No rollover
Location of Rollover Initiation	No rollover
Rollover Initiation Object Contacted	No rollover
Location on Vehicle where Principal Tripping Force was Applied	No rollover
Direction of Initial Roll	No rollover

Vehicle Factors

Make-Model	VW Beetle
Year	1970
Class	PASSENGER CAR
Body Type	CONVERTIBLE
Weight	84

Pre-Crash Driver Data

Accident Type	47
Pre-event Movement	CHANGING LANES
Critical Pre-crash Event	OVER LINE-LEFT
Attempted Avoidance Manuever	No AVOIDANCE
Pre-impact Stability	TRACKING
Pre-impact Location	Left TRAVEL LANE

DRIVER Factors

Age	54	Height	173	Weight	64
Gender					FEMALE-NOT PREG
Ejection					No EJECTION
Ejection Area					No EJECTION
Entrapment					JAMMED DOOR/FIRE

Restraint Factors

Restrain	None used/avail
AOPS	NO
Airbag Deployment	Not EQUIP/AVAIL
Airbag Deployment - 1 st Seat	Not EQUIP/AVAIL
Airbag Deployment - Oth Seat	Not EQUIP W/ OTH

Injuries

Occupant	1999-43-102-2-1
MAIS	4=Severe
Seat Position	Front left side

AIS Level	Injury Description	Contacts
3=Serious	Cerebral subarachnoid hemorrhage	Left window fram
2=Moderate	Lumbar fracture of transverse process without cord injury	Seat, back
2=Moderate	Lumbar fracture of transverse process without cord injury	Seat, back
2=Moderate	Lumbar fracture of transverse process without cord injury	Seat, back
4=Severe	Cerebral subdural hematoma, NFS	Left window fram
4=Severe	Cerebral subdural hematoma, NFS	Left window fram
1=Minor	Finger fracture	Other occupants
1=Minor	Finger fracture	Other occupants
2=Moderate	2-3 rib fractures with stable chest	Steering rim
3=Serious	Lung contusion, uni-lateral	Other occupants
3=Serious	Symphysis pubis separation or fracture	Other occupants
3=Serious	Pelvic fracture, open/displaced/comminuted	Seat, back
3=Serious	Pelvic fracture, open/displaced/comminuted	Seat, back
3=Serious	Sacroiliac fracture	Seat, back
1=Minor	Upper extremity skin abrasion	Other occupants
1=Minor	Leg skin contusion (hematoma)	Left hardware
1=Minor	792000	Fire in vehicle

Occupant: 1999-43-102-2-2



Fire Information

Fire Occurrence	Major fire
Fire Origin	Engine compart
Location of Fuel Leakage	No fuel tank
Type of Fuel Tank	Metallic
Fuel Tank Location	No fuel tank
Fuel Cap Location	No fuel tank
Fuel Tank Damage	Deform+seam fail
Fuel Type	Gasoline



Crash Severity

Nr. Quarter Turns	No rollover
Impact Speed	998
Total, Longitudal, and Lateral δV	60 39 46
Est. δV with sequence number	DELTA V CODED 1
CDC	8 L Z E W 6
Damage (C1-C6)	65 74 82 37 20 0
Crush (L and D)	170 -85
Object Contacted 1	VEHICLE NO. 1
Object Contacted 2	Other BARRIER

NASS Weighting Factor

Weighting factor	51.367568383
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Rollover Characteristics

Number of Events	3
Rollover Initiation Type	No rollover
Location of Rollover Initiation	No rollover
Rollover Initiation Object Contacted	No rollover
Location on Vehicle where Principal Tripping Force was Applied	No rollover
Direction of Initial Roll	No rollover

Pre-Crash Environment

Traffic Flow	DVDED/NO BARRIER
Number of Travel Lanes	SEVEN OR MORE
Roadway Alignment	STRAIGHT
Roadway Profile	LEVEL
Roadway Surface Type	CONCRETE
Roadway Surface Condition	DRY
Light Conditions	DAYLIGHT
Atmospheric Conditions	No ADVERSE COND
Relation to Intersection	NONINTER/NONJUNC
Traffic Control Device	
Police Reported Alcohol Presence	No ALCOHOL
Alcohol Test (< 95 indicates BAC 0.xx)	0

Vehicle Factors

Make-Model	VW Beetle
Year	1970
Class	PASSENGER CAR
Body Type	CONVERTIBLE
Weight	84

Pre-Crash Driver Data

Accident Type	47
Pre-event Movement	CHANGING LANES
Critical Pre-crash Event	OVER LINE-LEFT
Attempted Avoidance Manuever	No AVOIDANCE
Pre-impact Stability	TRACKING
Pre-impact Location	Left TRAVEL LANE

PASSENGER Factors

Age	50	Height	188	Weight	82
Gender			MALE		
Ejection			No EJECTION		
Ejection Area			No EJECTION		
Entrapment			JAMMED DOOR/FIRE		

Restraint Factors

Restrain	None used/avail
AOPS	NO
Airbag Deployment	Not EQUIP/AVAIL
Airbag Deployment - 1 st Seat	Not EQUIP/AVAIL
Airbag Deployment - Oth Seat	Not EQUIP W/ OTH

Injuries

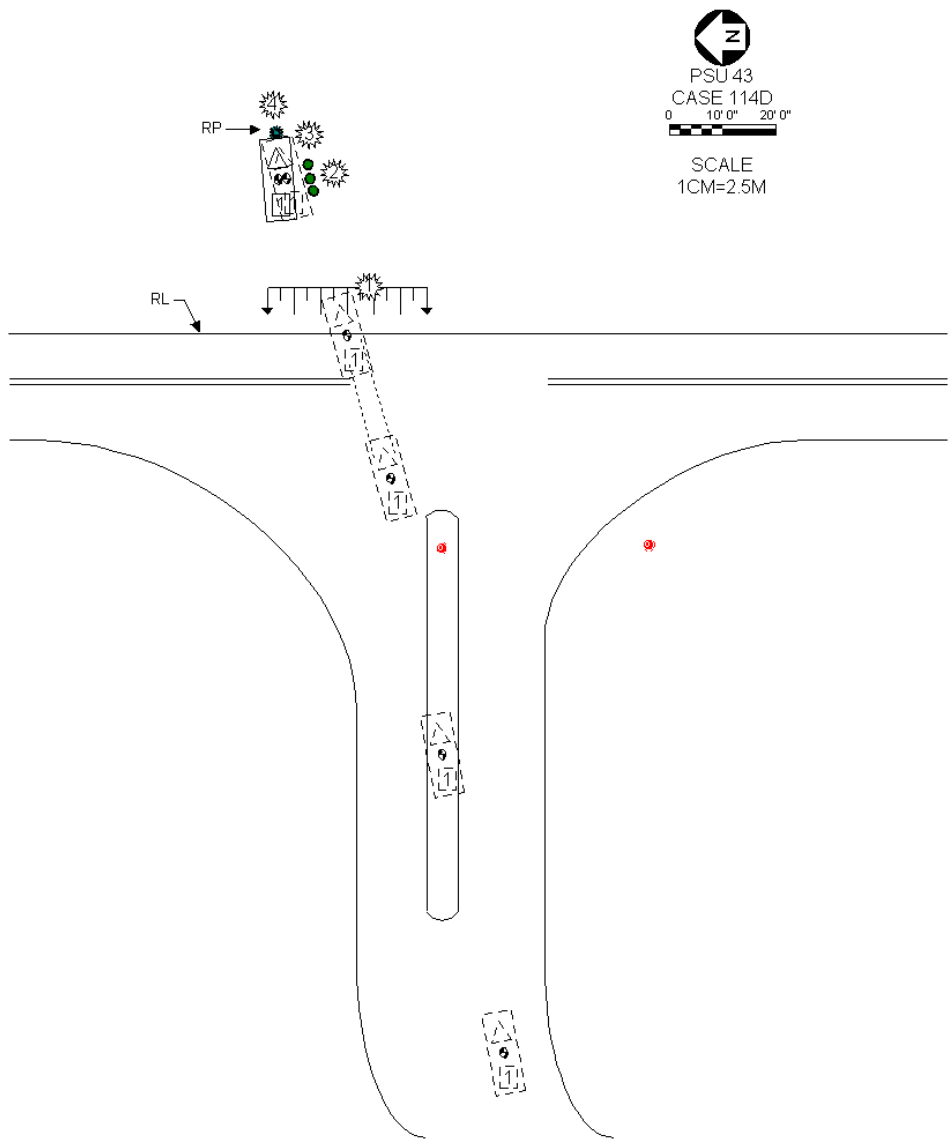
Occupant	1999-43-102-2-2
MAIS	3=Serious
Seat Position	Front right side

AIS Level	Injury Description	Contacts
2=Moderate	Clavicle fracture	Other occupants
3=Serious	Thoracic cavity injury NFS, with hemo- /pneumothorax	Other occupants
2=Moderate	Radial fracture, closed	Other occupants
3=Serious	Ulnar fracture, open/displaced/comminuted	Other occupants
1=Minor	Upper extremity skin abrasion	Other occupants
2=Moderate	Glenohumeral joint laceration (into joint)	Seat, back
1=Minor	Abdominal skin contu- sion	Other occupants
1=Minor	Leg skin contusion (hematoma)	Other occupants

31 Case 1999-43-114

Summary:

V1 was traveling east, negotiating a curve right, on a 2-lane, undivided roadway approaching an intersecting road at night. The bituminous roadway was dry and had a downhill slope . V1 departed the roadway at the end departure striking an embankment and a tree with its front plane. V1 continued to strike some shrubbery with its right side. V1 caught fire after coming to its final rest. V1 was towed due to damage. The driver sustained "A" injuries and was treated and released. The RF occupant sustained "B" injuries and was also treated and released.



Vehicle	Body type	Make	Model	Year	Occ.#	Age	Occupant's sex	Maximum known occupant ais
1	4-DR SEDAN/HDTOP	BMW	5-series	1994	1	23	MALE	3=Serious
1	4-DR SEDAN/HDTOP	BMW	5-series	1994	2	18	MALE	1=Minor

Occupant: 1999-43-114-1-1



Fire Information

Fire Occurrence	Major fire
Fire Origin	Engine compart
Location of Fuel Leakage	No fuel leakage
Type of Fuel Tank	Metallic
Fuel Tank Location	Behind rear axle, centered
Fuel Cap Location	Right side, behind rear axle
Fuel Tank Damage	No damage
Fuel Type	Gasoline



Crash Severity

Nr. Quarter Turns	No rollover
Impact Speed	998
Total, Longitudal, and Lateral δV	37 -36 6
Est. δV with sequence number	DELTA V CODED 1
CDC	12 F D E W 3
Damage (C1-C6)	12 24 30 43 47 59
Crush (L and D)	150 0
Object Contacted 1	EMBANKMENT
Object Contacted 2	BUSH

NASS Weighting Factor

Weighting factor	99.920194018
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Rollover Characteristics

Number of Events	4
Rollover Initiation Type	No rollover
Location of Rollover Initiation	No rollover
Rollover Initiation Object Contacted	No rollover
Location on Vehicle where Principal Tripping Force was Applied	No rollover
Direction of Initial Roll	No rollover

Pre-Crash Environment

Traffic Flow	Not DIVIDED
Number of Travel Lanes	TWO
Roadway Alignment	CURVE RIGHT
Roadway Profile	DOWNHILL GRADE
Roadway Surface Type	ASPHALT
Roadway Surface Condition	DRY
Light Conditions	DARK
Atmospheric Conditions	No ADVERSE COND
Relation to Intersection	INTERSECTION REL
Traffic Control Device	
Police Reported Alcohol Presence	ALCOHOL PRESENT
Alcohol Test (< 95 indicates BAC 0.xx)	0

Vehicle Factors

Make-Model	BMW 5-series
Year	1994
Class	PASSENGER CAR
Body Type	4-DR SEDAN/HDTOP
Weight	172

Pre-Crash Driver Data

Accident Type	14
Pre-event Movement	NEGOTIATE CURVE
Critical Pre-crash Event	END DEPARTURE
Attempted Avoidance Manuever	BRAKE W/O LOCKUP
Pre-impact Stability	TRACKING
Pre-impact Location	DEPARTED ROADWAY

DRIVER Factors

Age	23	Height	178	Weight	77
Gender			MALE		
Ejection			No EJECTION		
Ejection Area			No EJECTION		
Entrapment			Not ENTRAPPED		

Restraint Factors

Restrain	Lap and shoulder
AOPS	YES-RES DET
Airbag Deployment	BAG DEPLOYED
Airbag Deployment - 1 st Seat	DR
PAS BAG DEPLY	
Airbag Deployment - Oth Seat	Not EQUIP W/ OTH

Injuries

Occupant	1999-43-114-1-1
MAIS	3=Serious
Seat Position	Front left side

AIS Level	Injury Description	Contacts
3=Serious	Lung contusion, uni-lateral	Belt webb/buckle
2=Moderate	Clavicle fracture	Belt webb/buckle
1=Minor	Thoracic skin contusion	Belt webb/buckle
1=Minor	Thoracic skin abrasion	Belt webb/buckle
1=Minor	Abdominal skin contusion	Belt webb/buckle
1=Minor	Abdominal skin abrasion	Belt webb/buckle
1=Minor	Upper extremity skin laceration, minor	Unknown SOURCE

Occupant: 1999-43-114-1-2



Fire Information

Fire Occurrence	Major fire
Fire Origin	Engine compart
Location of Fuel Leakage	No fuel leakage
Type of Fuel Tank	Metallic
Fuel Tank Location	Behind rear axle, centered
Fuel Cap Location	Right side, behind rear axle
Fuel Tank Damage	No damage
Fuel Type	Gasoline



Crash Severity

Nr. Quarter Turns	No rollover
Impact Speed	998
Total, Longitudal, and Lateral δV	37 -36 6
Est. δV with sequence number	DELTA V CODED 1
CDC	12 F D E W 3
Damage (C1-C6)	12 24 30 43 47 59
Crush (L and D)	150 0
Object Contacted 1	EMBANKMENT
Object Contacted 2	BUSH

NASS Weighting Factor

Weighting factor	99.920194018
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Rollover Characteristics

Number of Events	4
Rollover Initiation Type	No rollover
Location of Rollover Initiation	No rollover
Rollover Initiation Object Contacted	No rollover
Location on Vehicle where Principal Tripping Force was Applied	No rollover
Direction of Initial Roll	No rollover

Pre-Crash Environment

Traffic Flow	Not DIVIDED
Number of Travel Lanes	TWO
Roadway Alignment	CURVE RIGHT
Roadway Profile	DOWNHILL GRADE
Roadway Surface Type	ASPHALT
Roadway Surface Condition	DRY
Light Conditions	DARK
Atmospheric Conditions	No ADVERSE COND
Relation to Intersection	INTERSECTION REL
Traffic Control Device	
Police Reported Alcohol Presence	ALCOHOL PRESENT
Alcohol Test (< 95 indicates BAC 0.xx)	0

Vehicle Factors

Make-Model	BMW 5-series
Year	1994
Class	PASSENGER CAR
Body Type	4-DR SEDAN/HDTOP
Weight	172

Pre-Crash Driver Data

Accident Type	14
Pre-event Movement	NEGOTIATE CURVE
Critical Pre-crash Event	END DEPARTURE
Attempted Avoidance Manuever	BRAKE W/O LOCKUP
Pre-impact Stability	TRACKING
Pre-impact Location	DEPARTED ROADWAY

PASSENGER Factors

Age	18	Height	168	Weight	77
Gender			MALE		
Ejection			No EJECTION		
Ejection Area			No EJECTION		
Entrapment			Not ENTRAPPED		

Restraint Factors

Restrain	Lap and shoulder
AOPS	YES-RES DET
Airbag Deployment	BAG DEPLOYED
Airbag Deployment - 1 st Seat	DR
PAS BAG DEPLY	
Airbag Deployment - Oth Seat	Not EQUIP W/ OTH

Injuries

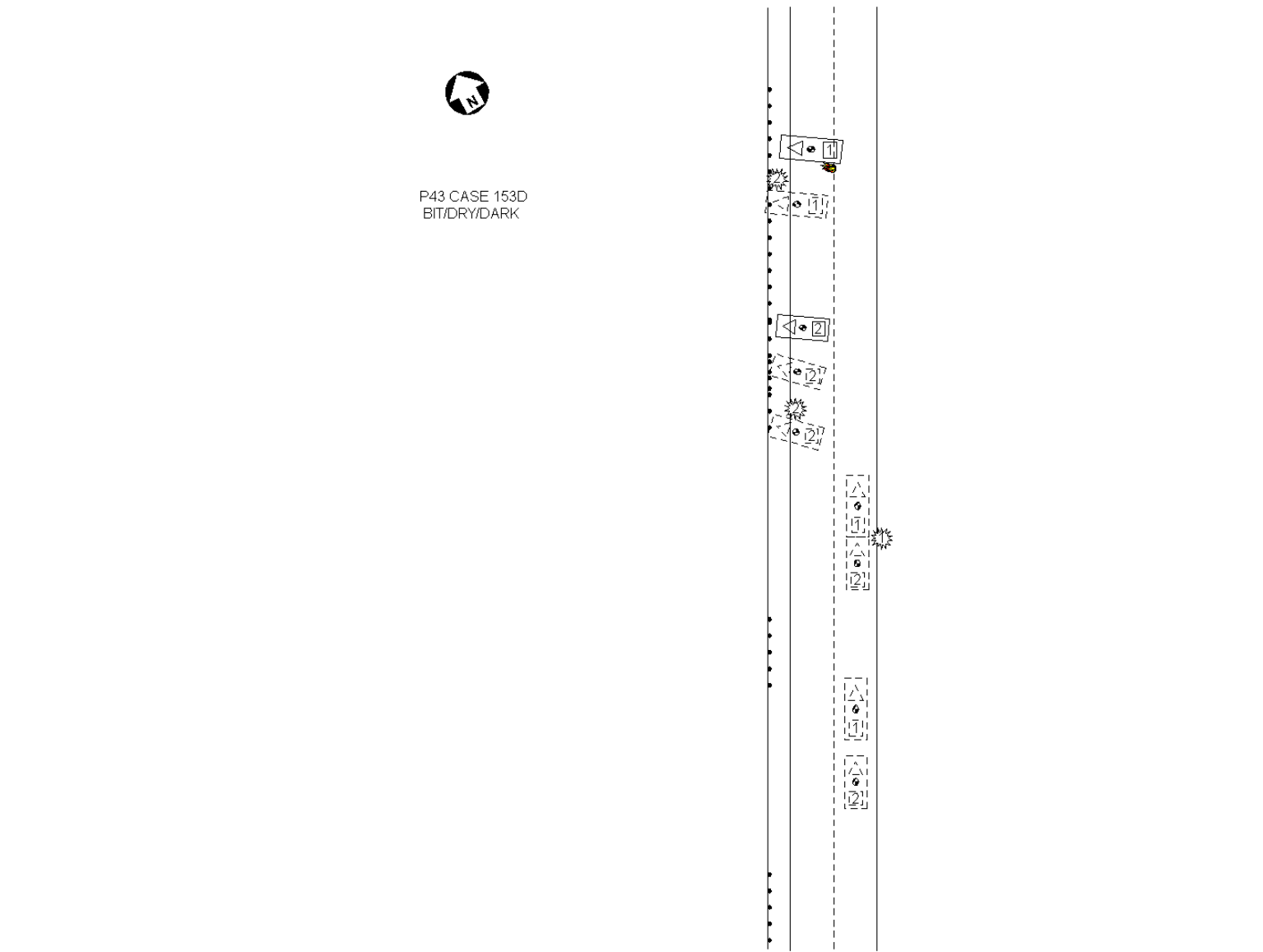
Occupant	1999-43-114-1-2
MAIS	1=Minor
Seat Position	Front right side

AIS Level	Injury Description	Contacts
7=Unk. sev.	Head injury, closed, NFS	Steering rim
1=Minor	Facial skin laceration, minor	Steering rim
1=Minor	Leg skin laceration, minor	Left apnel
1=Minor	Thoracic skin contusion	Unknown SOURCE
1=Minor	Abdominal skin contusion	Unknown SOURCE

32 Case 1999-43-153

Summary:

Vehicle one was traveling north east on a four lane, divided, bituminous, dry, roadway in lane one . Vehicle two was traveling in the same lane. Vehicle two's front plane impacted vehicle one's back plane Vehicle one impacted the guard rail with its front plane and experienced a fire. . Vehicle two impacted the guardrail with its front plane. Both vehicles were towed due to damage. The driver of vehicle one received an "A" injury and was transported and released. The driver of vehicle two received a "B" injury and was not transported.



Vehicle	Body type	Make	Model	Year	Occ.#	Age	Occupant's sex	Maximum known occupant ais
1	4-DR SEDAN/HDTOP	Honda	Accord	1987	1	40	FEMALE-NOT PREG	1=Minor
2	COMPACT UTILITY	Jeep	YJ-Wrangler	1993	1	19	MALE	1=Minor

Occupant: 1999-43-153-1-1



Fire Information

Fire Occurrence	Major fire
Fire Origin	Fuel tank
Location of Fuel Leakage	No fuel tank
Type of Fuel Tank	Metallic
Fuel Tank Location	Behind rear axle, centered
Fuel Cap Location	Right side, behind rear axle
Fuel Tank Damage	Deformed
Fuel Type	Gasoline



Crash Severity

Nr. Quarter Turns	No rollover
Impact Speed	998
Total, Longitudal, and Lateral δV	48 48 < 0.5 KMPH
Est. δV with sequence number	DELTA V CODED 1
CDC	6 B D E W 5
Damage (C1-C6)	0 7 20 29 35 47
Crush (L and D)	150 0
Object Contacted 1	VEHICLE NO. 2
Object Contacted 2	Other BARRIER

NASS Weighting Factor

Weighting factor	452.03460177
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Rollover Characteristics

Number of Events	4
Rollover Initiation Type	No rollover
Location of Rollover Initiation	No rollover
Rollover Initiation Object Contacted	No rollover
Location on Vehicle where Principal Tripping Force was Applied	No rollover
Direction of Initial Roll	No rollover

Pre-Crash Environment

Traffic Flow	DVDED/W/BARRIER
Number of Travel Lanes	TWO
Roadway Alignment	STRAIGHT
Roadway Profile	LEVEL
Roadway Surface Type	ASPHALT
Roadway Surface Condition	DRY
Light Conditions	DARK
Atmospheric Conditions	No ADVERSE COND
Relation to Intersection	NONINTER/NONJUNC
Traffic Control Device	
Police Reported Alcohol Presence	No ALCOHOL
Alcohol Test (< 95 indicates BAC 0.xx)	0

Vehicle Factors

Make-Model	Honda Accord
Year	1997
Class	PASSENGER CAR
Body Type	4-DR SEDAN/HDTOP
Weight	110

Pre-Crash Driver Data

Accident Type	25
Pre-event Movement	GOING STRAIGHT
Critical Pre-crash Event	Same DIR-HISPEED
Attempted Avoidance Manuever	No DRIVER
Pre-impact Stability	TRACKING
Pre-impact Location	STAYED IN LANE

DRIVER Factors

Age	40	Height	0	Weight	0
Gender					FEMALE-NOT PREG
Ejection					No EJECTION
Ejection Area					No EJECTION
Entrapment					Not ENTRAPPED

Restraint Factors

Restrain	Type unknown
AOPS	NO
Airbag Deployment	Not EQUIP/AVAIL
Airbag Deployment - 1 st Seat	Not EQUIP/AVAIL
Airbag Deployment - Oth Seat	Not EQUIP W/ OTH

Injuries

Occupant	1999-43-153-1-1
MAIS	1=Minor
Seat Position	Front left side

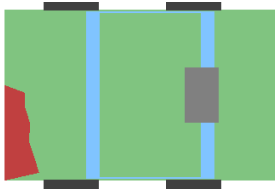
AIS Level	Injury Description	Contacts
1=Minor	Acute cervical spine strain without fracture or dislocation	Unknown SOURCE
1=Minor	Lumbar spine acute strain without fracture or dislocation	Unknown SOURCE
1=Minor	Upper extremity skin abrasion	Unknown SOURCE
1=Minor	Upper extremity skin contusion	Unknown SOURCE
1=Minor	Leg skin contusion (hematoma)	Unknown SOURCE
1=Minor	Thoracic skin contusion	Unknown SOURCE

Occupant: 1999-43-153-2-1



Fire Information

Fire Occurrence	No fire
Fire Origin	No fire
Location of Fuel Leakage	No fuel leakage
Type of Fuel Tank	Metallic
Fuel Tank Location	Behind rear axle, centered
Fuel Cap Location	On back plane
Fuel Tank Damage	No damage
Fuel Type	Gasoline



Pre-Crash Environment

Traffic Flow	Not DIVIDED
Number of Travel Lanes	TWO
Roadway Alignment	STRAIGHT
Roadway Profile	LEVEL
Roadway Surface Type	ASPHALT
Roadway Surface Condition	DRY
Light Conditions	DARK
Atmospheric Conditions	No ADVERSE COND
Relation to Intersection	NONINTER/NONJUNC
Traffic Control Device	
Police Reported Alcohol Presence	No ALCOHOL
Alcohol Test (< 95 indicates BAC 0.xx)	0

Crash Severity

Nr. Quarter Turns	No rollover
Impact Speed	998
Total, Longitudal, and Lateral δV	37 -37 < 0.5 KMPH
Est. δV with sequence number	DELTA V CODED 1
CDC	12 F D E W 3
Damage (C1-C6)	50 43 35 38 31 30
Crush (L and D)	140 15
Object Contacted 1	VEHICLE NO. 1
Object Contacted 2	Other BARRIER

NASS Weighting Factor

Weighting factor	452.03460177
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Rollover Characteristics

Number of Events	4
Rollover Initiation Type	No rollover
Location of Rollover Initiation	No rollover
Rollover Initiation Object Contacted	No rollover
Location on Vehicle where Principal Tripping Force was Applied	No rollover
Direction of Initial Roll	No rollover

Vehicle Factors

Make-Model	Jeep YJ-Wrangler
Year	1993
Class	TRUCK
Body Type	COMPACT UTILITY
Weight	134

Pre-Crash Driver Data

Accident Type	24
Pre-event Movement	GOING STRAIGHT
Critical Pre-crash Event	Same DIR-LOSPEED
Attempted Avoidance Manuever	No AVOIDANCE
Pre-impact Stability	TRACKING
Pre-impact Location	STAYED IN LANE

DRIVER Factors

Age	19	Height	198	Weight	102
Gender			MALE		
Ejection			No EJECTION		
Ejection Area			No EJECTION		
Entrapment			Not ENTRAPPED		

Restraint Factors

Restrain	Lap and shoulder
AOPS	NO
Airbag Deployment	Not EQUIP/AVAIL
Airbag Deployment - 1 st Seat	Not EQUIP/AVAIL
Airbag Deployment - Oth Seat	Not EQUIP W/ OTH

Injuries

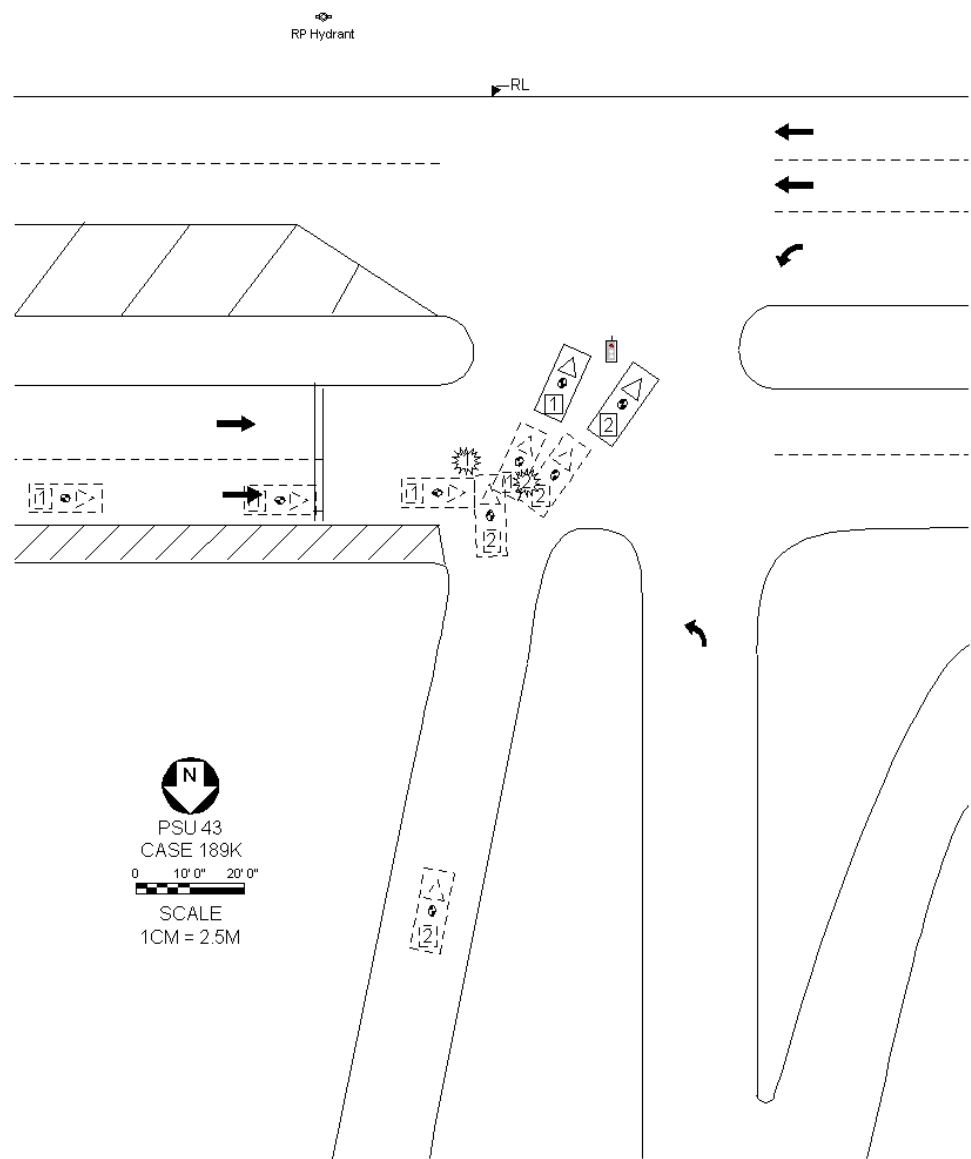
Occupant	1999-43-153-2-1
MAIS	1=Minor
Seat Position	Front left side

AIS Level	Injury Description	Contacts
1=Minor	297602	Steering rim
1=Minor	Facial skin laceration, minor	Steering rim

33 Case 1999-43-189

Summary:

Vehicle one was traveling east on a four lane, divided, roadway , entering a T intersection, on a dry, bituminous, roadway. Vehicle two was traveling south on a two lane divided, bituminous, dry, roadway, attempting a left hand turn at the same intersection. The front plane of vehicle one impacted the left plane on vehicle two. As the vehicles were redirected, V1 right rear sideslapped V2 left rear. Vehicle one experienced a fire in its engine compartment, possiable start from researchers assessment is the fuel line. Both vehicles were towed due to damage. The driver of vehicle one received an "A" injury and was hospitalized for 1 day. The driver of vehicle two was not injured.



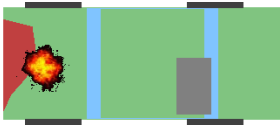
Vehicle	Body type	Make	Model	Year	Occ.#	Age	Occupant's sex	Maximum known occupant ais
1	2DR SEDAN/HT/CPE	Toyota	Tercel	1993	1	20	MALE	3=Serious
2	4-DR SEDAN/HDTOP	Plymouth	Neon	1990	1	27	FEMALE-NOT PREG	1=Minor

Occupant: 1999-43-189-1-1



Fire Information

Fire Occurrence	Minor fire
Fire Origin	Engine compart
Location of Fuel Leakage	No fuel leakage
Type of Fuel Tank	Metallic
Fuel Tank Location	Forward of rear axle, left side
Fuel Cap Location	Left side, behind rear axle
Fuel Tank Damage	No damage
Fuel Type	Gasoline



Pre-Crash Environment

Traffic Flow	DVDED/NO BARRIER
Number of Travel Lanes	FOUR
Roadway Alignment	STRAIGHT
Roadway Profile	LEVEL
Roadway Surface Type	ASPHALT
Roadway Surface Condition	DRY
Light Conditions	DAYLIGHT
Atmospheric Conditions	No ADVERSE COND
Relation to Intersection	INTERSECTION REL
Traffic Control Device	
Police Reported Alcohol Presence	No ALCOHOL
Alcohol Test (< 95 indicates BAC 0.xx)	0

Crash Severity

Nr. Quarter Turns	No rollover
Impact Speed	998
Total, Longitudal, and Lateral δV	31 -27 -16
Est. δV with sequence number	DELTA V CODED 1
CDC	1 F D E W 2
Damage (C1-C6)	0 12 34 47 46 42
Crush (L and D)	148 -17
Object Contacted 1	VEHICLE NO. 2
Object Contacted 2	VEHICLE NO. 2

NASS Weighting Factor

Weighting factor	163.65992662
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Rollover Characteristics

Number of Events	3
Rollover Initiation Type	No rollover
Location of Rollover Initiation	No rollover
Rollover Initiation Object Contacted	No rollover
Location on Vehicle where Principal Tripping Force was Applied	No rollover
Direction of Initial Roll	No rollover

Vehicle Factors

Make-Model	Toyota Tercel
Year	1993
Class	PASSENGER CAR
Body Type	2DR SEDAN/HT/CPE
Weight	88

Pre-Crash Driver Data

Accident Type	83
Pre-event Movement	GOING STRAIGHT
Critical Pre-crash Event	XING ST-OPP DIR
Attempted Avoidance Manuever	BRAKE W/ LOCKUP
Pre-impact Stability	LONGITUDINAL SKID
Pre-impact Location	STAYED IN LANE

DRIVER Factors

Age	20	Height	185	Weight	82
Gender			MALE		
Ejection			No EJECTION		
Ejection Area			No EJECTION		
Entrapment			Not ENTRAPPED		

Restraint Factors

Restrain	None used/avail
AOPS	YES-RES DET
Airbag Deployment	BAG DEPLOYED
Airbag Deployment - 1 st Seat	DR BAG DEPLOYED
Airbag Deployment - Oth Seat	Not EQUIP W/ OTH

Injuries

Occupant	1999-43-189-1-1
MAIS	3=Serious
Seat Position	Front left side

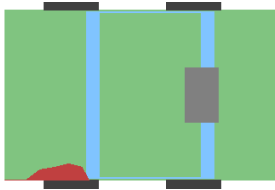
AIS Level	Injury Description	Contacts
3=Serious	Inhalation injury, minor (CO level<20 mg1=Minor	Upper extremity skin abrasion
Air bag-DR side 1=Minor	Upper extremity skin laceration, minor	Flying glass
1=Minor	Scalp laceration, minor	Mirror

Occupant: 1999-43-189-2-1



Fire Information

Fire Occurrence	No fire
Fire Origin	No fire
Location of Fuel Leakage	No fuel leakage
Type of Fuel Tank	Metallic
Fuel Tank Location	Behind rear axle, centered
Fuel Cap Location	Right side, behind rear axle
Fuel Tank Damage	No damage
Fuel Type	Gasoline



Crash Severity

Nr. Quarter Turns	No rollover
Impact Speed	998
Total, Longitudal, and Lateral δV	23 -15 17
Est. δV with sequence number	DELTA V CODED 1
CDC	10 L F E W 2
Damage (C1-C6)	0 0 16 19 24 19
Crush (L and D)	125 182
Object Contacted 1	VEHICLE NO. 1
Object Contacted 2	VEHICLE NO. 1

NASS Weighting Factor

Weighting factor	163.65992662
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Rollover Characteristics

Number of Events	3
Rollover Initiation Type	No rollover
Location of Rollover Initiation	No rollover
Rollover Initiation Object	No rollover
Contacted	No rollover
Location on Vehicle where Principal Tripping Force was Applied	No rollover
Direction of Initial Roll	No rollover

Pre-Crash Environment

Traffic Flow	DVDED/NO BARRIER
Number of Travel Lanes	TWO
Roadway Alignment	STRAIGHT
Roadway Profile	LEVEL
Roadway Surface Type	ASPHALT
Roadway Surface Condition	DRY
Light Conditions	DAYLIGHT
Atmospheric Conditions	No ADVERSE COND
Relation to Intersection	INTERSECTION REL
Traffic Control Device	
Police Reported Alcohol Presence	No ALCOHOL
Alcohol Test (< 95 indicates BAC 0.xx)	0

Vehicle Factors

Make-Model	Plymouth Neon
Year	1990
Class	PASSENGER CAR
Body Type	4-DR SEDAN/HDTOP
Weight	127

Pre-Crash Driver Data

Accident Type	82
Pre-event Movement	TURNING LEFT
Critical Pre-crash Event	TURN LEFT-INTERS
Attempted Avoidance Manuever	No AVOIDANCE
Pre-impact Stability	TRACKING
Pre-impact Location	STAYED IN LANE

DRIVER Factors

Age	27	Height	165	Weight	59
Gender					FEMALE-NOT PREG
Ejection					No EJECTION
Ejection Area					No EJECTION
Entrapment					Not ENTRAPPED

Restraint Factors

Restrain	Lap and shoulder
AOPS	YES-RES DET
Airbag Deployment	BAG DEPLOYED
Airbag Deployment - 1 st Seat	DR BAG DEPLOYED
Airbag Deployment - Oth Seat	Not EQUIP W/ OTH

Injuries

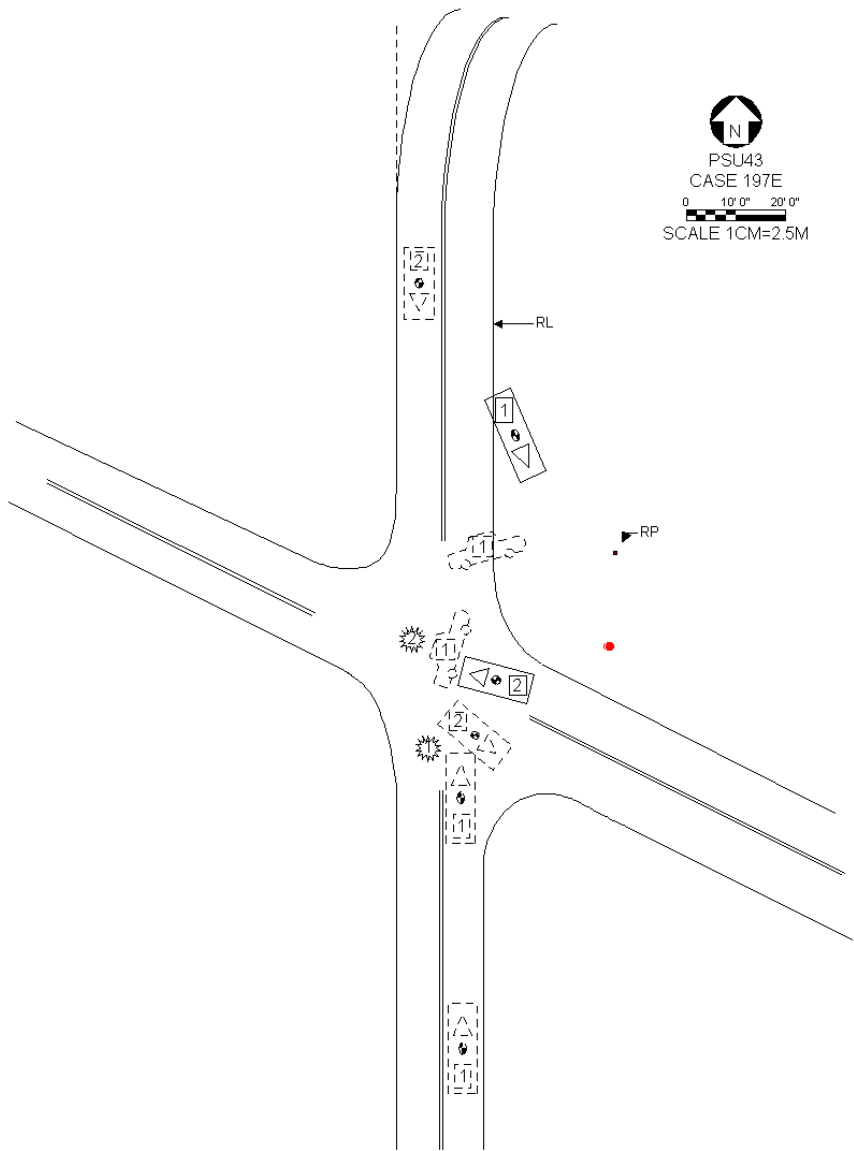
Occupant	1999-43-189-2-1
MAIS	1=Minor
Seat Position	Front left side

AIS Level	Injury Description	Contacts
1=Minor	Scalp laceration, minor	Flying glass
1=Minor	Leg skin contusion (hematoma)	Left apnel

34 Case 1999-43-197

Summary:

V1 and V2 were traveling in opposite directions on the same 2-lane bituminous roadway approaching an intersecting road. It was dark out and the road was dry. V2 attempted a left turn at the intersection. The front of V1 struck the right side of V2 and ran over the top it. V1 subsequently rolled on its left side and slid into a ditch where it rolled back on its wheels. Both vehicles were towed due to damage. The driver of V1 sustained "C" injuries but was not treated. The RF occupant of V1 was not injured. The driver of V2 sustained "B" injuries and was treated and released.



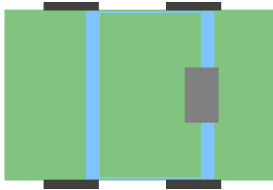
Vehicle	Body type	Make	Model	Year	Occ Age	Occupant's sex	Maximum known occupant ais
1	LARGE PICKUP	Chevrolet	C/K-series Pickup	1999	26	MALE	0=None
1	LARGE PICKUP	Chevrolet	C/K-series Pickup	1999	21	FEMALE-NOT PREG	0=None
2	3DR/2DR HATCHBAK	Nissan	200SX/240SX	1985	34	MALE	2=Moderate

Occupant: 1999-43-197-1-1



Fire Information

Fire Occurrence	No data
Fire Origin	No data
Location of Fuel Leakage	No data
Type of Fuel Tank	No data
Fuel Tank Location	No data
Fuel Cap Location	No data
Fuel Tank Damage	No data
Fuel Type	No data



Crash Severity

Nr. Quarter Turns	No rollover
Impact Speed	998
Total, Longitudal, and Lateral δV	31 -31 < 0.5 KMPH
Est. δV with sequence number	DELTA V CODED 1
CDC	No data No data No data No data
Damage (C1-C6)	No data No data No data No data
Crush (L and D)	No data No data
Object Contacted 1	No data
Object Contacted 2	No data

NASS Weighting Factor

Weighting factor	6036.9310398
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Rollover Characteristics

Number of Events	2
Rollover Initiation Type	No rollover
Location of Rollover Initiation	No rollover
Rollover Initiation Object	No rollover
Contacted	
Location on Vehicle where Principal Tripping Force was Applied	No rollover
Direction of Initial Roll	No rollover

Pre-Crash Environment

Traffic Flow	Not DIVIDED
Number of Travel Lanes	TWO
Roadway Alignment	STRAIGHT
Roadway Profile	UPHILL GRADE
Roadway Surface Type	ASPHALT
Roadway Surface Condition	DRY
Light Conditions	DARK
Atmospheric Conditions	No ADVERSE COND
Relation to Intersection	INTERSECTION REL
Traffic Control Device	
Police Reported Alcohol Presence	No ALCOHOL
Alcohol Test (< 95 indicates BAC 0.xx)	0

Vehicle Factors

Make-Model	Chevrolet C/K-series Pickup
Year	1999
Class	TRUCK
Body Type	LARGE PICKUP
Weight	193

Pre-Crash Driver Data

Accident Type	69
Pre-event Movement	GOING STRAIGHT
Critical Pre-crash Event	OPP DIR-OVR LEFT
Attempted Avoidance Maneuver	No AVOIDANCE
Pre-impact Stability	TRACKING
Pre-impact Location	STAYED IN LANE

DRIVER Factors

Age	26	Height	188	Weight	104
Gender			MALE		
Ejection			No EJECTION		
Ejection Area			No EJECTION		
Entrapment			Not ENTRAPPED		

Restraint Factors

Restrain	None used/avail
AOPS	YES-RES DET
Airbag Deployment	NONDEPLOYED
Airbag Deployment - 1 st Seat	NONDEPLOYED
Airbag Deployment - Oth Seat	Not EQUIP W/ OTH

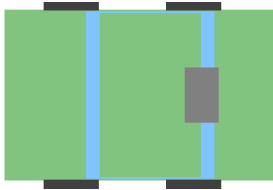
Injuries

Occupant	1999-43-197-1-1
MAIS	0=None
Seat Position	Front left side

AIS Level	Injury Description	Contacts
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Occupant: 1999-43-197-1-2**Fire Information**

Fire Occurrence	No data
Fire Origin	No data
Location of Fuel Leakage	No data
Type of Fuel Tank	No data
Fuel Tank Location	No data
Fuel Cap Location	No data
Fuel Tank Damage	No data
Fuel Type	No data

**Crash Severity**

Nr. Quarter Turns	No rollover
Impact Speed	998
Total, Longitudal, and Lateral δV	31 -31 < 0.5 KMPH
Est. δV with sequence number	DELTA V CODED 1
CDC	No data No data No data No data
Damage (C1-C6)	No data No data No data No data
Crush (L and D)	No data No data
Object Contacted 1	No data
Object Contacted 2	No data

NASS Weighting Factor

Weighting factor	6036.9310398
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Rollover Characteristics

Number of Events	2
Rollover Initiation Type	No rollover
Location of Rollover Initiation	No rollover
Rollover Initiation Object Contacted	No rollover
Location on Vehicle where Principal Tripping Force was Applied	No rollover
Direction of Initial Roll	No rollover

Pre-Crash Environment

Traffic Flow	Not DIVIDED
Number of Travel Lanes	TWO
Roadway Alignment	STRAIGHT
Roadway Profile	UPHILL GRADE
Roadway Surface Type	ASPHALT
Roadway Surface Condition	DRY
Light Conditions	DARK
Atmospheric Conditions	No ADVERSE COND
Relation to Intersection	INTERSECTION REL
Traffic Control Device	
Police Reported Alcohol Presence	No ALCOHOL
Alcohol Test (< 95 indicates BAC 0.xx)	0

Vehicle Factors

Make-Model	Chevrolet C/K-series Pickup
Year	1999
Class	TRUCK
Body Type	LARGE PICKUP
Weight	193

Pre-Crash Driver Data

Accident Type	69
Pre-event Movement	GOING STRAIGHT
Critical Pre-crash Event	OPP DIR-OVR LEFT
Attempted Avoidance Manuever	No AVOIDANCE
Pre-impact Stability	TRACKING
Pre-impact Location	STAYED IN LANE

PASSENGER Factors

Age	21	Height	160	Weight	64
Gender			FEMALE-NOT PREG		
Ejection			No EJECTION		
Ejection Area			No EJECTION		
Entrapment			Not ENTRAPPED		

Restraint Factors

Restrain	None used/avail
AOPS	YES-RES DET
Airbag Deployment	NONDEPLOYED
Airbag Deployment - 1 st Seat	NONDEPLOYED
Airbag Deployment - Oth Seat	Not EQUIP W/ OTH

Injuries

Occupant	1999-43-197-1-2
MAIS	0=None
Seat Position	Front right side

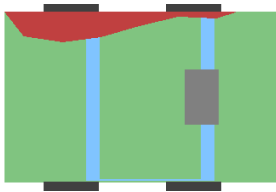
AIS Level	Injury Description	Contacts
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Occupant: 1999-43-197-2-1



Fire Information

Fire Occurence	No fire
Fire Origin	No fire
Location of Fuel Leakage	Filler neck
Type of Fuel Tank	Metallic
Fuel Tank Location	Behind rear axle, centered
Fuel Cap Location	Right side, behind rear axle
Fuel Tank Damage	Fill neck separation
Fuel Type	Gasoline



Pre-Crash Environment

Traffic Flow	Not DIVIDED
Number of Travel Lanes	TWO
Roadway Alignment	CURVE LEFT
Roadway Profile	DOWNHILL GRADE
Roadway Surface Type	ASPHALT
Roadway Surface Condition	DRY
Light Conditions	DARK
Atmospheric Conditions	No ADVERSE COND
Relation to Intersection	INTERSECTION REL
Traffic Control Device	
Police Reported Alcohol Presence	No ALCOHOL
Alcohol Test (< 95 indicates BAC 0.xx)	0

Crash Severity

Nr. Quarter Turns	No rollover
Impact Speed	998
Total, Longitudal, and Lateral δV	50 -32 -39
Est. δV with sequence number	DELTA V CODED 1
CDC	2 R D E W 4
Damage (C1-C6)	35 43 36 20 6 8
Crush (L and D)	340 32
Object Contacted 1	VEHICLE NO. 1
Object Contacted 2	0

NASS Weighting Factor

Weighting factor	6036.9310398
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Rollover Characteristics

Number of Events	2
Rollover Initiation Type	No rollover
Location of Rollover Initiation	No rollover
Rollover Initiation Object Contacted	No rollover
Location on Vehicle where Principal Tripping Force was Applied	No rollover
Direction of Initial Roll	No rollover

Vehicle Factors

Make-Model	Nissan 200SX/240SX
Year	1985
Class	PASSENGER CAR
Body Type	3DR/2DR HATCHBAK
Weight	122

Pre-Crash Driver Data

Accident Type	68
Pre-event Movement	TURNING LEFT
Critical Pre-crash Event	TURN LEFT-INTERS
Attempted Avoidance Manuever	No AVOIDANCE
Pre-impact Stability	TRACKING
Pre-impact Location	STAYED IN LANE

DRIVER Factors

Age	34	Height	178	Weight	75
Gender					MALE
Ejection					No EJECTION
Ejection Area					No EJECTION
Entrapment					Not ENTRAPPED

Restraint Factors

Restrain	Lap and shoulder
AOPS	NO
Airbag Deployment	Not EQUIP/AVAIL
Airbag Deployment - 1 st Seat	Not EQUIP/AVAIL
Airbag Deployment - Oth Seat	Not EQUIP W/ OTH

Injuries

Occupant	1999-43-197-2-1
MAIS	2=Moderate
Seat Position	Front left side

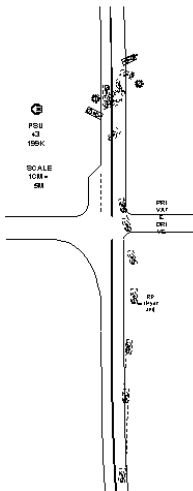
AIS Level	Injury Description	Contacts
1=Minor	Facial skin abrasion	Flying glass
2=Moderate	Carpus or metacarpus fracture	Left apnel
2=Moderate	Radial fracture, closed	Left apnel

35 Case 1999-43-199

Summary:

Vehicle one was traveling east on a two lane , bituminous dry, undivided , roadway. Vehicle two was traveling west on the same roadway. Vehicle one's right front tire departed the road on the right. Vehicle one reentered the road and struck vehicle two's front plane with its left plane. Vehicle one rolled to the right four quarter turns entering the ditch on the right side of the road, bounced out of the ditch coming to rest on its wheels. Both vehicle were towed due to damage. The driver of vehicle one received an "A" injury and was transported and released. The occupant of vehicle one was not injured. The driver of vehicle two received an "A" injury and was transported, hospitalized and died ten days later ,

gP:



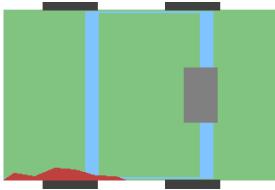
Vehicle	Body type	Make	Model	Year	Occ.#	Age	Occupant's sex	Maximum known occupant ais
1	COMPACT UTILITY	Jeep	YJ-Wrangler	2000	1	16	FEMALE-NOT PREG	1=Minor
1	COMPACT UTILITY	Jeep	YJ-Wrangler	2000	2	17	MALE	1=Minor
2	4-DR SEDAN/HDTOP	Honda	Accord	1994	1	87	FEMALE-NOT PREG	1=Minor

Occupant: 1999-43-199-1-1



Fire Information

Fire Occurence	No fire
Fire Origin	No fire
Location of Fuel Leakage	Filler neck
Type of Fuel Tank	Non-metallic
Fuel Tank Location	Behind rear axle, centered
Fuel Cap Location	Left side, behind rear axle
Fuel Tank Damage	Fill neck separation
Fuel Type	Gasoline



Pre-Crash Environment

Traffic Flow	Not DIVIDED
Number of Travel Lanes	TWO
Roadway Alignment	CURVE RIGHT
Roadway Profile	DOWNHILL GRADE
Roadway Surface Type	ASPHALT
Roadway Surface Condition	DRY
Light Conditions	DAYLIGHT
Atmospheric Conditions	No ADVERSE COND
Relation to Intersection	NONINTER/NONJUNC
Traffic Control Device	
Police Reported Alcohol Presence	No ALCOHOL
Alcohol Test (< 95 indicates BAC 0.xx)	0

Crash Severity

Nr. Quarter Turns	1 QUARTER TURN
Impact Speed	998
Total, Longitudal, and Lateral δV	25 -13 22
Est. δV with sequence number	DELTA V CODED 1
CDC	10 L D E W 2
Damage (C1-C6)	11 6 18 16 7 6
Crush (L and D)	181 -104
Object Contacted 1	VEHICLE NO. 2
Object Contacted 2	ROLLOVER-OVERTURN

NASS Weighting Factor

Weighting factor	87.328861506
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Rollover Characteristics

Number of Events	2
Rollover Initiation Type	COLLISION W/VEH
Location of Rollover Initiation	ON ROADWAY
Rollover Initiation Object Contacted	VEHICLE NO. 2
Location on Vehicle where Principal Tripping Force was Applied	SIDE PLANE
Direction of Initial Roll	ROLL LEFT

Vehicle Factors

Make-Model	Jeep YJ-Wrangler
Year	2000
Class	TRUCK
Body Type	COMPACT UTILITY
Weight	145

Pre-Crash Driver Data

Accident Type	66
Pre-event Movement	NEGOTIATE CURVE
Critical Pre-crash Event	OFF EDGE-RIGHT
Attempted Avoidance Manuever	STEERING LEFT
Pre-impact Stability	LATERAL SKID-CLK
Pre-impact Location	RETURNED TO ROAD

DRIVER Factors

Age	16	Height	165	Weight	59
Gender					FEMALE-NOT PREG
Ejection					No EJECTION
Ejection Area					No EJECTION
Entrapment					Not ENTRAPPED

Restraint Factors

Restrain	Lap and shoulder
AOPS	YES-RES DET
Airbag Deployment	BAG DEPLOYED
Airbag Deployment - 1 st Seat	DR
PAS BAG DEPLY	
Airbag Deployment - Oth Seat	Not EQUIP W/ OTH

Injuries

Occupant	1999-43-199-1-1
MAIS	1=Minor
Seat Position	Front left side

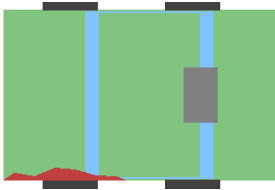
AIS Level	Injury Description	Contacts
1=Minor	Thoracic skin contusion	Belt webb/buckle
1=Minor	Upper extremity skin laceration, minor	Flying glass
1=Minor	Scalp contusion	Left window fram
1=Minor	Facial skin laceration, minor	Flying glass
1=Minor	Facial skin laceration, minor	Flying glass
1=Minor	Scalp laceration, minor	Left window fram
1=Minor	297402	Air bag-DR side
1=Minor	297402	Air bag-DR side
1=Minor	Facial skin abrasion	Air bag-DR side
1=Minor	297202	Air bag-DR side
1=Minor	Leg skin contusion (hematoma)	Steering column
1=Minor	Leg skin contusion (hematoma)	Knee bolster
1=Minor	Leg skin contusion (hematoma)	Foot controls

Occupant: 1999-43-199-1-2



Fire Information

Fire Occurence	No fire
Fire Origin	No fire
Location of Fuel Leakage	Filler neck
Type of Fuel Tank	Non-metallic
Fuel Tank Location	Behind rear axle, centered
Fuel Cap Location	Left side, behind rear axle
Fuel Tank Damage	Fill neck separation
Fuel Type	Gasoline



Crash Severity

Nr. Quarter Turns	1 QUARTER TURN
Impact Speed	998
Total, Longitudal, and Lateral δV	25 -13 22
Est. δV with sequence number	DELTA V CODED 1
CDC	10 L D E W 2
Damage (C1-C6)	11 6 18 16 7 6
Crush (L and D)	181 -104
Object Contacted 1	VEHICLE NO. 2
Object Contacted 2	ROLLOVER-OVERTURN

NASS Weighting Factor

Weighting factor	87.328861506
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Rollover Characteristics

Number of Events	2
Rollover Initiation Type	COLLISION W/VEH
Location of Rollover Initiation	ON ROADWAY
Rollover Initiation Object Contacted	VEHICLE NO. 2
Location on Vehicle where Principal Tripping Force was Applied	SIDE PLANE
Direction of Initial Roll	ROLL LEFT

Pre-Crash Environment

Traffic Flow	Not DIVIDED
Number of Travel Lanes	TWO
Roadway Alignment	CURVE RIGHT
Roadway Profile	DOWNHILL GRADE
Roadway Surface Type	ASPHALT
Roadway Surface Condition	DRY
Light Conditions	DAYLIGHT
Atmospheric Conditions	No ADVERSE COND
Relation to Intersection	NONINTER/NONJUNC
Traffic Control Device	
Police Reported Alcohol Presence	No ALCOHOL
Alcohol Test (< 95 indicates BAC 0.xx)	0

Vehicle Factors

Make-Model	Jeep YJ-Wrangler
Year	2000
Class	TRUCK
Body Type	COMPACT UTILITY
Weight	145

Pre-Crash Driver Data

Accident Type	66
Pre-event Movement	NEGOTIATE CURVE
Critical Pre-crash Event	OFF EDGE-RIGHT
Attempted Avoidance Manuever	STEERING LEFT
Pre-impact Stability	LATERAL SKID-CLK
Pre-impact Location	RETURNED TO ROAD

PASSENGER Factors

Age	17	Height	196	Weight	86
Gender					MALE
Ejection					No EJECTION
Ejection Area					No EJECTION
Entrapment					Not ENTRAPPED

Restraint Factors

Restrain	Lap and shoulder
AOPS	YES-RES DET
Airbag Deployment	BAG DEPLOYED
Airbag Deployment - 1 st Seat	DR
PAS BAG DEPLY	
Airbag Deployment - Oth Seat	Not EQUIP W/ OTH

Injuries

Occupant	1999-43-199-1-2
MAIS	1=Minor
Seat Position	Front right side

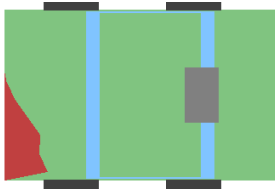
AIS Level	Injury Description	Contacts
1=Minor	Upper extremity skin laceration, minor	Right interior

Occupant: 1999-43-199-2-1



Fire Information

Fire Occurrence	No fire
Fire Origin	No fire
Location of Fuel Leakage	No fuel leakage
Type of Fuel Tank	Metallic
Fuel Tank Location	Forward of rear axle, left side
Fuel Cap Location	Left side, behind rear axle
Fuel Tank Damage	No damage
Fuel Type	Gasoline



Pre-Crash Environment

Traffic Flow	Not DIVIDED
Number of Travel Lanes	TWO
Roadway Alignment	CURVE RIGHT
Roadway Profile	LEVEL
Roadway Surface Type	ASPHALT
Roadway Surface Condition	DRY
Light Conditions	DAYLIGHT
Atmospheric Conditions	No ADVERSE COND
Relation to Intersection	NONINTER/NONJUNC
Traffic Control Device	
Police Reported Alcohol Presence	No ALCOHOL
Alcohol Test (< 95 indicates BAC 0.xx)	0

Crash Severity

Nr. Quarter Turns	No rollover
Impact Speed	998
Total, Longitudal, and Lateral δV	29 -29 -5
Est. δV with sequence number	DELTA V CODED 1
CDC	12 F Y E W 3
Damage (C1-C6)	63 50 53 34 16 3
Crush (L and D)	158 -28
Object Contacted 1	VEHICLE NO. 1
Object Contacted 2	0

NASS Weighting Factor

Weighting factor	87.328861506
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Rollover Characteristics

Number of Events	2
Rollover Initiation Type	No rollover
Location of Rollover Initiation	No rollover
Rollover Initiation Object Contacted	No rollover
Location on Vehicle where Principal Tripping Force was Applied	No rollover
Direction of Initial Roll	No rollover

Vehicle Factors

Make-Model	Honda Accord
Year	1994
Class	PASSENGER CAR
Body Type	4-DR SEDAN/HDTOP
Weight	130

Pre-Crash Driver Data

Accident Type	66
Pre-event Movement	NEGOTIATE CURVE
Critical Pre-crash Event	OPP DIR-OVR LEFT
Attempted Avoidance Manuever	No AVOIDANCE
Pre-impact Stability	TRACKING
Pre-impact Location	STAYED IN LANE

DRIVER Factors

Age	87	Height	155	Weight	66
Gender					FEMALE-NOT PREG
Ejection					No EJECTION
Ejection Area					No EJECTION
Entrapment					Not ENTRAPPED

Restraint Factors

Restrain	Lap and shoulder
AOPS	YES-RES DET
Airbag Deployment	BAG DEPLOYED
Airbag Deployment - 1 st Seat	DR
PAS BAG DEPLY	
Airbag Deployment - Oth Seat	Not EQUIP W/ OTH

Injuries

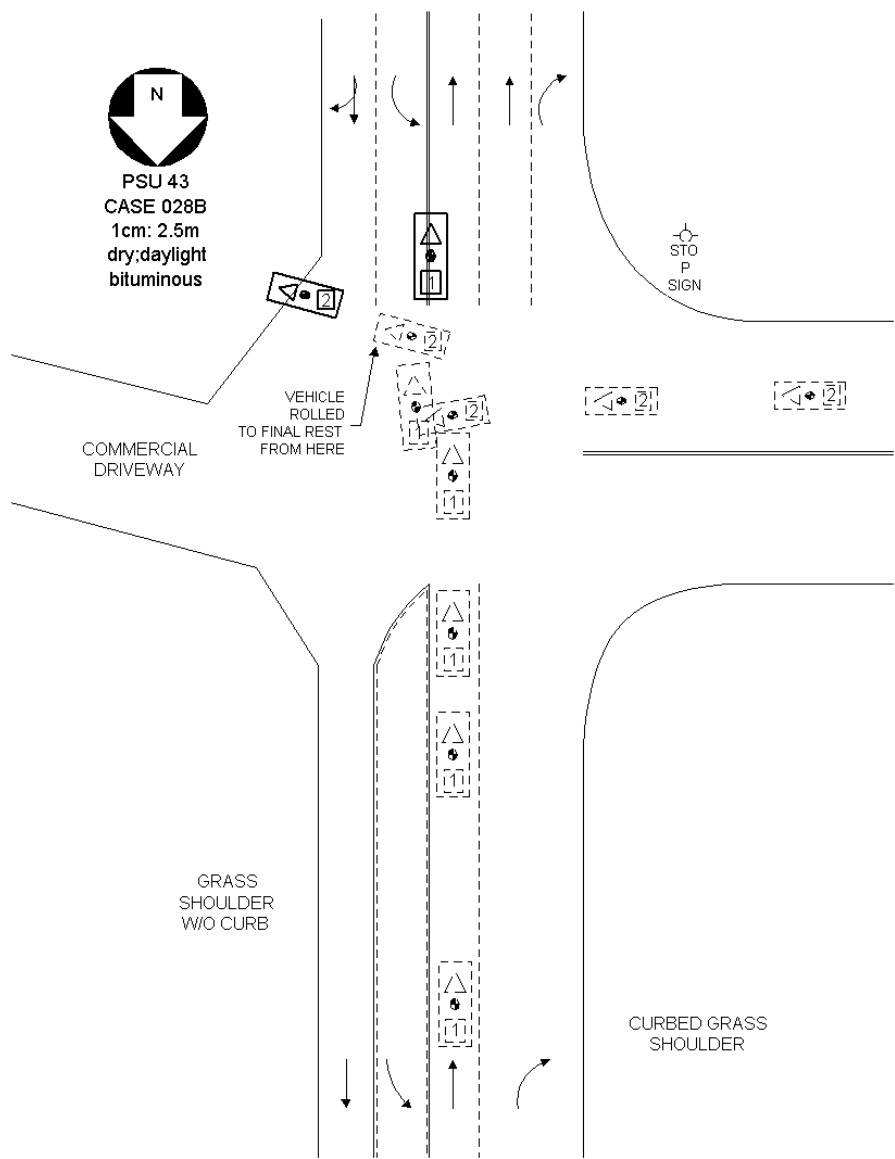
Occupant	1999-43-199-2-1
MAIS	1=Minor
Seat Position	Front left side

AIS Level	Injury Description	Contacts
7=Unk. sev.	615099	Unknown SOURCE
1=Minor	Upper extremity skin laceration NFS	Left hardware
1=Minor	Leg skin contusion (hematoma)	Left hardware

36 Case 1999-43-28

Summary:

Vehicle one was traveling south in the second lane of a dry, four-lane, bituminous roadway in the daytime approaching a four leg intersection. Vehicle two was traveling east on two-lane roadway approaching the same intersection. Vehicle two came to a stop at the intersection and then proceeded to turn left. The front of v1 collided with the left side of v2. Both vehicles were towed due to damage. The driver of v1 suffered "C" injuries. The driver of v2 was transported to a trauma center with fatal injuries. The right front passenger of v2 was transported and hospitalized at a local trauma center with "A" injuries.



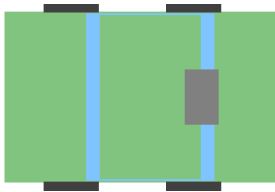
Vehicle	Body type	Make	Model	Year	Occ.#	Age	Occupant's sex	Maximum known occupant ais
1	LARGE UTILITY	Ford	Expedition	1998	1	26	MALE	7=Unk. sev.
2	4-DR SEDAN/HDTOP	Mercury	Tracer	1995	1	18	MALE	7=Unk. sev.
2	4-DR SEDAN/HDTOP	Mercury	Tracer	1995	2	14	FEMALE-NOT PREG	3=Serious

Occupant: 1999-43-28-1-1



Fire Information

Fire Occurrence	No fire
Fire Origin	No fire
Location of Fuel Leakage	No fuel leakage
Type of Fuel Tank	Metallic
Fuel Tank Location	Forward of rear axle, left side
Fuel Cap Location	Left side, behind rear axle
Fuel Tank Damage	No damage
Fuel Type	Gasoline



Crash Severity

Nr. Quarter Turns	No rollover
Impact Speed	998
Total, Longitudal, and Lateral δV	27 -27 -5
Est. δV with sequence number	DELTA V CODED 1
CDC	0 F D E W 0
Damage (C1-C6)	0 0 0 0 0
Crush (L and D)	0 0
Object Contacted 1	VEHICLE NO. 2
Object Contacted 2	0

NASS Weighting Factor

Weighting factor	42.608886833
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Rollover Characteristics

Number of Events	1
Rollover Initiation Type	No rollover
Location of Rollover Initiation	No rollover
Rollover Initiation Object Contacted	No rollover
Location on Vehicle where Principal Tripping Force was Applied	No rollover
Direction of Initial Roll	No rollover

Pre-Crash Environment

Traffic Flow	Not DIVIDED
Number of Travel Lanes	FOUR
Roadway Alignment	STRAIGHT
Roadway Profile	LEVEL
Roadway Surface Type	ASPHALT
Roadway Surface Condition	DRY
Light Conditions	DAYLIGHT
Atmospheric Conditions	No ADVERSE COND
Relation to Intersection	INTERSECTION REL
Traffic Control Device	
Police Reported Alcohol Presence	No ALCOHOL
Alcohol Test (< 95 indicates BAC 0.xx)	0

Vehicle Factors

Make-Model	Ford Expedition
Year	1998
Class	PASSENGER CAR
Body Type	LARGE UTILITY
Weight	242

Pre-Crash Driver Data

Accident Type	83
Pre-event Movement	GOING STRAIGHT
Critical Pre-crash Event	XING ST-OPP DIR
Attempted Avoidance Manuever	No DRIVER
Pre-impact Stability	No DRIVER
Pre-impact Location	STAYED IN LANE

DRIVER Factors

Age	26	Height	0	Weight	0
Gender					MALE
Ejection					No EJECTION
Ejection Area					No EJECTION
Entrapment					Not ENTRAPPED

Restraint Factors

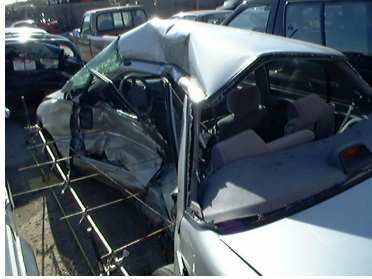
Restrain	Lap and shoulder
AOPS	YES-RES DET
Airbag Deployment	BAG DEPLOYED
Airbag Deployment - 1 st Seat	DR
PAS BAG DEPLY	
Airbag Deployment - Oth Seat	Not EQUIP W/ OTH

Injuries

Occupant	1999-43-28-1-1
MAIS	7=Unk. sev.
Seat Position	Front left side

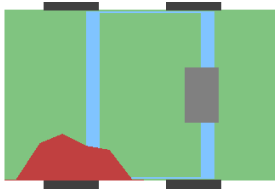
AIS Level	Injury Description	Contacts
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Occupant: 1999-43-28-2-1



Fire Information

Fire Occurrence	No fire
Fire Origin	No fire
Location of Fuel Leakage	Tank
Type of Fuel Tank	Non-metallic
Fuel Tank Location	Forward of rear axle, centered
Fuel Cap Location	Left side, behind rear axle
Fuel Tank Damage	Deform+seam fail
Fuel Type	Gasoline



Pre-Crash Environment

Traffic Flow	Not DIVIDED
Number of Travel Lanes	TWO
Roadway Alignment	STRAIGHT
Roadway Profile	LEVEL
Roadway Surface Type	ASPHALT
Roadway Surface Condition	DRY
Light Conditions	DAYLIGHT
Atmospheric Conditions	No ADVERSE COND
Relation to Intersection	INTERSECTION REL
Traffic Control Device	
Police Reported Alcohol Presence	No ALCOHOL
Alcohol Test (< 95 indicates BAC 0.xx)	0

Vehicle Factors

Make-Model	Mercury Tracer
Year	1995
Class	PASSENGER CAR
Body Type	4-DR SEDAN/HDTOP
Weight	110

Crash Severity

Nr. Quarter Turns	No rollover
Impact Speed	998
Total, Longitudal, and Lateral δV	56 -19 53
Est. δV with sequence number	DELTA V CODED 1
CDC	90 L Y A W 5
Damage (C1-C6)	0 54 68 50 44 0
Crush (L and D)	205 2
Object Contacted 1	VEHICLE NO. 1
Object Contacted 2	0

Pre-Crash Driver Data

Accident Type	82
Pre-event Movement	TURNING LEFT
Critical Pre-crash Event	TURN LEFT-INTERS
Attempted Avoidance Manuever	No DRIVER
Pre-impact Stability	No DRIVER
Pre-impact Location	STAYED IN LANE

NASS Weighting Factor

Weighting factor	42.608886833
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DRIVER Factors

Rollover Characteristics

Number of Events	1
Rollover Initiation Type	No rollover
Location of Rollover Initiation	No rollover
Rollover Initiation Object Contacted	No rollover
Location on Vehicle where Principal Tripping Force was Applied	No rollover
Direction of Initial Roll	No rollover

Age	18	Height	170	Weight	59
Gender			MALE		
Ejection			No EJECTION		
Ejection Area			No EJECTION		
Entrapment			ENTRAPPED		

Restraint Factors

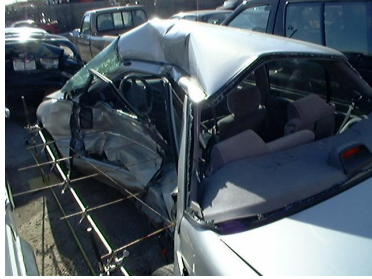
Restrain	Lap belt
AOPS	YES-RES DET
Airbag Deployment	NONDEPLOYED
Airbag Deployment - 1 st Seat	NONDEPLOYED
Airbag Deployment - Oth Seat	Not EQUIP W/ OTH

Injuries

Occupant	1999-43-28-2-1
MAIS	7=Unk. sev.
Seat Position	Front left side

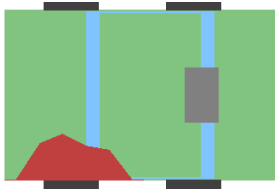
AIS Level	Injury Description	Contacts
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Occupant: 1999-43-28-2-2



Fire Information

Fire Occurrence	No fire
Fire Origin	No fire
Location of Fuel Leakage	Tank
Type of Fuel Tank	Non-metallic
Fuel Tank Location	Forward of rear axle, centered
Fuel Cap Location	Left side, behind rear axle
Fuel Tank Damage	Deform+seam fail
Fuel Type	Gasoline



Pre-Crash Environment

Traffic Flow	Not DIVIDED
Number of Travel Lanes	TWO
Roadway Alignment	STRAIGHT
Roadway Profile	LEVEL
Roadway Surface Type	ASPHALT
Roadway Surface Condition	DRY
Light Conditions	DAYLIGHT
Atmospheric Conditions	No ADVERSE COND
Relation to Intersection	INTERSECTION REL
Traffic Control Device	
Police Reported Alcohol Presence	No ALCOHOL
Alcohol Test (< 95 indicates BAC 0.xx)	0

Vehicle Factors

Make-Model	Mercury Tracer
Year	1995
Class	PASSENGER CAR
Body Type	4-DR SEDAN/HDTOP
Weight	110

Crash Severity

Nr. Quarter Turns	No rollover
Impact Speed	998
Total, Longitudal, and Lateral δV	56 -19 53
Est. δV with sequence number	DELTA V CODED 1
CDC	90 L Y A W 5
Damage (C1-C6)	0 54 68 50 44 0
Crush (L and D)	205 2
Object Contacted 1	VEHICLE NO. 1
Object Contacted 2	0

Pre-Crash Driver Data

Accident Type	82
Pre-event Movement	TURNING LEFT
Critical Pre-crash Event	TURN LEFT-INTERS
Attempted Avoidance Manuever	No DRIVER
Pre-impact Stability	No DRIVER
Pre-impact Location	STAYED IN LANE

NASS Weighting Factor

Weighting factor	42.608886833
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PASSENGER Factors

Rollover Characteristics

Number of Events	1
Rollover Initiation Type	No rollover
Location of Rollover Initiation	No rollover
Rollover Initiation Object Contacted	No rollover
Location on Vehicle where Principal Tripping Force was Applied	No rollover
Direction of Initial Roll	No rollover

Age	14	Height	163	Weight	50
Gender					FEMALE-NOT PREG
Ejection					No EJECTION
Ejection Area					No EJECTION
Entrapment					Not ENTRAPPED

Restraint Factors

Restrain	Lap belt
AOPS	YES-RES DET
Airbag Deployment	NONDEPLOYED
Airbag Deployment - 1 st Seat	NONDEPLOYED
Airbag Deployment - Oth Seat	Not EQUIP W/ OTH

Injuries

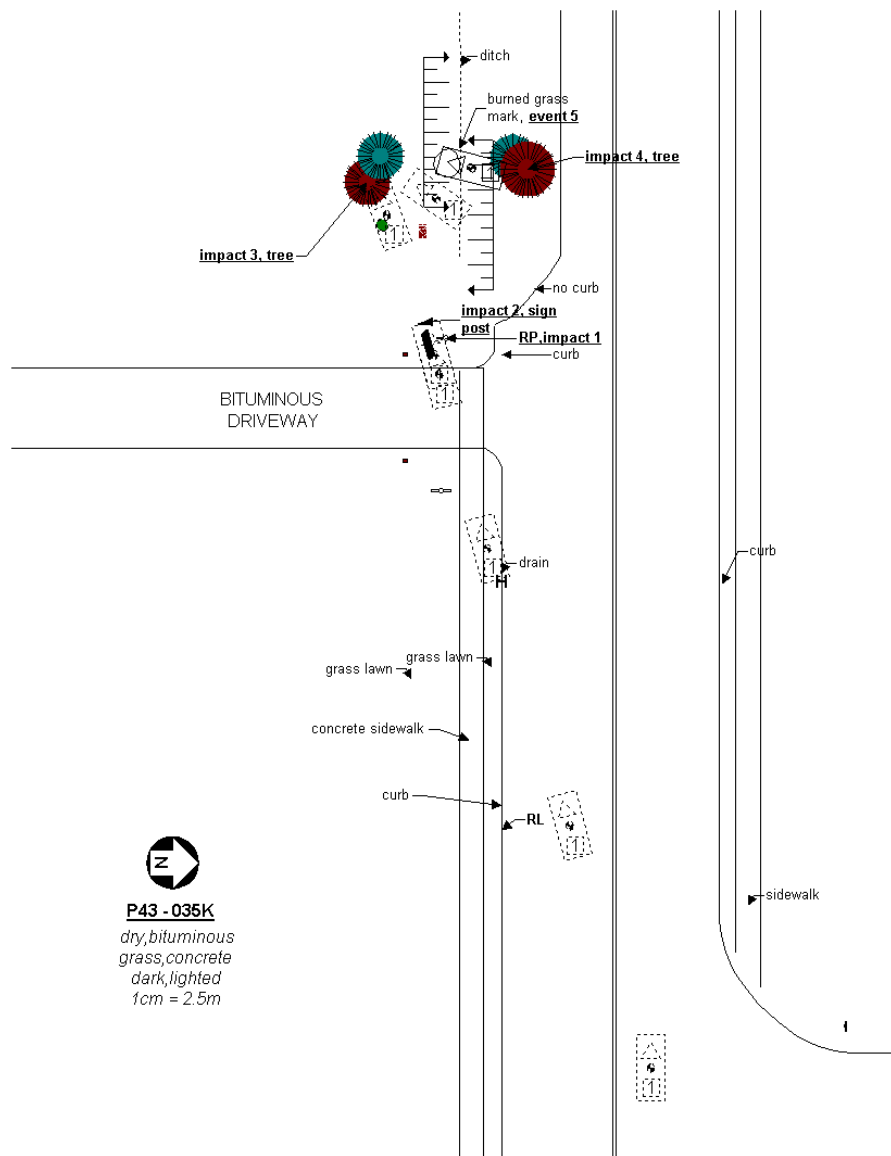
Occupant	1999-43-28-2-2
MAIS	3=Serious
Seat Position	Front right side

AIS Level	Injury Description	Contacts
1=Minor	Leg skin abrasion	Glove door
1=Minor	Upper extremity skin contusion	Other occupants
1=Minor	Leg skin laceration, minor	Flying glass
3=Serious	Femur fracture NFS	Transmiss lever
1=Minor	Scalp contusion	Other occupants

37 Case 1999-43-35

Summary:

Vehicle one was traveling west in the right lane of a two lane dry, bituminous, dark, lighted roadway. Vehicle one travelled southwest off the left side of the road. Vehicle one's front impacted a utility pole. Vehicle one's front impacted a sign post. Vehicle one continued travelling southwest. Vehicle one's front impacted a tree. Vehicle one rotated counterclockwise 30 degrees. Vehicle one's right side impacted a tree. Vehicle one came to rest against the tree facing south. After the driver and passenger had exited the vehicle, Vehicle one's engine caught on fire, and subsequently the entire vehicle burned. Vehicle one was towed due to damage. The driver of Vehicle one was transported and admitted to the trauma center with 'A' injuries. The right front passenger was transported and released with 'B' injuries.



Vehicle	Body type	Make	Model	Year	Occ.#	Age	Occupant's sex	Maximum known occupant ais
1	3DR/2DR HATCHBAK	Dodge	Colt	1992	1	40	FEMALE-NOT PREG	2=Moderate
1	3DR/2DR HATCHBAK	Dodge	Colt	1992	2	34	MALE	1=Minor

Occupant: 1999-43-35-1-1



Fire Information

Fire Occurrence	Major fire
Fire Origin	Engine compart
Location of Fuel Leakage	No fuel leakage
Type of Fuel Tank	Metallic
Fuel Tank Location	Forward of rear axle, centered
Fuel Cap Location	Right side, behind rear axle
Fuel Tank Damage	No damage
Fuel Type	Gasoline



Pre-Crash Environment

Traffic Flow	Not DIVIDED
Number of Travel Lanes	TWO
Roadway Alignment	STRAIGHT
Roadway Profile	LEVEL
Roadway Surface Type	Other
Roadway Surface Condition	DRY
Light Conditions	DARK/LIGHTED
Atmospheric Conditions	No ADVERSE COND
Relation to Intersection	NONINTER/NONJUNC
Traffic Control Device	
Police Reported Alcohol Presence	No ALCOHOL
Alcohol Test (< 95 indicates BAC 0.xx)	0

Crash Severity

Nr. Quarter Turns	No rollover
Impact Speed	998
Total, Longitudal, and Lateral δV	49 -49 < 0.5 KMPH
Est. δV with sequence number	DELTA V CODED 3
CDC	12 F Y E W 5
Damage (C1-C6)	82 60 44 28 18 8
Crush (L and D)	140 -21
Object Contacted 1	LARGE TREE
Object Contacted 2	LARGE POLE

NASS Weighting Factor

Weighting factor	51.367568383
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Rollover Characteristics

Number of Events	5
Rollover Initiation Type	No rollover
Location of Rollover Initiation	No rollover
Rollover Initiation Object Contacted	No rollover
Location on Vehicle where Principal Tripping Force was Applied	No rollover
Direction of Initial Roll	No rollover

Vehicle Factors

Make-Model	Dodge Colt
Year	1992
Class	PASSENGER CAR
Body Type	3DR/2DR HATCHBAK
Weight	100

Pre-Crash Driver Data

Accident Type	6
Pre-event Movement	GOING STRAIGHT
Critical Pre-crash Event	OFF EDGE-LEFT
Attempted Avoidance Manuever	No AVOIDANCE
Pre-impact Stability	TRACKING
Pre-impact Location	DEPARTED ROADWAY

DRIVER Factors

Age	40	Height	158	Weight	64
Gender					FEMALE-NOT PREG
Ejection					No EJECTION
Ejection Area					No EJECTION
Entrapment					Not ENTRAPPED

Restraint Factors

Restrain	Lap belt
AOPS	YES-RES DET
Airbag Deployment	Not EQUIP/AVAIL
Airbag Deployment - 1 st Seat	Not EQUIP/AVAIL
Airbag Deployment - Oth Seat	Not EQUIP W/ OTH

Injuries

Occupant	1999-43-35-1-1
MAIS	2=Moderate
Seat Position	Front left side

AIS Level	Injury Description	Contacts
2=Moderate	Splenic laceration, minor (tear<3cms deep, no major vessel)	Steering rim
1=Minor	Abdominal skin contusion	Steering rim
1=Minor	Leg skin laceration, minor	Left apnel

Occupant: 1999-43-35-1-2



Fire Information

Fire Occurrence	Major fire
Fire Origin	Engine compart
Location of Fuel Leakage	No fuel leakage
Type of Fuel Tank	Metallic
Fuel Tank Location	Forward of rear axle, centered
Fuel Cap Location	Right side, behind rear axle
Fuel Tank Damage	No damage
Fuel Type	Gasoline



Pre-Crash Environment

Traffic Flow	Not DIVIDED
Number of Travel Lanes	TWO
Roadway Alignment	STRAIGHT
Roadway Profile	LEVEL
Roadway Surface Type	Other
Roadway Surface Condition	DRY
Light Conditions	DARK/LIGHTED
Atmospheric Conditions	No ADVERSE COND
Relation to Intersection	NONINTER/NONJUNC
Traffic Control Device	
Police Reported Alcohol Presence	No ALCOHOL
Alcohol Test (< 95 indicates BAC 0.xx)	0

Crash Severity

Nr. Quarter Turns	No rollover
Impact Speed	998
Total, Longitudal, and Lateral δV	49 -49 < 0.5 KMPH
Est. δV with sequence number	DELTA V CODED 3
CDC	12 F Y E W 5
Damage (C1-C6)	82 60 44 28 18 8
Crush (L and D)	140 -21
Object Contacted 1	LARGE TREE
Object Contacted 2	LARGE POLE

NASS Weighting Factor

Weighting factor	51.367568383
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Rollover Characteristics

Number of Events	5
Rollover Initiation Type	No rollover
Location of Rollover Initiation	No rollover
Rollover Initiation Object Contacted	No rollover
Location on Vehicle where Principal Tripping Force was Applied	No rollover
Direction of Initial Roll	No rollover

Vehicle Factors

Make-Model	Dodge Colt
Year	1992
Class	PASSENGER CAR
Body Type	3DR/2DR HATCHBAK
Weight	100

Pre-Crash Driver Data

Accident Type	6
Pre-event Movement	GOING STRAIGHT
Critical Pre-crash Event	OFF EDGE-LEFT
Attempted Avoidance Manuever	No AVOIDANCE
Pre-impact Stability	TRACKING
Pre-impact Location	DEPARTED ROADWAY

PASSENGER Factors

Age	34	Height	163	Weight	64
Gender			MALE		
Ejection			No EJECTION		
Ejection Area			No EJECTION		
Entrapment			Not ENTRAPPED		

Restraint Factors

Restrain	Lap belt
AOPS	YES-RES DET
Airbag Deployment	Not EQUIP/AVAIL
Airbag Deployment - 1 st Seat	Not EQUIP/AVAIL
Airbag Deployment - Oth Seat	Not EQUIP W/ OTH

Injuries

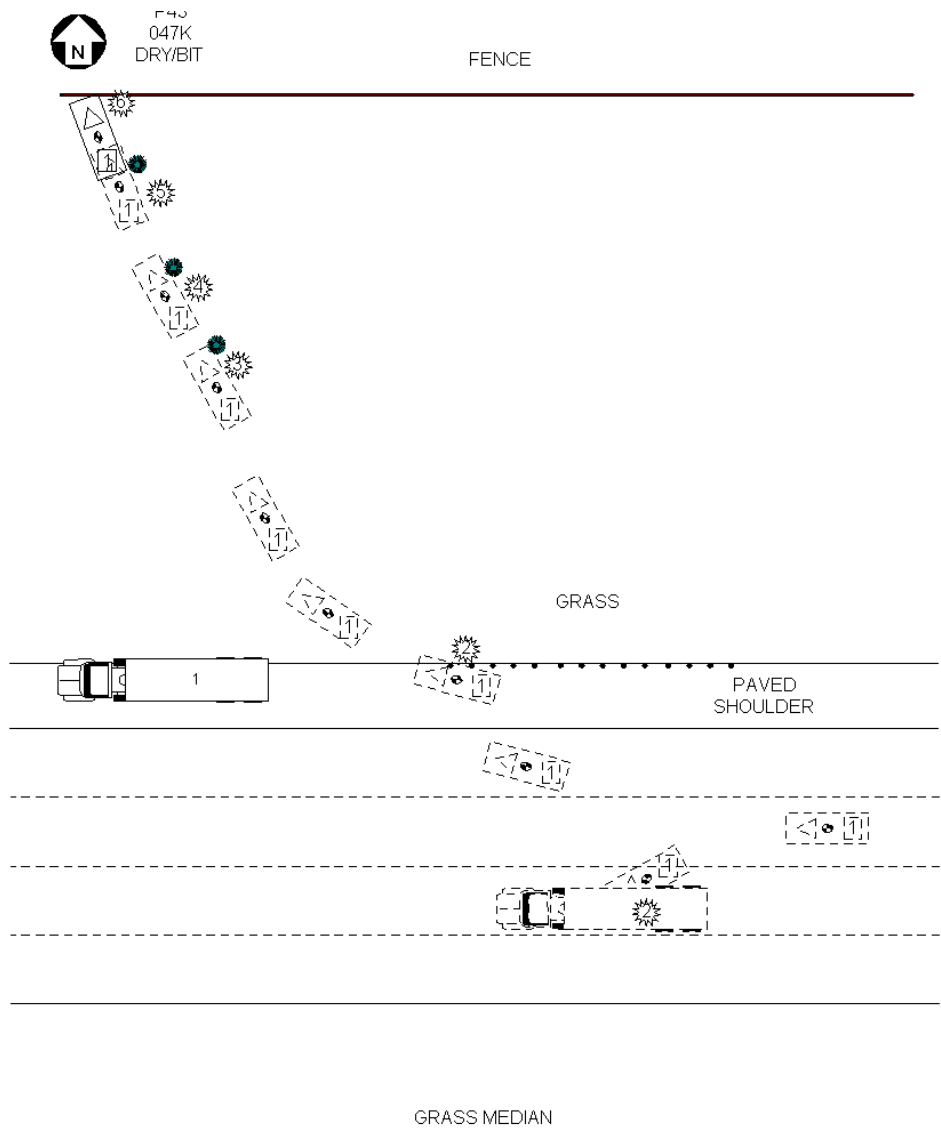
Occupant	1999-43-35-1-2
MAIS	1=Minor
Seat Position	Front right side

AIS Level	Injury Description	Contacts
1=Minor	Thoracic spine strain, acute without fracture or dislocation	Other noncontact
1=Minor	Thoracic skin contusion	Belt webb/buckle
1=Minor	Upper extremity skin contusion	Belt webb/buckle

38 Case 1999-43-47

Summary:

VEHICLE 2, A TRACTOR TRAILER, WAS TRAVELING WEST IN LANE THREE OF A FOUR LANE DIVIDED BITUMINOUS ROADWAY. VEHICLE 1 WAS TRAVELING IN LANE TWO OF THE SAME ROADWAY ATTEMPTING TO MERGE INTO LANE THREE. VEHICLE 1 RODE UNDER VEHICLE 2 LEFT PLANE WITH ITS FRONT PLANE. VEHICLE 1 THEN TRAVELED ACROSS LANE TWO AND ONE ONTO THE SHOULDER IMPACTING THE GUARDRAIL WITH ITS FRONT PLANE. VEHICLE 1 THEN DEPARTED THE ROAD TO THE RIGHT, TRAVELED DOWN AN EMBANKMENT AND SIDESWIPED SEVERAL TREES WITH ITS RIGHT PLANE. VEHICLE 1 THEN IMPACTED A FENCE WITH ITS FRONT PLANE WHERE IT CAUGHT FIRE UNDER THE HOOD AND CAME TO FINAL REST . VEHICLE 2 WAS NOT TOWED . VEHICLE 1 WAS TOWED DUE TO DAMAGE. THE DRIVER OF VEHICLE 1 WAS TRANSPORTED AND HOSPITALIZED.



Vehicle	Body type	Make	Model	Year	Occ.#	Age	Occupant's sex	Maximum known occupant ais
1	4-DR SEDAN/HDTOP	Toyota	Camry	1994	1	32	FEMALE-NOT PREG	2=Moderate

Occupant: 1999-43-47-1-1



Fire Information

Fire Occurence	Minor fire
Fire Origin	Engine compart
Location of Fuel Leakage	No fuel leakage
Type of Fuel Tank	Metallic
Fuel Tank Location	Forward of rear axle, left side
Fuel Cap Location	Left side, behind rear axle
Fuel Tank Damage	No damage
Fuel Type	Gasoline



Pre-Crash Environment

Traffic Flow	DVDED/NO BARRIER
Number of Travel Lanes	FOUR
Roadway Alignment	STRAIGHT
Roadway Profile	LEVEL
Roadway Surface Type	ASPHALT
Roadway Surface Condition	DRY
Light Conditions	DAYLIGHT
Atmospheric Conditions	No ADVERSE COND
Relation to Intersection	INTERCHANGE REL
Traffic Control Device	
Police Reported Alcohol Presence	No ALCOHOL
Alcohol Test (< 95 indicates BAC 0.xx)	0

Crash Severity

Nr. Quarter Turns	No rollover
Impact Speed	< 0.5KMPH
Total, Longitudal, and Lateral δV	< 0.5 KMPH < 0.5 KMPH <
Est. δV with sequence number	0.5 KMPH
CDC	SEVERE 1
Damage (C1-C6)	11 F D A W 6
Crush (L and D)	0 0 0 0 0 0
Object Contacted 1	0 0
Object Contacted 2	VEHICLE NO. 2
	Other BARRIER

NASS Weighting Factor

Weighting factor	51.367568383
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Rollover Characteristics

Number of Events	7
Rollover Initiation Type	No rollover
Location of Rollover Initiation	No rollover
Rollover Initiation Object Contacted	No rollover
Location on Vehicle where Principal Tripping Force was Applied	No rollover
Direction of Initial Roll	No rollover

Vehicle Factors

Make-Model	Toyota Camry
Year	1994
Class	PASSENGER CAR
Body Type	4-DR SEDAN/HDTOP
Weight	133

Pre-Crash Driver Data

Accident Type	47
Pre-event Movement	CHANGING LANES
Critical Pre-crash Event	OVER LINE-LEFT
Attempted Avoidance Manuever	No AVOIDANCE
Pre-impact Stability	TRACKING
Pre-impact Location	Left TRAVEL LANE

DRIVER Factors

Age	32	Height	162	Weight	50
Gender					FEMALE-NOT PREG
Ejection					No EJECTION
Ejection Area					No EJECTION
Entrapment					JAMMED DOOR/FIRE

Restraint Factors

Restrain	Lap and shoulder
AOPS	YES-RES DET
Airbag Deployment	NONDEPLOYED
Airbag Deployment - 1 st Seat	NONDEPLOYED
Airbag Deployment - Oth Seat	Not EQUIP W/ OTH

Injuries

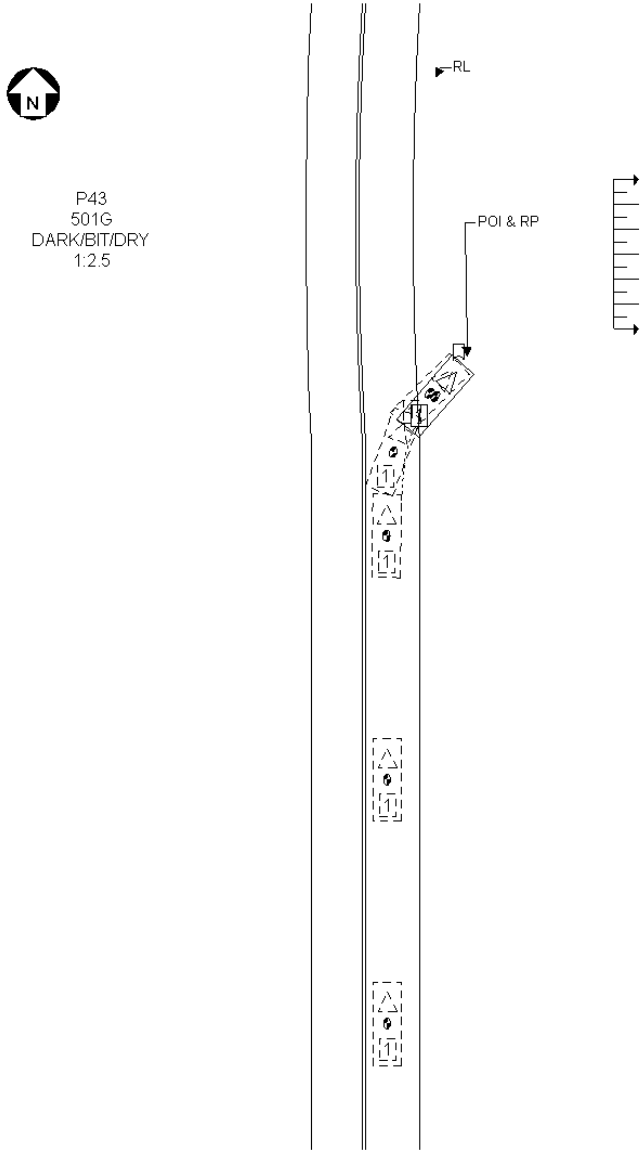
Occupant	1999-43-47-1-1
MAIS	2=Moderate
Seat Position	Front left side

AIS Level	Injury Description	Contacts
2=Moderate	Facial skin laceration, major (>10 cm & into sub-Q)	Left window fram
1=Minor	Abdominal skin abra-sion	Belt webb/buckle

39 Case 1999-43-501

Summary:

Vehicle one was traveling north on a two lane undivided , bituminous, dry, roadway in the dark, attempting to pull onto the shoulder. Vehicle one departed the road on the right, landed in a ditch, and impacted a drain culvert with its front plane. Vehicle one then caught on fire. Cause of fire appears to be the catalytic converter, coming into contact with pine straw. The fire started underneath the vehicle , engulfing the hood and passanger compartment. Vehicle one was towed due to damage. The driver of vehicle one received a "B" injury and received treatment later.



Vehicle	Body type	Make	Model	Year	Occ.#	Age	Occupant's sex	Maximum known occupant ais
1	COMPACT PICKUP	Ford	Ranger	1999	1	19	MALE	1=Minor

Occupant: 1999-43-501-1-1



Fire Information

Fire Occurrence	Major fire
Fire Origin	Engine compart
Location of Fuel Leakage	No fuel leakage
Type of Fuel Tank	Metallic
Fuel Tank Location	Forward of rear axle, left side
Fuel Cap Location	Left side, forward rear axle
Fuel Tank Damage	No damage
Fuel Type	Gasoline



Crash Severity

Nr. Quarter Turns	No rollover
Impact Speed	998
Total, Longitudal, and Lateral δV	21 -21 < 0.5 KMPH
Est. δV with sequence number	DELTA V CODED 1
CDC	12 F D E W 1
Damage (C1-C6)	11 8 9 10 11 14
Crush (L and D)	150 0
Object Contacted 1	DITCH/CULVERT
Object Contacted 2	0

NASS Weighting Factor

Weighting factor	0
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Rollover Characteristics

Number of Events	2
Rollover Initiation Type	No rollover
Location of Rollover Initiation	No rollover
Rollover Initiation Object Contacted	No rollover
Location on Vehicle where Principal Tripping Force was Applied	No rollover
Direction of Initial Roll	No rollover

Pre-Crash Environment

Traffic Flow	Not DIVIDED
Number of Travel Lanes	TWO
Roadway Alignment	CURVE RIGHT
Roadway Profile	UPHILL GRADE
Roadway Surface Type	ASPHALT
Roadway Surface Condition	DRY
Light Conditions	DARK
Atmospheric Conditions	No ADVERSE COND
Relation to Intersection	NONINTER/NONJUNC
Traffic Control Device	
Police Reported Alcohol Presence	No ALCOHOL
Alcohol Test (< 95 indicates BAC 0.xx)	0

Vehicle Factors

Make-Model	Ford Ranger
Year	1999
Class	TRUCK
Body Type	COMPACT PICKUP
Weight	139

Pre-Crash Driver Data

Accident Type	1
Pre-event Movement	NEGOTIATE CURVE
Critical Pre-crash Event	OFF EDGE-RIGHT
Attempted Avoidance Manuever	BRAKE W/ LOCKUP
Pre-impact Stability	LONGITUDINAL SKID
Pre-impact Location	DEPARTED ROADWAY

DRIVER Factors

Age	19	Height	165	Weight	59
Gender			MALE		
Ejection			No EJECTION		
Ejection Area			No EJECTION		
Entrapment			Not ENTRAPPED		

Restraint Factors

Restrain	None used/avail
AOPS	YES-RES DET
Airbag Deployment	NONDEPLOYED
Airbag Deployment - 1 st Seat	NONDEPLOYED
Airbag Deployment - Oth Seat	Not EQUIP W/ OTH

Injuries

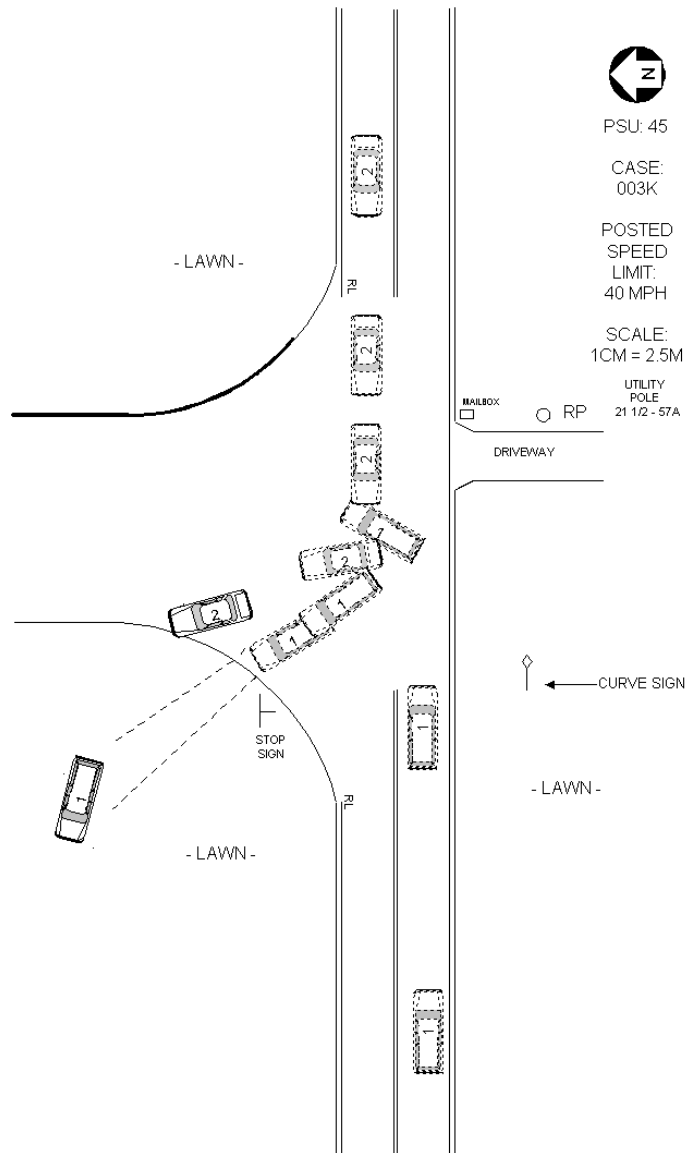
Occupant	1999-43-501-1-1
MAIS	1=Minor
Seat Position	Front left side

AIS Level	Injury Description	Contacts
1=Minor	Facial skin laceration, minor	Steering rim
1=Minor	690402	Unknown SOURCE
1=Minor	Lumbar spine acute strain without fracture or dislocation	Unknown SOURCE

40 Case 1999-45-3

Summary:

Vehicle #1 was traveling east on a two lane roadway with narrow shoulders. The roadway travels through a residential area, it was light, and it was dry. Vehicle #2 was traveling west on the same roadway. Vehicle #1 turned left into a wide roadway that serves as an entrance for a subdivision. The front of Vehicle #2 struck the right side of Vehicle #1, then the left side of Vehicle #2 struck the right side of Vehicle # 1 as it was spinning counterclockwise. Vehicle #1 then crossed a curb, and went more than 10 Meters into a lawn coming to rest facing west. Vehicle #2, which had spun clockwise, came to rest in the subdivision roadway next to the curb facing north. Vehicle #2 burned.



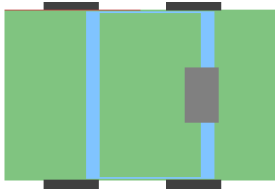
Vehicle	Body type	Make	Model	Year	Occ.#	Age	Occupant's sex	Maximum known occupant ais
1	STATION WAGON	Ford	Taurus	1986	1	51	MALE	2=Moderate
2	4-DR SEDAN/HDTOP	Dodge	Stratus	1996	1	24	MALE	1=Minor

Occupant: 1999-45-3-1-1



Fire Information

Fire Occurrence	No fire
Fire Origin	No fire
Location of Fuel Leakage	No fuel tank
Type of Fuel Tank	Metallic
Fuel Tank Location	Forward of rear axle, centered
Fuel Cap Location	Left side, behind rear axle
Fuel Tank Damage	No fuel tank
Fuel Type	Gasoline



Pre-Crash Environment

Traffic Flow	Not DIVIDED
Number of Travel Lanes	TWO
Roadway Alignment	STRAIGHT
Roadway Profile	LEVEL
Roadway Surface Type	ASPHALT
Roadway Surface Condition	DRY
Light Conditions	DAYLIGHT
Atmospheric Conditions	No ADVERSE COND
Relation to Intersection	INTERSECTION REL
Traffic Control Device	
Police Reported Alcohol Presence	No ALCOHOL
Alcohol Test (< 95 indicates BAC 0.xx)	0

Crash Severity

Nr. Quarter Turns	No rollover
Impact Speed	998
Total, Longitudal, and Lateral δV	26 -22 -13
Est. δV with sequence number	DELTA V CODED 1
CDC	1 R F E 9 0
Damage (C1-C6)	0 0 0 0 0 0
Crush (L and D)	0 0
Object Contacted 1	VEHICLE NO. 2
Object Contacted 2	VEHICLE NO. 2

NASS Weighting Factor

Weighting factor	110.65117674
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Rollover Characteristics

Number of Events	3
Rollover Initiation Type	No rollover
Location of Rollover Initiation	No rollover
Rollover Initiation Object Contacted	No rollover
Location on Vehicle where Principal Tripping Force was Applied	No rollover
Direction of Initial Roll	No rollover

Vehicle Factors

Make-Model	Ford Taurus
Year	1986
Class	PASSENGER CAR
Body Type	STATION WAGON
Weight	144

Pre-Crash Driver Data

Accident Type	68
Pre-event Movement	TURNING LEFT
Critical Pre-crash Event	TURN LEFT-INTERS
Attempted Avoidance Manuever	No AVOIDANCE
Pre-impact Stability	TRACKING
Pre-impact Location	Left TRAVEL LANE

DRIVER Factors

Age	51	Height	183	Weight	102
Gender			MALE		
Ejection			No EJECTION		
Ejection Area			No EJECTION		
Entrapment			Not ENTRAPPED		

Restraint Factors

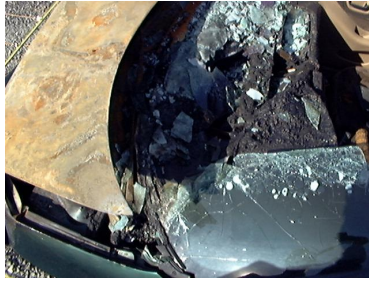
Restrain	None used/avail
AOPS	NO
Airbag Deployment	Not EQUIP/AVAIL
Airbag Deployment - 1 st Seat	Not EQUIP/AVAIL
Airbag Deployment - Oth Seat	Not EQUIP W/ OTH

Injuries

Occupant	1999-45-3-1-1
MAIS	2=Moderate
Seat Position	Front left side

AIS Level	Injury Description	Contacts
2=Moderate	Wrist (carpus) joint dislocation (radio/inter/peri-carpal)	Steering rim
1=Minor	Wrist (carpus) joint sprain	Steering rim
1=Minor	Facial skin laceration, minor	Windshield
1=Minor	297602	Windshield
1=Minor	Conjunctiva injury	Windshield
2=Moderate	Maxillary fracture, closed	Unknown SOURCE
2=Moderate	Zygoma fracture	Unknown SOURCE
2=Moderate	Zygoma fracture	Unknown SOURCE
2=Moderate	2-3 rib fractures with stable chest	Steering rim
1=Minor	297402	Windshield
2=Moderate	Awake on admission, prior unconscious, length NFS	Windshield
1=Minor	Upper extremity skin contusion	Steering rim

Occupant: 1999-45-3-2-1



Fire Information

Fire Occurrence	Major fire
Fire Origin	Engine compart
Location of Fuel Leakage	Line/pump/filter
Type of Fuel Tank	Metallic
Fuel Tank Location	Forward of rear axle, centered
Fuel Cap Location	Left side, behind rear axle
Fuel Tank Damage	No damage
Fuel Type	Gasoline



Pre-Crash Environment

Traffic Flow	Not DIVIDED
Number of Travel Lanes	TWO
Roadway Alignment	STRAIGHT
Roadway Profile	LEVEL
Roadway Surface Type	ASPHALT
Roadway Surface Condition	DRY
Light Conditions	DAYLIGHT
Atmospheric Conditions	No ADVERSE COND
Relation to Intersection	INTERSECTION REL
Traffic Control Device	
Police Reported Alcohol Presence	No ALCOHOL
Alcohol Test (< 95 indicates BAC 0.xx)	0

Crash Severity

Nr. Quarter Turns	No rollover
Impact Speed	998
Total, Longitudal, and Lateral δV	31 -27 16
Est. δV with sequence number	DELTA V CODED 1
CDC	71 F D E W 2
Damage (C1-C6)	27 29 22 17 13 16
Crush (L and D)	140 -5
Object Contacted 1	VEHICLE NO. 1
Object Contacted 2	VEHICLE NO. 1

NASS Weighting Factor

Weighting factor	110.65117674
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Rollover Characteristics

Number of Events	3
Rollover Initiation Type	No rollover
Location of Rollover Initiation	No rollover
Rollover Initiation Object Contacted	No rollover
Location on Vehicle where Principal Tripping Force was Applied	No rollover
Direction of Initial Roll	No rollover

Vehicle Factors

Make-Model	Dodge Stratus
Year	1996
Class	PASSENGER CAR
Body Type	4-DR SEDAN/HDTOP
Weight	132

Pre-Crash Driver Data

Accident Type	69
Pre-event Movement	GOING STRAIGHT
Critical Pre-crash Event	OPP DIR-OVR LEFT
Attempted Avoidance Manuever	No AVOIDANCE
Pre-impact Stability	TRACKING
Pre-impact Location	STAYED IN LANE

DRIVER Factors

Age	24	Height	170	Weight	64
Gender					MALE
Ejection					No EJECTION
Ejection Area					No EJECTION
Entrapment					Not ENTRAPPED

Restraint Factors

Restrain	Lap and shoulder
AOPS	YES-RES DET
Airbag Deployment	BAG DEPLOYED
Airbag Deployment - 1 st Seat	DR
PAS BAG DEPLY	
Airbag Deployment - Oth Seat	Not EQUIP W/ OTH

Injuries

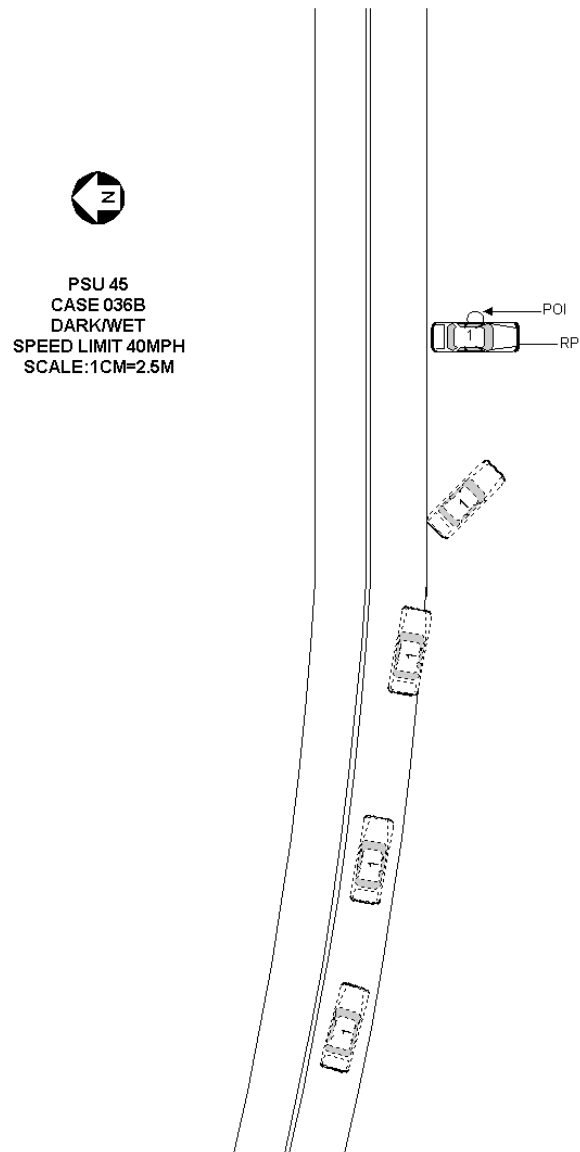
Occupant	1999-45-3-2-1
MAIS	1=Minor
Seat Position	Front left side

AIS Level	Injury Description	Contacts
1=Minor	Upper extremity skin contusion	Air bag-DR side
1=Minor	Ankle joint sprain	Foot controls
1=Minor	Ankle joint sprain	Floor
1=Minor	Abdominal skin contusion	Belt webb/buckle
1=Minor	Leg skin laceration, minor	Floor

41 Case 1999-45-36

Summary:

V1 was eastbound on two lane rural roadway under dark/raining conditions with a speed limit of 40 mph. As V1 was negotiating a curve to the left, V1 ran off road to the right and struck a utility pole with the left side of vehicle. No component failures were observed. Single occupant was fatal.



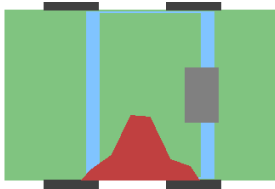
Vehicle	Body type	Make	Model	Year	Occ.#	Age	Occupant's sex	Maximum known occupant ais
1	4-DR SEDAN/HDTOP	Ford	Taurus	1986	1	32	MALE	1=Minor

Occupant: 1999-45-36-1-1



Fire Information

Fire Occurrence	No fire
Fire Origin	No fire
Location of Fuel Leakage	Tank
Type of Fuel Tank	Metallic
Fuel Tank Location	Forward of rear axle, centered
Fuel Cap Location	Right side, behind rear axle
Fuel Tank Damage	Deform+seam fail
Fuel Type	Gasoline



Pre-Crash Environment

Traffic Flow	Not DIVIDED
Number of Travel Lanes	TWO
Roadway Alignment	CURVE LEFT
Roadway Profile	LEVEL
Roadway Surface Type	ASPHALT
Roadway Surface Condition	WET
Light Conditions	DARK
Atmospheric Conditions	RAIN
Relation to Intersection	NONINTER/NONJUNC
Traffic Control Device	
Police Reported Alcohol Presence	No ALCOHOL
Alcohol Test (< 95 indicates BAC 0.xx)	0

Vehicle Factors

Make-Model	Ford Taurus
Year	1986
Class	PASSENGER CAR
Body Type	4-DR SEDAN/HDTOP
Weight	130

Crash Severity

Nr. Quarter Turns	No rollover
Impact Speed	< 0.5KMPH
Total, Longitudal, and Lateral δV	< 0.5 KMPH < 0.5 KMPH < 0.5 KMPH
Est. δV with sequence number	DELTA V CODED 1
CDC	9 L P A W 6
Damage (C1-C6)	15 37 96 93 30 20
Crush (L and D)	175 -8
Object Contacted 1	MEDIUM POLE
Object Contacted 2	0

Pre-Crash Driver Data

Accident Type	2
Pre-event Movement	NEGOTIATE CURVE
Critical Pre-crash Event	OFF EDGE-RIGHT
Attempted Avoidance Manuever	No DRIVER
Pre-impact Stability	No DRIVER
Pre-impact Location	DEPARTED ROADWAY

NASS Weighting Factor

Weighting factor	49.406460522
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DRIVER Factors

Age	32	Height	0	Weight	0
Gender					MALE
Ejection					No EJECTION
Ejection Area					No EJECTION
Entrapment					JAMMED DOOR/FIRE

Rollover Characteristics

Number of Events	1
Rollover Initiation Type	No rollover
Location of Rollover Initiation	No rollover
Rollover Initiation Object Contacted	No rollover
Location on Vehicle where Principal Tripping Force was Applied	No rollover
Direction of Initial Roll	No rollover

Restraint Factors

Restrain	None used/avail
AOPS	NO
Airbag Deployment	Not EQUIP/AVAIL
Airbag Deployment - 1 st Seat	Not EQUIP/AVAIL
Airbag Deployment - Oth Seat	Not EQUIP W/ OTH

Injuries

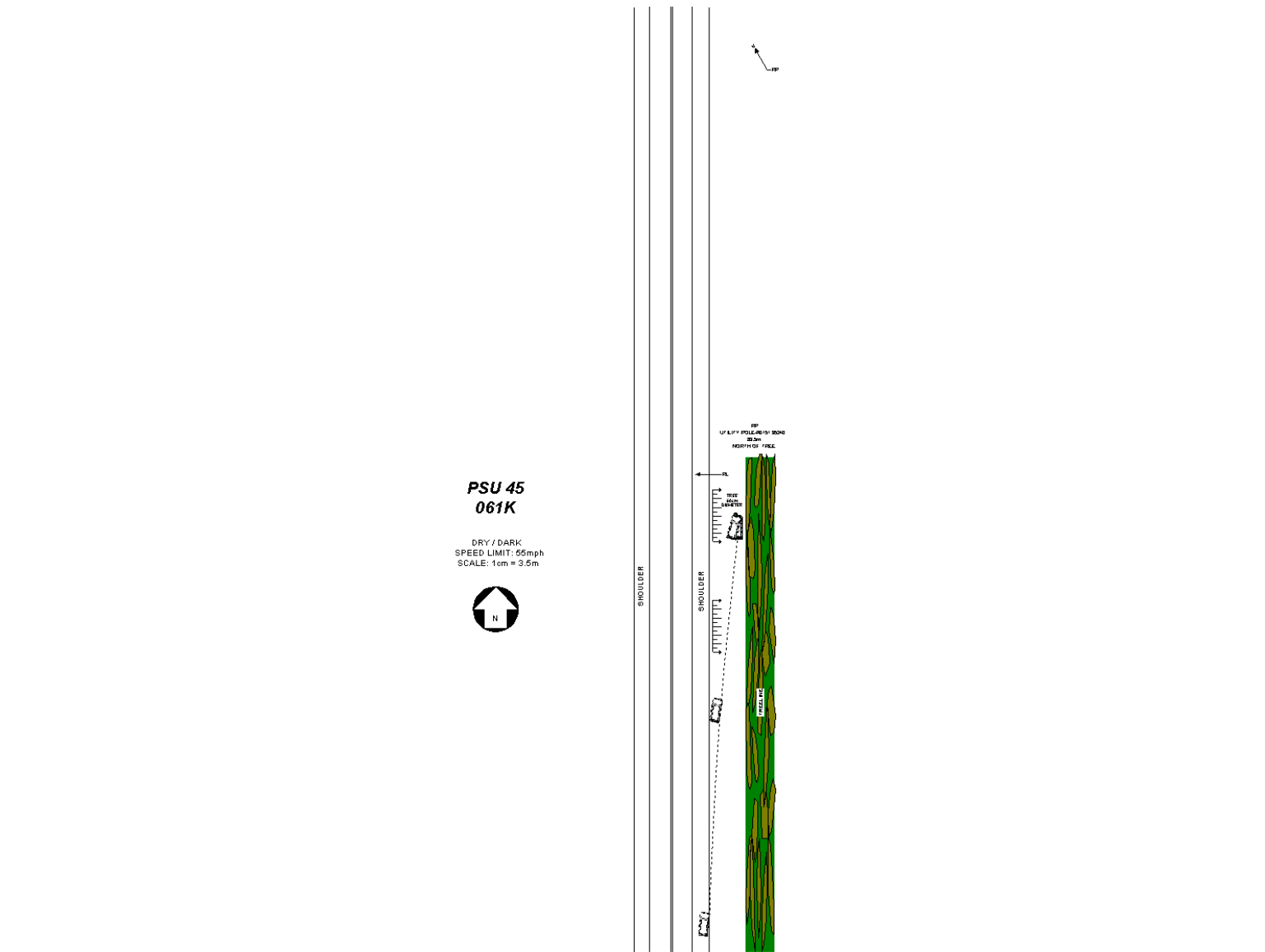
Occupant	1999-45-36-1-1
MAIS	1=Minor
Seat Position	Front left side

AIS Level	Injury Description	Contacts
1=Minor	Scalp injury, NFS	Left B pillar

42 Case 1999-45-61

Summary:

V1 was northbound on a two lane, rural highway with shoulders in dry, dark conditions. V1 departed the right side of the road and struck a tree with its front. After impact a fire occurred, apparently starting in the engine compartment. The belted driver was hospitalized with serious injuries.



Vehicle	Body type	Make	Model	Year	Occ.#	Age	Occupant's sex	Maximum known occupant ais
1	COMPACT UTILITY	Jeep	YJ-Wrangler	1994	1	18	MALE	5=Critical

Occupant: 1999-45-61-1-1



Fire Information

Fire Occurrence	Major fire
Fire Origin	Engine compartment
Location of Fuel Leakage	No fuel leakage
Type of Fuel Tank	Non-metallic
Fuel Tank Location	Behind rear axle, centered
Fuel Cap Location	On back plane
Fuel Tank Damage	No damage
Fuel Type	Gasoline



Pre-Crash Environment

Traffic Flow	Not DIVIDED
Number of Travel Lanes	TWO
Roadway Alignment	STRAIGHT
Roadway Profile	LEVEL
Roadway Surface Type	ASPHALT
Roadway Surface Condition	DRY
Light Conditions	DARK
Atmospheric Conditions	No ADVERSE COND
Relation to Intersection	NONINTER/NONJUNC
Traffic Control Device	
Police Reported Alcohol Presence	No ALCOHOL
Alcohol Test (< 95 indicates BAC 0.xx)	0

Crash Severity

Nr. Quarter Turns	No rollover
Impact Speed	998
Total, Longitudal, and Lateral δV	64 -61 -22
Est. δV with sequence number	DELTA V CODED 1
CDC	1 F Y E W 3
Damage (C1-C6)	62 68 74 78 74 24
Crush (L and D)	136 -25
Object Contacted 1	LARGE TREE
Object Contacted 2	0

NASS Weighting Factor

Weighting factor	52.691036543
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Rollover Characteristics

Number of Events	2
Rollover Initiation Type	No rollover
Location of Rollover Initiation	No rollover
Rollover Initiation Object Contacted	No rollover
Location on Vehicle where Principal Tripping Force was Applied	No rollover
Direction of Initial Roll	No rollover

Vehicle Factors

Make-Model	Jeep YJ-Wrangler
Year	1994
Class	TRUCK
Body Type	COMPACT UTILITY
Weight	134

Pre-Crash Driver Data

Accident Type	1
Pre-event Movement	GOING STRAIGHT
Critical Pre-crash Event	OFF EDGE-RIGHT
Attempted Avoidance Manuever	No AVOIDANCE
Pre-impact Stability	TRACKING
Pre-impact Location	DEPARTED ROADWAY

DRIVER Factors

Age	18	Height	178	Weight	68
Gender			MALE		
Ejection			No EJECTION		
Ejection Area			No EJECTION		
Entrapment			Not ENTRAPPED		

Restraint Factors

Restrain	Type unknown
AOPS	NO
Airbag Deployment	Not EQUIP/AVAIL
Airbag Deployment - 1 st Seat	Not EQUIP/AVAIL
Airbag Deployment - Oth Seat	Not EQUIP W/ OTH

Injuries

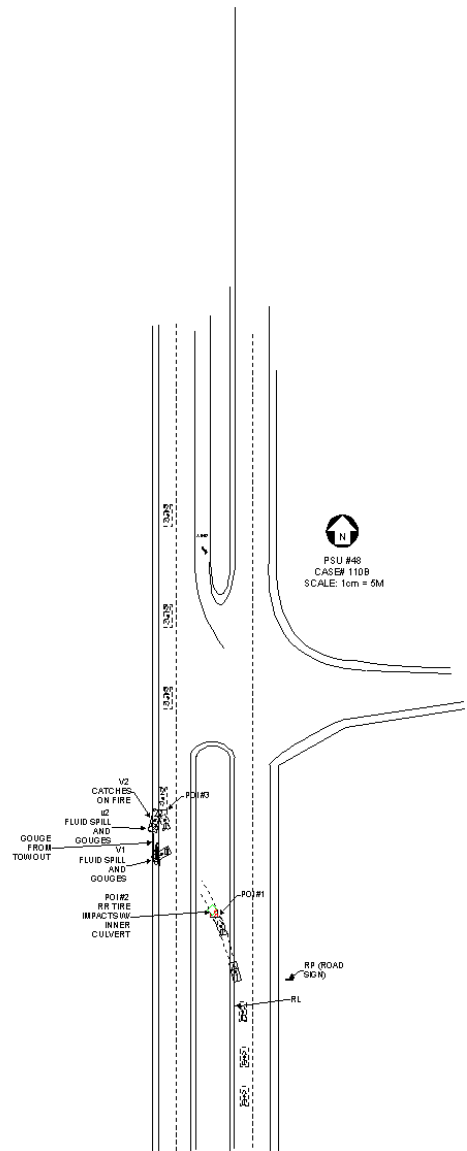
Occupant	1999-45-61-1-1
MAIS	5=Critical
Seat Position	Front left side

AIS Level	Injury Description	Contacts
2=Moderate	Nose fracture, open/displaced/comm	Unknown SOURCE
1=Minor	Facial skin laceration, minor	Unknown SOURCE
1=Minor	Leg skin laceration NFS	Unknown SOURCE
4=Severe	Lung contusion, bilateral	Unknown SOURCE
2=Moderate	441804	Unknown SOURCE
4=Severe	>3 rib fxs on one side & <3 other side & hemo-/pneumothorax	Unknown SOURCE
2=Moderate	Thoracic spinous process fracture without cord injury	Unknown SOURCE
2=Moderate	Thoracic spinous process fracture without cord injury	Unknown SOURCE
2=Moderate	Thoracic spinous process fracture without cord injury	Unknown SOURCE
2=Moderate	Thoracic spinous process fracture without cord injury	Unknown SOURCE
2=Moderate	Thoracic spinous process fracture without cord injury	Unknown SOURCE
2=Moderate	Hepatic laceration, minor (<3cms deep, EBL<202	Pelvic fracture NFS
Unknown SOURCE		
2=Moderate	Lumbar fracture without cord injury NFS	Unknown SOURCE
3=Serious	Femoral shaft fracture	Unknown SOURCE
3=Serious	Cerebral sub-arachnoid hemorrhage	Unknown SOURCE
4=Severe	Cerebral subdural hematoma, NFS	Unknown SOURCE
5=Critical	Unconscious on admission, inappropriate movements	Unknown SOURCE
5=Critical	Myocardial laceration with perforation (+/- tamponade)	Unknown SOURCE
4=Severe	Myocardial contusion, severe	Unknown SOURCE

43 Case 1999-48-110

Summary:

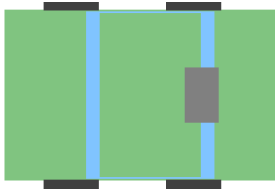
V1 was traveling northbound on a divided, four-lane, wet, bituminous trafficway. V2 was traveling southbound on the same trafficway. V1 hit a water puddle and lost control leaving the west shoulder skidding into a culvert in the median. V1 then re-entered the roadway in the southbound traffic. The front of V1 contacted the front of V2. Both vehicle came to rest on the west shoulder of the southbound lanes. V2 had a fire which began in the engine compartment. The restrained driver (with deployed airbag) of V1 was transported to a local trauma center and expired the following day. The restrained driver of V2 was also transported to a local trauma center and hospitalized. Both vehicles were towed due to disabling damage.



Vehicle	Body type	Make	Model	Year	Occ.#	Age	Occupant's sex	Maximum known occupant ais
1	4-DR SEDAN/HDTOP	Toyota	Corolla	1994	1	56	FEMALE-NOT PREG	3=Serious
2	2DR SEDAN/HT/CPE	Mercury	Cougar XR7	1990	1	27	FEMALE-NOT PREG	4=Severe

Occupant: 1999-48-110-1-1**Fire Information**

Fire Occurrence	No fire
Fire Origin	No fire
Location of Fuel Leakage	No fuel leakage
Type of Fuel Tank	Metallic
Fuel Tank Location	Forward of rear axle, centered
Fuel Cap Location	Left side, behind rear axle
Fuel Tank Damage	No damage
Fuel Type	Gasoline

**Pre-Crash Environment**

Traffic Flow	DVDED/NO BARRIER
Number of Travel Lanes	TWO
Roadway Alignment	STRAIGHT
Roadway Profile	DOWNHILL GRADE
Roadway Surface Type	ASPHALT
Roadway Surface Condition	WET
Light Conditions	DAYLIGHT
Atmospheric Conditions	RAIN
Relation to Intersection	NONINTER/NONJUNC
Traffic Control Device	
Police Reported Alcohol Presence	No ALCOHOL
Alcohol Test (< 95 indicates BAC 0.xx)	0

Crash Severity

Nr. Quarter Turns	No rollover
Impact Speed	998
Total, Longitudal, and Lateral δV	70 -69 -12
Est. δV with sequence number	DELTA V CODED 3
CDC	12 F D E W 4
Damage (C1-C6)	0 0 0 0 0 0
Crush (L and D)	0 0
Object Contacted 1	VEHICLE NO. 2
Object Contacted 2	DITCH/CULVERT

NASS Weighting Factor

Weighting factor	429.14203404
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Rollover Characteristics

Number of Events	4
Rollover Initiation Type	No rollover
Location of Rollover Initiation	No rollover
Rollover Initiation Object Contacted	No rollover
Location on Vehicle where Principal Tripping Force was Applied	No rollover
Direction of Initial Roll	No rollover

Vehicle Factors

Make-Model	Toyota Corolla
Year	1994
Class	PASSENGER CAR
Body Type	4-DR SEDAN/HDTOP
Weight	105

Pre-Crash Driver Data

Accident Type	7
Pre-event Movement	GOING STRAIGHT
Critical Pre-crash Event	POOR ROAD CONDIT
Attempted Avoidance Manuever	BRAKE W/ LOCKUP
Pre-impact Stability	LONGITUDINAL SKID
Pre-impact Location	DEPARTED ROADWAY

DRIVER Factors

Age	56	Height	170	Weight	73
Gender					FEMALE-NOT PREG
Ejection					No EJECTION
Ejection Area					No EJECTION
Entrapment					ENTRAPPED

Restraint Factors

Restrain	Lap and shoulder
AOPS	YES-RES DET
Airbag Deployment	BAG DEPLOYED
Airbag Deployment - 1 st Seat	DR
PAS BAG DEPLY	
Airbag Deployment - Oth Seat	Not EQUIP W/ OTH

Injuries

Occupant	1999-48-110-1-1
MAIS	3=Serious
Seat Position	Front left side

AIS Level	Injury Description	Contacts
3=Serious	Cerebral contusions, multiple, bilateral, small	Steering comb
2=Moderate	Lethargic on admission, never unconscious	Steering comb
3=Serious	Small bowel laceration with perforation (not transection)	Steering comb
3=Serious	Humeral fracture, open/displaced/comminuted	Steering rim
3=Serious	Humeral fracture, open/displaced/comminuted	Left apnel
3=Serious	Supracondylar femoral fracture	Knee bolster
3=Serious	Supracondylar femoral fracture	Knee bolster
2=Moderate	Sternal fracture	Steering comb
3=Serious	2-3 rib fractures with stable chest and hemo-/pneumothorax	Steering comb
3=Serious	Lung contusion, unilateral	Steering comb
1=Minor	Abdominal skin laceration, minor	Belt webb/buckle
1=Minor	Facial skin abrasion	Air bag-DR side
1=Minor	Facial skin contusion	Air bag-DR side
1=Minor	Abdominal skin contusion	Belt webb/buckle
1=Minor	Abdominal skin abrasion	Belt webb/buckle
1=Minor	Thoracic skin contusion	Belt webb/buckle
2=Moderate	Small bowel contusion (hematoma)	Steering rim

Occupant: 1999-48-110-2-1



Fire Information

Fire Occurrence	Major fire
Fire Origin	Engine compartment
Location of Fuel Leakage	No fuel tank
Type of Fuel Tank	Metallic
Fuel Tank Location	Forward of rear axle, centered
Fuel Cap Location	Right side, behind rear axle
Fuel Tank Damage	No damage
Fuel Type	Gasoline



Pre-Crash Environment

Traffic Flow	DVDED/NO BARRIER
Number of Travel Lanes	TWO
Roadway Alignment	STRAIGHT
Roadway Profile	DOWNHILL GRADE
Roadway Surface Type	ASPHALT
Roadway Surface Condition	WET
Light Conditions	DAYLIGHT
Atmospheric Conditions	RAIN
Relation to Intersection	NONINTER/NONJUNC
Traffic Control Device	
Police Reported Alcohol Presence	No ALCOHOL
Alcohol Test (< 95 indicates BAC 0.xx)	0

Crash Severity

Nr. Quarter Turns	No rollover
Impact Speed	998
Total, Longitudal, and Lateral δV	47 -47 < 0.5 KMPH
Est. δV with sequence number	DELTA V CODED 3
CDC	12 F D E W 4
Damage (C1-C6)	92 66 73 64 32 16
Crush (L and D)	156 0
Object Contacted 1	VEHICLE NO. 1
Object Contacted 2	0

NASS Weighting Factor

Weighting factor	429.14203404
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Rollover Characteristics

Number of Events	4
Rollover Initiation Type	No rollover
Location of Rollover Initiation	No rollover
Rollover Initiation Object Contacted	No rollover
Location on Vehicle where Principal Tripping Force was Applied	No rollover
Direction of Initial Roll	No rollover

Vehicle Factors

Make-Model	Mercury Cougar XR7
Year	1990
Class	PASSENGER CAR
Body Type	2DR SEDAN/HT/CPE
Weight	164

Pre-Crash Driver Data

Accident Type	98
Pre-event Movement	GOING STRAIGHT
Critical Pre-crash Event	OPP DIR-OVR LEFT
Attempted Avoidance Manuever	No AVOIDANCE
Pre-impact Stability	TRACKING
Pre-impact Location	STAYED IN LANE

DRIVER Factors

Age	27	Height	165	Weight	59
Gender					FEMALE-NOT PREG
Ejection					No EJECTION
Ejection Area					No EJECTION
Entrapment					Not ENTRAPPED

Restraint Factors

Restrain	Lap belt
AOPS	YES-RES DET
Airbag Deployment	Not EQUIP/AVAIL
Airbag Deployment - 1 st Seat	Not EQUIP/AVAIL
Airbag Deployment - Oth Seat	Not EQUIP W/ OTH

Injuries

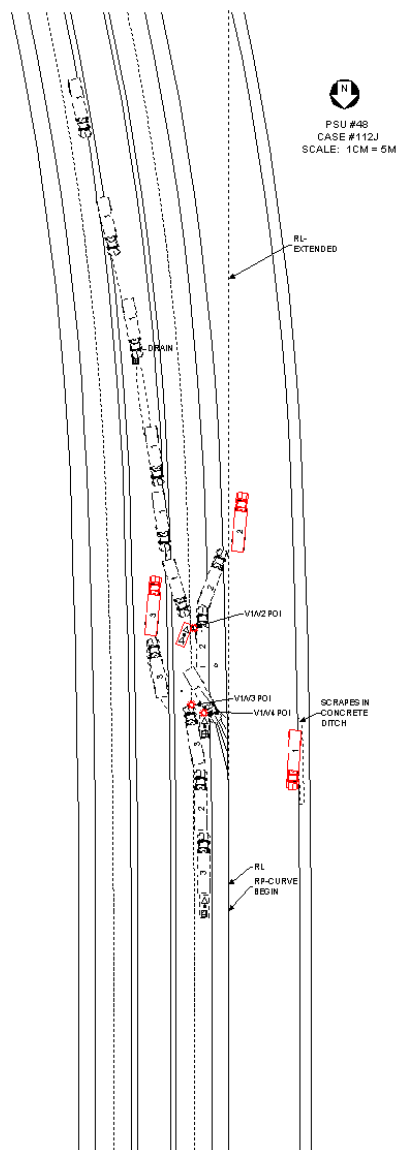
Occupant	1999-48-110-2-1
MAIS	4=Severe
Seat Position	Front left side

AIS Level	Injury Description	Contacts
2=Moderate	Awake on admission, amnesia	Steering comb
2=Moderate	Nose fracture, open/displaced/comminuted	Steering rim
4=Severe	Rib fxs (=>1), open/displaced/comminuted,& hemo-/pneumo thx	Steering comb
3=Serious	Lung contusion, uni-lateral	Steering comb
2=Moderate	Splenic contusion, minor (<502=Moderate	Splenic laceration, minor (tear<3cms deep, no major vessel)
Steering rim		
2=Moderate	Pelvic fracture, closed	Steering rim
2=Moderate	Hip joint dislocation not involving articular cartilage	Steering rim
3=Serious	Femoral shaft fracture	Left apnel
1=Minor	Facial skin laceration, minor	Steering comb
1=Minor	Facial skin laceration, minor	Steering comb
1=Minor	Facial skin contusion	Steering comb
1=Minor	Facial skin laceration, minor	Steering comb
1=Minor	297402	Steering comb
1=Minor	297402	Steering comb
1=Minor	Leg skin laceration, minor	Left apnel

44 Case 1999-48-112

Summary:

V1 WAS TRAVELING NORTH ON A FOUR-LANED (W.O POSITIVE BARRIER), DRY, BITUMINOUS INTERSTATE HIGHWAY NEGOTIATING A RT. CURVE IN THE SECOND LANE. V2, V3 AND V4 WERE TRAVELING NORTH ON THE SAME 4-LANED, DRY, BITUMINOUS INTERSTATE HIGHWAY IN THE FIRST LANE, RESPECTIVELY. V1 DEPARTED THE NORTHBOUND LANES ALONG THE LEFT RD EDGE, CROSSED THE MEDIAN AND REENTERED THE HIGHWAY IN THE SOUTHBOUND LANES, HEADED NORTH. THE FRONT OF V1 IMPACTED THE LEFT SIDE OF V2. V2 LEFT THE ROADWAY ALONG THE RT RD EDGE AND CAME TO REST FACING SOUTH. V1'S LEFT SIDE THEN IMPACTED THE FRONT OF V3. V3 LEFT THE ROADWAY ALONG THE LEFT RD EDGE AND CAME TO REST IN THE MEDIAN FACING SOUTH. THE RIGHT SIDE OF V1 WAS THEN IMPACTED BY THE FRONT OF V4. V4 ROTATED APPROX. 20 DEGREES CW TO FRP IN THE SECOND SOUTHBOUND LANE. V1 DEPARTED THE SOUTHBOUND LANES ALONG THE WEST RD EDGE, TRAVELED DOWN AN EMBANKMENT AND CAME TO REST IN A CONCRETE DITCH FACING NORTH AND BURNED. THE RESTRAINED DRIVER OF V1 WAS TRANSPORTED WITH "A" INJURIES AND MEDICAL TREATMENT IS UNKNOWN. THE RESTRAINED DRIVER OF V2 WAS NOT REPORTED INJURED. THE RESTRAINED DRIVER OF V3 WAS NOT REPORTED INJURED. THE RESTRAINED DRIVER AND RESTRAINED RF PASSENGER (BOTH WITH DEPLOYED AIRBAGS) WERE TRANSPORTED AND HOSPITALIZED WITH "A" INJURIES. THE RESTRAINED RR PASSENGER (IN CHILD SEAT) WAS TRANSPORTED AND RELEASED WITH "A" INJURIES. aLL FOUR VEHICLES WERE TOWED DUE TO DISABLING DAMAGE.



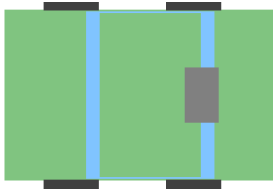
Vehicle#	Body type	Make	Model	Year	Occ.#	Age	Occupant's sex	Maximum known occupant ais
4	4-DR SEDAN/HDTOP	Oldsmobile	24	1999	1	53	MALE	7=Unk. sev.
4	4-DR SEDAN/HDTOP	Oldsmobile	24	1999	2	48	FEMALE-NOT PREG	7=Unk. sev.
4	4-DR SEDAN/HDTOP	Oldsmobile	24	1999	3	4	MALE	7=Unk. sev.

Occupant: 1999-48-112-4-1



Fire Information

Fire Occurrence	No data
Fire Origin	No data
Location of Fuel Leakage	No data
Type of Fuel Tank	No data
Fuel Tank Location	No data
Fuel Cap Location	No data
Fuel Tank Damage	No data
Fuel Type	No data



Crash Severity

Nr. Quarter Turns	No rollover
Impact Speed	< 0.5KMPH
Total, Longitudal, and Lateral δV	< 0.5 KMPH < 0.5 KMPH < 0.5 KMPH
Est. δV with sequence number	DELTA V CODED 0
CDC	No data No data No data No data
Damage (C1-C6)	No data No data No data No data
Crush (L and D)	No data No data
Object Contacted 1	No data
Object Contacted 2	No data

NASS Weighting Factor

Weighting factor	522.03008303
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Rollover Characteristics

Number of Events	4
Rollover Initiation Type	No rollover
Location of Rollover Initiation	No rollover
Rollover Initiation Object	No rollover
Contacted	
Location on Vehicle where Principal Tripping Force was Applied	No rollover
Direction of Initial Roll	No rollover

Pre-Crash Environment

Traffic Flow	DVDED/NO BARRIER
Number of Travel Lanes	TWO
Roadway Alignment	STRAIGHT
Roadway Profile	LEVEL
Roadway Surface Type	ASPHALT
Roadway Surface Condition	DRY
Light Conditions	DARK
Atmospheric Conditions	No ADVERSE COND
Relation to Intersection	NONINTER/NONJUNC
Traffic Control Device	
Police Reported Alcohol Presence	No ALCOHOL
Alcohol Test (< 95 indicates BAC 0.xx)	0

Vehicle Factors

Make-Model	Oldsmobile 24
Year	1999
Class	PASSENGER CAR
Body Type	4-DR SEDAN/HDTOP
Weight	137

Pre-Crash Driver Data

Accident Type	98
Pre-event Movement	GOING STRAIGHT
Critical Pre-crash Event	OPP DIR-OVR LEFT
Attempted Avoidance Maneuver	No DRIVER
Pre-impact Stability	No DRIVER
Pre-impact Location	STAYED IN LANE

DRIVER Factors

Age	53	Height	170	Weight	0
Gender			MALE		
Ejection			No EJECTION		
Ejection Area			No EJECTION		
Entrapment			Not ENTRAPPED		

Restraint Factors

Restrain		None used/avail
AOPS		YES-RES DET
Airbag Deployment		BAG DEPLOY UNDET
Airbag Deployment - 1 st Seat		BAG DEP DET UNK
Airbag Deployment - Oth Seat		Not EQUIP W/ OTH

Injuries

Occupant	1999-48-112-4-1
MAIS	7=Unk. sev.
Seat Position	Front left side

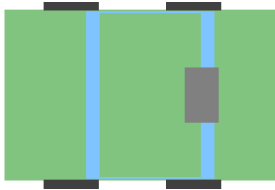
AIS Level	Injury Description	Contacts
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Occupant: 1999-48-112-4-2



Fire Information

Fire Occurrence	No data
Fire Origin	No data
Location of Fuel Leakage	No data
Type of Fuel Tank	No data
Fuel Tank Location	No data
Fuel Cap Location	No data
Fuel Tank Damage	No data
Fuel Type	No data



Crash Severity

Nr. Quarter Turns	No rollover
Impact Speed	< 0.5KMPH
Total, Longitudal, and Lateral δV	< 0.5 KMPH < 0.5 KMPH < 0.5 KMPH
Est. δV with sequence number	DELTA V CODED 0
CDC	No data No data No data No data
Damage (C1-C6)	No data No data No data No data
Crush (L and D)	No data No data
Object Contacted 1	No data
Object Contacted 2	No data

NASS Weighting Factor

Weighting factor	522.03008303
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Rollover Characteristics

Number of Events	4
Rollover Initiation Type	No rollover
Location of Rollover Initiation	No rollover
Rollover Initiation Object Contacted	No rollover
Location on Vehicle where Principal Tripping Force was Applied	No rollover
Direction of Initial Roll	No rollover

Pre-Crash Environment

Traffic Flow	DVDED/NO BARRIER
Number of Travel Lanes	TWO
Roadway Alignment	STRAIGHT
Roadway Profile	LEVEL
Roadway Surface Type	ASPHALT
Roadway Surface Condition	DRY
Light Conditions	DARK
Atmospheric Conditions	No ADVERSE COND
Relation to Intersection	NONINTER/NONJUNC
Traffic Control Device	
Police Reported Alcohol Presence	No ALCOHOL
Alcohol Test (< 95 indicates BAC 0.xx)	0

Vehicle Factors

Make-Model	Oldsmobile 24
Year	1999
Class	PASSENGER CAR
Body Type	4-DR SEDAN/HDTOP
Weight	137

Pre-Crash Driver Data

Accident Type	98
Pre-event Movement	GOING STRAIGHT
Critical Pre-crash Event	OPP DIR-OVR LEFT
Attempted Avoidance Maneuver	No DRIVER
Pre-impact Stability	No DRIVER
Pre-impact Location	STAYED IN LANE

PASSENGER Factors

Age	48	Height	0	Weight	0
Gender			FEMALE-NOT PREG		
Ejection			No EJECTION		
Ejection Area			No EJECTION		
Entrapment			Not ENTRAPPED		

Restraint Factors

Restrain		None used/avail
AOPS		YES-RES DET
Airbag Deployment		BAG DEPLOY UNDET
Airbag Deployment - 1 st Seat		BAG DEP DET UNK
Airbag Deployment - Oth Seat		Not EQUIP W/ OTH

Injuries

Occupant	1999-48-112-4-2
MAIS	7=Unk. sev.
Seat Position	Front right side

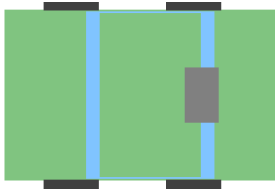
AIS Level	Injury Description	Contacts
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Occupant: 1999-48-112-4-3



Fire Information

Fire Occurrence	No data
Fire Origin	No data
Location of Fuel Leakage	No data
Type of Fuel Tank	No data
Fuel Tank Location	No data
Fuel Cap Location	No data
Fuel Tank Damage	No data
Fuel Type	No data



Crash Severity

Nr. Quarter Turns	No rollover
Impact Speed	< 0.5KMPH
Total, Longitudal, and Lateral δV	< 0.5 KMPH < 0.5 KMPH < 0.5 KMPH
Est. δV with sequence number	DELTA V CODED 0
CDC	No data No data No data No data
Damage (C1-C6)	No data No data No data No data
Crush (L and D)	No data No data
Object Contacted 1	No data
Object Contacted 2	No data

NASS Weighting Factor

Weighting factor	522.03008303
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Rollover Characteristics

Number of Events	4
Rollover Initiation Type	No rollover
Location of Rollover Initiation	No rollover
Rollover Initiation Object	No rollover
Contacted	
Location on Vehicle where Principal Tripping Force was Applied	No rollover
Direction of Initial Roll	No rollover

Pre-Crash Environment

Traffic Flow	DVDED/NO BARRIER
Number of Travel Lanes	TWO
Roadway Alignment	STRAIGHT
Roadway Profile	LEVEL
Roadway Surface Type	ASPHALT
Roadway Surface Condition	DRY
Light Conditions	DARK
Atmospheric Conditions	No ADVERSE COND
Relation to Intersection	NONINTER/NONJUNC
Traffic Control Device	
Police Reported Alcohol Presence	No ALCOHOL
Alcohol Test (< 95 indicates BAC 0.xx)	0

Vehicle Factors

Make-Model	Oldsmobile 24
Year	1999
Class	PASSENGER CAR
Body Type	4-DR SEDAN/HDTOP
Weight	137

Pre-Crash Driver Data

Accident Type	98
Pre-event Movement	GOING STRAIGHT
Critical Pre-crash Event	OPP DIR-OVR LEFT
Attempted Avoidance Maneuver	No DRIVER
Pre-impact Stability	No DRIVER
Pre-impact Location	STAYED IN LANE

PASSENGER Factors

Age	4	Height	0	Weight	0
Gender			MALE		
Ejection			No EJECTION		
Ejection Area			No EJECTION		
Entrapment			Not ENTRAPPED		

Restraint Factors

Restrain		None used/avail
AOPS		YES-RES DET
Airbag Deployment		Not EQUIP/AVAIL
Airbag Deployment - 1 st Seat		BAG DEP DET UNK
Airbag Deployment - Oth Seat		Not EQUIP W/ OTH

Injuries

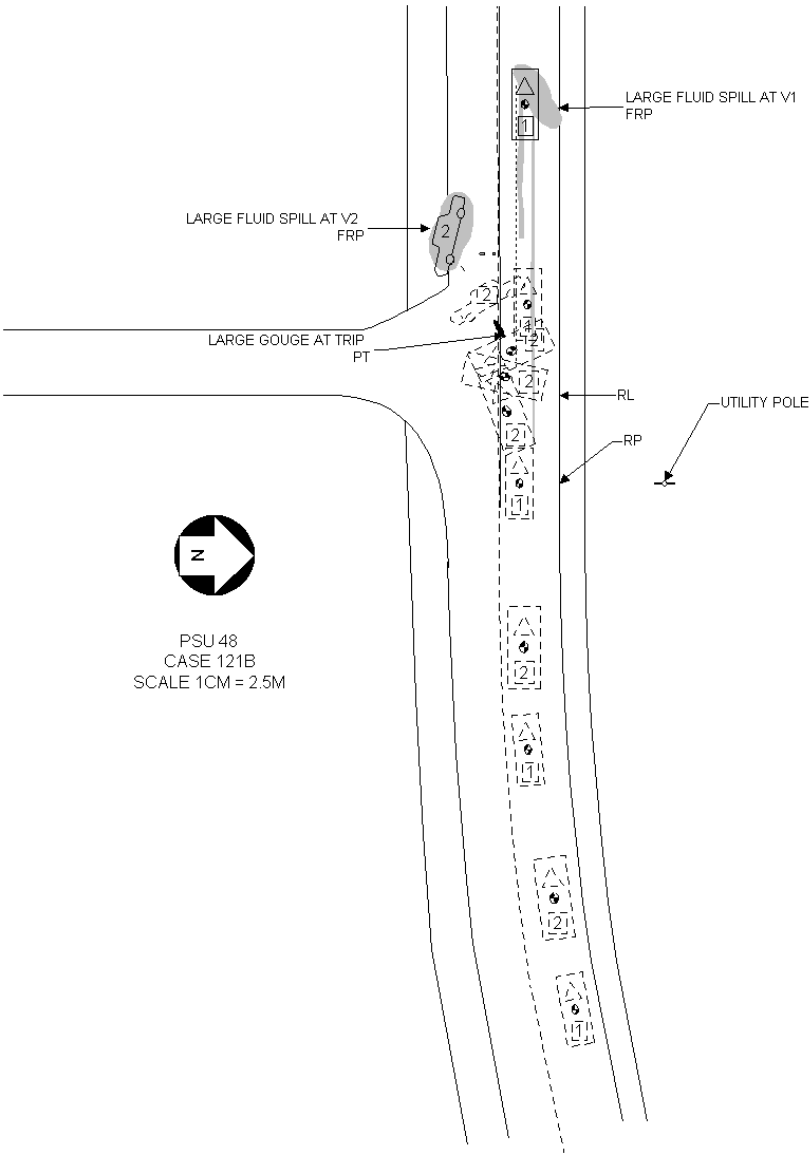
Occupant	1999-48-112-4-3
MAIS	7=Unk. sev.
Seat Position	Second right

AIS Level	Injury Description	Contacts
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45 Case 1999-48-121

Summary:

V1 WAS TRAVELING WEST ON A TWO LANE, DRY BITUMINOUS ROADWAY. V2 WAS ALSO WESTBOUND ON THE SAME ROADWAY IN FRONT OF V1. AS V2 BEGAN A LEFT TURN INTO A PRIVATE DRIVE, THE FRONT OF V1 IMPACTED AND UNDERRODE THE REAR OF V2. V1 CONTINUED WEST TO FRP IN THE ORIGINAL LANE OF TRAVEL. V2 SPUN CCW AND THE FORCE OF V1 UNDERRIDING V2 CAUSED IT TO OVERTURN ON IT'S RIGHT SIDE. V2 THEN SLID TO FRP JUST OFF THE SOUTH ROAD EDGE, WITH FRP FACING EAST ON IT'S RIGHT SIDE. THE UNRESTRAINED DRIVER OF V1 WAS TRANSPORTED TO A LOCAL TRAUMA CENTER AND EXPIRED IN EMERGENCY SURGERY. THE RESTRAINED DRIVER OF V2 WAS NOT REPORTED INJURED. BOTH VEHICLES WERE TOWED DUE TO DISABLING DAMAGE.



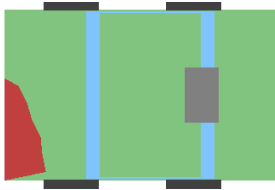
Vehicle	Body type	Make	Model	Year	Occ.#	Age	Occupant's sex	Maximum known occupant ais
1	4-DR SEDAN/HDTOP	Toyota	Camry	1985	1	23	MALE	6=Maximum
2	VAN BASE MTRHOME	Chevrolet	G-series Van	1984	1	68	MALE	1=Minor

Occupant: 1999-48-121-1-1



Fire Information

Fire Occurrence	No fire
Fire Origin	No fire
Location of Fuel Leakage	No fuel tank
Type of Fuel Tank	No fuel Tank
Fuel Tank Location	No fuel tank
Fuel Cap Location	Right side, behind rear axle
Fuel Tank Damage	No fuel tank
Fuel Type	Gasoline



Crash Severity

Nr. Quarter Turns	No rollover
Impact Speed	< 0.5KMPH
Total, Longitudal, and Lateral δV	< 0.5 KMPH < 0.5 KMPH < 0.5 KMPH
Est. δV with sequence number	DELTA V CODED 1
CDC	12 F D E W 4
Damage (C1-C6)	60 55 53 40 33 21
Crush (L and D)	150 0
Object Contacted 1	VEHICLE NO. 2
Object Contacted 2	0

NASS Weighting Factor

Weighting factor	430.31647857
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Rollover Characteristics

Number of Events	2
Rollover Initiation Type	No rollover
Location of Rollover Initiation	No rollover
Rollover Initiation Object Contacted	No rollover
Location on Vehicle where Principal Tripping Force was Applied	No rollover
Direction of Initial Roll	No rollover

Pre-Crash Environment

Traffic Flow	Not DIVIDED
Number of Travel Lanes	TWO
Roadway Alignment	CURVE RIGHT
Roadway Profile	UPHILL GRADE
Roadway Surface Type	ASPHALT
Roadway Surface Condition	DRY
Light Conditions	DAYLIGHT
Atmospheric Conditions	No ADVERSE COND
Relation to Intersection	DRIVEWAY RELATED
Traffic Control Device	
Police Reported Alcohol Presence	No ALCOHOL
Alcohol Test (< 95 indicates BAC 0.xx)	0

Vehicle Factors

Make-Model	Toyota Camry
Year	1985
Class	PASSENGER CAR
Body Type	4-DR SEDAN/HDTOP
Weight	106

Pre-Crash Driver Data

Accident Type	28
Pre-event Movement	NEGOTIATE CURVE
Critical Pre-crash Event	Same DIR-DECELER
Attempted Avoidance Manuever	No DRIVER
Pre-impact Stability	No DRIVER
Pre-impact Location	STAYED IN LANE

DRIVER Factors

Age	23	Height	183	Weight	68
Gender					MALE
Ejection					No EJECTION
Ejection Area					No EJECTION
Entrapment					ENTRAPPED

Restraint Factors

Restrain	None used/avail
AOPS	NO
Airbag Deployment	Not EQUIP/AVAIL
Airbag Deployment - 1 st Seat	Not EQUIP/AVAIL
Airbag Deployment - Oth Seat	Not EQUIP W/ OTH

Injuries

Occupant	1999-48-121-1-1
MAIS	6=Maximum
Seat Position	Front left side

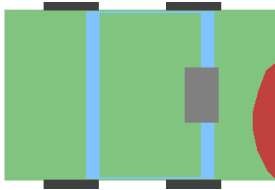
AIS Level	Injury Description	Contacts
4=Severe	Splenic laceration, major (segmental injury, no hilar injury	Steering rim
6=Maximum	Thoracic aortic laceration, and extra-mediastinal bleeding	Steering comb
2=Moderate	Hepatic laceration, minor (<3cms deep, EBL<202=Moderate	2-3 rib fractures with stable chest
Steering comb		
1=Minor	Scalp laceration, minor	Steering comb
1=Minor	Facial skin laceration, minor	Steering comb
1=Minor	297602	Steering comb
1=Minor	Abdominal skin contusion	Steering rim
1=Minor	Leg skin abrasion	Left apnel
7=Unk. sev.	Head injury, closed, NFS	Steering comb

Occupant: 1999-48-121-2-1



Fire Information

Fire Occurrence	No fire
Fire Origin	No fire
Location of Fuel Leakage	Tank
Type of Fuel Tank	Metallic
Fuel Tank Location	Behind rear axle, centered
Fuel Cap Location	Left side, behind rear axle
Fuel Tank Damage	Other damage
Fuel Type	Gasoline



Pre-Crash Environment

Traffic Flow	Not DIVIDED
Number of Travel Lanes	TWO
Roadway Alignment	CURVE RIGHT
Roadway Profile	UPHILL GRADE
Roadway Surface Type	ASPHALT
Roadway Surface Condition	DRY
Light Conditions	DAYLIGHT
Atmospheric Conditions	No ADVERSE COND
Relation to Intersection	DRIVEWAY RELATED
Traffic Control Device	
Police Reported Alcohol Presence	No ALCOHOL
Alcohol Test (< 95 indicates BAC 0.xx)	0

Crash Severity

Nr. Quarter Turns	1 QUARTER TURN
Impact Speed	< 0.5KMPH
Total, Longitudal, and Lateral δV	< 0.5 KMPH < 0.5 KMPH < 0.5 KMPH
Est. δV with sequence number	MODERATE 1
CDC	7 B D E W 1
Damage (C1-C6)	13 28 34 34 27 16
Crush (L and D)	175 0
Object Contacted 1	VEHICLE NO. 1
Object Contacted 2	ROLLOVER-OVERTURN

NASS Weighting Factor

Weighting factor	430.31647857
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Rollover Characteristics

Number of Events	2
Rollover Initiation Type	COLLISION W/VEH
Location of Rollover Initiation	ON ROADWAY
Rollover Initiation Object Contacted	VEHICLE NO. 1
Location on Vehicle where Principal Tripping Force was Applied	END PLANE
Direction of Initial Roll	ROLL RIGHT

Vehicle Factors

Make-Model	Chevrolet G-series Van
Year	1984
Class	TRUCK
Body Type	VAN BASE MTRHOME
Weight	0

Pre-Crash Driver Data

Accident Type	30
Pre-event Movement	TURNING LEFT
Critical Pre-crash Event	DECELERATING
Attempted Avoidance Manuever	No AVOIDANCE
Pre-impact Stability	TRACKING
Pre-impact Location	STAYED IN LANE

DRIVER Factors

Age	68	Height	178	Weight	91
Gender					MALE
Ejection					No EJECTION
Ejection Area					No EJECTION
Entrapment					Not ENTRAPPED

Restraint Factors

Restrain	Lap and shoulder
AOPS	NO
Airbag Deployment	Not EQUIP/AVAIL
Airbag Deployment - 1 st Seat	Not EQUIP/AVAIL
Airbag Deployment - Oth Seat	Not EQUIP W/ OTH

Injuries

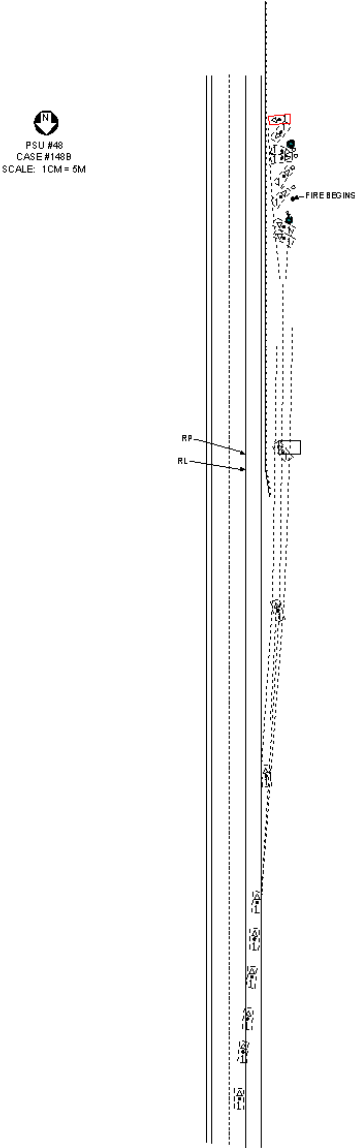
Occupant	1999-48-121-2-1
MAIS	1=Minor
Seat Position	Front left side

AIS Level	Injury Description	Contacts
1=Minor	Leg skin contusion (hematoma)	Left apnel
1=Minor	Leg skin abrasion	Left apnel

46 Case 1999-48-148

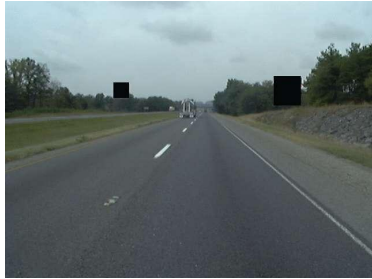
Summary:

V1 WAS TRAVELING SOUTH IN THE RT LANE OF THE TWO SOUTHBOUND LANES OF A 4-LANED DIVIDED (W/O POSITIVE BARRIER) BITUMINOUS, DRY ROADWAY. V1 LEFT THE ROAD ALONG THE RT RD EDGE AND CONTINUED PARALLEL TO THE ROAD ALONG THE RD EDGE. V1 BEGAN TO YAW WITH RT SIDE LEADING. THE RF AND RR WHEELS IMPACTED AN EXIT SIGN CONCRETE BASE. THE RT SIDE THEN IMPACTED THE EXIT SIGN POSTS. V1 CONTINUES ALONG THE RD SIDE WITH THE RT SIDE LEADING. THE RT SIDE IMPACTED A LARGE TREE AND V1 BEGAN TO ROTATE CW. V1 IMPACTED SEVERAL SMALL TREES AND THE LEFT SIDE IMPACTED A LARGE TREE AND V1 CAME TO REST FACING EAST. THE UNRESTRAINED DRIVER AND UNRESTRAINED RF PASSENGER WERE TRANSPORTED AND RELEASED WITH "A" INJURIES. THE UNRESTRAINED CTR BKSEAT PASSENGER WAS PARTIALLY EJECTED OUT OF THE BKLIGHT AND CAME TO REST IN THE TRUNK. THE VEHICLE CAUGHT FIRE AFTER IMPACT AND (ALONG WITH OCC #3) WAS TOTALLY CONSUMED BY FIRE. OCCUPANT #3 WAS KILLED. V1 WAS TOWED DUE TO DISABLING DAMAGE.



Vehicle	Body type	Make	Model	Year	Occ.#	Age	Occupant's sex	Maximum known occupant ais
1	4-DR SEDAN/HDTOP	Chevrolet	Caprice/Impala	1986	1	20	MALE	2=Moderate
1	4-DR SEDAN/HDTOP	Chevrolet	Caprice/Impala	1986	2	20	MALE	2=Moderate
1	4-DR SEDAN/HDTOP	Chevrolet	Caprice/Impala	1986	3	22	MALE	6=Maximum

Occupant: 1999-48-148-1-1



Fire Information

Fire Occurrence	Major fire
Fire Origin	Fuel tank
Location of Fuel Leakage	Tank
Type of Fuel Tank	Metallic
Fuel Tank Location	Behind rear axle, left side
Fuel Cap Location	On back plane
Fuel Tank Damage	Deform+seam fail
Fuel Type	Gasoline



Crash Severity

Nr. Quarter Turns	No rollover
Impact Speed	< 0.5KMPH
Total, Longitudal, and Lateral δV	< 0.5 KMPH < 0.5 KMPH <
Est. δV with sequence number	0.5 KMPH
CDC	SEVERE 2
Damage (C1-C6)	63 R Z E W 0
Crush (L and D)	0 0 0 0 0 0
Object Contacted 1	0 0
Object Contacted 2	LARGE TREE
	LARGE TREE

NASS Weighting Factor

Weighting factor	161.06667944
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Rollover Characteristics

Number of Events	5
Rollover Initiation Type	No rollover
Location of Rollover Initiation	No rollover
Rollover Initiation Object Contacted	No rollover
Location on Vehicle where Principal Tripping Force was Applied	No rollover
Direction of Initial Roll	No rollover

Pre-Crash Environment

Traffic Flow	DVDED/NO BARRIER
Number of Travel Lanes	TWO
Roadway Alignment	STRAIGHT
Roadway Profile	LEVEL
Roadway Surface Type	ASPHALT
Roadway Surface Condition	DRY
Light Conditions	DARK
Atmospheric Conditions	No ADVERSE COND
Relation to Intersection	NONINTER/NONJUNC
Traffic Control Device	
Police Reported Alcohol Presence	No ALCOHOL
Alcohol Test (< 95 indicates BAC 0.xx)	7

Vehicle Factors

Make-Model	Chevrolet Caprice/Impala
Year	1986
Class	PASSENGER CAR
Body Type	4-DR SEDAN/HDTOP
Weight	160

Pre-Crash Driver Data

Accident Type	1
Pre-event Movement	GOING STRAIGHT
Critical Pre-crash Event	OFF EDGE-RIGHT
Attempted Avoidance Manuever	No DRIVER
Pre-impact Stability	No DRIVER
Pre-impact Location	DEPARTED ROADWAY

DRIVER Factors

Age	20	Height	0	Weight	0
Gender					MALE
Ejection					No EJECTION
Ejection Area					No EJECTION
Entrapment					Not ENTRAPPED

Restraint Factors

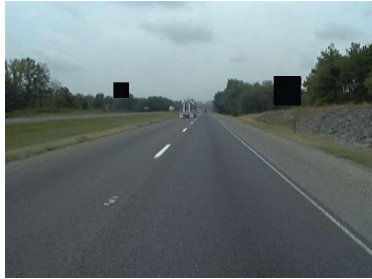
Restrain	None used/avail
AOPS	NO
Airbag Deployment	Not EQUIP/AVAIL
Airbag Deployment - 1 st Seat	Not EQUIP/AVAIL
Airbag Deployment - Oth Seat	Not EQUIP W/ OTH

Injuries

Occupant	1999-48-148-1-1
MAIS	2=Moderate
Seat Position	Front left side

AIS Level	Injury Description	Contacts
2=Moderate	Awake on admission, amnesia	Unknown SOURCE
1=Minor	Facial skin laceration, minor	Unknown SOURCE
1=Minor	Facial skin laceration, minor	Unknown SOURCE

Occupant: 1999-48-148-1-2



Fire Information

Fire Occurrence	Major fire
Fire Origin	Fuel tank
Location of Fuel Leakage	Tank
Type of Fuel Tank	Metallic
Fuel Tank Location	Behind rear axle, left side
Fuel Cap Location	On back plane
Fuel Tank Damage	Deform+seam fail
Fuel Type	Gasoline



Crash Severity

Nr. Quarter Turns	No rollover
Impact Speed	< 0.5KMPH
Total, Longitudal, and Lateral δV	< 0.5 KMPH < 0.5 KMPH < 0.5 KMPH
Est. δV with sequence number	0.5 KMPH
CDC	SEVERE 2
Damage (C1-C6)	63 R Z E W 0
Crush (L and D)	0 0 0 0 0 0
Object Contacted 1	0 0
Object Contacted 2	LARGE TREE
	LARGE TREE

NASS Weighting Factor

Weighting factor	161.06667944
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Rollover Characteristics

Number of Events	5
Rollover Initiation Type	No rollover
Location of Rollover Initiation	No rollover
Rollover Initiation Object Contacted	No rollover
Location on Vehicle where Principal Tripping Force was Applied	No rollover
Direction of Initial Roll	No rollover

Pre-Crash Environment

Traffic Flow	DVDED/NO BARRIER
Number of Travel Lanes	TWO
Roadway Alignment	STRAIGHT
Roadway Profile	LEVEL
Roadway Surface Type	ASPHALT
Roadway Surface Condition	DRY
Light Conditions	DARK
Atmospheric Conditions	No ADVERSE COND
Relation to Intersection	NONINTER/NONJUNC
Traffic Control Device	
Police Reported Alcohol Presence	No ALCOHOL
Alcohol Test (< 95 indicates BAC 0.xx)	7

Vehicle Factors

Make-Model	Chevrolet Caprice/Impala
Year	1986
Class	PASSENGER CAR
Body Type	4-DR SEDAN/HDTOP
Weight	160

Pre-Crash Driver Data

Accident Type	1
Pre-event Movement	GOING STRAIGHT
Critical Pre-crash Event	OFF EDGE-RIGHT
Attempted Avoidance Manuever	No DRIVER
Pre-impact Stability	No DRIVER
Pre-impact Location	DEPARTED ROADWAY

PASSENGER Factors

Age	20	Height	0	Weight	0
Gender					MALE
Ejection					No EJECTION
Ejection Area					No EJECTION
Entrapment					Not ENTRAPPED

Restraint Factors

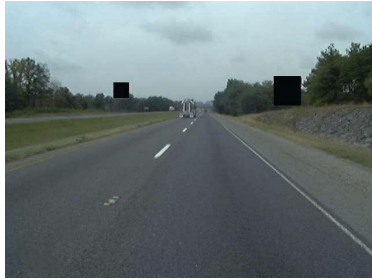
Restrain	None used/avail
AOPS	NO
Airbag Deployment	Not EQUIP/AVAIL
Airbag Deployment - 1 st Seat	Not EQUIP/AVAIL
Airbag Deployment - Oth Seat	Not EQUIP W/ OTH

Injuries

Occupant	1999-48-148-1-2
MAIS	2=Moderate
Seat Position	Front right side

AIS Level	Injury Description	Contacts
2=Moderate	Awake on admission, amnesia	Unknown SOURCE
1=Minor	Upper extremity skin laceration, minor	Unknown SOURCE

Occupant: 1999-48-148-1-3



Fire Information

Fire Occurrence	Major fire
Fire Origin	Fuel tank
Location of Fuel Leakage	Tank
Type of Fuel Tank	Metallic
Fuel Tank Location	Behind rear axle, left side
Fuel Cap Location	On back plane
Fuel Tank Damage	Deform+seam fail
Fuel Type	Gasoline



Crash Severity

Nr. Quarter Turns	No rollover
Impact Speed	< 0.5KMPH
Total, Longitudal, and Lateral δV	< 0.5 KMPH < 0.5 KMPH < 0.5 KMPH
Est. δV with sequence number	0.5 KMPH
CDC	SEVERE 2
Damage (C1-C6)	63 R Z E W 0
Crush (L and D)	0 0 0 0 0 0
Object Contacted 1	0 0
Object Contacted 2	LARGE TREE
	LARGE TREE

NASS Weighting Factor

Weighting factor	161.06667944
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Rollover Characteristics

Number of Events	5
Rollover Initiation Type	No rollover
Location of Rollover Initiation	No rollover
Rollover Initiation Object Contacted	No rollover
Location on Vehicle where Principal Tripping Force was Applied	No rollover
Direction of Initial Roll	No rollover

Pre-Crash Environment

Traffic Flow	DVDED/NO BARRIER
Number of Travel Lanes	TWO
Roadway Alignment	STRAIGHT
Roadway Profile	LEVEL
Roadway Surface Type	ASPHALT
Roadway Surface Condition	DRY
Light Conditions	DARK
Atmospheric Conditions	No ADVERSE COND
Relation to Intersection	NONINTER/NONJUNC
Traffic Control Device	
Police Reported Alcohol Presence	No ALCOHOL
Alcohol Test (< 95 indicates BAC 0.xx)	7

Vehicle Factors

Make-Model	Chevrolet Caprice/Impala
Year	1986
Class	PASSENGER CAR
Body Type	4-DR SEDAN/HDTOP
Weight	160

Pre-Crash Driver Data

Accident Type	1
Pre-event Movement	GOING STRAIGHT
Critical Pre-crash Event	OFF EDGE-RIGHT
Attempted Avoidance Manuever	No DRIVER
Pre-impact Stability	No DRIVER
Pre-impact Location	DEPARTED ROADWAY

PASSENGER Factors

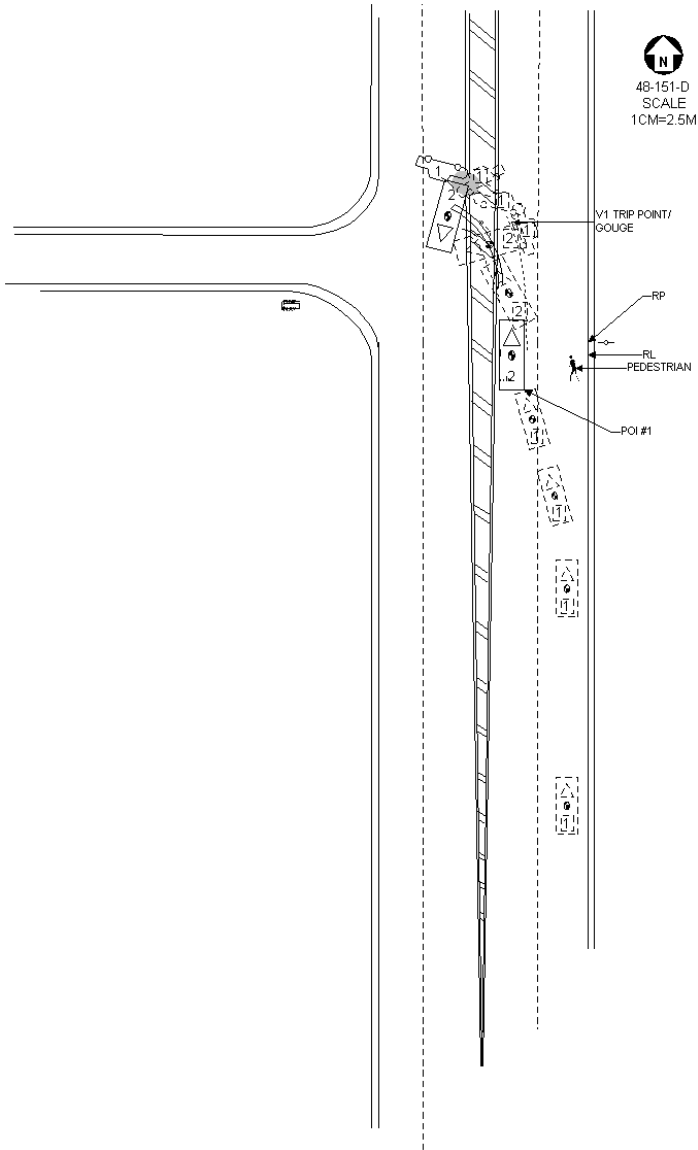
Age	22	Height	0	Weight	0
Gender					MALE
Ejection					PARTIAL EJECTION
Ejection Area					Rear
Entrapment					Not ENTRAPPED

Restraint Factors		AIS Level	Injury Description	Contacts
Restrain AOPS	None used/avail NO	6=Maximum	Burn, Inhalation	2nd in-jury, 3rd minor
Airbag Deployment	Not EQUIP/AVAIL			
Airbag Deployment - 1 st Seat	Not EQUIP/AVAIL			
Airbag Deployment - Oth Seat	Not EQUIP W/ OTH			
Injuries				
Occupant	1999-48-148-1-3	3=Serious	Skull fracture, vault, closed (simple, undisplaced)	Unknown SOURCE
MAIS	6=Maximum			
Seat Position	Second middle			
		5=Critical	Cerebral sub-dural hematoma, small (<50ccs), bi-lateral	Unknown SOURCE
		3=Serious	Cerebral sub-arachnoid hemorrhage	Unknown SOURCE
		4=Severe	Cerebral sub-dural, small (<30ccs)	Unknown SOURCE
		3=Serious	Cerebral contusions, multiple, bi-lateral,	Unknown SOURCE

47 Case 1999-48-151

Summary:

V1 WAS TRAVELING ON A 4 LANE, BITUMINOUS, DIVIDED W/O POSITIVE BARRIER ROAD, IN THE RIGHT LANE HEADED NORTH. V2 (FACING NORTH) WAS ON THE SAME ROADWAY AHEAD OF V1, STOPPED IN THE LEFT LANE WAITING TO TURN LEFT. SOME PEDESTRIANS STEPPED OUT IN FRONT OF V1. V1 SWERVED LEFT TO AVOID STRIKING THE PEDESTRIANS AND ENTERED THE LEFT LANE OF TRAVEL. V1'S FRONT IMPACTED THE REAR OF V2. AFTER IMPACT, V1 OVERTURNED ON IT'S RIGHT SIDE ONE QUARTER TURN AND SPUN CCW 180 DEGREES TO FRP IN THE LEFT SOUTHBOUND LANE. V2 SPUN APPROXIMATELY 170 DEGREES CCW TO FRP IN THE LEFT SOUTHBOUND LANE. THE UNRESTRAINED DRIVER OF V1 WAS NOT REPORTED INJURED. THE RESTRAINED DRIVER AND UNRESTRAINED FR PASSENGER OF V2 WERE TRANSPORTED AND RELEASED WITH "A" INJURIES. BOTH VEHICLES WERE TOWED DUE TO DISABLING DAMAGE.



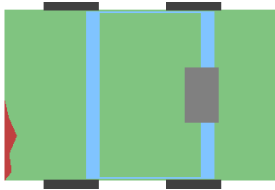
Vehicle	Body type	Make	Model	Year	Occ.#	Age	Occupant's sex	Maximum known occupant ais
1	COMPACT UTILITY	Isuzu	Trooper/Trooper II	1991	1	28	MALE	1=Minor
2	4-DR SEDAN/HDTOP	Mercury	Marquis/Monterey	1987	1	42	MALE	1=Minor
2	4-DR SEDAN/HDTOP	Mercury	Marquis/Monterey	1987	2	41	MALE	1=Minor

Occupant: 1999-48-151-1-1



Fire Information

Fire Occurrence	No fire
Fire Origin	No fire
Location of Fuel Leakage	No fuel leakage
Type of Fuel Tank	Metallic
Fuel Tank Location	Behind rear axle, centered
Fuel Cap Location	Right side, behind rear axle
Fuel Tank Damage	No damage
Fuel Type	Gasoline



Pre-Crash Environment

Traffic Flow	Not DIVIDED
Number of Travel Lanes	FOUR
Roadway Alignment	STRAIGHT
Roadway Profile	LEVEL
Roadway Surface Type	ASPHALT
Roadway Surface Condition	DRY
Light Conditions	DAYLIGHT
Atmospheric Conditions	No ADVERSE COND
Relation to Intersection	INTERSECTION REL
Traffic Control Device	
Police Reported Alcohol Presence	No ALCOHOL
Alcohol Test (< 95 indicates BAC 0.xx)	0

Crash Severity

Nr. Quarter Turns	1 QUARTER TURN
Impact Speed	998
Total, Longitudal, and Lateral δV	24 -24 4
Est. δV with sequence number	DELTA V CODED 1
CDC	12 F Y E W 1
Damage (C1-C6)	10 7 18 7 0 0
Crush (L and D)	156 -27
Object Contacted 1	VEHICLE NO. 2
Object Contacted 2	ROLLOVER-OVERTURN

NASS Weighting Factor

Weighting factor	2062.1442499
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Rollover Characteristics

Number of Events	2
Rollover Initiation Type	COLLISION W/VEH
Location of Rollover Initiation	ON ROADWAY
Rollover Initiation Object Contacted	VEHICLE NO. 2
Location on Vehicle where Principal Tripping Force was Applied	SIDE PLANE
Direction of Initial Roll	ROLL RIGHT

Vehicle Factors

Make-Model	Isuzu Trooper/Trooper II
Year	1991
Class	PASSENGER CAR
Body Type	COMPACT UTILITY
Weight	167

Pre-Crash Driver Data

Accident Type	20
Pre-event Movement	SUCES AVOID PREV
Critical Pre-crash Event	OFF EDGE-LEFT
Attempted Avoidance Manuever	BRAKE W/O LOCKUP
Pre-impact Stability	TRACKING
Pre-impact Location	Left TRAVEL LANE

DRIVER Factors

Age	28	Height	188	Weight	88
Gender					MALE
Ejection					No EJECTION
Ejection Area					No EJECTION
Entrapment					Not ENTRAPPED

Restraint Factors

Restrain	None used/avail
AOPS	NO
Airbag Deployment	Not EQUIP/AVAIL
Airbag Deployment - 1 st Seat	Not EQUIP/AVAIL
Airbag Deployment - Oth Seat	Not EQUIP W/ OTH

Injuries

Occupant	1999-48-151-1-1
MAIS	1=Minor
Seat Position	Front left side

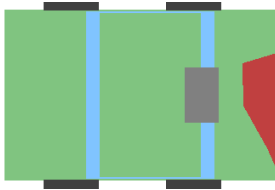
AIS Level	Injury Description	Contacts
1=Minor	Upper extremity skin abrasion	Flying glass
1=Minor	Upper extremity skin laceration, minor	Flying glass
1=Minor	Skin contusion (body region unknown)	Unknown SOURCE

Occupant: 1999-48-151-2-1



Fire Information

Fire Occurrence	No fire
Fire Origin	No fire
Location of Fuel Leakage	Tank
Type of Fuel Tank	Metallic
Fuel Tank Location	Forward of rear axle, left side
Fuel Cap Location	Left side, behind rear axle
Fuel Tank Damage	Deform+seam fail
Fuel Type	Gasoline



Pre-Crash Environment

Traffic Flow	Not DIVIDED
Number of Travel Lanes	FOUR
Roadway Alignment	STRAIGHT
Roadway Profile	LEVEL
Roadway Surface Type	ASPHALT
Roadway Surface Condition	DRY
Light Conditions	DAYLIGHT
Atmospheric Conditions	No ADVERSE COND
Relation to Intersection	INTERSECTION REL
Traffic Control Device	
Police Reported Alcohol Presence	No ALCOHOL
Alcohol Test (< 95 indicates BAC 0.xx)	0

Crash Severity

Nr. Quarter Turns	No rollover
Impact Speed	998
Total, Longitudal, and Lateral δV	23 20 -11
Est. δV with sequence number	DELTA V CODED 1
CDC	5 B D E W 4
Damage (C1-C6)	0 13 31 48 49 49
Crush (L and D)	188 0
Object Contacted 1	VEHICLE NO. 1
Object Contacted 2	0

NASS Weighting Factor

Weighting factor	2062.1442499
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Rollover Characteristics

Number of Events	2
Rollover Initiation Type	No rollover
Location of Rollover Initiation	No rollover
Rollover Initiation Object Contacted	No rollover
Location on Vehicle where Principal Tripping Force was Applied	No rollover
Direction of Initial Roll	No rollover

Vehicle Factors

Make-Model	Mercury Marquis/Monterey
Year	1987
Class	PASSENGER CAR
Body Type	4-DR SEDAN/HDTOP
Weight	172

Pre-Crash Driver Data

Accident Type	22
Pre-event Movement	STOPPED IN LANE
Critical Pre-crash Event	Same DIR-OV RGHT
Attempted Avoidance Manuever	No AVOIDANCE
Pre-impact Stability	TRACKING
Pre-impact Location	STAYED IN LANE

DRIVER Factors

Age	42	Height	185	Weight	98
Gender					MALE
Ejection					No EJECTION
Ejection Area					No EJECTION
Entrapment					Not ENTRAPPED

Restraint Factors

Restrain	Lap and shoulder
AOPS	NO
Airbag Deployment	Not EQUIP/AVAIL
Airbag Deployment - 1 st Seat	Not EQUIP/AVAIL
Airbag Deployment - Oth Seat	Not EQUIP W/ OTH

Injuries

Occupant	1999-48-151-2-1
MAIS	1=Minor
Seat Position	Front left side

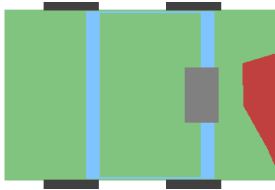
AIS Level	Injury Description	Contacts
1=Minor	Acute cervical spine strain without fracture or dislocation	Head restraint
1=Minor	Lumbar spine acute strain without fracture or dislocation	Seat, back
1=Minor	Upper extremity skin contusion	Seat, back

Occupant: 1999-48-151-2-2



Fire Information

Fire Occurrence	No fire
Fire Origin	No fire
Location of Fuel Leakage	Tank
Type of Fuel Tank	Metallic
Fuel Tank Location	Forward of rear axle, left side
Fuel Cap Location	Left side, behind rear axle
Fuel Tank Damage	Deform+seam fail
Fuel Type	Gasoline



Pre-Crash Environment

Traffic Flow	Not DIVIDED
Number of Travel Lanes	FOUR
Roadway Alignment	STRAIGHT
Roadway Profile	LEVEL
Roadway Surface Type	ASPHALT
Roadway Surface Condition	DRY
Light Conditions	DAYLIGHT
Atmospheric Conditions	No ADVERSE COND
Relation to Intersection	INTERSECTION REL
Traffic Control Device	
Police Reported Alcohol Presence	No ALCOHOL
Alcohol Test (< 95 indicates BAC 0.xx)	0

Crash Severity

Nr. Quarter Turns	No rollover
Impact Speed	998
Total, Longitudal, and Lateral δV	23 20 -11
Est. δV with sequence number	DELTA V CODED 1
CDC	5 B D E W 4
Damage (C1-C6)	0 13 31 48 49 49
Crush (L and D)	188 0
Object Contacted 1	VEHICLE NO. 1
Object Contacted 2	0

NASS Weighting Factor

Weighting factor	2062.1442499
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Rollover Characteristics

Number of Events	2
Rollover Initiation Type	No rollover
Location of Rollover Initiation	No rollover
Rollover Initiation Object Contacted	No rollover
Location on Vehicle where Principal Tripping Force was Applied	No rollover
Direction of Initial Roll	No rollover

Vehicle Factors

Make-Model	Mercury Marquis/Monterey
Year	1987
Class	PASSENGER CAR
Body Type	4-DR SEDAN/HDTOP
Weight	172

Pre-Crash Driver Data

Accident Type	22
Pre-event Movement	STOPPED IN LANE
Critical Pre-crash Event	Same DIR-OV RGHT
Attempted Avoidance Manuever	No AVOIDANCE
Pre-impact Stability	TRACKING
Pre-impact Location	STAYED IN LANE

PASSENGER Factors

Age	41	Height	185	Weight	86
Gender					MALE
Ejection					No EJECTION
Ejection Area					No EJECTION
Entrapment					Not ENTRAPPED

Restraint Factors

Restrain	None used/avail
AOPS	NO
Airbag Deployment	Not EQUIP/AVAIL
Airbag Deployment - 1 st Seat	Not EQUIP/AVAIL
Airbag Deployment - Oth Seat	Not EQUIP W/ OTH

Injuries

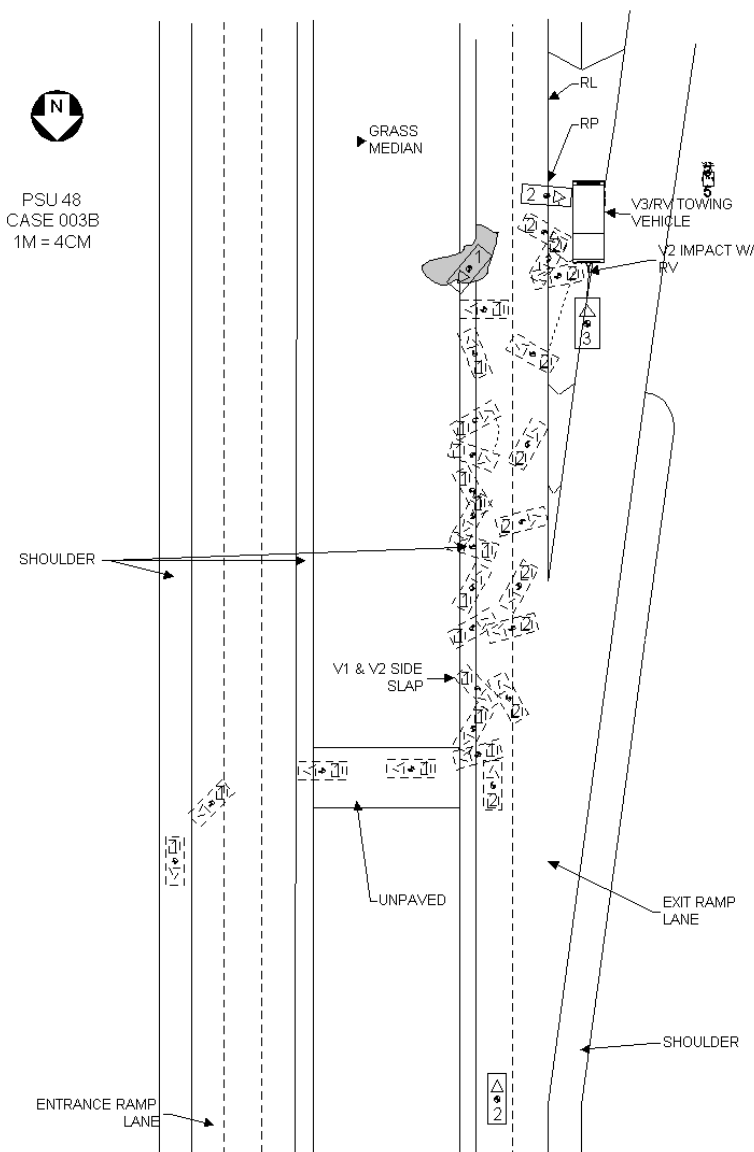
Occupant	1999-48-151-2-2
MAIS	1=Minor
Seat Position	Front right side

AIS Level	Injury Description	Contacts
1=Minor	Thoracic skin contusion	Right panel
1=Minor	Leg skin contusion (hematoma)	Right panel
1=Minor	Leg skin contusion (hematoma)	Right panel
1=Minor	Lumbar spine acute strain without fracture or dislocation	Seat, back

48 Case 1999-48-3

Summary:

V1 WAS BACKING ACROSS THE N/B LANES OF A DRY, DARK, 4 LANE BITUMINOUS ROADWAY. V1 BACKED ACROSS THE UNPAVED MEDIAN INTO THE S/B LANES. THE FRONT OF V2, WHICH WAS TRAVELING SOUTH, IMPACTED THE LEFT SIDE OF V1 CAUSING V1 TO ROTATE IN A COUNTER CLOCKWISE DIRECTION. THE LEFT SIDE OF V1 IMPACTED THE LEFT SIDE OF V2 IN A SIDE SLAP. BOTH VEHICLES CONTINUED TO ROTATE IN A COUNTER CLOCKWISE DIRECTION, WITH V1 COMING TO REST APPROXIMATLY 55 METERS SOUTH, PARTIALLY OFF THE ROAD TO THE LEFT SIDE FACING NE. AS V2 SPUN COUNTER CLOCKWISE, IT'S RIGHT SIDE STRUCK A LEGALLY PARKED NON CDS VEHICLE AND CAME TO REST PARTIALLY OFF THE RIGHT SIDE OF THE ROAD FACING WEST. V1'S UNSTRAINED DRIVER AND UNRESTRAINED RF PASSENGER WERE FULLY EJECTED. THE DRIVER OF V1 WAS TRANSPORTED TO A TRAUMA CENTER AND DIED SHORTLY AFTER ARRIVAL. THE FETUS WAS DELIVERED BY C-SECTION WITH NO HEARTBEAT OR PULSE AND PRONOUNCED DEAD. THE RF PASSENGER OF V1 WAS DEAD AT THE SCENE. V2'S RESTRAINED DRIVER RECEIVED INCAPACITATING INJURIES AND WAS TRANSPORTED TO A TRAUMA CENTER FROM THE SCENE. THE DRIVER AND RF PASSENGER AIR BAGS IN V2 WERE DEPLOYED. BOTH VEHICLES WERE TOWED DUE TO DISABLING DAMAGE. Of Note: the postmortum of driver and occupant showed blood levels of Carboxyhemoglobin to be 7-9



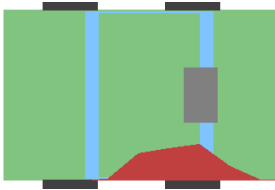
Vehicle	Body type	Make	Model	Year	Occ.#	Age	Occupant's sex	Maximum known occupant ais
1	4-DR SEDAN/HDTOP	Mercury	Comet	1974	1	37	FEM-PREG 3RD TRI	3=Serious
1	4-DR SEDAN/HDTOP	Mercury	Comet	1974	2	40	MALE	4=Severe
2	4-DR SEDAN/HDTOP	Pontiac	Grand Prix	1996	1	35	MALE	1=Minor

Occupant: 1999-48-3-1-1



Fire Information

Fire Occurence	No fire
Fire Origin	No fire
Location of Fuel Leakage	Tank
Type of Fuel Tank	Metallic
Fuel Tank Location	Behind rear axle, left side
Fuel Cap Location	On back plane
Fuel Tank Damage	Deform+seam fail
Fuel Type	Gasoline



Crash Severity

Nr. Quarter Turns	No rollover
Impact Speed	998
Total, Longitudal, and Lateral δV	39 < 0.5 KMPH 39
Est. δV with sequence number	DELTA V CODED 1
CDC	9 L Z E W 4
Damage (C1-C6)	2 39 47 53 20 0
Crush (L and D)	270 -110
Object Contacted 1	VEHICLE NO. 2
Object Contacted 2	VEHICLE NO. 2

NASS Weighting Factor

Weighting factor	452.59736923
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Rollover Characteristics

Number of Events	3
Rollover Initiation Type	No rollover
Location of Rollover Initiation	No rollover
Rollover Initiation Object	No rollover
Contacted	
Location on Vehicle where Principal Tripping Force was Applied	No rollover
Direction of Initial Roll	No rollover

Pre-Crash Environment

Traffic Flow	DVDED/NO BARRIER
Number of Travel Lanes	TWO
Roadway Alignment	STRAIGHT
Roadway Profile	LEVEL
Roadway Surface Type	ASPHALT
Roadway Surface Condition	DRY
Light Conditions	DARK
Atmospheric Conditions	No ADVERSE COND
Relation to Intersection	NONINTER/NONJUNC
Traffic Control Device	
Police Reported Alcohol Presence	No ALCOHOL
Alcohol Test (< 95 indicates BAC 0.xx)	0

Vehicle Factors

Make-Model	Mercury Comet
Year	1974
Class	PASSENGER CAR
Body Type	4-DR SEDAN/HDTOP
Weight	143

Pre-Crash Driver Data

Accident Type	98
Pre-event Movement	BACKING UP
Critical Pre-crash Event	OVER LINE-RIGHT
Attempted Avoidance Manuever	No DRIVER
Pre-impact Stability	No DRIVER
Pre-impact Location	ENTERED ROADWAY

DRIVER Factors

Age	37	Height	158	Weight	68
Gender					FEM-PREG 3RD TRI
Ejection					COMPLETE EJECT
Ejection Area					Left FRONT
Entrapment					Not ENTRAPPED

Restraint Factors

Restrain	None used/avail
AOPS	NO
Airbag Deployment	Not EQUIP/AVAIL
Airbag Deployment - 1 st Seat	Not EQUIP/AVAIL
Airbag Deployment - Oth Seat	Not EQUIP W/ OTH

Injuries

Occupant	1999-48-3-1-1
MAIS	3=Serious
Seat Position	Front left side

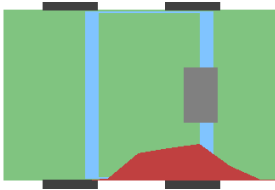
AIS Level	Injury Description	Contacts
2=Moderate	Awake on admission, prior unconscious, length NFS	Unknown SOURCE
3=Serious	2-3 rib fractures with stable chest and hemo-/pneumothorax	Unknown SOURCE
2=Moderate	Cervical fracture without cord injury +/- dislocation NFS	Unknown SOURCE
3=Serious	Diaphragm laceration or rupture	Unknown SOURCE
1=Minor	Scalp contusion	Unknown SOURCE
1=Minor	Scalp abrasion	Unknown SOURCE
1=Minor	Scalp abrasion	Unknown SOURCE
1=Minor	Facial skin laceration, minor	Unknown SOURCE
1=Minor	Facial skin abrasion	Unknown SOURCE
1=Minor	Abdominal skin contusion	Unknown SOURCE
1=Minor	Abdominal skin abrasion	Unknown SOURCE
1=Minor	Upper extremity skin abrasion	Unknown SOURCE
1=Minor	Leg skin abrasion	Unknown SOURCE

Occupant: 1999-48-3-1-2



Fire Information

Fire Occurence	No fire
Fire Origin	No fire
Location of Fuel Leakage	Tank
Type of Fuel Tank	Metallic
Fuel Tank Location	Behind rear axle, left side
Fuel Cap Location	On back plane
Fuel Tank Damage	Deform+seam fail
Fuel Type	Gasoline



Pre-Crash Environment

Traffic Flow	DVDED/NO BARRIER
Number of Travel Lanes	TWO
Roadway Alignment	STRAIGHT
Roadway Profile	LEVEL
Roadway Surface Type	ASPHALT
Roadway Surface Condition	DRY
Light Conditions	DARK
Atmospheric Conditions	No ADVERSE COND
Relation to Intersection	NONINTER/NONJUNC
Traffic Control Device	
Police Reported Alcohol Presence	No ALCOHOL
Alcohol Test (< 95 indicates BAC 0.xx)	0

Crash Severity

Nr. Quarter Turns	No rollover
Impact Speed	998
Total, Longitudal, and Lateral δV	39 < 0.5 KMPH 39
Est. δV with sequence number	DELTA V CODED 1
CDC	9 L Z E W 4
Damage (C1-C6)	2 39 47 53 20 0
Crush (L and D)	270 -110
Object Contacted 1	VEHICLE NO. 2
Object Contacted 2	VEHICLE NO. 2

NASS Weighting Factor

Weighting factor	452.59736923
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Rollover Characteristics

Number of Events	3
Rollover Initiation Type	No rollover
Location of Rollover Initiation	No rollover
Rollover Initiation Object Contacted	No rollover
Location on Vehicle where Principal Tripping Force was Applied	No rollover
Direction of Initial Roll	No rollover

Vehicle Factors

Make-Model	Mercury Comet
Year	1974
Class	PASSENGER CAR
Body Type	4-DR SEDAN/HDTOP
Weight	143

Pre-Crash Driver Data

Accident Type	98
Pre-event Movement	BACKING UP
Critical Pre-crash Event	OVER LINE-RIGHT
Attempted Avoidance Manuever	No DRIVER
Pre-impact Stability	No DRIVER
Pre-impact Location	ENTERED ROADWAY

PASSENGER Factors

Age	40	Height	185	Weight	86
Gender			MALE		
Ejection			COMPLETE EJECT		
Ejection Area			Left FRONT		
Entrapment			Not ENTRAPPED		

Restraint Factors

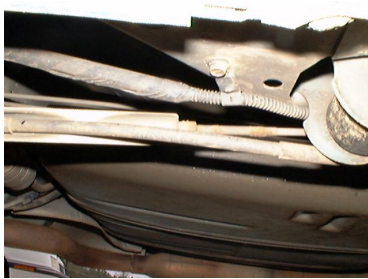
Restrain	None used/avail
AOPS	NO
Airbag Deployment	Not EQUIP/AVAIL
Airbag Deployment - 1 st Seat	Not EQUIP/AVAIL
Airbag Deployment - Oth Seat	Not EQUIP W/ OTH

Injuries

Occupant	1999-48-3-1-2
MAIS	4=Severe
Seat Position	Front right side

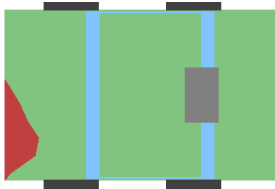
AIS Level	Injury Description	Contacts
2=Moderate	Humeral fracture, closed	Unknown SOURCE
2=Moderate	Cervical fracture without cord injury +/- dislocation NFS	Unknown SOURCE
7=Unk. sev.	Abdominal injury, blunt	Unknown SOURCE
1=Minor	Facial skin abrasion	Unknown SOURCE
1=Minor	Facial skin laceration, minor	Unknown SOURCE
4=Severe	>3 rib fxs on one side & <3 other side & hemo-/pneumothorax	Unknown SOURCE
1=Minor	Thoracic skin contusion	Unknown SOURCE
1=Minor	Scalp laceration, minor	Unknown SOURCE
1=Minor	690202	Unknown SOURCE
1=Minor	Scalp laceration, minor	Unknown SOURCE
1=Minor	Abdominal skin abrasion	Unknown SOURCE
1=Minor	Leg skin abrasion	Unknown SOURCE
1=Minor	Upper extremity skin abrasion	Unknown SOURCE

Occupant: 1999-48-3-2-1



Fire Information

Fire Occurrence	No fire
Fire Origin	No fire
Location of Fuel Leakage	No fuel leakage
Type of Fuel Tank	Metallic
Fuel Tank Location	Forward of rear axle, centered
Fuel Cap Location	Left side, behind rear axle
Fuel Tank Damage	No damage
Fuel Type	Gasoline



Pre-Crash Environment

Traffic Flow	DVDED/NO BARRIER
Number of Travel Lanes	TWO
Roadway Alignment	STRAIGHT
Roadway Profile	UPHILL GRADE
Roadway Surface Type	ASPHALT
Roadway Surface Condition	DRY
Light Conditions	DARK
Atmospheric Conditions	No ADVERSE COND
Relation to Intersection	NONINTER/NONJUNC
Traffic Control Device	
Police Reported Alcohol Presence	No ALCOHOL
Alcohol Test (< 95 indicates BAC 0.xx)	0

Vehicle Factors

Make-Model	Pontiac Grand Prix
Year	1996
Class	PASSENGER CAR
Body Type	4-DR SEDAN/HDTOP
Weight	150

Crash Severity

Nr. Quarter Turns	No rollover
Impact Speed	998
Total, Longitudal, and Lateral δV	39 -38 7
Est. δV with sequence number	DELTA V CODED 1
CDC	12 F D E W 2
Damage (C1-C6)	11 45 50 34 23 8
Crush (L and D)	149 0
Object Contacted 1	VEHICLE NO. 1
Object Contacted 2	Not IN TRAN LGTVEH

Pre-Crash Driver Data

Accident Type	98
Pre-event Movement	GOING STRAIGHT
Critical Pre-crash Event	XING ST-UNK PATH
Attempted Avoidance Manuever	No DRIVER
Pre-impact Stability	No DRIVER
Pre-impact Location	STAYED IN LANE

NASS Weighting Factor

Weighting factor	452.59736923
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DRIVER Factors

Age	35	Height	183	Weight	94
Gender			MALE		
Ejection			No EJECTION		
Ejection Area			No EJECTION		
Entrapment			Not ENTRAPPED		

Rollover Characteristics

Number of Events	3
Rollover Initiation Type	No rollover
Location of Rollover Initiation	No rollover
Rollover Initiation Object Contacted	No rollover
Location on Vehicle where Principal Tripping Force was Applied	No rollover
Direction of Initial Roll	No rollover

Restraint Factors

Restrain	Lap and shoulder
AOPS	YES-RES DET
Airbag Deployment	BAG DEPLOYED
Airbag Deployment - 1 st Seat	DR
PAS BAG DEPLY	
Airbag Deployment - Oth Seat	Not EQUIP W/ OTH

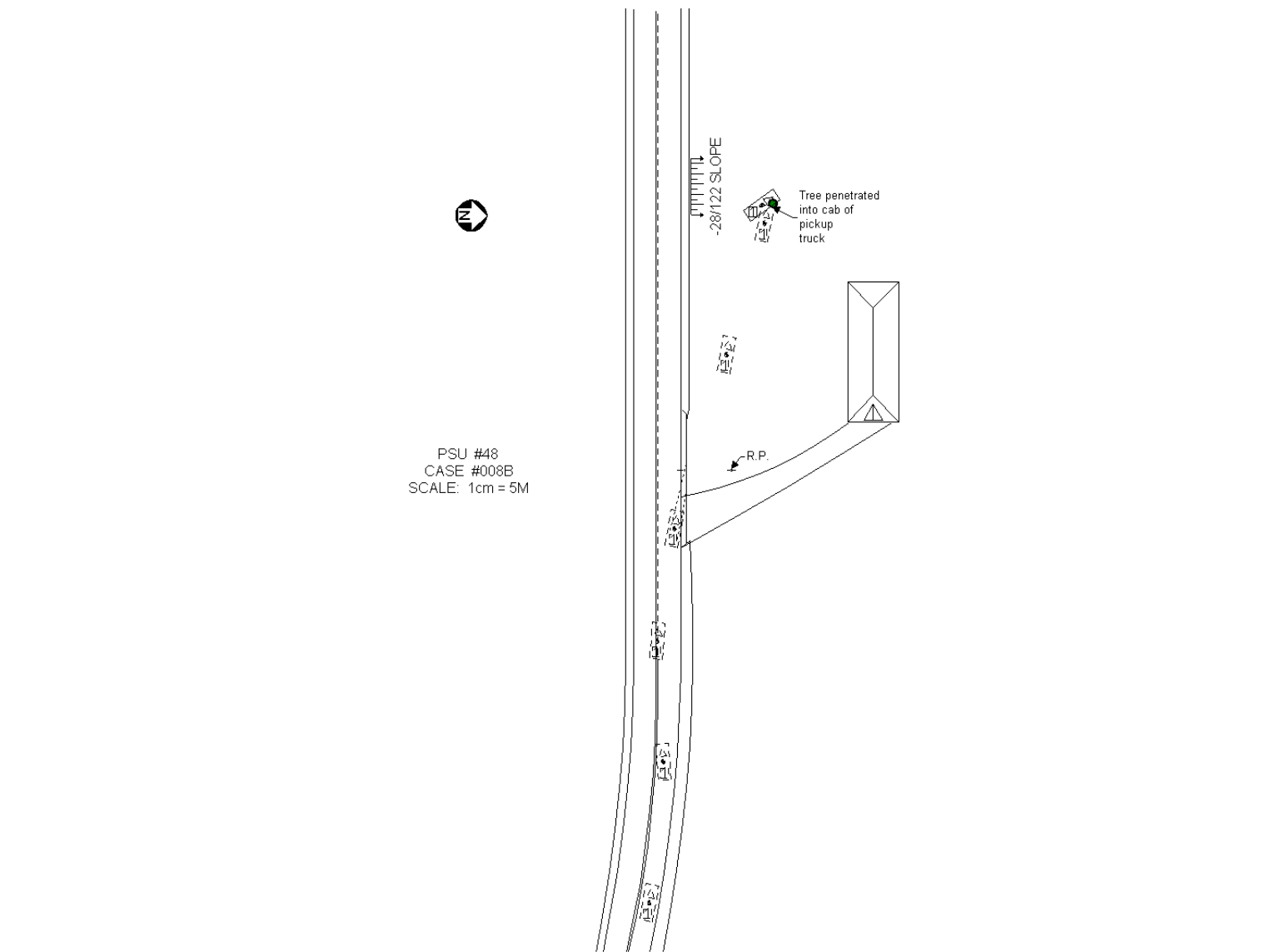
Injuries

Occupant	1999-48-3-2-1
MAIS	1=Minor
Seat Position	Front left side

AIS Level	Injury Description	Contacts
1=Minor	Thoracic skin contusion	Air bag-DR side
1=Minor	Abdominal skin contusion	Belt webb/buckle

49 Case 1999-48-8

Summary:
V1 WAS TRAVELING WEST ON A TWO-LANE UNDIVIDED COUNTY ROAD. V1 TRAVELED OFF THE RIGHT SIDE OF THE ROAD, DOWN A 23



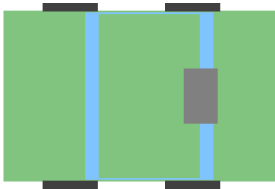
Vehicle	Body type	Make	Model	Year	Occ.#	Age	Occupant's sex	Maximum known occupant ais
1	LARGE PICKUP	Ford	F-series P/U	1980	1	19	MALE	2=Moderate
1	LARGE PICKUP	Ford	F-series P/U	1980	2	22	FEMALE-NOT PREG	3=Serious

Occupant: 1999-48-8-1-1



Fire Information

Fire Occurence	No fire
Fire Origin	No fire
Location of Fuel Leakage	Tank
Type of Fuel Tank	Metallic
Fuel Tank Location	Forward of rear axle, left side
Fuel Cap Location	Left side, forward rear axle
Fuel Tank Damage	Deform+seam fail
Fuel Type	Gasoline



Crash Severity

Nr. Quarter Turns	No rollover
Impact Speed	< 0.5KMPH
Total, Longitudal, and Lateral δV	< 0.5 KMPH < 0.5 KMPH < 0.5 KMPH
Est. δV with sequence number	SEVERE 1
CDC	72 F Z A W 7
Damage (C1-C6)	0 0 0 0 0 0
Crush (L and D)	0 0
Object Contacted 1	LARGE TREE
Object Contacted 2	0

NASS Weighting Factor

Weighting factor	264.04868761
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Rollover Characteristics

Number of Events	1
Rollover Initiation Type	No rollover
Location of Rollover Initiation	No rollover
Rollover Initiation Object Contacted	No rollover
Location on Vehicle where Principal Tripping Force was Applied	No rollover
Direction of Initial Roll	No rollover

Pre-Crash Environment

Traffic Flow	Not DIVIDED
Number of Travel Lanes	TWO
Roadway Alignment	CURVE LEFT
Roadway Profile	DOWNHILL GRADE
Roadway Surface Type	ASPHALT
Roadway Surface Condition	DRY
Light Conditions	DAYLIGHT
Atmospheric Conditions	No ADVERSE COND
Relation to Intersection	NONINTER/NONJUNC
Traffic Control Device	
Police Reported Alcohol Presence	ALCOHOL PRESENT
Alcohol Test (< 95 indicates BAC 0.xx)	2

Vehicle Factors

Make-Model	Ford F-series P/U
Year	1980
Class	TRUCK
Body Type	LARGE PICKUP
Weight	162

Pre-Crash Driver Data

Accident Type	2
Pre-event Movement	NEGOTIATE CURVE
Critical Pre-crash Event	OFF EDGE-RIGHT
Attempted Avoidance Maneuver	BRAKE W/ LOCKUP
Pre-impact Stability	LONGITUDINAL SKID
Pre-impact Location	DEPARTED ROADWAY

DRIVER Factors

Age	19	Height	0	Weight	0
Gender	MALE				
Ejection	No EJECTION				
Ejection Area	No EJECTION				
Entrapment	Not ENTRAPPED				

Restraint Factors

Restrain	None used/avail
AOPS	NO
Airbag Deployment	Not EQUIP/AVAIL
Airbag Deployment - 1 st Seat	Not EQUIP/AVAIL
Airbag Deployment - Oth Seat	Not EQUIP W/ OTH

Injuries

Occupant	1999-48-8-1-1
MAIS	2=Moderate
Seat Position	Front left side

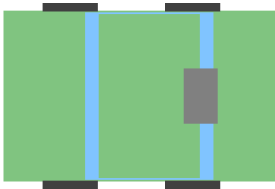
AIS Level	Injury Description	Contacts
2=Moderate	Tibial fracture medial malleolus, open/displaced/comminuted	Floor
2=Moderate	Awake on admission, amnesia	Center panel
1=Minor	Facial skin abrasion	Center panel
1=Minor	Facial skin laceration, minor	Center panel
1=Minor	Gingival avulsion	Center panel
1=Minor	Thoracic skin contusion	Steering comb
1=Minor	Abdominal skin abrasion	Steering rim
1=Minor	Abdominal skin contusion	Steering rim
1=Minor	Upper extremity skin abrasion	Center panel
1=Minor	Upper extremity skin laceration, minor	Center panel
1=Minor	Leg skin laceration, minor	Center panel

Occupant: 1999-48-8-1-2



Fire Information

Fire Occurence	No fire
Fire Origin	No fire
Location of Fuel Leakage	Tank
Type of Fuel Tank	Metallic
Fuel Tank Location	Forward of rear axle, left side
Fuel Cap Location	Left side, forward rear axle
Fuel Tank Damage	Deform+seam fail
Fuel Type	Gasoline



Crash Severity

Nr. Quarter Turns	No rollover
Impact Speed	< 0.5KMPH
Total, Longitudal, and Lateral δV	< 0.5 KMPH < 0.5 KMPH < 0.5 KMPH
Est. δV with sequence number	SEVERE 1
CDC	72 F Z A W 7
Damage (C1-C6)	0 0 0 0 0 0
Crush (L and D)	0 0
Object Contacted 1	LARGE TREE
Object Contacted 2	0

NASS Weighting Factor

Weighting factor	264.04868761
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Rollover Characteristics

Number of Events	1
Rollover Initiation Type	No rollover
Location of Rollover Initiation	No rollover
Rollover Initiation Object Contacted	No rollover
Location on Vehicle where Principal Tripping Force was Applied	No rollover
Direction of Initial Roll	No rollover

Pre-Crash Environment

Traffic Flow	Not DIVIDED
Number of Travel Lanes	TWO
Roadway Alignment	CURVE LEFT
Roadway Profile	DOWNHILL GRADE
Roadway Surface Type	ASPHALT
Roadway Surface Condition	DRY
Light Conditions	DAYLIGHT
Atmospheric Conditions	No ADVERSE COND
Relation to Intersection	NONINTER/NONJUNC
Traffic Control Device	
Police Reported Alcohol Presence	ALCOHOL PRESENT
Alcohol Test (< 95 indicates BAC 0.xx)	2

Vehicle Factors

Make-Model	Ford F-series P/U
Year	1980
Class	TRUCK
Body Type	LARGE PICKUP
Weight	162

Pre-Crash Driver Data

Accident Type	2
Pre-event Movement	NEGOTIATE CURVE
Critical Pre-crash Event	OFF EDGE-RIGHT
Attempted Avoidance Maneuver	BRAKE W/ LOCKUP
Pre-impact Stability	LONGITUDINAL SKID
Pre-impact Location	DEPARTED ROADWAY

PASSENGER Factors

Age	22	Height	147	Weight	68
Gender	FEMALE-NOT PREG				
Ejection	No EJECTION				
Ejection Area	No EJECTION				
Entrapment	Not ENTRAPPED				

Restraint Factors

Restrain	None used/avail
AOPS	NO
Airbag Deployment	Not EQUIP/AVAIL
Airbag Deployment - 1 st Seat	Not EQUIP/AVAIL
Airbag Deployment - Oth Seat	Not EQUIP W/ OTH

Injuries

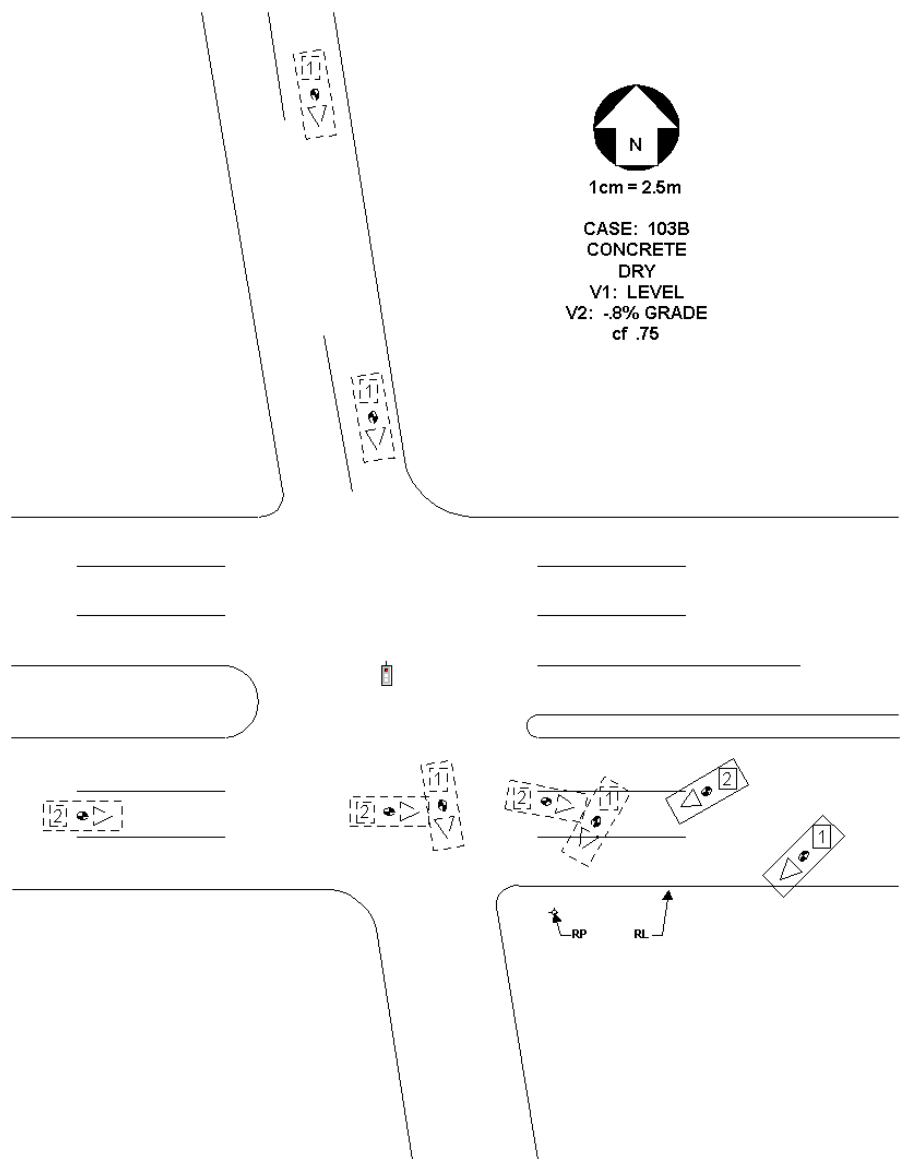
Occupant	1999-48-8-1-2
MAIS	3=Serious
Seat Position	Front middle

AIS Level	Injury Description	Contacts
2=Moderate	2-3 rib fractures with stable chest	Right panel
2=Moderate	Pelvic fracture NFS	Right panel
2=Moderate	Ulnar fracture NFS	Right panel
2=Moderate	Radial fracture NFS (+/- styloid process, including Colles)	Right panel
1=Minor	Facial skin abrasion	Right panel
1=Minor	Facial skin abrasion	Right panel
1=Minor	Facial skin abrasion	Right panel
1=Minor	Thoracic skin abrasion	Right panel
1=Minor	Abdominal skin abrasion	Right panel
1=Minor	Leg skin contusion (hematoma)	Right panel
1=Minor	Leg skin abrasion	Floor
3=Serious	Cerebral subarachnoid hemorrhage	Right panel

50 Case 1999-49-103

Summary:

VEHICLE 1 WAS TRAVELING SOUTH IN THE LEFT LANE OF A TWO LANE, ONE-WAY ROADWAY APPROACHING AN INTERSECTION. VEHICLE 2 WAS TRAVELING EAST IN THE CENTER LANE OF A THREE LANE DIVIDED ROADWAY. THE FRONT OF VEHICLE 2 IMPACTED THE RIGHT SIDE OF VEHICLE 1. BOTH VEHICLES TRAVELED EAST TO FINAL REST. THE RIGHT FRONT PASSENGER OF VEHICLE 1 WAS EJECTED FROM THE RIGHT FRONT DOOR THAT OPENED AS A RESULT OF THE COLLISION. BOTH VEHICLES WERE TOWED AND ALL OCCUPANTS WERE TRANSPORTED. THE RF PASSENGER OF VEHICLE 1 WAS FATALLY INJURED.



Vehicle	Body type	Make	Model	Year	Occ. Age	Occupant's sex	Maximum known occupant ais
1	4-DR SEDAN/HDTOP	Cadillac	Deville/Fleetwood	1991	55	MALE	2=Moderate
1	4-DR SEDAN/HDTOP	Cadillac	Deville/Fleetwood	1992	39	FEMALE-NOT PREG	4=Severe
2	4-DR SEDAN/HDTOP	Toyota	Camry	1992	25	MALE	7=Unk. sev.

Occupant: 1999-49-103-1-1



Fire Information

Fire Occurrence	No fire
Fire Origin	No fire
Location of Fuel Leakage	No fuel leakage
Type of Fuel Tank	Metallic
Fuel Tank Location	Forward of rear axle, centered
Fuel Cap Location	Left side, behind rear axle
Fuel Tank Damage	Deformed
Fuel Type	Gasoline



Pre-Crash Environment

Traffic Flow	ONE WAY
Number of Travel Lanes	TWO
Roadway Alignment	STRAIGHT
Roadway Profile	LEVEL
Roadway Surface Type	CONCRETE
Roadway Surface Condition	DRY
Light Conditions	DARK/LIGHTED
Atmospheric Conditions	No ADVERSE COND
Relation to Intersection	INTERSECTION REL
Traffic Control Device	
Police Reported Alcohol Presence	No ALCOHOL
Alcohol Test (< 95 indicates BAC 0.xx)	0

Vehicle Factors

Make-Model	Cadillac Deville/Fleetwood
Year	1991
Class	PASSENGER CAR
Body Type	4-DR SEDAN/HDTOP
Weight	164

Crash Severity

Nr. Quarter Turns	No rollover
Impact Speed	998
Total, Longitudal, and Lateral δV	37 -18 -32
Est. δV with sequence number	DELTA V CODED 1
CDC	2 R D E W 4
Damage (C1-C6)	0 50 70 43 36 0
Crush (L and D)	314 -33
Object Contacted 1	VEHICLE NO. 2
Object Contacted 2	0

Pre-Crash Driver Data

Accident Type	87
Pre-event Movement	GOING STRAIGHT
Critical Pre-crash Event	CROSS OVER INTER
Attempted Avoidance Manuever	No AVOIDANCE
Pre-impact Stability	TRACKING
Pre-impact Location	STAYED IN LANE

NASS Weighting Factor

Weighting factor	10.216009813
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DRIVER Factors

Rollover Characteristics

Number of Events	2
Rollover Initiation Type	No rollover
Location of Rollover Initiation	No rollover
Rollover Initiation Object Contacted	No rollover
Location on Vehicle where Principal Tripping Force was Applied	No rollover
Direction of Initial Roll	No rollover

Age	55	Height	183	Weight	100
Gender			MALE		
Ejection			No EJECTION		
Ejection Area			No EJECTION		
Entrapment			Not ENTRAPPED		

Restraint Factors

Restrain	Lap and shoulder
AOPS	YES-RES DET
Airbag Deployment	BAG DEPLOYED
Airbag Deployment - 1 st Seat	DR BAG DEPLOYED
Airbag Deployment - Oth Seat	Not EQUIP W/ OTH

Injuries

Occupant	1999-49-103-1-1
MAIS	2=Moderate
Seat Position	Front left side

AIS Level	Injury Description	Contacts
1=Minor	Mandible fracture NFS	Air bag-DR side
2=Moderate	2-3 rib fractures with stable chest	Belt webb/buckle
1=Minor	Teeth dislocated or loosened	Air bag-DR side
1=Minor	Leg skin contusion (hematoma)	Knee bolster

Occupant: 1999-49-103-1-2



Fire Information

Fire Occurrence	No fire
Fire Origin	No fire
Location of Fuel Leakage	No fuel leakage
Type of Fuel Tank	Metallic
Fuel Tank Location	Forward of rear axle, centered
Fuel Cap Location	Left side, behind rear axle
Fuel Tank Damage	Deformed
Fuel Type	Gasoline



Pre-Crash Environment

Traffic Flow	ONE WAY
Number of Travel Lanes	TWO
Roadway Alignment	STRAIGHT
Roadway Profile	LEVEL
Roadway Surface Type	CONCRETE
Roadway Surface Condition	DRY
Light Conditions	DARK/LIGHTED
Atmospheric Conditions	No ADVERSE COND
Relation to Intersection	INTERSECTION REL
Traffic Control Device	
Police Reported Alcohol Presence	No ALCOHOL
Alcohol Test (< 95 indicates BAC 0.xx)	0

Vehicle Factors

Make-Model	Cadillac Deville/Fleetwood
Year	1991
Class	PASSENGER CAR
Body Type	4-DR SEDAN/HDTOP
Weight	164

Crash Severity

Nr. Quarter Turns	No rollover
Impact Speed	998
Total, Longitudal, and Lateral δV	37 -18 -32
Est. δV with sequence number	DELTA V CODED 1
CDC	2 R D E W 4
Damage (C1-C6)	0 50 70 43 36 0
Crush (L and D)	314 -33
Object Contacted 1	VEHICLE NO. 2
Object Contacted 2	0

Pre-Crash Driver Data

Accident Type	87
Pre-event Movement	GOING STRAIGHT
Critical Pre-crash Event	CROSS OVER INTER
Attempted Avoidance Manuever	No AVOIDANCE
Pre-impact Stability	TRACKING
Pre-impact Location	STAYED IN LANE

NASS Weighting Factor

Weighting factor	10.216009813
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PASSENGER Factors

Rollover Characteristics

Number of Events	2
Rollover Initiation Type	No rollover
Location of Rollover Initiation	No rollover
Rollover Initiation Object Contacted	No rollover
Location on Vehicle where Principal Tripping Force was Applied	No rollover
Direction of Initial Roll	No rollover

Age	39	Height	175	Weight	86
Gender					FEMALE-NOT PREG
Ejection					COMPLETE EJECT
Ejection Area					Right FRONT
Entrapment					Not ENTRAPPED

Restraint Factors

Restrain	None used/avail
AOPS	YES-RES DET
Airbag Deployment	Not EQUIP/AVAIL
Airbag Deployment - 1 st Seat	DR BAG DEPLOYED
Airbag Deployment - Oth Seat	Not EQUIP W/ OTH

Injuries

Occupant	1999-49-103-1-2
MAIS	4=Severe
Seat Position	Front right side

AIS Level	Injury Description	Contacts
3=Serious	Cerebral subarachnoid hemorrhage	Ground
3=Serious	Cerebral subarachnoid hemorrhage	Ground
3=Serious	>3 rib fractures one side & <3 other side, with stable chest	Ground
4=Severe	Lung laceration, unilateral, with hemomediastinum	Ground
3=Serious	Pulmonary artery laceration NFS	Ground
2=Moderate	Bronchus distal to main stem laceration NFS	Ground
1=Minor	Scalp contusion	Ground
1=Minor	Conjunctiva injury	Ground
1=Minor	Conjunctiva injury	Ground
1=Minor	Facial skin abrasion	Ground
1=Minor	Neck skin contusion (hematoma)	Ground
1=Minor	Thoracic skin abrasion	Ground
1=Minor	Abdominal skin contusion	Ground
1=Minor	Abdominal skin laceration, minor	Ground
1=Minor	Upper extremity skin abrasion	Ground
1=Minor	Leg skin abrasion	Ground

Occupant: 1999-49-103-2-1



Fire Information

Fire Occurrence	Minor fire
Fire Origin	Engine compart
Location of Fuel Leakage	No fuel leakage
Type of Fuel Tank	Metallic
Fuel Tank Location	Forward of rear axle, centered
Fuel Cap Location	Left side, behind rear axle
Fuel Tank Damage	No damage
Fuel Type	Gasoline



Pre-Crash Environment

Traffic Flow	DVDED/NO BARRIER
Number of Travel Lanes	THREE
Roadway Alignment	STRAIGHT
Roadway Profile	LEVEL
Roadway Surface Type	CONCRETE
Roadway Surface Condition	DRY
Light Conditions	DARK/LIGHTED
Atmospheric Conditions	No ADVERSE COND
Relation to Intersection	INTERSECTION REL
Traffic Control Device	
Police Reported Alcohol Presence	No ALCOHOL
Alcohol Test (< 95 indicates BAC 0.xx)	0

Crash Severity

Nr. Quarter Turns	No rollover
Impact Speed	998
Total, Longitudal, and Lateral δV	48 -41 24
Est. δV with sequence number	DELTA V CODED 1
CDC	71 F D E W 2
Damage (C1-C6)	31 31 36 41 34 34
Crush (L and D)	145 0
Object Contacted 1	VEHICLE NO. 1
Object Contacted 2	0

NASS Weighting Factor

Weighting factor	10.216009813
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Rollover Characteristics

Number of Events	2
Rollover Initiation Type	No rollover
Location of Rollover Initiation	No rollover
Rollover Initiation Object Contacted	No rollover
Location on Vehicle where Principal Tripping Force was Applied	No rollover
Direction of Initial Roll	No rollover

Vehicle Factors

Make-Model	Toyota Camry
Year	1992
Class	PASSENGER CAR
Body Type	4-DR SEDAN/HDTOP
Weight	134

Pre-Crash Driver Data

Accident Type	86
Pre-event Movement	GOING STRAIGHT
Critical Pre-crash Event	XING ST-X PATH
Attempted Avoidance Manuever	No DRIVER
Pre-impact Stability	No DRIVER
Pre-impact Location	STAYED IN LANE

DRIVER Factors

Age	25	Height	0	Weight	0
Gender					MALE
Ejection					No EJECTION
Ejection Area					No EJECTION
Entrapment					Not ENTRAPPED

Restraint Factors

Restrain	Lap and shoulder
AOPS	YES-RES DET
Airbag Deployment	Not EQUIP/AVAIL
Airbag Deployment - 1 st Seat	Not EQUIP/AVAIL
Airbag Deployment - Oth Seat	Not EQUIP W/ OTH

Injuries

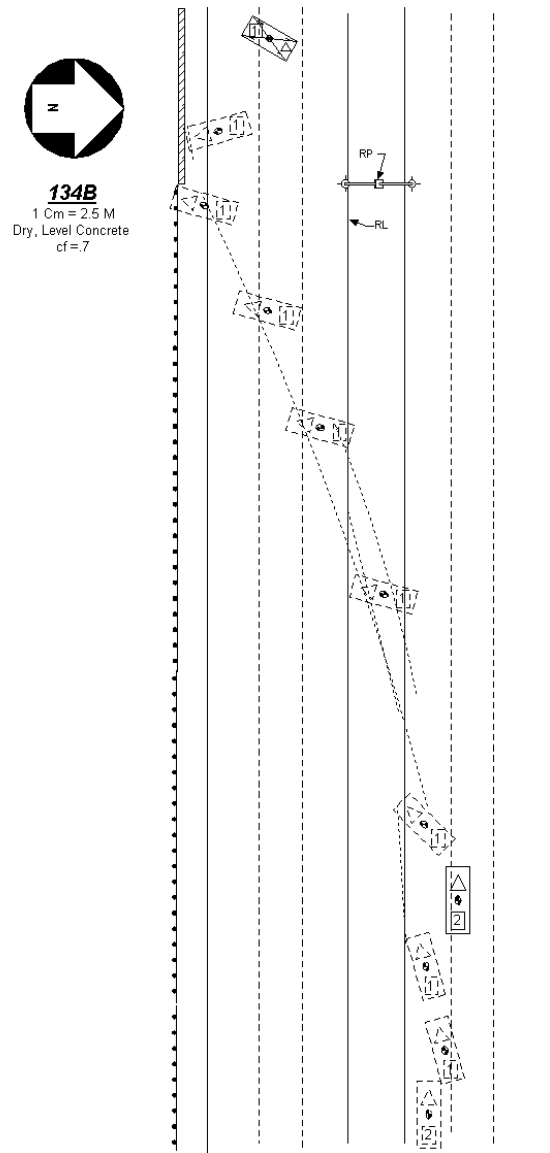
Occupant	1999-49-103-2-1
MAIS	7=Unk. sev.
Seat Position	Front left side

AIS Level	Injury Description	Contacts
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51 Case 1999-49-134

Summary:

Vehicle 2 was traveling west in the third lane of a three lane divided roadway. Vehicle 1 was also traveling in the westbound lanes of the same roadway but was cutting across the lanes from right to left. . Anyhow, Vehicle 1 continued traveling in a southwesterly direction, going over the median, then rotating counterclockwise until the right side collided with the end of a concrete bridge rail. From there the vehicle bounced off the rail back into the eastbound lanes, flipped over onto it's top, and burst into flames. All three occupants were ejected from the vehicle, which was towed. One of the occupants was fatally injured. The other two were transported. There is some question as to who was driving the vehicle. According to the mother of the deceased occupant, who was also listed as the driver, this occuant was not driving the vehicle and that another of the occupants (the actual driver) told the responding officer that the deceased was the driver, so as not to incriminate himself.



Vehicle	Body type	Make	Model	Year	Occ.#	Age	Occupant's sex	Maximum known occupant ais
1	LARGE PICKUP	Dodge	Ram 1500 P/U	1994	1	15	MALE	5=Critical
1	LARGE PICKUP	Dodge	Ram 1500 P/U	1994	2	17	MALE	7=Unk. sev.
1	LARGE PICKUP	Dodge	Ram 1500 P/U	1994	3	21	MALE	7=Unk. sev.
2	2DR SEDAN/HT/CPE	Chevrolet	Monte Carlo	1985	1	22	MALE	0=None

Occupant: 1999-49-134-1-1



Fire Information

Fire Occurrence	Major fire
Fire Origin	Engine compart
Location of Fuel Leakage	No fuel leakage
Type of Fuel Tank	Non-metallic
Fuel Tank Location	Forward of rear axle, centered
Fuel Cap Location	Left side, forward rear axle
Fuel Tank Damage	No damage
Fuel Type	Gasoline



Pre-Crash Environment

Traffic Flow	DVDED/NO BARRIER
Number of Travel Lanes	THREE
Roadway Alignment	STRAIGHT
Roadway Profile	LEVEL
Roadway Surface Type	CONCRETE
Roadway Surface Condition	DRY
Light Conditions	DAYLIGHT
Atmospheric Conditions	No ADVERSE COND
Relation to Intersection	NONINTER/NONJUNC
Traffic Control Device	
Police Reported Alcohol Presence	ALCOHOL PRESENT
Alcohol Test (< 95 indicates BAC 0.xx)	0

Crash Severity

Nr. Quarter Turns	2 QUARTER TURNS
Impact Speed	< 0.5KMPH
Total, Longitudal, and Lateral δV	< 0.5 KMPH < 0.5 KMPH < 0.5 KMPH
Est. δV with sequence number	MODERATE 3
CDC	3 R Y E W 3
Damage (C1-C6)	0 18 31 38 39 33
Crush (L and D)	148 159
Object Contacted 1	BRIDGE
Object Contacted 2	ROLLOVER-OVERTRN

NASS Weighting Factor

Weighting factor	10.292629887
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Rollover Characteristics

Number of Events	6
Rollover Initiation Type	BOUNCE-OVER
Location of Rollover Initiation	ROADSIDE/MEDIAN
Rollover Initiation Object Contacted	BRIDGE
Location on Vehicle where Principal Tripping Force was Applied	SIDE PLANE
Direction of Initial Roll	ROLL RIGHT

Vehicle Factors

Make-Model	Dodge Ram 1500 P/U
Year	1994
Class	TRUCK
Body Type	LARGE PICKUP
Weight	149

Pre-Crash Driver Data

Accident Type	47
Pre-event Movement	PASSING/OVERTAKE
Critical Pre-crash Event	OFF EDGE-LEFT
Attempted Avoidance Maneuver	No DRIVER
Pre-impact Stability	LAT SKID-CTR CLK
Pre-impact Location	DEPARTED ROADWAY

DRIVER Factors

Age	15	Height	160	Weight	50
Gender					MALE
Ejection					COMPLETE EJECT
Ejection Area					No EJECTION
Entrapment					Not ENTRAPPED

Restraint Factors

Restrain	None used/avail
AOPS	YES-RES DET
Airbag Deployment	Unk IF DEPLOYED
Airbag Deployment - 1 st Seat	Unk DR BAG DEPLY
Airbag Deployment - Oth Seat	Not EQUIP W/ OTH

Injuries

Occupant	1999-49-134-1-1
MAIS	5=Critical
Seat Position	Front left side

AIS Level	Injury Description	Contacts
3=Serious	Cerebral contusions, multiple, bilateral but NFS	Ground
5=Critical	Flail chest, bilateral	Ground
5=Critical	Lung laceration, unilateral, with massive air leak	Ground
4=Severe	Lung contusion, bilateral	Ground
3=Serious	Myocardial contusion, minor	Ground
4=Severe	Hepatic laceration, major (<502=Moderate)	Gallbladder laceration, minor
Ground		
2=Moderate	Splenic laceration, minor (tear<3cms deep, no major vessel)	Ground
1=Minor	Facial skin contusion	Ground
1=Minor	Neck skin contusion (hematoma)	Ground
1=Minor	Conjunctiva injury	Ground
1=Minor	Conjunctiva injury	Ground
1=Minor	Scalp contusion	Ground
1=Minor	Thoracic skin abrasion	Steering hub
1=Minor	Abdominal skin abrasion	Steering rim
1=Minor	Upper extremity skin abrasion	Ground

Occupant: 1999-49-134-1-2



Fire Information

Fire Occurrence	Major fire
Fire Origin	Engine compart
Location of Fuel Leakage	No fuel leakage
Type of Fuel Tank	Non-metallic
Fuel Tank Location	Forward of rear axle, centered
Fuel Cap Location	Left side, forward rear axle
Fuel Tank Damage	No damage
Fuel Type	Gasoline



Pre-Crash Environment

Traffic Flow	DVDED/NO BARRIER
Number of Travel Lanes	THREE
Roadway Alignment	STRAIGHT
Roadway Profile	LEVEL
Roadway Surface Type	CONCRETE
Roadway Surface Condition	DRY
Light Conditions	DAYLIGHT
Atmospheric Conditions	No ADVERSE COND
Relation to Intersection	NONINTER/NONJUNC
Traffic Control Device	
Police Reported Alcohol Presence	ALCOHOL PRESENT
Alcohol Test (< 95 indicates BAC 0.xx)	0

Crash Severity

Nr. Quarter Turns	2 QUARTER TURNS
Impact Speed	< 0.5KMPH
Total, Longitudal, and Lateral δV	< 0.5 KMPH < 0.5 KMPH < 0.5 KMPH
Est. δV with sequence number	MODERATE 3
CDC	3 R Y E W 3
Damage (C1-C6)	0 18 31 38 39 33
Crush (L and D)	148 159
Object Contacted 1	BRIDGE
Object Contacted 2	ROLLOVER-OVERTRN

NASS Weighting Factor

Weighting factor	10.292629887
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Rollover Characteristics

Number of Events	6
Rollover Initiation Type	BOUNCE-OVER
Location of Rollover Initiation	ROADSIDE/MEDIAN
Rollover Initiation Object Contacted	BRIDGE
Location on Vehicle where Principal Tripping Force was Applied	SIDE PLANE
Direction of Initial Roll	ROLL RIGHT

Vehicle Factors

Make-Model	Dodge Ram 1500 P/U
Year	1994
Class	TRUCK
Body Type	LARGE PICKUP
Weight	149

Pre-Crash Driver Data

Accident Type	47
Pre-event Movement	PASSING/OVERTAKE
Critical Pre-crash Event	OFF EDGE-LEFT
Attempted Avoidance Maneuver	No DRIVER
Pre-impact Stability	LAT SKID-CTR CLK
Pre-impact Location	DEPARTED ROADWAY

PASSENGER Factors

Age	17	Height	178	Weight	45
Gender					MALE
Ejection					COMPLETE EJECT
Ejection Area					No EJECTION
Entrapment					Not ENTRAPPED

Restraint Factors

Restrain	None used/avail
AOPS	YES-RES DET
Airbag Deployment	Not EQUIP/AVAIL
Airbag Deployment - 1 st Seat	Unk DR BAG DEPLY
Airbag Deployment - Oth Seat	Not EQUIP W/ OTH

Injuries

Occupant	1999-49-134-1-2
MAIS	7=Unk. sev.
Seat Position	Front middle

AIS Level	Injury Description	Contacts
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Occupant: 1999-49-134-1-3



Fire Information

Fire Occurrence	Major fire
Fire Origin	Engine compart
Location of Fuel Leakage	No fuel leakage
Type of Fuel Tank	Non-metallic
Fuel Tank Location	Forward of rear axle, centered
Fuel Cap Location	Left side, forward rear axle
Fuel Tank Damage	No damage
Fuel Type	Gasoline



Pre-Crash Environment

Traffic Flow	DVDED/NO BARRIER
Number of Travel Lanes	THREE
Roadway Alignment	STRAIGHT
Roadway Profile	LEVEL
Roadway Surface Type	CONCRETE
Roadway Surface Condition	DRY
Light Conditions	DAYLIGHT
Atmospheric Conditions	No ADVERSE COND
Relation to Intersection	NONINTER/NONJUNC
Traffic Control Device	
Police Reported Alcohol Presence	ALCOHOL PRESENT
Alcohol Test (< 95 indicates BAC 0.xx)	0

Crash Severity

Nr. Quarter Turns	2 QUARTER TURNS
Impact Speed	< 0.5KMPH
Total, Longitudal, and Lateral δV	< 0.5 KMPH < 0.5 KMPH < 0.5 KMPH
Est. δV with sequence number	MODERATE 3
CDC	3 R Y E W 3
Damage (C1-C6)	0 18 31 38 39 33
Crush (L and D)	148 159
Object Contacted 1	BRIDGE
Object Contacted 2	ROLLOVER-OVERTRN

NASS Weighting Factor

Weighting factor	10.292629887
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Rollover Characteristics

Number of Events	6
Rollover Initiation Type	BOUNCE-OVER
Location of Rollover Initiation	ROADSIDE/MEDIAN
Rollover Initiation Object Contacted	BRIDGE
Location on Vehicle where Principal Tripping Force was Applied	SIDE PLANE
Direction of Initial Roll	ROLL RIGHT

Vehicle Factors

Make-Model	Dodge Ram 1500 P/U
Year	1994
Class	TRUCK
Body Type	LARGE PICKUP
Weight	149

Pre-Crash Driver Data

Accident Type	47
Pre-event Movement	PASSING/OVERTAKE
Critical Pre-crash Event	OFF EDGE-LEFT
Attempted Avoidance Maneuver	No DRIVER
Pre-impact Stability	LAT SKID-CTR CLK
Pre-impact Location	DEPARTED ROADWAY

PASSENGER Factors

Age	21	Height	0	Weight	0
Gender					MALE
Ejection					COMPLETE EJECT
Ejection Area					No EJECTION
Entrapment					Not ENTRAPPED

Restraint Factors

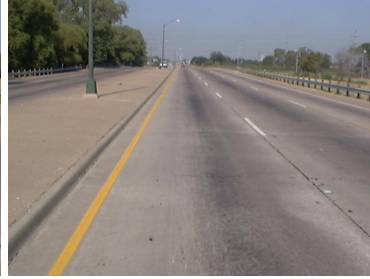
Restrain	None used/avail
AOPS	YES-RES DET
Airbag Deployment	Not EQUIP/AVAIL
Airbag Deployment - 1 st Seat	Unk DR BAG DEPLY
Airbag Deployment - Oth Seat	Not EQUIP W/ OTH

Injuries

Occupant	1999-49-134-1-3
MAIS	7=Unk. sev.
Seat Position	Front right side

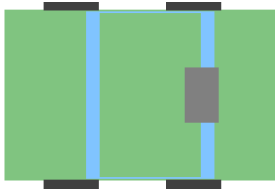
AIS Level	Injury Description	Contacts
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Occupant: 1999-49-134-2-1



Fire Information

Fire Occurrence	No data
Fire Origin	No data
Location of Fuel Leakage	No data
Type of Fuel Tank	No data
Fuel Tank Location	No data
Fuel Cap Location	No data
Fuel Tank Damage	No data
Fuel Type	No data



Crash Severity

Nr. Quarter Turns	No rollover
Impact Speed	< 0.5KMPH
Total, Longitudal, and Lateral δV	< 0.5 KMPH < 0.5 KMPH < 0.5 KMPH
Est. δV with sequence number	DELTA V CODED 0
CDC	No data No data No data No data
Damage (C1-C6)	No data No data No data No data
Crush (L and D)	No data No data
Object Contacted 1	No data
Object Contacted 2	No data

NASS Weighting Factor

Weighting factor	10.292629887
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Rollover Characteristics

Number of Events	6
Rollover Initiation Type	No rollover
Location of Rollover Initiation	No rollover
Rollover Initiation Object Contacted	No rollover
Location on Vehicle where Principal Tripping Force was Applied	No rollover
Direction of Initial Roll	No rollover

Pre-Crash Environment

Traffic Flow	Not DIVIDED
Number of Travel Lanes	THREE
Roadway Alignment	STRAIGHT
Roadway Profile	LEVEL
Roadway Surface Type	CONCRETE
Roadway Surface Condition	DRY
Light Conditions	DAYLIGHT
Atmospheric Conditions	No ADVERSE COND
Relation to Intersection	NONINTER/NONJUNC
Traffic Control Device	
Police Reported Alcohol Presence	No ALCOHOL
Alcohol Test (< 95 indicates BAC 0.xx)	0

Vehicle Factors

Make-Model	Chevrolet Monte Carlo
Year	1985
Class	PASSENGER CAR
Body Type	2DR SEDAN/HT/CPE
Weight	149

Pre-Crash Driver Data

Accident Type	45
Pre-event Movement	GOING STRAIGHT
Critical Pre-crash Event	Same DIR-OV RGHT
Attempted Avoidance Maneuver	No DRIVER
Pre-impact Stability	No DRIVER
Pre-impact Location	STAYED IN LANE

DRIVER Factors

Age	22	Height	178	Weight	66
Gender			MALE		
Ejection			No EJECTION		
Ejection Area			No EJECTION		
Entrapment			Not ENTRAPPED		

Restraint Factors

Restrain	None used/avail
AOPS	NO
Airbag Deployment	Not EQUIP/AVAIL
Airbag Deployment - 1 st Seat	Not EQUIP/AVAIL
Airbag Deployment - Oth Seat	Not EQUIP W/ OTH

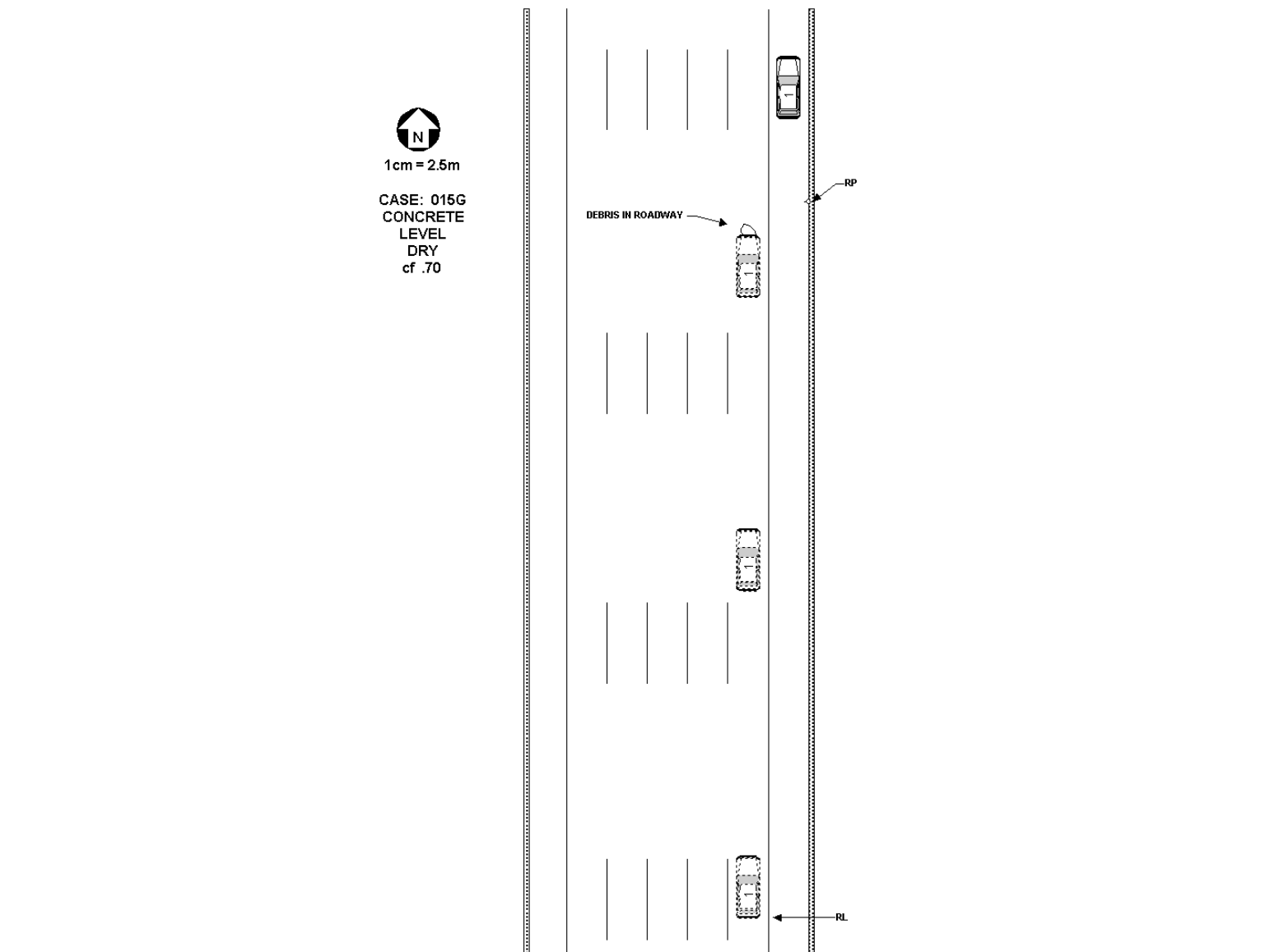
Injuries

Occupant	1999-49-134-2-1
MAIS	0=None
Seat Position	Front left side

AIS Level	Injury Description	Contacts
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52 Case 1999-49-15

Summary:
VEHICLE 1 WAS TRAVELING NORTH IN THE RIGHT LANE OF A FIVE LANE FREEWAY. VEHICLE 1 RAN OVER A TRACTOR-TRAILER MUD FLAP IN THE ROADWAY THAT PUNCTURED THE FUEL TANK OF VEHICLE. VEHICLE 1 WAS TOWED AND THERE WERE NO INJURIES.



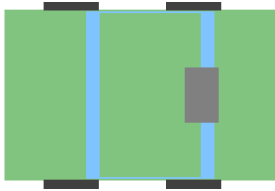
Vehicle	Body type	Make	Model	Year	Occ.#	Age	Occupant's sex	Maximum known occupant ais
1	4-DR SEDAN/HDTOP	Hyundai	Accent	1995	1	34	FEMALE-NOT PREG	0=None
1	4-DR SEDAN/HDTOP	Hyundai	Accent	1995	2	73	FEMALE-NOT PREG	0=None
1	4-DR SEDAN/HDTOP	Hyundai	Accent	1995	3	10	FEMALE-NOT PREG	0=None
1	4-DR SEDAN/HDTOP	Hyundai	Accent	1995	4	7	MALE	0=None
1	4-DR SEDAN/HDTOP	Hyundai	Accent	1995	5	14	MALE	0=None

Occupant: 1999-49-15-1-1



Fire Information

Fire Occurrence	No fire
Fire Origin	No fire
Location of Fuel Leakage	Tank
Type of Fuel Tank	Metallic
Fuel Tank Location	Forward of rear axle, centered
Fuel Cap Location	Left side, behind rear axle
Fuel Tank Damage	Punctured
Fuel Type	Gasoline



Pre-Crash Environment

Traffic Flow	DVDED/NO BARRIER
Number of Travel Lanes	FIVE
Roadway Alignment	STRAIGHT
Roadway Profile	LEVEL
Roadway Surface Type	CONCRETE
Roadway Surface Condition	DRY
Light Conditions	DUSK
Atmospheric Conditions	No ADVERSE COND
Relation to Intersection	NONINTER/NONJUNC
Traffic Control Device	
Police Reported Alcohol Presence	No ALCOHOL
Alcohol Test (< 95 indicates BAC 0.xx)	0

Vehicle Factors

Make-Model	Hyundai Accent
Year	1995
Class	PASSENGER CAR
Body Type	4-DR SEDAN/HDTOP
Weight	93

Crash Severity

Nr. Quarter Turns	No rollover
Impact Speed	< 0.5KMPH
Total, Longitudal, and Lateral δV	< 0.5 KMPH < 0.5 KMPH < 0.5 KMPH
Est. δV with sequence number	DELTA V CODED 1
CDC	12 U 9 9 9 0
Damage (C1-C6)	0 0 0 0 0 0
Crush (L and D)	0 0
Object Contacted 1	Oth NONFIXED OBJ
Object Contacted 2	0

Pre-Crash Driver Data

Accident Type	12
Pre-event Movement	GOING STRAIGHT
Critical Pre-crash Event	Oth CRIT EVENT
Attempted Avoidance Manuever	BRAKE W/O LOCKUP
Pre-impact Stability	TRACKING
Pre-impact Location	STAYED IN LANE

NASS Weighting Factor

Weighting factor	493.44671737
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DRIVER Factors

Rollover Characteristics

Number of Events	1
Rollover Initiation Type	No rollover
Location of Rollover Initiation	No rollover
Rollover Initiation Object Contacted	No rollover
Location on Vehicle where Principal Tripping Force was Applied	No rollover
Direction of Initial Roll	No rollover

Age	34	Height	168	Weight	75
Gender					FEMALE-NOT PREG
Ejection					No EJECTION
Ejection Area					No EJECTION
Entrapment					Not ENTRAPPED

Restraint Factors

Restrain	Lap and shoulder
AOPS	YES-RES DET
Airbag Deployment	NONDEPLOYED
Airbag Deployment - 1 st Seat	NONDEPLOYED
Airbag Deployment - Oth Seat	Not EQUIP W/ OTH

Injuries

Occupant	1999-49-15-1-1
MAIS	0=None
Seat Position	Front left side

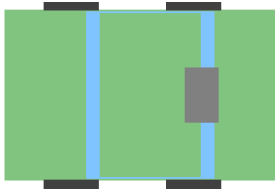
AIS Level	Injury Description	Contacts
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Occupant: 1999-49-15-1-2



Fire Information

Fire Occurrence	No fire
Fire Origin	No fire
Location of Fuel Leakage	Tank
Type of Fuel Tank	Metallic
Fuel Tank Location	Forward of rear axle, centered
Fuel Cap Location	Left side, behind rear axle
Fuel Tank Damage	Punctured
Fuel Type	Gasoline



Pre-Crash Environment

Traffic Flow	DVDED/NO BARRIER
Number of Travel Lanes	FIVE
Roadway Alignment	STRAIGHT
Roadway Profile	LEVEL
Roadway Surface Type	CONCRETE
Roadway Surface Condition	DRY
Light Conditions	DUSK
Atmospheric Conditions	No ADVERSE COND
Relation to Intersection	NONINTER/NONJUNC
Traffic Control Device	
Police Reported Alcohol Presence	No ALCOHOL
Alcohol Test (< 95 indicates BAC 0.xx)	0

Vehicle Factors

Make-Model	Hyundai Accent
Year	1995
Class	PASSENGER CAR
Body Type	4-DR SEDAN/HDTOP
Weight	93

Crash Severity

Nr. Quarter Turns	No rollover
Impact Speed	< 0.5KMPH
Total, Longitudal, and Lateral δV	< 0.5 KMPH < 0.5 KMPH < 0.5 KMPH
Est. δV with sequence number	DELTA V CODED 1
CDC	12 U 9 9 9 0
Damage (C1-C6)	0 0 0 0 0 0
Crush (L and D)	0 0
Object Contacted 1	Oth NONFIXED OBJ
Object Contacted 2	0

Pre-Crash Driver Data

Accident Type	12
Pre-event Movement	GOING STRAIGHT
Critical Pre-crash Event	Oth CRIT EVENT
Attempted Avoidance Manuever	BRAKE W/O LOCKUP
Pre-impact Stability	TRACKING
Pre-impact Location	STAYED IN LANE

NASS Weighting Factor

Weighting factor	493.44671737
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PASSENGER Factors

Rollover Characteristics

Number of Events	1
Rollover Initiation Type	No rollover
Location of Rollover Initiation	No rollover
Rollover Initiation Object Contacted	No rollover
Location on Vehicle where Principal Tripping Force was Applied	No rollover
Direction of Initial Roll	No rollover

Age	73	Height	165	Weight	86
Gender					FEMALE-NOT PREG
Ejection					No EJECTION
Ejection Area					No EJECTION
Entrapment					Not ENTRAPPED

Restraint Factors

Restrain	Lap and shoulder
AOPS	YES-RES DET
Airbag Deployment	NONDEPLOYED
Airbag Deployment - 1 st Seat	NONDEPLOYED
Airbag Deployment - Oth Seat	Not EQUIP W/ OTH

Injuries

Occupant	1999-49-15-1-2
MAIS	0=None
Seat Position	Front right side

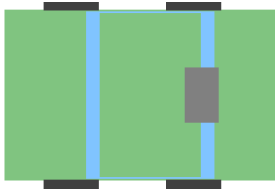
AIS Level	Injury Description	Contacts
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Occupant: 1999-49-15-1-3



Fire Information

Fire Occurrence	No fire
Fire Origin	No fire
Location of Fuel Leakage	Tank
Type of Fuel Tank	Metallic
Fuel Tank Location	Forward of rear axle, centered
Fuel Cap Location	Left side, behind rear axle
Fuel Tank Damage	Punctured
Fuel Type	Gasoline



Pre-Crash Environment

Traffic Flow	DVDED/NO BARRIER
Number of Travel Lanes	FIVE
Roadway Alignment	STRAIGHT
Roadway Profile	LEVEL
Roadway Surface Type	CONCRETE
Roadway Surface Condition	DRY
Light Conditions	DUSK
Atmospheric Conditions	No ADVERSE COND
Relation to Intersection	NONINTER/NONJUNC
Traffic Control Device	
Police Reported Alcohol Presence	No ALCOHOL
Alcohol Test (< 95 indicates BAC 0.xx)	0

Vehicle Factors

Make-Model	Hyundai Accent
Year	1995
Class	PASSENGER CAR
Body Type	4-DR SEDAN/HDTOP
Weight	93

Crash Severity

Nr. Quarter Turns	No rollover
Impact Speed	< 0.5KMPH
Total, Longitudal, and Lateral δV	< 0.5 KMPH < 0.5 KMPH < 0.5 KMPH
Est. δV with sequence number	DELTA V CODED 1
CDC	12 U 9 9 9 0
Damage (C1-C6)	0 0 0 0 0 0
Crush (L and D)	0 0
Object Contacted 1	Oth NONFIXED OBJ
Object Contacted 2	0

Pre-Crash Driver Data

Accident Type	12
Pre-event Movement	GOING STRAIGHT
Critical Pre-crash Event	Oth CRIT EVENT
Attempted Avoidance Manuever	BRAKE W/O LOCKUP
Pre-impact Stability	TRACKING
Pre-impact Location	STAYED IN LANE

NASS Weighting Factor

Weighting factor	493.44671737
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PASSENGER Factors

Rollover Characteristics

Number of Events	1
Rollover Initiation Type	No rollover
Location of Rollover Initiation	No rollover
Rollover Initiation Object Contacted	No rollover
Location on Vehicle where Principal Tripping Force was Applied	No rollover
Direction of Initial Roll	No rollover

Age	10	Height	130	Weight	45
Gender					FEMALE-NOT PREG
Ejection					No EJECTION
Ejection Area					No EJECTION
Entrapment					Not ENTRAPPED

Restraint Factors

Restrain	Lap and shoulder
AOPS	YES-RES DET
Airbag Deployment	Not EQUIP/AVAIL
Airbag Deployment - 1 st Seat	NONDEPLOYED
Airbag Deployment - Oth Seat	Not EQUIP W/ OTH

Injuries

Occupant	1999-49-15-1-3
MAIS	0=None
Seat Position	Second left

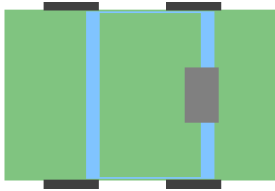
AIS Level	Injury Description	Contacts
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Occupant: 1999-49-15-1-4



Fire Information

Fire Occurrence	No fire
Fire Origin	No fire
Location of Fuel Leakage	Tank
Type of Fuel Tank	Metallic
Fuel Tank Location	Forward of rear axle, centered
Fuel Cap Location	Left side, behind rear axle
Fuel Tank Damage	Punctured
Fuel Type	Gasoline



Pre-Crash Environment

Traffic Flow	DVDED/NO BARRIER
Number of Travel Lanes	FIVE
Roadway Alignment	STRAIGHT
Roadway Profile	LEVEL
Roadway Surface Type	CONCRETE
Roadway Surface Condition	DRY
Light Conditions	DUSK
Atmospheric Conditions	No ADVERSE COND
Relation to Intersection	NONINTER/NONJUNC
Traffic Control Device	
Police Reported Alcohol Presence	No ALCOHOL
Alcohol Test (< 95 indicates BAC 0.xx)	0

Vehicle Factors

Make-Model	Hyundai Accent
Year	1995
Class	PASSENGER CAR
Body Type	4-DR SEDAN/HDTOP
Weight	93

Crash Severity

Nr. Quarter Turns	No rollover
Impact Speed	< 0.5KMPH
Total, Longitudal, and Lateral δV	< 0.5 KMPH < 0.5 KMPH < 0.5 KMPH
Est. δV with sequence number	DELTA V CODED 1
CDC	12 U 9 9 9 0
Damage (C1-C6)	0 0 0 0 0 0
Crush (L and D)	0 0
Object Contacted 1	Oth NONFIXED OBJ
Object Contacted 2	0

Pre-Crash Driver Data

Accident Type	12
Pre-event Movement	GOING STRAIGHT
Critical Pre-crash Event	Oth CRIT EVENT
Attempted Avoidance Manuever	BRAKE W/O LOCKUP
Pre-impact Stability	TRACKING
Pre-impact Location	STAYED IN LANE

NASS Weighting Factor

Weighting factor	493.44671737
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PASSENGER Factors

Rollover Characteristics		Age	7	Height	127	Weight	23
Number of Events	1	Gender	MALE				
Rollover Initiation Type	No rollover	Ejection	No EJECTION				
Location of Rollover Initiation	No rollover	Ejection Area	No EJECTION				
Rollover Initiation Object Contacted	No rollover	Entrapment	Not ENTRAPPED				
Location on Vehicle where Principal Tripping Force was Applied	No rollover						
Direction of Initial Roll	No rollover						

Restraint Factors

Restrain	Lap belt
AOPS	YES-RES DET
Airbag Deployment	Not EQUIP/AVAIL
Airbag Deployment - 1 st Seat	NONDEPLOYED
Airbag Deployment - Oth Seat	Not EQUIP W/ OTH

Injuries

Occupant	1999-49-15-1-4
MAIS	0=None
Seat Position	Second middle

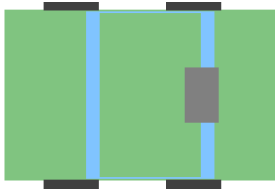
AIS Level	Injury Description	Contacts
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Occupant: 1999-49-15-1-5



Fire Information

Fire Occurrence	No fire
Fire Origin	No fire
Location of Fuel Leakage	Tank
Type of Fuel Tank	Metallic
Fuel Tank Location	Forward of rear axle, centered
Fuel Cap Location	Left side, behind rear axle
Fuel Tank Damage	Punctured
Fuel Type	Gasoline



Pre-Crash Environment

Traffic Flow	DVDED/NO BARRIER
Number of Travel Lanes	FIVE
Roadway Alignment	STRAIGHT
Roadway Profile	LEVEL
Roadway Surface Type	CONCRETE
Roadway Surface Condition	DRY
Light Conditions	DUSK
Atmospheric Conditions	No ADVERSE COND
Relation to Intersection	NONINTER/NONJUNC
Traffic Control Device	
Police Reported Alcohol Presence	No ALCOHOL
Alcohol Test (< 95 indicates BAC 0.xx)	0

Vehicle Factors

Make-Model	Hyundai Accent
Year	1995
Class	PASSENGER CAR
Body Type	4-DR SEDAN/HDTOP
Weight	93

Crash Severity

Nr. Quarter Turns	No rollover
Impact Speed	< 0.5KMPH
Total, Longitudal, and Lateral δV	< 0.5 KMPH < 0.5 KMPH < 0.5 KMPH
Est. δV with sequence number	DELTA V CODED 1
CDC	12 U 9 9 9 0
Damage (C1-C6)	0 0 0 0 0 0
Crush (L and D)	0 0
Object Contacted 1	Oth NONFIXED OBJ
Object Contacted 2	0

Pre-Crash Driver Data

Accident Type	12
Pre-event Movement	GOING STRAIGHT
Critical Pre-crash Event	Oth CRIT EVENT
Attempted Avoidance Manuever	BRAKE W/O LOCKUP
Pre-impact Stability	TRACKING
Pre-impact Location	STAYED IN LANE

NASS Weighting Factor

Weighting factor	493.44671737
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PASSENGER Factors

Rollover Characteristics

Number of Events	1
Rollover Initiation Type	No rollover
Location of Rollover Initiation	No rollover
Rollover Initiation Object Contacted	No rollover
Location on Vehicle where Principal Tripping Force was Applied	No rollover
Direction of Initial Roll	No rollover

Age	14	Height	170	Weight	45
Gender					MALE
Ejection					No EJECTION
Ejection Area					No EJECTION
Entrapment					Not ENTRAPPED

Restraint Factors

Restrain	Lap and shoulder
AOPS	YES-RES DET
Airbag Deployment	Not EQUIP/AVAIL
Airbag Deployment - 1 st Seat	NONDEPLOYED
Airbag Deployment - Oth Seat	Not EQUIP W/ OTH

Injuries

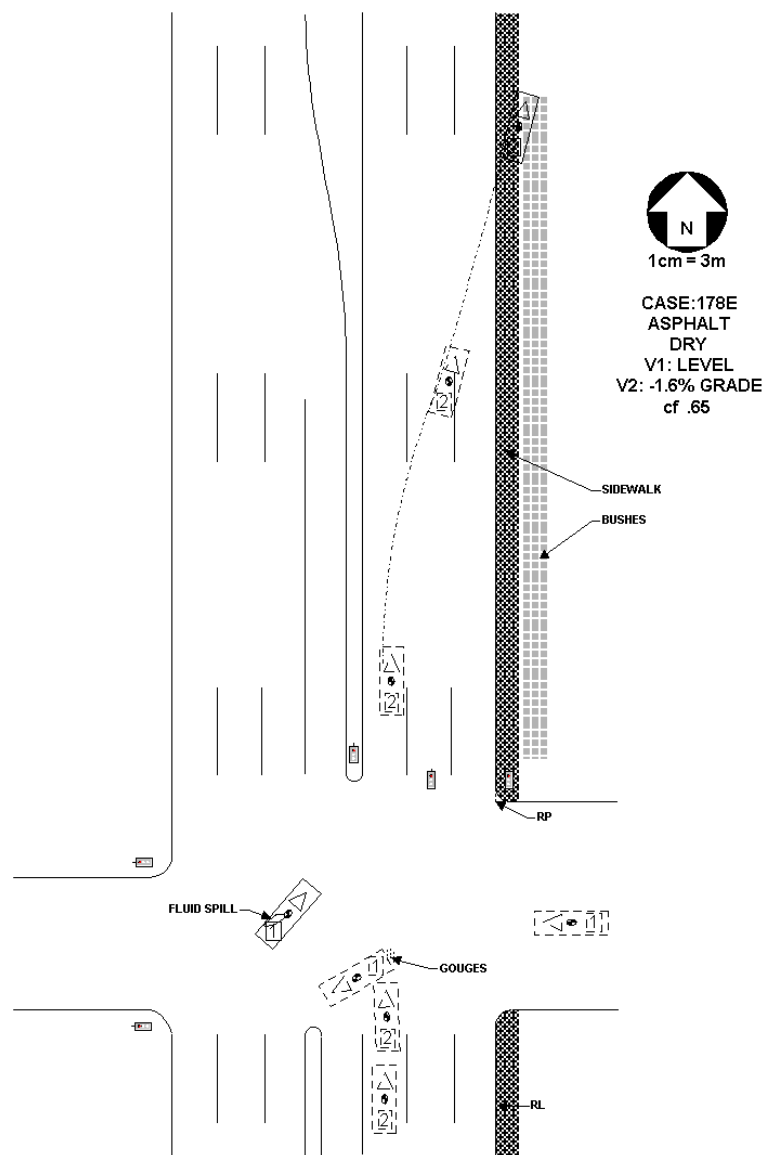
Occupant	1999-49-15-1-5
MAIS	0=None
Seat Position	Second right

AIS Level	Injury Description	Contacts
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53 Case 1999-49-178

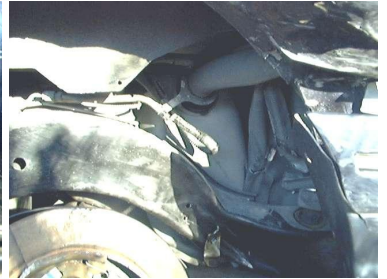
Summary:

VEHICLE 1 WAS TRAVELING WEST FROM A PARKING LOT AND ATEMPTING TO TURN LEFT AT AN INTERSECTION. VEHICILE 2 WAS TRAVELING NORTH IN THE LEFT LANE OF A FOUR LANE (INCLUDING LEFT TURN LANE) ROADWAY APPROACHING THE SAME INTERSECTION. THE FRONT OF VEHICLE 2 IMPACTED THE LEFT REAR OF VEHICLE 1. VEHICLE 1 ROTATED COUNTERCLOCKWISE APPROXIMATELY 210 DEGRSS AND CAME TO REST IN THE SOUTH BOUND LANES FACING NORTHEAST. VEHICLE 2 CONTINUED NORTHWARD AFTER IMPACT AND DEPARTED THE ROADWAY ON THE RIGHT SIDE AND CAME TO REST IN A ROW OF BUSHES. BOTH VEHICLES WERE TOWED AND ALL OCCUPANTS OF VEHICLE 1 WERE TRANSPORTED AND RELEASED. THERE WERE NO INJURIES REPORTED IN VEHICLE 2.



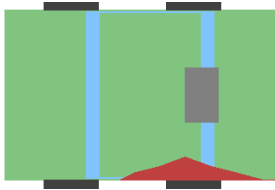
Vehicle	Body type	Make	Model	Year	Occ. Age	Occupant's sex	Maximum known occupant ais
1	4-DR SEDAN/HDTOP	Mercury	Marquis/Monterey	1997	42	MALE	2=Moderate
1	4-DR SEDAN/HDTOP	Mercury	Marquis/Monterey	1997	12	FEMALE-NOT PREG	1=Minor
1	4-DR SEDAN/HDTOP	Mercury	Marquis/Monterey	1997	16	FEMALE-NOT PREG	1=Minor
1	4-DR SEDAN/HDTOP	Mercury	Marquis/Monterey	1997	20	MALE	1=Minor
2	4-DR SEDAN/HDTOP	Ford	Taurus	1998	17	MALE	0=None
2	4-DR SEDAN/HDTOP	Ford	Taurus	1998	34	MALE	0=None

Occupant: 1999-49-178-1-1



Fire Information

Fire Occurrence	No fire
Fire Origin	No fire
Location of Fuel Leakage	Other
Type of Fuel Tank	Metallic
Fuel Tank Location	Behind rear axle, centered
Fuel Cap Location	Left side, behind rear axle
Fuel Tank Damage	Other damage
Fuel Type	Gasoline



Pre-Crash Environment

Traffic Flow	Not DIVIDED
Number of Travel Lanes	TWO
Roadway Alignment	STRAIGHT
Roadway Profile	LEVEL
Roadway Surface Type	ASPHALT
Roadway Surface Condition	DRY
Light Conditions	DAYLIGHT
Atmospheric Conditions	No ADVERSE COND
Relation to Intersection	INTERSECTION REL
Traffic Control Device	
Police Reported Alcohol Presence	No ALCOHOL
Alcohol Test (< 95 indicates BAC 0.xx)	0

Crash Severity

Nr. Quarter Turns	No rollover
Impact Speed	998
Total, Longitudal, and Lateral δV	17 -11 13
Est. δV with sequence number	DELTA V CODED 1
CDC	10 L Z E W 3
Damage (C1-C6)	10 20 34 21 10 0
Crush (L and D)	230 -161
Object Contacted 1	VEHICLE NO. 2
Object Contacted 2	0

NASS Weighting Factor

Weighting factor	120.67908929
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Rollover Characteristics

Number of Events	1
Rollover Initiation Type	No rollover
Location of Rollover Initiation	No rollover
Rollover Initiation Object Contacted	No rollover
Location on Vehicle where Principal Tripping Force was Applied	No rollover
Direction of Initial Roll	No rollover

Vehicle Factors

Make-Model	Mercury Marquis/Monterey
Year	1997
Class	PASSENGER CAR
Body Type	4-DR SEDAN/HDTOP
Weight	172

Pre-Crash Driver Data

Accident Type	82
Pre-event Movement	TURNING LEFT
Critical Pre-crash Event	XING ST-X PATH
Attempted Avoidance Manuever	No AVOIDANCE
Pre-impact Stability	TRACKING
Pre-impact Location	STAYED IN LANE

DRIVER Factors

Age	42	Height	183	Weight	91
Gender			MALE		
Ejection			No EJECTION		
Ejection Area			No EJECTION		
Entrapment			Not ENTRAPPED		

Restraint Factors

Restrain	Lap and shoulder
AOPS	YES-RES DET
Airbag Deployment	BAG DEPLOYED
Airbag Deployment - 1 st Seat	DR
PAS BAG DEPLY	
Airbag Deployment - Oth Seat	Not EQUIP W/ OTH

Injuries

Occupant	1999-49-178-1-1
MAIS	2=Moderate
Seat Position	Front left side

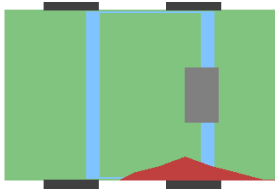
AIS Level	Injury Description	Contacts
2=Moderate	Clavicle fracture	Belt webb/buckle
1=Minor	Rib cage contusion	Air bag-DR side
1=Minor	Facial skin contusion	Air bag-DR side
1=Minor	Carpal-metacarpal or MCP joint sprain	Air bag-DR side

Occupant: 1999-49-178-1-2



Fire Information

Fire Occurrence	No fire
Fire Origin	No fire
Location of Fuel Leakage	Other
Type of Fuel Tank	Metallic
Fuel Tank Location	Behind rear axle, centered
Fuel Cap Location	Left side, behind rear axle
Fuel Tank Damage	Other damage
Fuel Type	Gasoline



Pre-Crash Environment

Traffic Flow	Not DIVIDED
Number of Travel Lanes	TWO
Roadway Alignment	STRAIGHT
Roadway Profile	LEVEL
Roadway Surface Type	ASPHALT
Roadway Surface Condition	DRY
Light Conditions	DAYLIGHT
Atmospheric Conditions	No ADVERSE COND
Relation to Intersection	INTERSECTION REL
Traffic Control Device	
Police Reported Alcohol Presence	No ALCOHOL
Alcohol Test (< 95 indicates BAC 0.xx)	0

Crash Severity

Nr. Quarter Turns	No rollover
Impact Speed	998
Total, Longitudal, and Lateral δV	17 -11 13
Est. δV with sequence number	DELTA V CODED 1
CDC	10 L Z E W 3
Damage (C1-C6)	10 20 34 21 10 0
Crush (L and D)	230 -161
Object Contacted 1	VEHICLE NO. 2
Object Contacted 2	0

NASS Weighting Factor

Weighting factor	120.67908929
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Rollover Characteristics

Number of Events	1
Rollover Initiation Type	No rollover
Location of Rollover Initiation	No rollover
Rollover Initiation Object Contacted	No rollover
Location on Vehicle where Principal Tripping Force was Applied	No rollover
Direction of Initial Roll	No rollover

Vehicle Factors

Make-Model	Mercury Marquis/Monterey
Year	1997
Class	PASSENGER CAR
Body Type	4-DR SEDAN/HDTOP
Weight	172

Pre-Crash Driver Data

Accident Type	82
Pre-event Movement	TURNING LEFT
Critical Pre-crash Event	XING ST-X PATH
Attempted Avoidance Manuever	No AVOIDANCE
Pre-impact Stability	TRACKING
Pre-impact Location	STAYED IN LANE

PASSENGER Factors

Age	12	Height	165	Weight	54
Gender					FEMALE-NOT PREG
Ejection					No EJECTION
Ejection Area					No EJECTION
Entrapment					Not ENTRAPPED

Restraint Factors

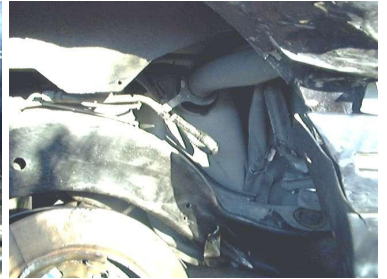
Restrain	Lap and shoulder
AOPS	YES-RES DET
Airbag Deployment	BAG DEPLOYED
Airbag Deployment - 1 st Seat	DR
PAS BAG DEPLY	
Airbag Deployment - Oth Seat	Not EQUIP W/ OTH

Injuries

Occupant	1999-49-178-1-2
MAIS	1=Minor
Seat Position	Front right side

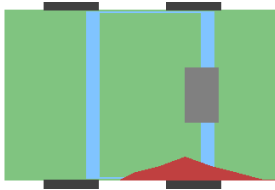
AIS Level	Injury Description	Contacts
1=Minor	Acute cervical spine strain without fracture or dislocation	Belt webb/buckle

Occupant: 1999-49-178-1-3



Fire Information

Fire Occurrence	No fire
Fire Origin	No fire
Location of Fuel Leakage	Other
Type of Fuel Tank	Metallic
Fuel Tank Location	Behind rear axle, centered
Fuel Cap Location	Left side, behind rear axle
Fuel Tank Damage	Other damage
Fuel Type	Gasoline



Pre-Crash Environment

Traffic Flow	Not DIVIDED
Number of Travel Lanes	TWO
Roadway Alignment	STRAIGHT
Roadway Profile	LEVEL
Roadway Surface Type	ASPHALT
Roadway Surface Condition	DRY
Light Conditions	DAYLIGHT
Atmospheric Conditions	No ADVERSE COND
Relation to Intersection	INTERSECTION REL
Traffic Control Device	
Police Reported Alcohol Presence	No ALCOHOL
Alcohol Test (< 95 indicates BAC 0.xx)	0

Crash Severity

Nr. Quarter Turns	No rollover
Impact Speed	998
Total, Longitudal, and Lateral δV	17 -11 13
Est. δV with sequence number	DELTA V CODED 1
CDC	10 L Z E W 3
Damage (C1-C6)	10 20 34 21 10 0
Crush (L and D)	230 -161
Object Contacted 1	VEHICLE NO. 2
Object Contacted 2	0

NASS Weighting Factor

Weighting factor	120.67908929
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Rollover Characteristics

Number of Events	1
Rollover Initiation Type	No rollover
Location of Rollover Initiation	No rollover
Rollover Initiation Object Contacted	No rollover
Location on Vehicle where Principal Tripping Force was Applied	No rollover
Direction of Initial Roll	No rollover

Vehicle Factors

Make-Model	Mercury Marquis/Monterey
Year	1997
Class	PASSENGER CAR
Body Type	4-DR SEDAN/HDTOP
Weight	172

Pre-Crash Driver Data

Accident Type	82
Pre-event Movement	TURNING LEFT
Critical Pre-crash Event	XING ST-X PATH
Attempted Avoidance Manuever	No AVOIDANCE
Pre-impact Stability	TRACKING
Pre-impact Location	STAYED IN LANE

PASSENGER Factors

Age	16	Height	160	Weight	45
Gender					FEMALE-NOT PREG
Ejection					No EJECTION
Ejection Area					No EJECTION
Entrapment					JAMMED DOOR/FIRE

Restraint Factors

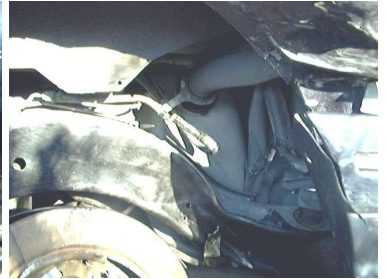
Restrain	Lap and shoulder
AOPS	YES-RES DET
Airbag Deployment	Not EQUIP/AVAIL
Airbag Deployment - 1 st Seat	DR
PAS BAG DEPLY	
Airbag Deployment - Oth Seat	Not EQUIP W/ OTH

Injuries

Occupant	1999-49-178-1-3
MAIS	1=Minor
Seat Position	Second left

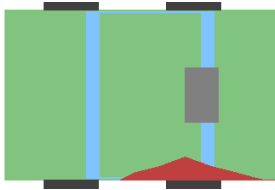
AIS Level	Injury Description	Contacts
1=Minor	Shoulder sprain (glenohumeral joint)	Belt webb/buckle
1=Minor	Teeth injury NFS	Oth left pillar
1=Minor	Nose fracture NFS	Oth left pillar

Occupant: 1999-49-178-1-4



Fire Information

Fire Occurrence	No fire
Fire Origin	No fire
Location of Fuel Leakage	Other
Type of Fuel Tank	Metallic
Fuel Tank Location	Behind rear axle, centered
Fuel Cap Location	Left side, behind rear axle
Fuel Tank Damage	Other damage
Fuel Type	Gasoline



Pre-Crash Environment

Traffic Flow	Not DIVIDED
Number of Travel Lanes	TWO
Roadway Alignment	STRAIGHT
Roadway Profile	LEVEL
Roadway Surface Type	ASPHALT
Roadway Surface Condition	DRY
Light Conditions	DAYLIGHT
Atmospheric Conditions	No ADVERSE COND
Relation to Intersection	INTERSECTION REL
Traffic Control Device	
Police Reported Alcohol Presence	No ALCOHOL
Alcohol Test (< 95 indicates BAC 0.xx)	0

Crash Severity

Nr. Quarter Turns	No rollover
Impact Speed	998
Total, Longitudal, and Lateral δV	17 -11 13
Est. δV with sequence number	DELTA V CODED 1
CDC	10 L Z E W 3
Damage (C1-C6)	10 20 34 21 10 0
Crush (L and D)	230 -161
Object Contacted 1	VEHICLE NO. 2
Object Contacted 2	0

NASS Weighting Factor

Weighting factor	120.67908929
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Rollover Characteristics

Number of Events	1
Rollover Initiation Type	No rollover
Location of Rollover Initiation	No rollover
Rollover Initiation Object Contacted	No rollover
Location on Vehicle where Principal Tripping Force was Applied	No rollover
Direction of Initial Roll	No rollover

Vehicle Factors

Make-Model	Mercury Marquis/Monterey
Year	1997
Class	PASSENGER CAR
Body Type	4-DR SEDAN/HDTOP
Weight	172

Pre-Crash Driver Data

Accident Type	82
Pre-event Movement	TURNING LEFT
Critical Pre-crash Event	XING ST-X PATH
Attempted Avoidance Manuever	No AVOIDANCE
Pre-impact Stability	TRACKING
Pre-impact Location	STAYED IN LANE

PASSENGER Factors

Age	20	Height	178	Weight	64
Gender					MALE
Ejection					No EJECTION
Ejection Area					No EJECTION
Entrapment					Not ENTRAPPED

Restraint Factors

Restrain	Lap and shoulder
AOPS	YES-RES DET
Airbag Deployment	Not EQUIP/AVAIL
Airbag Deployment - 1 st Seat	DR
PAS BAG DEPLY	
Airbag Deployment - Oth Seat	Not EQUIP W/ OTH

Injuries

Occupant	1999-49-178-1-4
MAIS	1=Minor
Seat Position	Second right

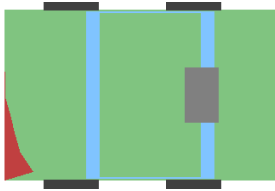
AIS Level	Injury Description	Contacts
1=Minor	Rib cage contusion	Belt webb/buckle

Occupant: 1999-49-178-2-1



Fire Information

Fire Occurrence	No fire
Fire Origin	No fire
Location of Fuel Leakage	No fuel leakage
Type of Fuel Tank	Metallic
Fuel Tank Location	Forward of rear axle, centered
Fuel Cap Location	Right side, behind rear axle
Fuel Tank Damage	No damage
Fuel Type	Gasoline



Pre-Crash Environment

Traffic Flow	DVDED/NO BARRIER
Number of Travel Lanes	FOUR
Roadway Alignment	STRAIGHT
Roadway Profile	LEVEL
Roadway Surface Type	ASPHALT
Roadway Surface Condition	DRY
Light Conditions	DAYLIGHT
Atmospheric Conditions	No ADVERSE COND
Relation to Intersection	INTERSECTION REL
Traffic Control Device	
Police Reported Alcohol Presence	No ALCOHOL
Alcohol Test (< 95 indicates BAC 0.xx)	0

Vehicle Factors

Make-Model	Ford Taurus
Year	1998
Class	PASSENGER CAR
Body Type	4-DR SEDAN/HDTOP
Weight	151

Crash Severity

Nr. Quarter Turns	No rollover
Impact Speed	998
Total, Longitudal, and Lateral δV	21 -21 -4
Est. δV with sequence number	DELTA V CODED 1
CDC	12 F Y E W 2
Damage (C1-C6)	42 23 15 9 2 2
Crush (L and D)	160 -40
Object Contacted 1	VEHICLE NO. 1
Object Contacted 2	0

Pre-Crash Driver Data

Accident Type	83
Pre-event Movement	GOING STRAIGHT
Critical Pre-crash Event	CROSS OVER INTER
Attempted Avoidance Manuever	BRAKE W/O LOCKUP
Pre-impact Stability	TRACKING
Pre-impact Location	STAYED IN LANE

NASS Weighting Factor

Weighting factor	120.67908929
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DRIVER Factors

Age	17	Height	173	Weight	64
Gender			MALE		
Ejection			No EJECTION		
Ejection Area			No EJECTION		
Entrapment			Not ENTRAPPED		

Rollover Characteristics

Number of Events	1
Rollover Initiation Type	No rollover
Location of Rollover Initiation	No rollover
Rollover Initiation Object Contacted	No rollover
Location on Vehicle where Principal Tripping Force was Applied	No rollover
Direction of Initial Roll	No rollover

Restraint Factors

Restrain	Lap and shoulder
AOPS	YES-RES DET
Airbag Deployment	BAG DEPLOYED
Airbag Deployment - 1 st Seat	DR
PAS BAG DEPLY	
Airbag Deployment - Oth Seat	Not EQUIP W/ OTH

Injuries

Occupant	1999-49-178-2-1
MAIS	0=None
Seat Position	Front left side

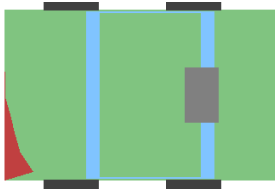
AIS Level	Injury Description	Contacts
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Occupant: 1999-49-178-2-2



Fire Information

Fire Occurrence	No fire
Fire Origin	No fire
Location of Fuel Leakage	No fuel leakage
Type of Fuel Tank	Metallic
Fuel Tank Location	Forward of rear axle, centered
Fuel Cap Location	Right side, behind rear axle
Fuel Tank Damage	No damage
Fuel Type	Gasoline



Pre-Crash Environment

Traffic Flow	DVDED/NO BARRIER
Number of Travel Lanes	FOUR
Roadway Alignment	STRAIGHT
Roadway Profile	LEVEL
Roadway Surface Type	ASPHALT
Roadway Surface Condition	DRY
Light Conditions	DAYLIGHT
Atmospheric Conditions	No ADVERSE COND
Relation to Intersection	INTERSECTION REL
Traffic Control Device	
Police Reported Alcohol Presence	No ALCOHOL
Alcohol Test (< 95 indicates BAC 0.xx)	0

Vehicle Factors

Make-Model	Ford Taurus
Year	1998
Class	PASSENGER CAR
Body Type	4-DR SEDAN/HDTOP
Weight	151

Crash Severity

Nr. Quarter Turns	No rollover
Impact Speed	998
Total, Longitudal, and Lateral δV	21 -21 -4
Est. δV with sequence number	DELTA V CODED 1
CDC	12 F Y E W 2
Damage (C1-C6)	42 23 15 9 2 2
Crush (L and D)	160 -40
Object Contacted 1	VEHICLE NO. 1
Object Contacted 2	0

Pre-Crash Driver Data

Accident Type	83
Pre-event Movement	GOING STRAIGHT
Critical Pre-crash Event	CROSS OVER INTER
Attempted Avoidance Manuever	BRAKE W/O LOCKUP
Pre-impact Stability	TRACKING
Pre-impact Location	STAYED IN LANE

NASS Weighting Factor

Weighting factor	120.67908929
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PASSENGER Factors

Age	34	Height	183	Weight	82
Gender			MALE		
Ejection			No EJECTION		
Ejection Area			No EJECTION		
Entrapment			Not ENTRAPPED		

Rollover Characteristics

Number of Events	1
Rollover Initiation Type	No rollover
Location of Rollover Initiation	No rollover
Rollover Initiation Object Contacted	No rollover
Location on Vehicle where Principal Tripping Force was Applied	No rollover
Direction of Initial Roll	No rollover

Restraint Factors

Restrain	Lap and shoulder
AOPS	YES-RES DET
Airbag Deployment	BAG DEPLOYED
Airbag Deployment - 1 st Seat	DR
PAS BAG DEPLY	
Airbag Deployment - Oth Seat	Not EQUIP W/ OTH

Injuries

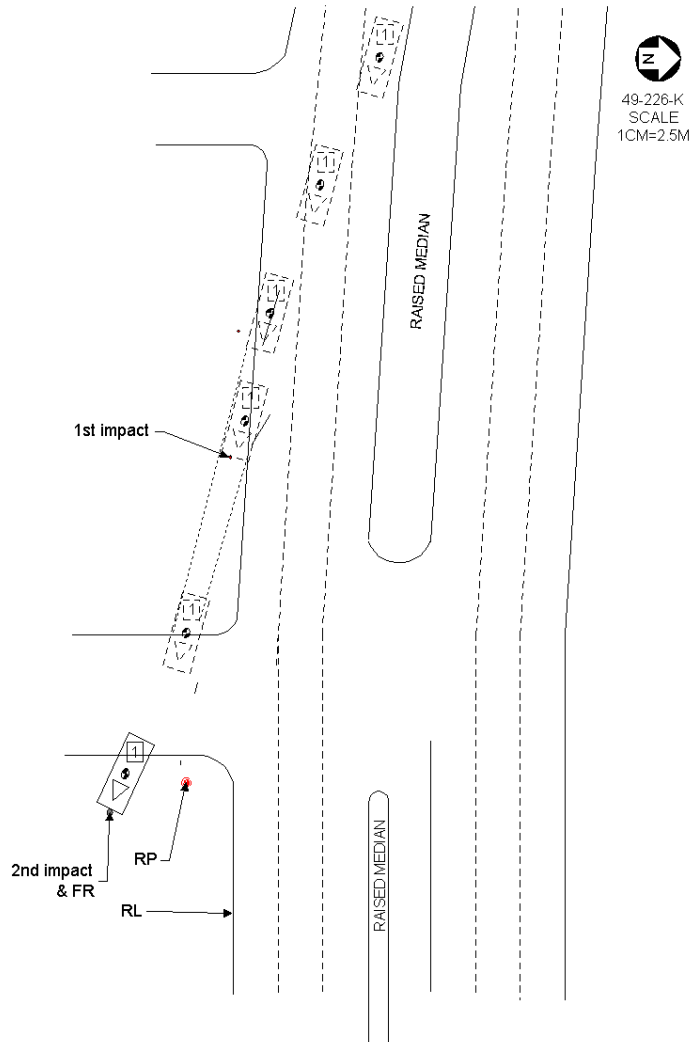
Occupant	1999-49-178-2-2
MAIS	0=None
Seat Position	Front right side

AIS Level	Injury Description	Contacts
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54 Case 1999-49-226

Summary:

Vehicle 1 was traveling east in the 3rd lane of a 3 lane divided roadway, negotiating a slight curve to the left. Vehicle 1 crossed lanes 1 2 of the east roadway and left the right side of the roadway. The front of vehicle 1 impacted a small wooden pole and then continued on across the entry way of a cul-de-sac, and the front impacted a tree on the Se corner of the cul-de-sac entrance. Vehicle 1 came to rest upon impact of the tree. Vehicle 1 was towed and the driver was transported.



Vehicle	Body type	Make	Model	Year	Occ.#	Age	Occupant's sex	Maximum known occupant ais
1	4-DR SEDAN/HDTOP	Ford	Crown Victoria	1998	1	26	MALE	3=Serious

Occupant: 1999-49-226-1-1



Fire Information

Fire Occurrence	Minor fire
Fire Origin	Engine compart
Location of Fuel Leakage	No fuel leakage
Type of Fuel Tank	Metallic
Fuel Tank Location	Behind rear axle, centered
Fuel Cap Location	Left side, behind rear axle
Fuel Tank Damage	No damage
Fuel Type	Gasoline



Crash Severity

Nr. Quarter Turns	No rollover
Impact Speed	< 0.5KMPH
Total, Longitudal, and Lateral δV	< 0.5 KMPH < 0.5 KMPH <
Est. δV with sequence number	0.5 KMPH
CDC	SEVERE 2
Damage (C1-C6)	12 F 9 9 9 0
Crush (L and D)	24 55 64 48 27 2
Object Contacted 1	158 -16
Object Contacted 2	SMALL TREE
	Unk SIZE POLE

NASS Weighting Factor

Weighting factor	10.916550219
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Rollover Characteristics

Number of Events	3
Rollover Initiation Type	No rollover
Location of Rollover Initiation	No rollover
Rollover Initiation Object Contacted	No rollover
Location on Vehicle where Principal Tripping Force was Applied	No rollover
Direction of Initial Roll	No rollover

Pre-Crash Environment

Traffic Flow	DVDED/NO BARRIER
Number of Travel Lanes	THREE
Roadway Alignment	CURVE LEFT
Roadway Profile	DOWNHILL GRADE
Roadway Surface Type	ASPHALT
Roadway Surface Condition	DRY
Light Conditions	DARK/LIGHTED
Atmospheric Conditions	No ADVERSE COND
Relation to Intersection	NONINTER/NONJUNC
Traffic Control Device	
Police Reported Alcohol Presence	No ALCOHOL
Alcohol Test (< 95 indicates BAC 0.xx)	0

Vehicle Factors

Make-Model	Ford Crown Victoria
Year	1998
Class	PASSENGER CAR
Body Type	4-DR SEDAN/HDTOP
Weight	172

Pre-Crash Driver Data

Accident Type	1
Pre-event Movement	NEGOTIATE CURVE
Critical Pre-crash Event	OFF EDGE-RIGHT
Attempted Avoidance Manuever	No DRIVER
Pre-impact Stability	TRACKING
Pre-impact Location	DEPARTED ROADWAY

DRIVER Factors

Age	26	Height	183	Weight	86
Gender			MALE		
Ejection			No EJECTION		
Ejection Area			No EJECTION		
Entrapment			Not ENTRAPPED		

Restraint Factors

Restrain	Lap and shoulder
AOPS	YES-RES DET
Airbag Deployment	BAG DEPLOYED
Airbag Deployment - 1 st Seat	DR
PAS BAG DEPLY	
Airbag Deployment - Oth Seat	Not EQUIP W/ OTH

Injuries

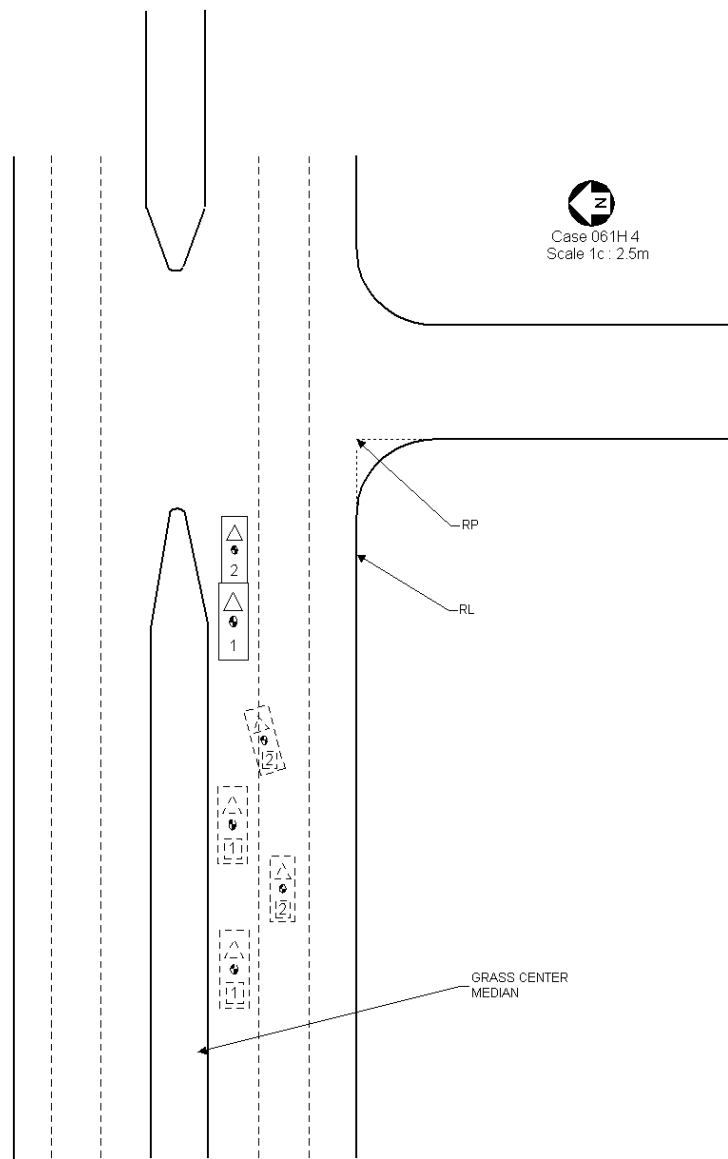
Occupant	1999-49-226-1-1
MAIS	3=Serious
Seat Position	Front left side

AIS Level	Injury Description	Contacts
3=Serious	Femoral shaft fracture	Steering rim

55 Case 1999-49-61

Summary:

Vehicle 1 was EASTBOUND in the 3rd lane of a wet THIRD-lane concrete urban street approaching an intersection. VEHICLE 2 was EASTBOUND in the 2nd lane of the same street, in front of VEHICLE 1. VEHICLE 2 then moved into lane #3 and slowed to make a U-turn. VEHICLE 1 impacted front distributed to back distributed of VEHICLE 2. VEHICLE 1 was released to owner and VEHICLE 2 was towed due to damage, but no occupants of either vehicle were reported as injured.



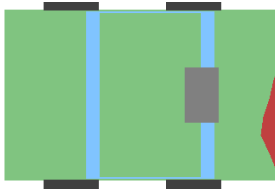
Vehicle	Body type	Make	Model	Year	Occ.#	Age	Occupant's sex	Maximum known occupant ais
2	2DR SEDAN/HT/CPE	Ford	Mustang/Mustang II	1966	1	26	MALE	1=Minor
2	2DR SEDAN/HT/CPE	Ford	Mustang/Mustang II	1966	2	18	MALE	0=None

Occupant: 1999-49-61-2-1



Fire Information

Fire Occurrence	No fire
Fire Origin	No fire
Location of Fuel Leakage	Tank
Type of Fuel Tank	Metallic
Fuel Tank Location	Behind rear axle, centered
Fuel Cap Location	On back plane
Fuel Tank Damage	Deform+seam fail
Fuel Type	Gasoline



Crash Severity

Nr. Quarter Turns	No rollover
Impact Speed	998
Total, Longitudal, and Lateral δV	18 18 < 0.5 KMPH
Est. δV with sequence number	DELTA V CODED 1
CDC	6 B D E W 2
Damage (C1-C6)	0 11 23 20 11 5
Crush (L and D)	160 32
Object Contacted 1	VEHICLE NO. 1
Object Contacted 2	0

NASS Weighting Factor

Weighting factor	630.5771715
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Rollover Characteristics

Number of Events	1
Rollover Initiation Type	No rollover
Location of Rollover Initiation	No rollover
Rollover Initiation Object Contacted	No rollover
Location on Vehicle where Principal Tripping Force was Applied	No rollover
Direction of Initial Roll	No rollover

Pre-Crash Environment

Traffic Flow	DVDED/NO BARRIER
Number of Travel Lanes	THREE
Roadway Alignment	STRAIGHT
Roadway Profile	LEVEL
Roadway Surface Type	CONCRETE
Roadway Surface Condition	WET
Light Conditions	DAYLIGHT
Atmospheric Conditions	RAIN
Relation to Intersection	INTERSECTION REL
Traffic Control Device	
Police Reported Alcohol Presence	No ALCOHOL
Alcohol Test (< 95 indicates BAC 0.xx)	0

Vehicle Factors

Make-Model	Ford Mustang/Mustang II
Year	1966
Class	PASSENGER CAR
Body Type	2DR SEDAN/HT/CPE
Weight	129

Pre-Crash Driver Data

Accident Type	21
Pre-event Movement	STOPPED IN LANE
Critical Pre-crash Event	Same DIR-HISPEED
Attempted Avoidance Manuever	No AVOIDANCE
Pre-impact Stability	TRACKING
Pre-impact Location	STAYED IN LANE

DRIVER Factors

Age	26	Height	193	Weight	149.5KG AND OVER
Gender					MALE
Ejection					No EJECTION
Ejection Area					No EJECTION
Entrapment					Not ENTRAPPED

Restraint Factors

Restrain	None used/avail
AOPS	NO
Airbag Deployment	Not EQUIP/AVAIL
Airbag Deployment - 1 st Seat	Not EQUIP/AVAIL
Airbag Deployment - Oth Seat	Not EQUIP W/ OTH

Injuries

Occupant	1999-49-61-2-1
MAIS	1=Minor
Seat Position	Front left side

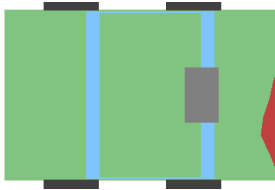
AIS Level	Injury Description	Contacts
1=Minor	Scalp abrasion	Roof

Occupant: 1999-49-61-2-2



Fire Information

Fire Occurrence	No fire
Fire Origin	No fire
Location of Fuel Leakage	Tank
Type of Fuel Tank	Metallic
Fuel Tank Location	Behind rear axle, centered
Fuel Cap Location	On back plane
Fuel Tank Damage	Deform+seam fail
Fuel Type	Gasoline



Pre-Crash Environment

Traffic Flow	DVDED/NO BARRIER
Number of Travel Lanes	THREE
Roadway Alignment	STRAIGHT
Roadway Profile	LEVEL
Roadway Surface Type	CONCRETE
Roadway Surface Condition	WET
Light Conditions	DAYLIGHT
Atmospheric Conditions	RAIN
Relation to Intersection	INTERSECTION REL
Traffic Control Device	
Police Reported Alcohol Presence	No ALCOHOL
Alcohol Test (< 95 indicates BAC 0.xx)	0

Crash Severity

Nr. Quarter Turns	No rollover
Impact Speed	998
Total, Longitudal, and Lateral δV	18 18 < 0.5 KMPH
Est. δV with sequence number	DELTA V CODED 1
CDC	6 B D E W 2
Damage (C1-C6)	0 11 23 20 11 5
Crush (L and D)	160 32
Object Contacted 1	VEHICLE NO. 1
Object Contacted 2	0

NASS Weighting Factor

Weighting factor	630.5771715
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Rollover Characteristics

Number of Events	1
Rollover Initiation Type	No rollover
Location of Rollover Initiation	No rollover
Rollover Initiation Object Contacted	No rollover
Location on Vehicle where Principal Tripping Force was Applied	No rollover
Direction of Initial Roll	No rollover

Vehicle Factors

Make-Model	Ford Mustang/Mustang II
Year	1966
Class	PASSENGER CAR
Body Type	2DR SEDAN/HT/CPE
Weight	129

Pre-Crash Driver Data

Accident Type	21
Pre-event Movement	STOPPED IN LANE
Critical Pre-crash Event	Same DIR-HISPEED
Attempted Avoidance Manuever	No AVOIDANCE
Pre-impact Stability	TRACKING
Pre-impact Location	STAYED IN LANE

PASSENGER Factors

Age	18	Height	170	Weight	68
Gender					MALE
Ejection					No EJECTION
Ejection Area					No EJECTION
Entrapment					Not ENTRAPPED

Restraint Factors

Restrain	None used/avail
AOPS	NO
Airbag Deployment	Not EQUIP/AVAIL
Airbag Deployment - 1 st Seat	Not EQUIP/AVAIL
Airbag Deployment - Oth Seat	Not EQUIP W/ OTH

Injuries

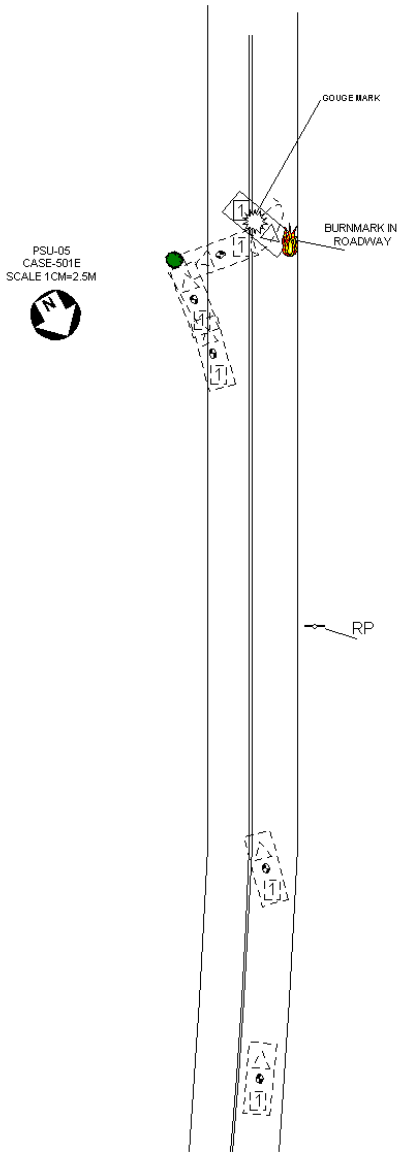
Occupant	1999-49-61-2-2
MAIS	0=None
Seat Position	Front right side

AIS Level	Injury Description	Contacts
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56 Case 1999-5-501

Summary:

V1 was traveling southbound on a two lane undivided roadway. As V1 exited a left curve, it traveled across the northbound road and traveled off the roadway impacting a tree with its front bumper. After impact V1 rotated counter clockwise before traveling to final rest in the middle of the roadway. At impact, the fuel line ruptured spraying fuel on the manifold causing V1 to catch on fire. The compartment area was completely burned. The driver was able to exit the vehicle before the fire started. V1 was towed from the scene and the driver was transported to an area hospital for treatment.



Vehicle	Body type	Make	Model	Year	Occ.#	Age	Occupant's sex	Maximum known occupant ais
1	4-DR SEDAN/HDTOP	Nissan	Altima	1999	1	29	MALE	1=Minor

Occupant: 1999-5-501-1-1



Fire Information

Fire Occurrence	Major fire
Fire Origin	Engine compartment
Location of Fuel Leakage	Line/pump/filter
Type of Fuel Tank	Non-metallic
Fuel Tank Location	Forward of rear axle, centered
Fuel Cap Location	Left side, behind rear axle
Fuel Tank Damage	No damage
Fuel Type	Gasoline



Pre-Crash Environment

Traffic Flow	Not DIVIDED
Number of Travel Lanes	TWO
Roadway Alignment	CURVE LEFT
Roadway Profile	LEVEL
Roadway Surface Type	ASPHALT
Roadway Surface Condition	WET
Light Conditions	DAYLIGHT
Atmospheric Conditions	No ADVERSE COND
Relation to Intersection	NONINTER/NONJUNC
Traffic Control Device	
Police Reported Alcohol Presence	No ALCOHOL
Alcohol Test (< 95 indicates BAC 0.xx)	0

Crash Severity

Nr. Quarter Turns	No rollover
Impact Speed	998
Total, Longitudal, and Lateral δV	52 -51 -9
Est. δV with sequence number	DELTA V CODED 1
CDC	92 F Z E W 3
Damage (C1-C6)	10 24 40 66 71 30
Crush (L and D)	155 35
Object Contacted 1	LARGE TREE
Object Contacted 2	0

NASS Weighting Factor

Weighting factor	0
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Rollover Characteristics

Number of Events	2
Rollover Initiation Type	No rollover
Location of Rollover Initiation	No rollover
Rollover Initiation Object Contacted	No rollover
Location on Vehicle where Principal Tripping Force was Applied	No rollover
Direction of Initial Roll	No rollover

Vehicle Factors

Make-Model	Nissan Altima
Year	1999
Class	PASSENGER CAR
Body Type	4-DR SEDAN/HDTOP
Weight	130

Pre-Crash Driver Data

Accident Type	7
Pre-event Movement	NEGOTIATE CURVE
Critical Pre-crash Event	OFF EDGE-LEFT
Attempted Avoidance Manuever	No DRIVER
Pre-impact Stability	No DRIVER
Pre-impact Location	DEPARTED ROADWAY

DRIVER Factors

Age	29	Height	0	Weight	94
Gender					MALE
Ejection					No EJECTION
Ejection Area					No EJECTION
Entrapment					Not ENTRAPPED

Restraint Factors

Restrain	Lap and shoulder
AOPS	YES-RES DET
Airbag Deployment	BAG DEPLOY UNDET
Airbag Deployment - 1 st Seat	BAG DEP DET UNK
Airbag Deployment - Oth Seat	Not EQUIP W/ OTH

Injuries

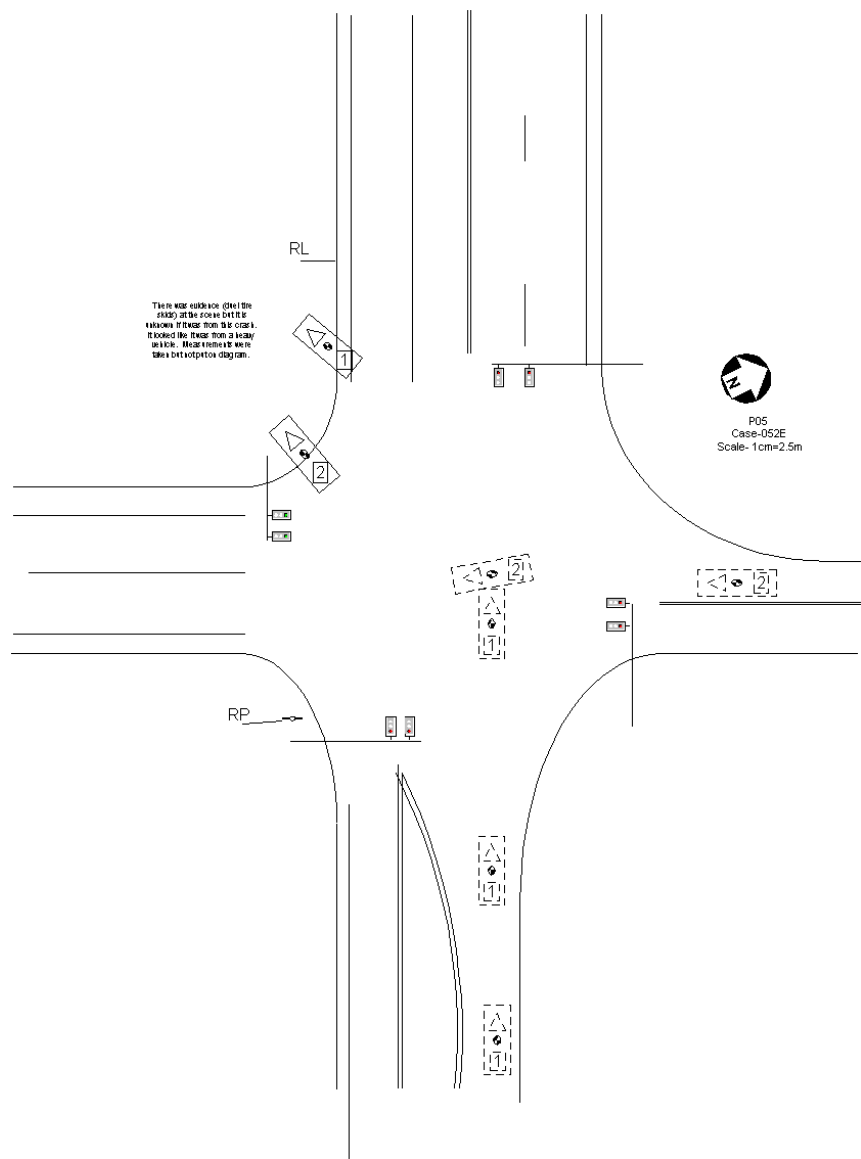
Occupant	1999-5-501-1-1
MAIS	1=Minor
Seat Position	Front left side

AIS Level	Injury Description	Contacts
1=Minor	Leg skin abrasion	Unknown SOURCE
1=Minor	Leg skin laceration, minor	Unknown SOURCE
1=Minor	Thoracic skin abrasion	Unknown SOURCE
1=Minor	Abdominal skin abrasion	Unknown SOURCE

57 Case 1999-5-52

Summary:

V1 was traveling westbound on a two lane undivided roadway. V2 was traveling southbound on a two lane undivided roadway. As V2 entered the intersection attempting to make a left turn it was impacted on the left side by the front of V1. After impact, both vehicles traveled in a southeasterly direction to final rest. V1 and V2 were both towed from the scene and the driver of V2 was transported to a local hospital for treatment.



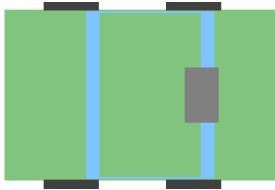
Vehicle #	Body type	Make	Model	Year	Occ. #	Age	Occupant's sex	Maximum known occupant ais
1	LARGE PICKUP	Dodge	"D,W-series "	1994	1	48	MALE	0=None
2	MINIVAN	Plymouth	Voyager Minivan	1996	1	39	FEMALE-NOT PREG	3=Serious

Occupant: 1999-5-52-1-1



Fire Information

Fire Occurrence	No data
Fire Origin	No data
Location of Fuel Leakage	No data
Type of Fuel Tank	No data
Fuel Tank Location	No data
Fuel Cap Location	No data
Fuel Tank Damage	No data
Fuel Type	No data



Crash Severity

Nr. Quarter Turns	No rollover
Impact Speed	< 0.5KMPH
Total, Longitudal, and Lateral δV	< 0.5 KMPH < 0.5 KMPH < 0.5 KMPH
Est. δV with sequence number	DELTA V CODED 0
CDC	No data No data No data No data
Damage (C1-C6)	No data No data No data No data
Crush (L and D)	No data No data
Object Contacted 1	No data
Object Contacted 2	No data

NASS Weighting Factor

Weighting factor	343.40861382
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Rollover Characteristics

Number of Events	1
Rollover Initiation Type	No rollover
Location of Rollover Initiation	No rollover
Rollover Initiation Object	No rollover
Contacted	
Location on Vehicle where Principal Tripping Force was Applied	No rollover
Direction of Initial Roll	No rollover

Pre-Crash Environment

Traffic Flow	Not DIVIDED
Number of Travel Lanes	TWO
Roadway Alignment	STRAIGHT
Roadway Profile	LEVEL
Roadway Surface Type	ASPHALT
Roadway Surface Condition	WET
Light Conditions	DARK
Atmospheric Conditions	RAIN
Relation to Intersection	INTERSECTION REL
Traffic Control Device	
Police Reported Alcohol Presence	ALCOHOL PRESENT
Alcohol Test (< 95 indicates BAC 0.xx)	4

Vehicle Factors

Make-Model	Dodge "D,W-series "
Year	1994
Class	Unknown
Body Type	LARGE PICKUP
Weight	0

Pre-Crash Driver Data

Accident Type	83
Pre-event Movement	GOING STRAIGHT
Critical Pre-crash Event	CROSS OVER INTER
Attempted Avoidance Maneuver	BRAKE W/ LOCKUP
Pre-impact Stability	LONGITUDINAL SKID
Pre-impact Location	STAYED IN LANE

DRIVER Factors

Age	48	Height	178	Weight	86
Gender			MALE		
Ejection			No EJECTION		
Ejection Area			No EJECTION		
Entrapment			Not ENTRAPPED		

Restraint Factors

Restrain		Lap and shoulder
AOPS		YES-RES DET
Airbag Deployment		NONDEPLOYED
Airbag Deployment - 1 st Seat		NONDEPLOYED
Airbag Deployment - Oth Seat		Not EQUIP W/ OTH

Injuries

Occupant	1999-5-52-1-1
MAIS	0=None
Seat Position	Front left side

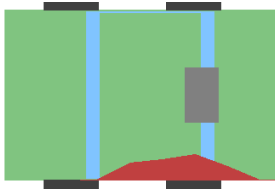
AIS Level	Injury Description	Contacts
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Occupant: 1999-5-52-2-1



Fire Information

Fire Occurrence	No fire
Fire Origin	No fire
Location of Fuel Leakage	Filler neck
Type of Fuel Tank	Non-metallic
Fuel Tank Location	Forward of rear axle, left side
Fuel Cap Location	Left side, forward rear axle
Fuel Tank Damage	Fill neck separation
Fuel Type	Gasoline



Pre-Crash Environment

Traffic Flow	Not DIVIDED
Number of Travel Lanes	TWO
Roadway Alignment	STRAIGHT
Roadway Profile	LEVEL
Roadway Surface Type	ASPHALT
Roadway Surface Condition	WET
Light Conditions	DARK
Atmospheric Conditions	RAIN
Relation to Intersection	INTERSECTION REL
Traffic Control Device	
Police Reported Alcohol Presence	No ALCOHOL
Alcohol Test (< 95 indicates BAC 0.xx)	0

Crash Severity

Nr. Quarter Turns	No rollover
Impact Speed	< 0.5KMPH
Total, Longitudal, and Lateral δV	< 0.5 KMPH < 0.5 KMPH < 0.5 KMPH
Est. δV with sequence number	DELTA V CODED 1
CDC	10 L Z A W 3
Damage (C1-C6)	0 25 30 38 20 0
Crush (L and D)	288 -48
Object Contacted 1	VEHICLE NO. 1
Object Contacted 2	0

NASS Weighting Factor

Weighting factor	343.40861382
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Rollover Characteristics

Number of Events	1
Rollover Initiation Type	No rollover
Location of Rollover Initiation	No rollover
Rollover Initiation Object Contacted	No rollover
Location on Vehicle where Principal Tripping Force was Applied	No rollover
Direction of Initial Roll	No rollover

Vehicle Factors

Make-Model	Plymouth Voyager Minivan
Year	1996
Class	PASSENGER CAR
Body Type	MINIVAN
Weight	156

Pre-Crash Driver Data

Accident Type	82
Pre-event Movement	TURNING LEFT
Critical Pre-crash Event	TURN LEFT-INTERS
Attempted Avoidance Manuever	No AVOIDANCE
Pre-impact Stability	TRACKING
Pre-impact Location	STAYED IN LANE

DRIVER Factors

Age	39	Height	158	Weight	73
Gender					FEMALE-NOT PREG
Ejection					No EJECTION
Ejection Area					No EJECTION
Entrapment					Not ENTRAPPED

Restraint Factors

Restrain	None used/avail
AOPS	YES-RES DET
Airbag Deployment	NONDEPLOYED
Airbag Deployment - 1 st Seat	NONDEPLOYED
Airbag Deployment - Oth Seat	Not EQUIP W/ OTH

Injuries

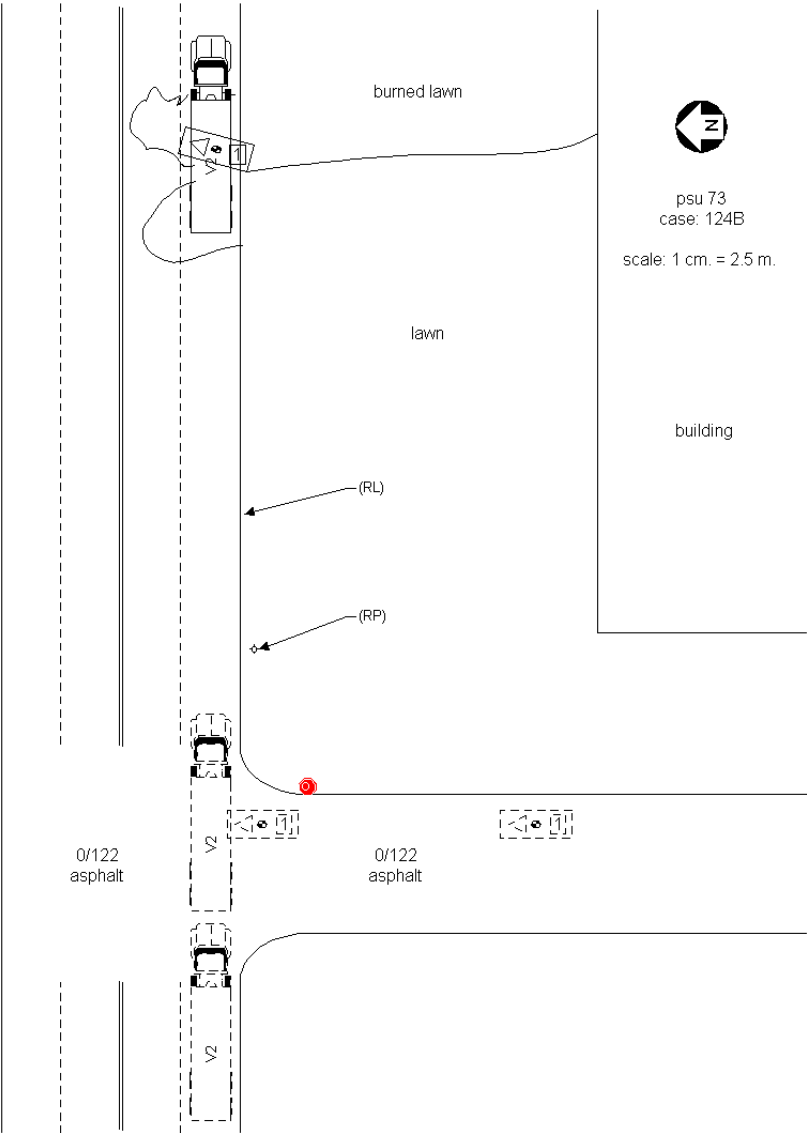
Occupant	1999-5-52-2-1
MAIS	3=Serious
Seat Position	Front left side

AIS Level	Injury Description	Contacts
1=Minor	Scalp contusion	Roof left rail
3=Serious	Cerebral contusion, single, small (<30ccs)	Roof left rail
1=Minor	Scalp contusion	Front header

58 Case 1999-73-124

Summary:

V1 was traveling north on a two way, two lane roadway in the northbound lane. V2 was traveling east on an intersecting two way, four lane roadway in the first eastbound lane. V1 struck the tanker trailer of V2 on the right side with the front end. V1 underrode the trailer striking a set of valves on the under side of the tanker trailer and broke one of the valves open. The tanker trailer was filled with fuel that ignited and caused a fire. V2 dragged V1 to final rest some distance east on the roadway V2 was traveling in the first lane before coming to final rest. V1 was completely burned from the fire. V1 was occupied by the driver and one passenger. Both expired at the scene. V2 (tractor-trailer) was occupied by the driver only. Both V1 and V2 were towed from the crash scene due to impact damage.



Vehicle	Body type	Make	Model	Year	Occ.#	Age	Occupant's sex	Maximum known occupant ais
1	3DR/2DR HATCHBAK	Eagle	Talon	1993	1	22	MALE	6=Maximum
1	3DR/2DR HATCHBAK	Eagle	Talon	1993	2	4	MALE	6=Maximum

Occupant: 1999-73-124-1-1



Fire Information

Fire Occurrence	Major fire
Fire Origin	Other location
Location of Fuel Leakage	Filler neck
Type of Fuel Tank	Metallic
Fuel Tank Location	Behind rear axle, centered
Fuel Cap Location	Left side, forward rear axle
Fuel Tank Damage	No damage
Fuel Type	Gasoline



Pre-Crash Environment

Traffic Flow	Not DIVIDED
Number of Travel Lanes	TWO
Roadway Alignment	STRAIGHT
Roadway Profile	LEVEL
Roadway Surface Type	ASPHALT
Roadway Surface Condition	DRY
Light Conditions	DAYLIGHT
Atmospheric Conditions	No ADVERSE COND
Relation to Intersection	INTERSECTION REL
Traffic Control Device	
Police Reported Alcohol Presence	No ALCOHOL
Alcohol Test (< 95 indicates BAC 0.xx)	0

Crash Severity

Nr. Quarter Turns	No rollover
Impact Speed	< 0.5KMPH
Total, Longitudal, and Lateral δV	< 0.5 KMPH < 0.5 KMPH < 0.5 KMPH
Est. δV with sequence number	0.5 KMPH
CDC	SEVERE 2
Damage (C1-C6)	9 L D A W 4
Crush (L and D)	5 24 49 47 10 2
Object Contacted 1	240 -10
Object Contacted 2	VEHICLE NO. 2
Object Contacted 2	VEHICLE NO. 2

NASS Weighting Factor

Weighting factor	29.052152177
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Rollover Characteristics

Number of Events	3
Rollover Initiation Type	No rollover
Location of Rollover Initiation	No rollover
Rollover Initiation Object Contacted	No rollover
Location on Vehicle where Principal Tripping Force was Applied	No rollover
Direction of Initial Roll	No rollover

Vehicle Factors

Make-Model	Eagle Talon
Year	1993
Class	Unknown
Body Type	3DR/2DR HATCHBAK
Weight	116

Pre-Crash Driver Data

Accident Type	86
Pre-event Movement	GOING STRAIGHT
Critical Pre-crash Event	Unk TRAVEL DIR
Attempted Avoidance Manuever	No AVOIDANCE
Pre-impact Stability	TRACKING
Pre-impact Location	STAYED IN LANE

DRIVER Factors

Age	22	Height	170	Weight	66
Gender			MALE		
Ejection			No EJECTION		
Ejection Area			No EJECTION		
Entrapment			JAMMED DOOR/FIRE		

Restraint Factors

Restrain	None used/avail
AOPS	YES-RES DET
Airbag Deployment	Not EQUIP/AVAIL
Airbag Deployment - 1 st Seat	Not EQUIP/AVAIL
Airbag Deployment - Oth Seat	Not EQUIP W/ OTH

Injuries

Occupant	1999-73-124-1-1
MAIS	6=Maximum
Seat Position	Front left side

AIS Level	Injury Description	Contacts
6=Maximum	Burn, 2nd or 3rd degree, >903=Serious	Cerebral contusion, NFS
Front header 4=Severe	Cerebral hematoma, NFS	Front header

Occupant: 1999-73-124-1-2



Fire Information

Fire Occurrence	Major fire
Fire Origin	Other location
Location of Fuel Leakage	Filler neck
Type of Fuel Tank	Metallic
Fuel Tank Location	Behind rear axle, centered
Fuel Cap Location	Left side, forward rear axle
Fuel Tank Damage	No damage
Fuel Type	Gasoline



Pre-Crash Environment

Traffic Flow	Not DIVIDED
Number of Travel Lanes	TWO
Roadway Alignment	STRAIGHT
Roadway Profile	LEVEL
Roadway Surface Type	ASPHALT
Roadway Surface Condition	DRY
Light Conditions	DAYLIGHT
Atmospheric Conditions	No ADVERSE COND
Relation to Intersection	INTERSECTION REL
Traffic Control Device	
Police Reported Alcohol Presence	No ALCOHOL
Alcohol Test (< 95 indicates BAC 0.xx)	0

Crash Severity

Nr. Quarter Turns	No rollover
Impact Speed	< 0.5KMPH
Total, Longitudal, and Lateral δV	< 0.5 KMPH < 0.5 KMPH <
Est. δV with sequence number	0.5 KMPH
CDC	SEVERE 2
Damage (C1-C6)	9 L D A W 4
Crush (L and D)	5 24 49 47 10 2
Object Contacted 1	240 -10
Object Contacted 2	VEHICLE NO. 2
	VEHICLE NO. 2

NASS Weighting Factor

Weighting factor	29.052152177
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Rollover Characteristics

Number of Events	3
Rollover Initiation Type	No rollover
Location of Rollover Initiation	No rollover
Rollover Initiation Object Contacted	No rollover
Location on Vehicle where Principal Tripping Force was Applied	No rollover
Direction of Initial Roll	No rollover

Vehicle Factors

Make-Model	Eagle Talon
Year	1993
Class	Unknown
Body Type	3DR/2DR HATCHBAK
Weight	116

Pre-Crash Driver Data

Accident Type	86
Pre-event Movement	GOING STRAIGHT
Critical Pre-crash Event	Unk TRAVEL DIR
Attempted Avoidance Manuever	No AVOIDANCE
Pre-impact Stability	TRACKING
Pre-impact Location	STAYED IN LANE

PASSENGER Factors

Age	4	Height	91	Weight	0
Gender			MALE		
Ejection			No EJECTION		
Ejection Area			No EJECTION		
Entrapment			JAMMED DOOR/FIRE		

Restraint Factors

Restrain	None used/avail
AOPS	YES-RES DET
Airbag Deployment	Not EQUIP/AVAIL
Airbag Deployment - 1 st Seat	Not EQUIP/AVAIL
Airbag Deployment - Oth Seat	Not EQUIP W/ OTH

Injuries

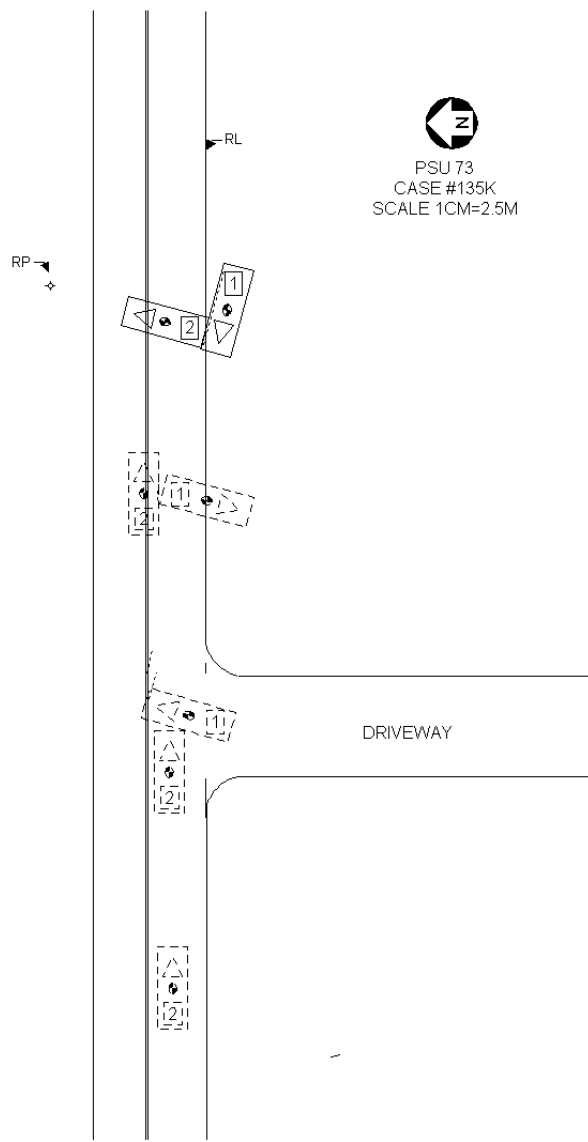
Occupant	1999-73-124-1-2
MAIS	6=Maximum
Seat Position	Front right side

AIS Level	Injury Description	Contacts
6=Maximum	Burn, 2nd or 3rd degree, >903=Serious	Cerebral sub-arachnoid hemorrhage
Unknown SOURCE		
3=Serious	Cerebral contusion, NFS	Unknown SOURCE
4=Severe	Cerebral hematoma, NFS	Unknown SOURCE

59 Case 1999-73-135

Summary:

V1 WAS BACKING INTO A DRIVEWAY (BACKING SOUTH FROM A TWO LANE ROADWAY). V1 WAS TRAVELING EAST ON SAME ROADWAY. V2'S FRONT IMPACTED V1'S LEFT SIDE. V1 SPUN CLOCKWISE 360 DEGREES. V2 ALSO SPUN CLOCKWISE CONNECTING TO V1. V2 CAUGHT FIRE WHILE CONNECTED TO V1 CAUSING THE TAILGATE AREA OF V1 TO BURN. BOTH VEHICLES WERE TOWED FROM THE SCENE. BOTH DRIVERS WERE TRANSPORTED FOR INJURIES. THERE WAS ONE PASSENGER IN V1 THAT WAS ALSO TRANSPORTED DUE TO INJURY.



Vehicle	Body type	Make	Model	Year	Occ Age	Occupant's sex	Maximum known occupant ais
1	LARGE PICKUP	Chevrolet	C/K-series Pickup	1995	44	MALE	3=Serious
1	LARGE PICKUP	Chevrolet	C/K-series Pickup	1992	40	FEMALE-NOT PREG	2=Moderate
2	4-DR SEDAN/HDTOP	Dodge	Intrepid	1993	23	MALE	2=Moderate

Occupant: 1999-73-135-1-1



Fire Information

Fire Occurrence	Minor fire
Fire Origin	Vehicle exterior
Location of Fuel Leakage	No fuel leakage
Type of Fuel Tank	Metallic
Fuel Tank Location	Forward of rear axle, left side
Fuel Cap Location	Left side, forward rear axle
Fuel Tank Damage	No damage
Fuel Type	Gasoline



Pre-Crash Environment

Traffic Flow	Not DIVIDED
Number of Travel Lanes	TWO
Roadway Alignment	STRAIGHT
Roadway Profile	LEVEL
Roadway Surface Type	ASPHALT
Roadway Surface Condition	DRY
Light Conditions	DARK/LIGHTED
Atmospheric Conditions	No ADVERSE COND
Relation to Intersection	DRIVEWAY RELATED
Traffic Control Device	
Police Reported	Alcohol Not REPORTED
Presence	
Alcohol Test (< 95 indicates	0
BAC 0.xx)	

Crash Severity

Nr. Quarter Turns	No rollover
Impact Speed	998
Total, Longitudal, and Lateral δV	40 7 39
Est. δV with sequence number	DELTA V CODED 1
CDC	9 L Y E W 5
Damage (C1-C6)	25 46 56 79 63 17
Crush (L and D)	180 54
Object Contacted 1	VEHICLE NO. 2
Object Contacted 2	VEHICLE NO. 2

NASS Weighting Factor

Weighting factor	17.280017867
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Rollover Characteristics

Number of Events	4
Rollover Initiation Type	No rollover
Location of Rollover Initiation	No rollover
Rollover Initiation Object Contacted	No rollover
Location on Vehicle where Principal Tripping Force was Applied	No rollover
Direction of Initial Roll	No rollover

Vehicle Factors

Make-Model	Chevrolet C/K-series Pickup
Year	1995
Class	TRUCK
Body Type	LARGE PICKUP
Weight	185

Pre-Crash Driver Data

Accident Type	92
Pre-event Movement	BACKING UP
Critical Pre-crash Event	OVER LINE-RIGHT
Attempted Avoidance Manuever	No AVOIDANCE
Pre-impact Stability	TRACKING
Pre-impact Location	STAYED IN LANE

DRIVER Factors

Age	44	Height	180	Weight	91
Gender					MALE
Ejection					PARTIAL EJECTION
Ejection Area					Left FRONT
Entrapment					JAMMED DOOR/FIRE

Restraint Factors

Restrain	Lap and shoulder
AOPS	YES-RES DET
Airbag Deployment	NONDEPLOYED
Airbag Deployment - 1 st Seat	NONDEPLOYED
Airbag Deployment - Oth Seat	Not EQUIP W/ OTH

Injuries

Occupant	1999-73-135-1-1
MAIS	3=Serious
Seat Position	Front left side

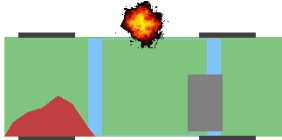
AIS Level	Injury Description	Contacts
2=Moderate	Lethargic on admission, unconscious <1 hour	Roof left rail
3=Serious	Single rib fracture with hemo-/pneumothorax	Steering rim
2=Moderate	Clavicle fracture	Belt webb/buckle
2=Moderate	Scapular fracture	Left B pillar
2=Moderate	Scalp laceration, major (>10 cms and into sub-Q)	Roof left rail
1=Minor	Scalp contusion	Roof left rail
1=Minor	Facial skin laceration, minor	Flying glass
1=Minor	Thoracic skin contusion	Belt webb/buckle
1=Minor	Upper extremity skin abrasion	Flying glass
1=Minor	Leg skin contusion (hematoma)	Left interior
1=Minor	Leg skin abrasion	Knee bolster

Occupant: 1999-73-135-1-2



Fire Information

Fire Occurrence	Minor fire
Fire Origin	Vehicle exterior
Location of Fuel Leakage	No fuel leakage
Type of Fuel Tank	Metallic
Fuel Tank Location	Forward of rear axle, left side
Fuel Cap Location	Left side, forward rear axle
Fuel Tank Damage	No damage
Fuel Type	Gasoline



Pre-Crash Environment

Traffic Flow	Not DIVIDED
Number of Travel Lanes	TWO
Roadway Alignment	STRAIGHT
Roadway Profile	LEVEL
Roadway Surface Type	ASPHALT
Roadway Surface Condition	DRY
Light Conditions	DARK/LIGHTED
Atmospheric Conditions	No ADVERSE COND
Relation to Intersection	DRIVEWAY RELATED
Traffic Control Device	
Police Reported	Alcohol Not REPORTED
Presence	
Alcohol Test (< 95 indicates	0
BAC 0.xx)	

Crash Severity

Nr. Quarter Turns	No rollover
Impact Speed	998
Total, Longitudal, and Lateral δV	40 7 39
Est. δV with sequence number	DELTA V CODED 1
CDC	9 L Y E W 5
Damage (C1-C6)	25 46 56 79 63 17
Crush (L and D)	180 54
Object Contacted 1	VEHICLE NO. 2
Object Contacted 2	VEHICLE NO. 2

NASS Weighting Factor

Weighting factor	17.280017867
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Rollover Characteristics

Number of Events	4
Rollover Initiation Type	No rollover
Location of Rollover Initiation	No rollover
Rollover Initiation Object Contacted	No rollover
Location on Vehicle where Principal Tripping Force was Applied	No rollover
Direction of Initial Roll	No rollover

Vehicle Factors

Make-Model	Chevrolet C/K-series Pickup
Year	1995
Class	TRUCK
Body Type	LARGE PICKUP
Weight	185

Pre-Crash Driver Data

Accident Type	92
Pre-event Movement	BACKING UP
Critical Pre-crash Event	OVER LINE-RIGHT
Attempted Avoidance Manuever	No AVOIDANCE
Pre-impact Stability	TRACKING
Pre-impact Location	STAYED IN LANE

PASSENGER Factors

Age	40	Height	173	Weight	77
Gender					FEMALE-NOT PREG
Ejection					No EJECTION
Ejection Area					No EJECTION
Entrapment					Not ENTRAPPED

Restraint Factors

Restrain	Lap and shoulder
AOPS	YES-RES DET
Airbag Deployment	NONDEPLOYED
Airbag Deployment - 1 st Seat	NONDEPLOYED
Airbag Deployment - Oth Seat	Not EQUIP W/ OTH

Injuries

Occupant	1999-73-135-1-2
MAIS	2=Moderate
Seat Position	Front right side

AIS Level	Injury Description	Contacts
1=Minor	Skin contusion (body region unknown)	Unknown SOURCE
2=Moderate	Awake on admission, unconscious <1 hour	Unknown SOURCE

Occupant: 1999-73-135-2-1



Fire Information

Fire Occurrence	Major fire
Fire Origin	Engine compart
Location of Fuel Leakage	No fuel leakage
Type of Fuel Tank	Metallic
Fuel Tank Location	Forward of rear axle, centered
Fuel Cap Location	Right side, behind rear axle
Fuel Tank Damage	No damage
Fuel Type	Gasoline



Pre-Crash Environment

Traffic Flow	Not DIVIDED
Number of Travel Lanes	TWO
Roadway Alignment	STRAIGHT
Roadway Profile	LEVEL
Roadway Surface Type	ASPHALT
Roadway Surface Condition	DRY
Light Conditions	DARK/LIGHTED
Atmospheric Conditions	No ADVERSE COND
Relation to Intersection	DRIVEWAY RELATED
Traffic Control Device	
Police Reported Alcohol Presence	ALCOHOL PRESENT
Alcohol Test (< 95 indicates BAC 0.xx)	15

Crash Severity

Nr. Quarter Turns	No rollover
Impact Speed	998
Total, Longitudal, and Lateral δV	56 -55 10
Est. δV with sequence number	DELTA V CODED 1
CDC	12 F D E W 4
Damage (C1-C6)	40 66 68 72 82 81
Crush (L and D)	150 0
Object Contacted 1	VEHICLE NO. 1
Object Contacted 2	VEHICLE NO. 1

NASS Weighting Factor

Weighting factor	17.280017867
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Rollover Characteristics

Number of Events	4
Rollover Initiation Type	No rollover
Location of Rollover Initiation	No rollover
Rollover Initiation Object Contacted	No rollover
Location on Vehicle where Principal Tripping Force was Applied	No rollover
Direction of Initial Roll	No rollover

Vehicle Factors

Make-Model	Dodge Intrepid
Year	1993
Class	PASSENGER CAR
Body Type	4-DR SEDAN/HDTOP
Weight	146

Pre-Crash Driver Data

Accident Type	93
Pre-event Movement	GOING STRAIGHT
Critical Pre-crash Event	BACKING
Attempted Avoidance Manuever	No AVOIDANCE
Pre-impact Stability	TRACKING
Pre-impact Location	STAYED IN LANE

DRIVER Factors

Age	23	Height	180	Weight	91
Gender			MALE		
Ejection			No EJECTION		
Ejection Area			No EJECTION		
Entrapment			Not ENTRAPPED		

Restraint Factors

Restrain	Lap and shoulder
AOPS	YES-RES DET
Airbag Deployment	BAG DEPLOYED
Airbag Deployment - 1 st Seat	DR
PAS BAG DEPLY	
Airbag Deployment - Oth Seat	Not EQUIP W/ OTH

Injuries

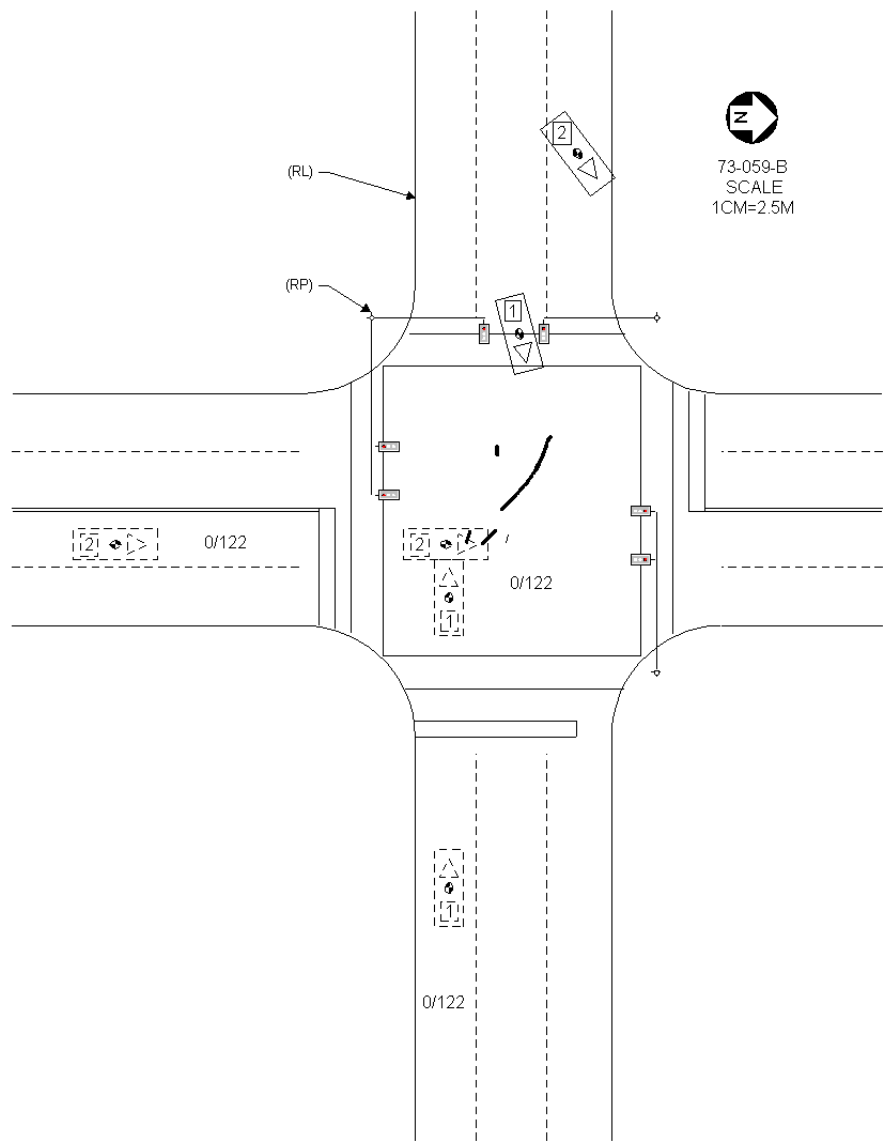
Occupant	1999-73-135-2-1
MAIS	2=Moderate
Seat Position	Front left side

AIS Level	Injury Description	Contacts
2=Moderate	Lethargic on admission, unconscious <1 hour	Unknown SOURCE
1=Minor	Scalp laceration, minor	Unknown SOURCE
1=Minor	Facial skin abrasion	Unknown SOURCE
1=Minor	Thoracic skin abrasion	Belt webb/buckle
1=Minor	Abdominal skin abrasion	Belt webb/buckle
1=Minor	Leg skin abrasion	Knee bolster
1=Minor	Thoracic skin contusion	Belt webb/buckle
1=Minor	Upper extremity skin contusion	Belt webb/buckle
1=Minor	Abdominal skin contusion	Belt webb/buckle

60 Case 1999-73-59

Summary:

V1 was traveling west on a three lane, one way street approaching an intersection. V2 was traveling north on the four lane intersecting street in the second northbound lane. V1 struck V2 on the right side passenger area. V1 sustained damage to the front end from the impact. Both vehicles were forced west of the crash from the force of the impact to final rest. V1 was facing northeast in the middle of the one way road. V2 was facing northeast, west of V1 in the first westbound lane of the one way street. V1 was occupied by the driver and two passengers. All three were transported to an area hospital for treatment. The vehicle was equipped with dual frontal air bags that deployed upon impact. The vehicle caught fire in the engine compartment from the impact. V2 was occupied by the driver and one passenger. The driver and passenger were transported to an area hospital for treatment. The passenger expired at the hospital. The vehicle was equipped with dual frontal air bags that deployed at impact. Both vehicles were towed from the crash scene due to impact damage.



Vehicle	Body type	Make	Model	Year	Occ.#	Age	Occupant's sex	Maximum known occupant ais
1	4-DR SEDAN/HDTOP	Dodge	Stratus	1998	1	33	MALE	1=Minor
1	4-DR SEDAN/HDTOP	Dodge	Stratus	1998	2	24	MALE	2=Moderate
1	4-DR SEDAN/HDTOP	Dodge	Stratus	1998	3	24	MALE	3=Serious
2	4-DR SEDAN/HDTOP	Cadillac	Seville	1994	1	21	MALE	3=Serious
2	4-DR SEDAN/HDTOP	Cadillac	Seville	1994	2	21	FEMALE-NOT PREG	5=Critical

Occupant: 1999-73-59-1-1



Fire Information

Fire Occurrence	Major fire
Fire Origin	Engine compart
Location of Fuel Leakage	No fuel leakage
Type of Fuel Tank	Non-metallic
Fuel Tank Location	Forward of rear axle, centered
Fuel Cap Location	Left side, behind rear axle
Fuel Tank Damage	No damage
Fuel Type	Gasoline



Pre-Crash Environment

Traffic Flow	ONE WAY
Number of Travel Lanes	THREE
Roadway Alignment	STRAIGHT
Roadway Profile	LEVEL
Roadway Surface Type	ASPHALT
Roadway Surface Condition	WET
Light Conditions	DARK/LIGHTED
Atmospheric Conditions	No ADVERSE COND
Relation to Intersection	INTERSECTION REL
Traffic Control Device	
Police Reported Alcohol Presence	ALCOHOL PRESENT
Alcohol Test (< 95 indicates BAC 0.xx)	31

Crash Severity

Nr. Quarter Turns	No rollover
Impact Speed	998
Total, Longitudal, and Lateral δV	59 -55 20
Est. δV with sequence number	DELTA V CODED 1
CDC	11 F D E W 3
Damage (C1-C6)	22 27 30 37 50 60
Crush (L and D)	148 0
Object Contacted 1	VEHICLE NO. 2
Object Contacted 2	0

NASS Weighting Factor

Weighting factor	42.29630205
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Rollover Characteristics

Number of Events	2
Rollover Initiation Type	No rollover
Location of Rollover Initiation	No rollover
Rollover Initiation Object Contacted	No rollover
Location on Vehicle where Principal Tripping Force was Applied	No rollover
Direction of Initial Roll	No rollover

Vehicle Factors

Make-Model	Dodge Stratus
Year	1998
Class	PASSENGER CAR
Body Type	4-DR SEDAN/HDTOP
Weight	132

Pre-Crash Driver Data

Accident Type	86
Pre-event Movement	GOING STRAIGHT
Critical Pre-crash Event	CROSS OVER INTER
Attempted Avoidance Manuever	No AVOIDANCE
Pre-impact Stability	TRACKING
Pre-impact Location	STAYED IN LANE

DRIVER Factors

Age	33	Height	0	Weight	93
Gender					MALE
Ejection					No EJECTION
Ejection Area					No EJECTION
Entrapment					JAMMED DOOR/FIRE

Restraint Factors

Restrain	None used/avail
AOPS	YES-RES DET
Airbag Deployment	BAG DEPLOYED
Airbag Deployment - 1 st Seat	DR
PAS BAG DEPLY	
Airbag Deployment - Oth Seat	Not EQUIP W/ OTH

Injuries

Occupant	1999-73-59-1-1
MAIS	1=Minor
Seat Position	Front left side

AIS Level	Injury Description	Contacts
1=Minor	Upper extremity skin contusion	Steering rim
1=Minor	Facial skin contusion	Steering rim

Occupant: 1999-73-59-1-2



Fire Information

Fire Occurrence	Major fire
Fire Origin	Engine compart
Location of Fuel Leakage	No fuel leakage
Type of Fuel Tank	Non-metallic
Fuel Tank Location	Forward of rear axle, centered
Fuel Cap Location	Left side, behind rear axle
Fuel Tank Damage	No damage
Fuel Type	Gasoline



Pre-Crash Environment

Traffic Flow	ONE WAY
Number of Travel Lanes	THREE
Roadway Alignment	STRAIGHT
Roadway Profile	LEVEL
Roadway Surface Type	ASPHALT
Roadway Surface Condition	WET
Light Conditions	DARK/LIGHTED
Atmospheric Conditions	No ADVERSE COND
Relation to Intersection	INTERSECTION REL
Traffic Control Device	
Police Reported Alcohol Presence	ALCOHOL PRESENT
Alcohol Test (< 95 indicates BAC 0.xx)	31

Crash Severity

Nr. Quarter Turns	No rollover
Impact Speed	998
Total, Longitudal, and Lateral δV	59 -55 20
Est. δV with sequence number	DELTA V CODED 1
CDC	11 F D E W 3
Damage (C1-C6)	22 27 30 37 50 60
Crush (L and D)	148 0
Object Contacted 1	VEHICLE NO. 2
Object Contacted 2	0

NASS Weighting Factor

Weighting factor	42.29630205
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Rollover Characteristics

Number of Events	2
Rollover Initiation Type	No rollover
Location of Rollover Initiation	No rollover
Rollover Initiation Object Contacted	No rollover
Location on Vehicle where Principal Tripping Force was Applied	No rollover
Direction of Initial Roll	No rollover

Vehicle Factors

Make-Model	Dodge Stratus
Year	1998
Class	PASSENGER CAR
Body Type	4-DR SEDAN/HDTOP
Weight	132

Pre-Crash Driver Data

Accident Type	86
Pre-event Movement	GOING STRAIGHT
Critical Pre-crash Event	CROSS OVER INTER
Attempted Avoidance Manuever	No AVOIDANCE
Pre-impact Stability	TRACKING
Pre-impact Location	STAYED IN LANE

PASSENGER Factors

Age	24	Height	0	Weight	91
Gender					MALE
Ejection					No EJECTION
Ejection Area					No EJECTION
Entrapment					JAMMED DOOR/FIRE

Restraint Factors

Restrain	None used/avail
AOPS	YES-RES DET
Airbag Deployment	BAG DEPLOYED
Airbag Deployment - 1 st Seat	DR
PAS BAG DEPLY	
Airbag Deployment - Oth Seat	Not EQUIP W/ OTH

Injuries

Occupant	1999-73-59-1-2
MAIS	2=Moderate
Seat Position	Front right side

AIS Level	Injury Description	Contacts
2=Moderate	Awake on admission, unconscious <1 hour	Air bag-PS side
1=Minor	Facial skin abrasion	Air bag-PS side
1=Minor	Upper extremity skin abrasion	Air bag-PS side
1=Minor	Leg skin abrasion	Knee bolster

Occupant: 1999-73-59-1-3



Fire Information

Fire Occurrence	Major fire
Fire Origin	Engine compart
Location of Fuel Leakage	No fuel leakage
Type of Fuel Tank	Non-metallic
Fuel Tank Location	Forward of rear axle, centered
Fuel Cap Location	Left side, behind rear axle
Fuel Tank Damage	No damage
Fuel Type	Gasoline



Pre-Crash Environment

Traffic Flow	ONE WAY
Number of Travel Lanes	THREE
Roadway Alignment	STRAIGHT
Roadway Profile	LEVEL
Roadway Surface Type	ASPHALT
Roadway Surface Condition	WET
Light Conditions	DARK/LIGHTED
Atmospheric Conditions	No ADVERSE COND
Relation to Intersection	INTERSECTION REL
Traffic Control Device	
Police Reported Alcohol Presence	ALCOHOL PRESENT
Alcohol Test (< 95 indicates BAC 0.xx)	31

Crash Severity

Nr. Quarter Turns	No rollover
Impact Speed	998
Total, Longitudal, and Lateral δV	59 -55 20
Est. δV with sequence number	DELTA V CODED 1
CDC	11 F D E W 3
Damage (C1-C6)	22 27 30 37 50 60
Crush (L and D)	148 0
Object Contacted 1	VEHICLE NO. 2
Object Contacted 2	0

NASS Weighting Factor

Weighting factor	42.29630205
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Rollover Characteristics

Number of Events	2
Rollover Initiation Type	No rollover
Location of Rollover Initiation	No rollover
Rollover Initiation Object Contacted	No rollover
Location on Vehicle where Principal Tripping Force was Applied	No rollover
Direction of Initial Roll	No rollover

Vehicle Factors

Make-Model	Dodge Stratus
Year	1998
Class	PASSENGER CAR
Body Type	4-DR SEDAN/HDTOP
Weight	132

Pre-Crash Driver Data

Accident Type	86
Pre-event Movement	GOING STRAIGHT
Critical Pre-crash Event	CROSS OVER INTER
Attempted Avoidance Manuever	No AVOIDANCE
Pre-impact Stability	TRACKING
Pre-impact Location	STAYED IN LANE

PASSENGER Factors

Age	24	Height	0	Weight	82
Gender					MALE
Ejection					No EJECTION
Ejection Area					No EJECTION
Entrapment					Not ENTRAPPED

Restraint Factors

Restrain	None used/avail
AOPS	YES-RES DET
Airbag Deployment	Not EQUIP/AVAIL
Airbag Deployment - 1 st Seat	DR
PAS BAG DEPLY	
Airbag Deployment - Oth Seat	Not EQUIP W/ OTH

Injuries

Occupant	1999-73-59-1-3
MAIS	3=Serious
Seat Position	Second right

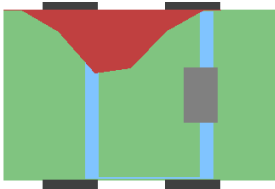
AIS Level	Injury Description	Contacts
2=Moderate	Mandible sub-condylar fracture, open/displaced/comminuted	Seat, back
2=Moderate	Temporalmandibular joint dislocation	Seat, back
2=Moderate	Temporalmandibular joint dislocation	Seat, back
2=Moderate	Skull fracture, vault, closed (simple, undisplaced)	Seat, back
2=Moderate	Facial nerve injury, NFS	Seat, back
3=Serious	Lung contusion, uni-lateral	Seat, back
2=Moderate	Fibular lateral malleolus fracture	Seat, back
1=Minor	Facial skin contusion	Seat, back
1=Minor	297402	Seat, back
1=Minor	Facial skin contusion	Seat, back
1=Minor	Facial skin laceration, minor	Seat, back
1=Minor	Facial skin abrasion	Seat, back
1=Minor	Leg skin abrasion	Seat, back
1=Minor	Upper extremity skin abrasion	Seat, back
1=Minor	Upper extremity skin laceration, minor	Seat, back

Occupant: 1999-73-59-2-1



Fire Information

Fire Occurence	No fire
Fire Origin	No fire
Location of Fuel Leakage	No fuel leakage
Type of Fuel Tank	Metallic
Fuel Tank Location	Forward of rear axle, centered
Fuel Cap Location	Left side, behind rear axle
Fuel Tank Damage	Deformed
Fuel Type	Gasoline



Pre-Crash Environment

Traffic Flow	Not DIVIDED
Number of Travel Lanes	FOUR
Roadway Alignment	STRAIGHT
Roadway Profile	LEVEL
Roadway Surface Type	ASPHALT
Roadway Surface Condition	WET
Light Conditions	DARK/LIGHTED
Atmospheric Conditions	No ADVERSE COND
Relation to Intersection	INTERSECTION REL
Traffic Control Device	
Police Reported Alcohol Presence	No ALCOHOL
Alcohol Test (< 95 indicates BAC 0.xx)	0

Crash Severity

Nr. Quarter Turns	No rollover
Impact Speed	998
Total, Longitudal, and Lateral δV	48 -16 -45
Est. δV with sequence number	DELTA V CODED 1
CDC	62 R Y E W 6
Damage (C1-C6)	0 31 92 84 29 0
Crush (L and D)	321 33
Object Contacted 1	VEHICLE NO. 1
Object Contacted 2	0

NASS Weighting Factor

Weighting factor	42.29630205
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Rollover Characteristics

Number of Events	2
Rollover Initiation Type	No rollover
Location of Rollover Initiation	No rollover
Rollover Initiation Object Contacted	No rollover
Location on Vehicle where Principal Tripping Force was Applied	No rollover
Direction of Initial Roll	No rollover

Vehicle Factors

Make-Model	Cadillac Seville
Year	1994
Class	PASSENGER CAR
Body Type	4-DR SEDAN/HDTOP
Weight	176

Pre-Crash Driver Data

Accident Type	87
Pre-event Movement	GOING STRAIGHT
Critical Pre-crash Event	CROSS OVER INTER
Attempted Avoidance Manuever	No AVOIDANCE
Pre-impact Stability	TRACKING
Pre-impact Location	STAYED IN LANE

DRIVER Factors

Age	21	Height	188	Weight	75
Gender			MALE		
Ejection			No EJECTION		
Ejection Area			No EJECTION		
Entrapment			JAMMED DOOR/FIRE		

Restraint Factors

Restrain	Lap and shoulder
AOPS	YES-RES DET
Airbag Deployment	BAG DEPLOYED
Airbag Deployment - 1 st Seat	DR
PAS BAG DEPLY	
Airbag Deployment - Oth Seat	Not EQUIP W/ OTH

Injuries

Occupant	1999-73-59-2-1
MAIS	3=Serious
Seat Position	Front left side

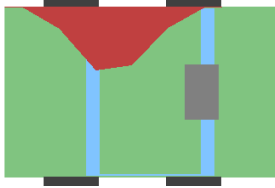
AIS Level	Injury Description	Contacts
3=Serious	Lung contusion, uni-lateral	Air bag-DR side
3=Serious	Thoracic cavity injury NFS, with pneumo-mediastinum	Air bag-DR side
2=Moderate	Cervical spinous process fx, no cord injury, +/- dislocation	Head restraint
2=Moderate	Awake on admission, unconscious <1 hour	Air bag-DR side
1=Minor	Thoracic skin contusion	Air bag-DR side
1=Minor	Facial skin laceration, minor	Air bag-DR side
1=Minor	Upper extremity skin laceration, minor	Flying glass
1=Minor	690602	Flying glass

Occupant: 1999-73-59-2-2



Fire Information

Fire Occurrence	No fire
Fire Origin	No fire
Location of Fuel Leakage	No fuel leakage
Type of Fuel Tank	Metallic
Fuel Tank Location	Forward of rear axle, centered
Fuel Cap Location	Left side, behind rear axle
Fuel Tank Damage	Deformed
Fuel Type	Gasoline



Pre-Crash Environment

Traffic Flow	Not DIVIDED
Number of Travel Lanes	FOUR
Roadway Alignment	STRAIGHT
Roadway Profile	LEVEL
Roadway Surface Type	ASPHALT
Roadway Surface Condition	WET
Light Conditions	DARK/LIGHTED
Atmospheric Conditions	No ADVERSE COND
Relation to Intersection	INTERSECTION REL
Traffic Control Device	
Police Reported Alcohol Presence	No ALCOHOL
Alcohol Test (< 95 indicates BAC 0.xx)	0

Vehicle Factors

Make-Model	Cadillac Seville
Year	1994
Class	PASSENGER CAR
Body Type	4-DR SEDAN/HDTOP
Weight	176

Crash Severity

Nr. Quarter Turns	No rollover
Impact Speed	998
Total, Longitudal, and Lateral δV	48 -16 -45
Est. δV with sequence number	DELTA V CODED 1
CDC	62 R Y E W 6
Damage (C1-C6)	0 31 92 84 29 0
Crush (L and D)	321 33
Object Contacted 1	VEHICLE NO. 1
Object Contacted 2	0

Pre-Crash Driver Data

Accident Type	87
Pre-event Movement	GOING STRAIGHT
Critical Pre-crash Event	CROSS OVER INTER
Attempted Avoidance Manuever	No AVOIDANCE
Pre-impact Stability	TRACKING
Pre-impact Location	STAYED IN LANE

NASS Weighting Factor

Weighting factor	42.29630205
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PASSENGER Factors

Rollover Characteristics

Number of Events	2
Rollover Initiation Type	No rollover
Location of Rollover Initiation	No rollover
Rollover Initiation Object Contacted	No rollover
Location on Vehicle where Principal Tripping Force was Applied	No rollover
Direction of Initial Roll	No rollover

Age	21	Height	175	Weight	73
Gender					FEMALE-NOT PREG
Ejection					No EJECTION
Ejection Area					No EJECTION
Entrapment					ENTRAPPED

Restraint Factors

Restrain Lap and shoulder
 AOPS YES-RES DET
 Airbag Deployment BAG DEPLOYED
 Airbag Deployment - 1st Seat DR
 PAS BAG DEPLY
 Airbag Deployment - Oth Not EQUIP W/ OTH
 Seat

Injuries

Occupant 1999-73-59-2-2
 MAIS 5=Critical
 Seat Position Front right side

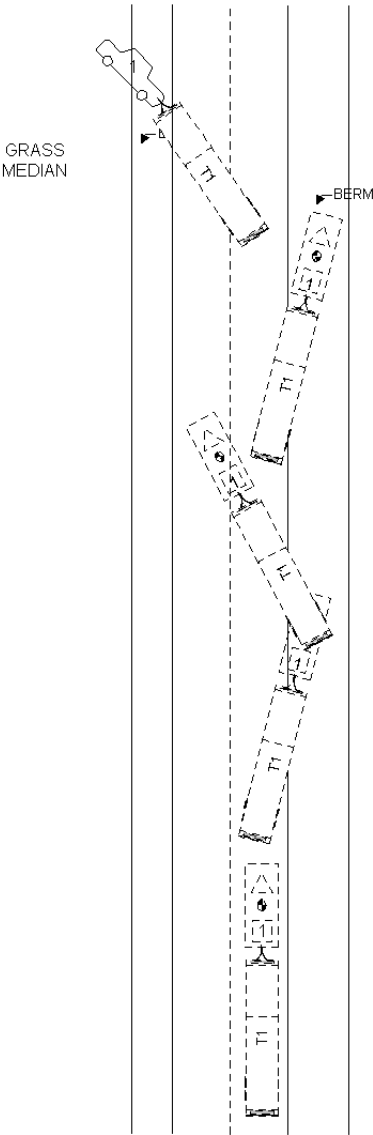
AIS Level	Injury Description	Contacts
3=Serious	Basilar skull fracture, without CSF leak	Belt B pill atch
2=Moderate	Skull fracture, vault, closed (simple, undisplaced)	Belt B pill atch
2=Moderate	Skull fracture, vault, closed (simple, undisplaced)	Belt B pill atch
2=Moderate	Skull fracture, vault, closed (simple, undisplaced)	Belt B pill atch
2=Moderate	Skull fracture, vault, closed (simple, undisplaced)	Belt B pill atch
5=Critical	Cerebral subdural hematoma, small (<50ccs), bilateral	Belt B pill atch
3=Serious	Cerebral subarachnoid hemorrhage	Belt B pill atch
3=Serious	Cerebral subarachnoid hemorrhage	Belt B pill atch
5=Critical	Intracerebral hematoma, small, bilateral	Belt B pill atch
3=Serious	Cerebral contusions, multiple, bilateral, small	Belt B pill atch
3=Serious	Cerebral edema, mild (compressed ventricles w/o brain stem)	Belt B pill atch
3=Serious	Cerebral edema, mild (compressed ventricles w/o brain stem)	Belt B pill atch
5=Critical	Massive hepatic injury (>502=Moderate	Splenic laceration, minor (tear<3cms deep, no major vessel)
Right hardware 4=Severe	Rib fxs (=>1), open/displaced/comminuted,& hemo-/pneumo thx	Right interior
3=Serious	Lung contusion, unilateral	Right interior
2=Moderate	Kidney contusion, minor (subcapsular, nonexpanding)	Right hardware
2=Moderate	Kidney contusion, minor (subcapsular, nonexpanding)	Right hardware
2=Moderate	Cervical vertebral body fracture, no cord injury NFS	Right B pillar
2=Moderate	Humeral fracture NFS	Air bag-PS side
1=Minor	Humeral fracture NFS	Air bag-PS side

61 Case 1999-73-79

Summary:

V1 WAS PULLING T1 NORTHBOUND ON AN INTERSTATE 4 LANE DIVIDED HIGHWAY ON A VERY WINDY DAY. V1 AND T1 SWERVED RIGHT AND LEFT ACROSS BOTH LANES AND TURNED ONTO V1T1'S RIGHT SIDE. AS T1 ROLLED OVER IT STRUCK A GUARD RAIL. V1 CAME TO FR WITH FRONT TWO TIRES IN GRASS MEDIAN AND BACK TWO TIRES AND TRAILER WERE ACROSS THE TWO LANES OF TRAFFIC. V1'S ENGINE COMPARTMENT THEN CAUGHT FIRE AND WAS EXTINGUISHED OUT AT THE SCENE. V1 AND T1 WERE TOWED FROM THE SCENE. THERE WERE SIX OCCUPANTS IN V1 NONE OF WHICH HAD INJURIES. TWO OF THE OCCUPANTS WERE IN CHILD SAFETY SEATS.

PSU 73
CASE #079H
SCALE 1CM=2.5M



Vehicle	Body type	Make	Model	Year	Occ.#	Age	Occupant's sex	Maximum known occupant ais
1	LARGE VAN	Dodge	B-series Van	1994	1	25	FEMALE-NOT PREG	0=None
1	LARGE VAN	Dodge	B-series Van	1994	2	27	MALE	0=None
1	LARGE VAN	Dodge	B-series Van	1994	3	4	FEMALE-NOT PREG	0=None
1	LARGE VAN	Dodge	B-series Van	1994	4	7	FEMALE-NOT PREG	0=None
1	LARGE VAN	Dodge	B-series Van	1994	5	4	MALE	0=None
1	LARGE VAN	Dodge	B-series Van	1994	6	1	MALE	0=None

Occupant: 1999-73-79-1-1



Fire Information

Fire Occurrence	Minor fire
Fire Origin	Engine compartment
Location of Fuel Leakage	No fuel leakage
Type of Fuel Tank	Metallic
Fuel Tank Location	Behind rear axle, centered
Fuel Cap Location	Left side, behind rear axle
Fuel Tank Damage	No damage
Fuel Type	Gasoline



Crash Severity

Nr. Quarter Turns	1 QUARTER TURN
Impact Speed	< 0.5KMPH
Total, Longitudal, and Lateral δV	< 0.5 KMPH < 0.5 KMPH <
Est. δV with sequence number	0.5 KMPH
CDC	SEVERE 2
Damage (C1-C6)	0 R D A O 3
Crush (L and D)	0 0 0 0 0 0
Object Contacted 1	0 0
Object Contacted 2	ROLLOVER-OVERTURN
	Other BARRIER

NASS Weighting Factor

Weighting factor	2947.6525249
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Rollover Characteristics

Number of Events	3
Rollover Initiation Type	TURN-OVER
Location of Rollover Initiation	ON ROADWAY
Rollover Initiation Object Contacted	TURN/FALL-OVER
Location on Vehicle where Principal Tripping Force was Applied	NONCONTACT FORCE
Direction of Initial Roll	ROLL RIGHT

Pre-Crash Environment

Traffic Flow	DVDED/NO BARRIER
Number of Travel Lanes	TWO
Roadway Alignment	STRAIGHT
Roadway Profile	LEVEL
Roadway Surface Type	ASPHALT
Roadway Surface Condition	DRY
Light Conditions	DAYLIGHT
Atmospheric Conditions	Other
Relation to Intersection	NONINTER/NONJUNC
Traffic Control Device	
Police Reported Alcohol Presence	Not REPORTED
Alcohol Test (< 95 indicates BAC 0.xx)	0

Vehicle Factors

Make-Model	Dodge B-series Van
Year	1994
Class	PASSENGER CAR
Body Type	LARGE VAN
Weight	208

Pre-Crash Driver Data

Accident Type	2
Pre-event Movement	GOING STRAIGHT
Critical Pre-crash Event	TRAVEL TOO FAST
Attempted Avoidance Manuever	BRAKE+STEER LEFT
Pre-impact Stability	LAT SKID-CTR CLK
Pre-impact Location	Left TRAVEL LANE

DRIVER Factors

Age	25	Height	173	Weight	75
Gender					FEMALE-NOT PREG
Ejection					No EJECTION
Ejection Area					No EJECTION
Entrapment					Not ENTRAPPED

Restraint Factors

Restrain	Lap and shoulder
AOPS	NO
Airbag Deployment	Not EQUIP/AVAIL
Airbag Deployment - 1 st Seat	Not EQUIP/AVAIL
Airbag Deployment - Oth Seat	Not EQUIP W/ OTH

Injuries

Occupant	1999-73-79-1-1
MAIS	0=None
Seat Position	Front left side

AIS Level	Injury Description	Contacts
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Occupant: 1999-73-79-1-2



Fire Information

Fire Occurrence	Minor fire
Fire Origin	Engine compartment
Location of Fuel Leakage	No fuel leakage
Type of Fuel Tank	Metallic
Fuel Tank Location	Behind rear axle, centered
Fuel Cap Location	Left side, behind rear axle
Fuel Tank Damage	No damage
Fuel Type	Gasoline



Crash Severity

Nr. Quarter Turns	1 QUARTER TURN
Impact Speed	< 0.5KMPH
Total, Longitudal, and Lateral δV	< 0.5 KMPH < 0.5 KMPH <
Est. δV with sequence number	0.5 KMPH
CDC	SEVERE 2
Damage (C1-C6)	0 R D A O 3
Crush (L and D)	0 0 0 0 0 0
Object Contacted 1	0 0
Object Contacted 2	ROLLOVER-OVERTURN
	Other BARRIER

NASS Weighting Factor

Weighting factor	2947.6525249
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Rollover Characteristics

Number of Events	3
Rollover Initiation Type	TURN-OVER
Location of Rollover Initiation	ON ROADWAY
Rollover Initiation Object Contacted	TURN/FALL-OVER
Location on Vehicle where Principal Tripping Force was Applied	NONCONTACT FORCE
Direction of Initial Roll	ROLL RIGHT

Pre-Crash Environment

Traffic Flow	DVDED/NO BARRIER
Number of Travel Lanes	TWO
Roadway Alignment	STRAIGHT
Roadway Profile	LEVEL
Roadway Surface Type	ASPHALT
Roadway Surface Condition	DRY
Light Conditions	DAYLIGHT
Atmospheric Conditions	Other
Relation to Intersection	NONINTER/NONJUNC
Traffic Control Device	
Police Reported Alcohol Presence	Not REPORTED
Alcohol Test (< 95 indicates BAC 0.xx)	0

Vehicle Factors

Make-Model	Dodge B-series Van
Year	1994
Class	PASSENGER CAR
Body Type	LARGE VAN
Weight	208

Pre-Crash Driver Data

Accident Type	2
Pre-event Movement	GOING STRAIGHT
Critical Pre-crash Event	TRAVEL TOO FAST
Attempted Avoidance Manuever	BRAKE+STEER LEFT
Pre-impact Stability	LAT SKID-CTR CLK
Pre-impact Location	Left TRAVEL LANE

PASSENGER Factors

Age	27	Height	188	Weight	95
Gender			MALE		
Ejection			No EJECTION		
Ejection Area			No EJECTION		
Entrapment			Not ENTRAPPED		

Restraint Factors

Restrain	Lap and shoulder
AOPS	NO
Airbag Deployment	Not EQUIP/AVAIL
Airbag Deployment - 1 st Seat	Not EQUIP/AVAIL
Airbag Deployment - Oth Seat	Not EQUIP W/ OTH

Injuries

Occupant	1999-73-79-1-2
MAIS	0=None
Seat Position	Front right side

AIS Level	Injury Description	Contacts
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Occupant: 1999-73-79-1-3



Fire Information

Fire Occurrence	Minor fire
Fire Origin	Engine compartment
Location of Fuel Leakage	No fuel leakage
Type of Fuel Tank	Metallic
Fuel Tank Location	Behind rear axle, centered
Fuel Cap Location	Left side, behind rear axle
Fuel Tank Damage	No damage
Fuel Type	Gasoline



Crash Severity

Nr. Quarter Turns	1 QUARTER TURN
Impact Speed	< 0.5KMPH
Total, Longitudal, and Lateral δV	< 0.5 KMPH < 0.5 KMPH <
Est. δV with sequence number	0.5 KMPH
CDC	SEVERE 2
Damage (C1-C6)	0 R D A O 3
Crush (L and D)	0 0 0 0 0 0
Object Contacted 1	0 0
Object Contacted 2	ROLLOVER-OVERTURN
	Other BARRIER

NASS Weighting Factor

Weighting factor	2947.6525249
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Rollover Characteristics

Number of Events	3
Rollover Initiation Type	TURN-OVER
Location of Rollover Initiation	ON ROADWAY
Rollover Initiation Object Contacted	TURN/FALL-OVER
Location on Vehicle where Principal Tripping Force was Applied	NONCONTACT FORCE
Direction of Initial Roll	ROLL RIGHT

Pre-Crash Environment

Traffic Flow	DVDED/NO BARRIER
Number of Travel Lanes	TWO
Roadway Alignment	STRAIGHT
Roadway Profile	LEVEL
Roadway Surface Type	ASPHALT
Roadway Surface Condition	DRY
Light Conditions	DAYLIGHT
Atmospheric Conditions	Other
Relation to Intersection	NONINTER/NONJUNC
Traffic Control Device	
Police Reported Alcohol Presence	Not REPORTED
Alcohol Test (< 95 indicates BAC 0.xx)	0

Vehicle Factors

Make-Model	Dodge B-series Van
Year	1994
Class	PASSENGER CAR
Body Type	LARGE VAN
Weight	208

Pre-Crash Driver Data

Accident Type	2
Pre-event Movement	GOING STRAIGHT
Critical Pre-crash Event	TRAVEL TOO FAST
Attempted Avoidance Manuever	BRAKE+STEER LEFT
Pre-impact Stability	LAT SKID-CTR CLK
Pre-impact Location	Left TRAVEL LANE

PASSENGER Factors

Age	4	Height	61	Weight	8
Gender					FEMALE-NOT PREG
Ejection					No EJECTION
Ejection Area					No EJECTION
Entrapment					Not ENTRAPPED

Restraint Factors

Restrain	Lap w/ch/seat
AOPS	NO
Airbag Deployment	Not EQUIP/AVAIL
Airbag Deployment - 1 st Seat	Not EQUIP/AVAIL
Airbag Deployment - Oth Seat	Not EQUIP W/ OTH

Injuries

Occupant	1999-73-79-1-3
MAIS	0=None
Seat Position	Second middle

AIS Level	Injury Description	Contacts
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Occupant: 1999-73-79-1-4



Fire Information

Fire Occurrence	Minor fire
Fire Origin	Engine compartment
Location of Fuel Leakage	No fuel leakage
Type of Fuel Tank	Metallic
Fuel Tank Location	Behind rear axle, centered
Fuel Cap Location	Left side, behind rear axle
Fuel Tank Damage	No damage
Fuel Type	Gasoline



Crash Severity

Nr. Quarter Turns	1 QUARTER TURN
Impact Speed	< 0.5KMPH
Total, Longitudal, and Lateral δV	< 0.5 KMPH < 0.5 KMPH <
Est. δV with sequence number	0.5 KMPH
Est. δV with sequence number	SEVERE 2
CDC	0 R D A O 3
Damage (C1-C6)	0 0 0 0 0 0
Crush (L and D)	0 0
Object Contacted 1	ROLLOVER-OVERTURN
Object Contacted 2	Other BARRIER

NASS Weighting Factor

Weighting factor	2947.6525249
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Rollover Characteristics

Number of Events	3
Rollover Initiation Type	TURN-OVER
Location of Rollover Initiation	ON ROADWAY
Rollover Initiation Object Contacted	TURN/FALL-OVER
Location on Vehicle where Principal Tripping Force was Applied	NONCONTACT FORCE
Direction of Initial Roll	ROLL RIGHT

Pre-Crash Environment

Traffic Flow	DVDED/NO BARRIER
Number of Travel Lanes	TWO
Roadway Alignment	STRAIGHT
Roadway Profile	LEVEL
Roadway Surface Type	ASPHALT
Roadway Surface Condition	DRY
Light Conditions	DAYLIGHT
Atmospheric Conditions	Other
Relation to Intersection	NONINTER/NONJUNC
Traffic Control Device	
Police Reported Alcohol Presence	Not REPORTED
Alcohol Test (< 95 indicates BAC 0.xx)	0

Vehicle Factors

Make-Model	Dodge B-series Van
Year	1994
Class	PASSENGER CAR
Body Type	LARGE VAN
Weight	208

Pre-Crash Driver Data

Accident Type	2
Pre-event Movement	GOING STRAIGHT
Critical Pre-crash Event	TRAVEL TOO FAST
Attempted Avoidance Manuever	BRAKE+STEER LEFT
Pre-impact Stability	LAT SKID-CTR CLK
Pre-impact Location	Left TRAVEL LANE

PASSENGER Factors

Age	7	Height	137	Weight	27
Gender					FEMALE-NOT PREG
Ejection					No EJECTION
Ejection Area					No EJECTION
Entrapment					Not ENTRAPPED

Restraint Factors

Restrain	Lap belt
AOPS	NO
Airbag Deployment	Not EQUIP/AVAIL
Airbag Deployment - 1 st Seat	Not EQUIP/AVAIL
Airbag Deployment - Oth Seat	Not EQUIP W/ OTH

Injuries

Occupant	1999-73-79-1-4
MAIS	0=None
Seat Position	Second right

AIS Level	Injury Description	Contacts
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Occupant: 1999-73-79-1-5



Fire Information

Fire Occurrence	Minor fire
Fire Origin	Engine compartment
Location of Fuel Leakage	No fuel leakage
Type of Fuel Tank	Metallic
Fuel Tank Location	Behind rear axle, centered
Fuel Cap Location	Left side, behind rear axle
Fuel Tank Damage	No damage
Fuel Type	Gasoline



Crash Severity

Nr. Quarter Turns	1 QUARTER TURN
Impact Speed	< 0.5KMPH
Total, Longitudal, and Lateral δV	< 0.5 KMPH < 0.5 KMPH <
Est. δV with sequence number	0.5 KMPH
Est. δV with sequence number	SEVERE 2
CDC	0 R D A O 3
Damage (C1-C6)	0 0 0 0 0 0
Crush (L and D)	0 0
Object Contacted 1	ROLLOVER-OVERTURN
Object Contacted 2	Other BARRIER

NASS Weighting Factor

Weighting factor	2947.6525249
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Rollover Characteristics

Number of Events	3
Rollover Initiation Type	TURN-OVER
Location of Rollover Initiation	ON ROADWAY
Rollover Initiation Object Contacted	TURN/FALL-OVER
Location on Vehicle where Principal Tripping Force was Applied	NONCONTACT FORCE
Direction of Initial Roll	ROLL RIGHT

Pre-Crash Environment

Traffic Flow	DVDED/NO BARRIER
Number of Travel Lanes	TWO
Roadway Alignment	STRAIGHT
Roadway Profile	LEVEL
Roadway Surface Type	ASPHALT
Roadway Surface Condition	DRY
Light Conditions	DAYLIGHT
Atmospheric Conditions	Other
Relation to Intersection	NONINTER/NONJUNC
Traffic Control Device	
Police Reported Alcohol Presence	Not REPORTED
Alcohol Test (< 95 indicates BAC 0.xx)	0

Vehicle Factors

Make-Model	Dodge B-series Van
Year	1994
Class	PASSENGER CAR
Body Type	LARGE VAN
Weight	208

Pre-Crash Driver Data

Accident Type	2
Pre-event Movement	GOING STRAIGHT
Critical Pre-crash Event	TRAVEL TOO FAST
Attempted Avoidance Manuever	BRAKE+STEER LEFT
Pre-impact Stability	LAT SKID-CTR CLK
Pre-impact Location	Left TRAVEL LANE

PASSENGER Factors

Age	4	Height	91	Weight	19
Gender			MALE		
Ejection			No EJECTION		
Ejection Area			No EJECTION		
Entrapment			Not ENTRAPPED		

Restraint Factors

Restrain	Lap belt
AOPS	NO
Airbag Deployment	Not EQUIP/AVAIL
Airbag Deployment - 1 st Seat	Not EQUIP/AVAIL
Airbag Deployment - Oth Seat	Not EQUIP W/ OTH

Injuries

Occupant	1999-73-79-1-5
MAIS	0=None
Seat Position	Third middle

AIS Level	Injury Description	Contacts
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Occupant: 1999-73-79-1-6



Fire Information

Fire Occurrence	Minor fire
Fire Origin	Engine compartment
Location of Fuel Leakage	No fuel leakage
Type of Fuel Tank	Metallic
Fuel Tank Location	Behind rear axle, centered
Fuel Cap Location	Left side, behind rear axle
Fuel Tank Damage	No damage
Fuel Type	Gasoline



Crash Severity

Nr. Quarter Turns	1 QUARTER TURN
Impact Speed	< 0.5KMPH
Total, Longitudal, and Lateral δV	< 0.5 KMPH < 0.5 KMPH <
Est. δV with sequence number	0.5 KMPH
CDC	SEVERE 2
Damage (C1-C6)	0 R D A O 3
Crush (L and D)	0 0 0 0 0 0
Object Contacted 1	0 0
Object Contacted 2	ROLLOVER-OVERTURN
	Other BARRIER

NASS Weighting Factor

Weighting factor	2947.6525249
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Rollover Characteristics

Number of Events	3
Rollover Initiation Type	TURN-OVER
Location of Rollover Initiation	ON ROADWAY
Rollover Initiation Object Contacted	TURN/FALL-OVER
Location on Vehicle where Principal Tripping Force was Applied	NONCONTACT FORCE
Direction of Initial Roll	ROLL RIGHT

Pre-Crash Environment

Traffic Flow	DVDED/NO BARRIER
Number of Travel Lanes	TWO
Roadway Alignment	STRAIGHT
Roadway Profile	LEVEL
Roadway Surface Type	ASPHALT
Roadway Surface Condition	DRY
Light Conditions	DAYLIGHT
Atmospheric Conditions	Other
Relation to Intersection	NONINTER/NONJUNC
Traffic Control Device	
Police Reported Alcohol Presence	Not REPORTED
Alcohol Test (< 95 indicates BAC 0.xx)	0

Vehicle Factors

Make-Model	Dodge B-series Van
Year	1994
Class	PASSENGER CAR
Body Type	LARGE VAN
Weight	208

Pre-Crash Driver Data

Accident Type	2
Pre-event Movement	GOING STRAIGHT
Critical Pre-crash Event	TRAVEL TOO FAST
Attempted Avoidance Manuever	BRAKE+STEER LEFT
Pre-impact Stability	LAT SKID-CTR CLK
Pre-impact Location	Left TRAVEL LANE

PASSENGER Factors

Age	1	Height	89	Weight	11
Gender			MALE		
Ejection			No EJECTION		
Ejection Area			No EJECTION		
Entrapment			Not ENTRAPPED		

Restraint Factors

Restrain	Lap w/ch/seat
AOPS	NO
Airbag Deployment	Not EQUIP/AVAIL
Airbag Deployment - 1 st Seat	Not EQUIP/AVAIL
Airbag Deployment - Oth Seat	Not EQUIP W/ OTH

Injuries

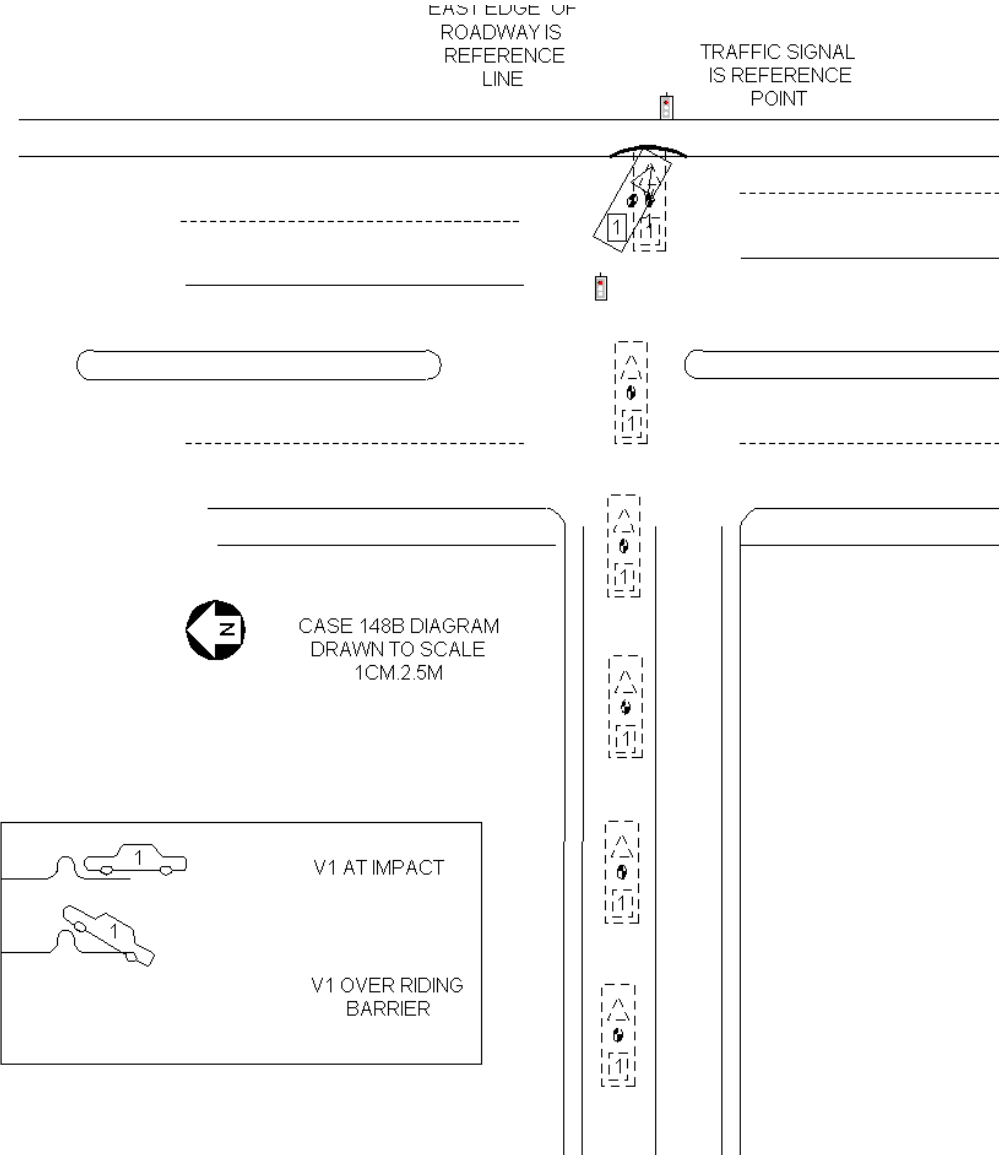
Occupant	1999-73-79-1-6
MAIS	0=None
Seat Position	Third right

AIS Level	Injury Description	Contacts
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62 Case 1999-74-148

Summary:

DRIVER OF V1 WAS HEADING EAST ON A 2 LANE ONEWAY EXIT RAMP, V1 FAILED TO STOP AT THE STOP LIGHT AT THE T-INTERSECTION OF THE ROADWAY AND CROSSED THE NORTH AND SOUTH ROADWAY. V1 THEN DROVE INTO A CEMENT BARRIER WALL ON THE EAST EDGE OF THE NORTH ROADWAY. V1 TRIED TO CLIMB THE BARRIER. AFTER THE ACCIDENT V1 SUSTAINED A BROKEN FUEL LINE IN THE ENGINE, CAUSING A FIRE IN THE ENGINE. V1 ENDED UP FACING EAST AFTER THE ACCIDENT. THE DRIVER OF V1 WAS TRANSPORTED TO THE HOSPITAL ALONG WITH THE PASSENGER.THE RIGHT FRONT PASSENGER WHO WAS PARTIALLY EJECTED THROUGH THE WINDSHIELD AND FOUND ON THE HOOD FROM THE WAIST UP, WITH HIS LEGS STILL IN THE VEHICLE. THE RIGHT FRONT PASSENGER LATER DIED AT A LOCAL TRUMA HOSPITAL. V1 WAS TOWED FROM THE SCENE OF THE CRASH. AT THE TIME OF THE CRASH. AT THE OF THIS CRASH ROADWAY WAS DRY AND MADE CONCRETE. IT WAS DARK WITH STREET LIGHTS. TRAFFIC SIGNAL LIGHTS CONTROLLED THE T-INTERSECTION.



Vehicle#	Body type	Make	Model	Year	Occ.#	Age	Occupant's sex	Maximum known occupant ais
1	LARGE PICKUP	Chevrolet	C/K-series Pickup	1978	1	20	MALE	2=Moderate
1	LARGE PICKUP	Chevrolet	C/K-series Pickup	1978	2	34	MALE	4=Severe

Occupant: 1999-74-148-1-1



Fire Information

Fire Occurrence	Major fire
Fire Origin	Engine compart
Location of Fuel Leakage	No fuel leakage
Type of Fuel Tank	Metallic
Fuel Tank Location	Forward of rear axle, left side
Fuel Cap Location	Left side, forward rear axle
Fuel Tank Damage	No damage
Fuel Type	Gasoline



Crash Severity

Nr. Quarter Turns	No rollover
Impact Speed	998
Total, Longitudal, and Lateral δV	123 -123 < 0.5 KMPH
Est. δV with sequence number	DELTA V CODED 1
CDC	12 F D E W 5
Damage (C1-C6)	119 121 130 128 128 122
Crush (L and D)	182 0
Object Contacted 1	CONCRETE BARRIER
Object Contacted 2	0

NASS Weighting Factor

Weighting factor	18.11219171
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Rollover Characteristics

Number of Events	2
Rollover Initiation Type	No rollover
Location of Rollover Initiation	No rollover
Rollover Initiation Object Contacted	No rollover
Location on Vehicle where Principal Tripping Force was Applied	No rollover
Direction of Initial Roll	No rollover

Pre-Crash Environment

Traffic Flow	ONE WAY
Number of Travel Lanes	TWO
Roadway Alignment	STRAIGHT
Roadway Profile	LEVEL
Roadway Surface Type	CONCRETE
Roadway Surface Condition	DRY
Light Conditions	DARK/LIGHTED
Atmospheric Conditions	No ADVERSE COND
Relation to Intersection	INTERSECTION REL
Traffic Control Device	
Police Reported Alcohol Presence	ALCOHOL PRESENT
Alcohol Test (< 95 indicates BAC 0.xx)	27

Vehicle Factors

Make-Model	Chevrolet C/K-series Pickup
Year	1978
Class	TRUCK
Body Type	LARGE PICKUP
Weight	166

Pre-Crash Driver Data

Accident Type	14
Pre-event Movement	GOING STRAIGHT
Critical Pre-crash Event	END DEPARTURE
Attempted Avoidance Manuever	No AVOIDANCE
Pre-impact Stability	TRACKING
Pre-impact Location	STAYED IN LANE

DRIVER Factors

Age	20	Height	178	Weight	68
Gender			MALE		
Ejection			No EJECTION		
Ejection Area			No EJECTION		
Entrapment			Not ENTRAPPED		

Restraint Factors

Restrain	None used/avail
AOPS	NO
Airbag Deployment	Not EQUIP/AVAIL
Airbag Deployment - 1 st Seat	Not EQUIP/AVAIL
Airbag Deployment - Oth Seat	Not EQUIP W/ OTH

Injuries

Occupant	1999-74-148-1-1
MAIS	2=Moderate
Seat Position	Front left side

AIS Level	Injury Description	Contacts
2=Moderate	Facial skin laceration, major (>10 cm & into sub-Q)	Sterring hub
1=Minor	Facial skin contusion	Sterring hub
1=Minor	Teeth fracture	Sterring hub
1=Minor	Leg skin abrasion	Left apnel

Occupant: 1999-74-148-1-2



Fire Information

Fire Occurrence	Major fire
Fire Origin	Engine compart
Location of Fuel Leakage	No fuel leakage
Type of Fuel Tank	Metallic
Fuel Tank Location	Forward of rear axle, left side
Fuel Cap Location	Left side, forward rear axle
Fuel Tank Damage	No damage
Fuel Type	Gasoline



Crash Severity

Nr. Quarter Turns	No rollover
Impact Speed	998
Total, Longitudal, and Lateral δV	123 -123 < 0.5 KMPH
Est. δV with sequence number	DELTA V CODED 1
CDC	12 F D E W 5
Damage (C1-C6)	119 121 130 128 128 122
Crush (L and D)	182 0
Object Contacted 1	CONCRETE BARRIER
Object Contacted 2	0

NASS Weighting Factor

Weighting factor	18.11219171
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Rollover Characteristics

Number of Events	2
Rollover Initiation Type	No rollover
Location of Rollover Initiation	No rollover
Rollover Initiation Object Contacted	No rollover
Location on Vehicle where Principal Tripping Force was Applied	No rollover
Direction of Initial Roll	No rollover

Pre-Crash Environment

Traffic Flow	ONE WAY
Number of Travel Lanes	TWO
Roadway Alignment	STRAIGHT
Roadway Profile	LEVEL
Roadway Surface Type	CONCRETE
Roadway Surface Condition	DRY
Light Conditions	DARK/LIGHTED
Atmospheric Conditions	No ADVERSE COND
Relation to Intersection	INTERSECTION REL
Traffic Control Device	
Police Reported Alcohol Presence	ALCOHOL PRESENT
Alcohol Test (< 95 indicates BAC 0.xx)	27

Vehicle Factors

Make-Model	Chevrolet C/K-series Pickup
Year	1978
Class	TRUCK
Body Type	LARGE PICKUP
Weight	166

Pre-Crash Driver Data

Accident Type	14
Pre-event Movement	GOING STRAIGHT
Critical Pre-crash Event	END DEPARTURE
Attempted Avoidance Manuever	No AVOIDANCE
Pre-impact Stability	TRACKING
Pre-impact Location	STAYED IN LANE

PASSENGER Factors

Age	34	Height	175	Weight	77
Gender					MALE
Ejection					PARTIAL EJECTION
Ejection Area					WINDSHIELD
Entrapment					Not ENTRAPPED

Restraint Factors

Restrain	None used/avail
AOPS	NO
Airbag Deployment	Not EQUIP/AVAIL
Airbag Deployment - 1 st Seat	Not EQUIP/AVAIL
Airbag Deployment - Oth Seat	Not EQUIP W/ OTH

Injuries

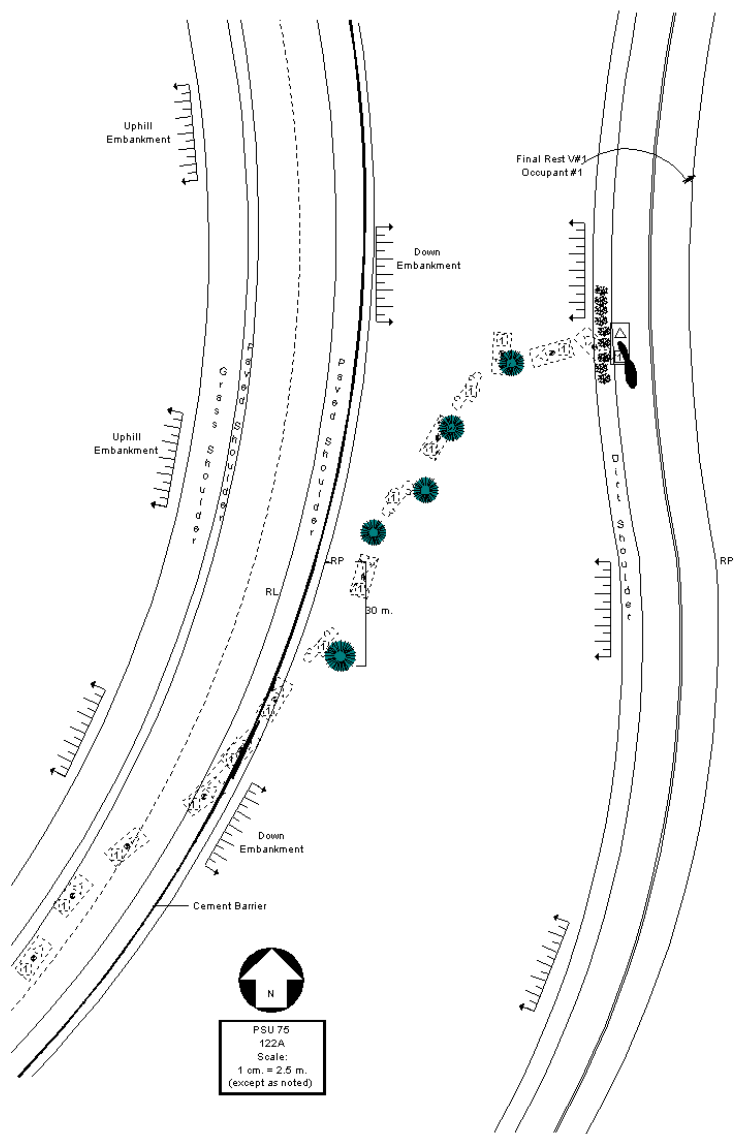
Occupant	1999-74-148-1-2
MAIS	4=Severe
Seat Position	Front right side

AIS Level	Injury Description	Contacts
3=Serious	Burn, 2nd or 3rd degree, 202=Moderate	Pleural laceration
Hood		
1=Minor	Single rib fracture	Hood
3=Serious	Lung contusion, unilateral	Hood
4=Severe	Hepatic laceration, major (<501=Minor	Adrenal gland contusion, minor
Right panel		
2=Moderate	Kidney contusion, minor (subcapsular, nonexpanding)	Right panel
2=Moderate	Wrist (carpus) joint dislocation (radio/inter/pericarpal)	Hood
2=Moderate	Arm, forearm, hand fracture NFS	Hood
2=Moderate	Hip joint dislocation NFS	Right panel
1=Minor	Upper extremity skin contusion	Hood
1=Minor	Leg skin abrasion	Right panel
1=Minor	Leg skin contusion (hematoma)	Right panel
1=Minor	Thoracic skin abrasion	Right panel
1=Minor	Thoracic skin contusion	Right panel
1=Minor	Teeth avulsion	Windshield
1=Minor	Facial skin laceration, minor	Windshield
1=Minor	Facial skin contusion	Windshield
1=Minor	Facial skin abrasion	Windshield
1=Minor	Facial skin abrasion	Windshield
1=Minor	Facial skin abrasion	Windshield

63 Case 1999-75-122

Summary:

V#1 was traveling westbound on a two lane, one-way state highway, negotiating a left curve. V#1 was in the #2 travel lane when control of the vehicle was lost. The driver over-corrected to the right, collided with a concrete barrier, traveled up and over the barrier and dropped approximately 4.5 meters onto a steep downhill embankment. V#1 rolled down the embankment several times, colliding with several trees while rolling over. After impacting the fifth tree with its left side, the vehicle rotated clockwise, fell approximately 6 meters down to a two-way mountain roadway below and came to rest on its wheels facing north. The driver was ejected during the rollover and came to rest on the two-way roadway approximately 35 meters northeast of V#1's final rest. The vehicle was towed from the scene. The driver was pronounced dead at the scene.



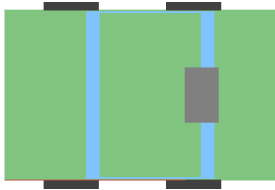
Vehicle	Body type	Make	Model	Year	Occ.#	Age	Occupant's sex	Maximum known occupant ais
1	3DR/2DR HATCHBAK	Pontiac	Firebird/Trans AM	1998	1	40	MALE	5=Critical

Occupant: 1999-75-122-1-1



Fire Information

Fire Occurrence	No fire
Fire Origin	No fire
Location of Fuel Leakage	Filler neck
Type of Fuel Tank	Metallic
Fuel Tank Location	Behind rear axle, centered
Fuel Cap Location	Left side, behind rear axle
Fuel Tank Damage	Deformed
Fuel Type	Gasoline



Pre-Crash Environment

Traffic Flow	ONE WAY
Number of Travel Lanes	TWO
Roadway Alignment	CURVE LEFT
Roadway Profile	UPHILL GRADE
Roadway Surface Type	ASPHALT
Roadway Surface Condition	DRY
Light Conditions	DARK/LIGHTED
Atmospheric Conditions	No ADVERSE COND
Relation to Intersection	NONINTER/NONJUNC
Traffic Control Device	
Police Reported Alcohol Presence	ALCOHOL PRESENT
Alcohol Test (< 95 indicates BAC 0.xx)	28

Crash Severity

Nr. Quarter Turns	No rollover
Impact Speed	< 0.5KMPH
Total, Longitudal, and Lateral δV	< 0.5 KMPH < 0.5 KMPH < 0.5 KMPH
Est. δV with sequence number	MODERATE 6
CDC	9 L Y A W 0
Damage (C1-C6)	0 0 0 0 0
Crush (L and D)	0 0
Object Contacted 1	LARGE TREE
Object Contacted 2	CONCRETE BARRIER

NASS Weighting Factor

Weighting factor	55.970034976
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Rollover Characteristics

Number of Events	6
Rollover Initiation Type	No rollover
Location of Rollover Initiation	No rollover
Rollover Initiation Object Contacted	No rollover
Location on Vehicle where Principal Tripping Force was Applied	No rollover
Direction of Initial Roll	No rollover

Vehicle Factors

Make-Model	Pontiac Firebird/Trans AM
Year	1998
Class	PASSENGER CAR
Body Type	3DR/2DR HATCHBAK
Weight	156

Pre-Crash Driver Data

Accident Type	2
Pre-event Movement	NEGOTIATE CURVE
Critical Pre-crash Event	TRAVEL TOO FAST
Attempted Avoidance Manuever	BRAKE+STEER RT
Pre-impact Stability	LATERAL SKID-CLK
Pre-impact Location	DEPARTED ROADWAY

DRIVER Factors

Age	40	Height	183	Weight	88
Gender					MALE
Ejection					COMPLETE EJECT
Ejection Area					No EJECTION
Entrapment					Not ENTRAPPED

Restraint Factors

Restrain	None used/avail
AOPS	YES-RES DET
Airbag Deployment	BAG DEPLOYED
Airbag Deployment - 1 st Seat	DR
PAS BAG DEPLY	
Airbag Deployment - Oth Seat	Not EQUIP W/ OTH

Injuries

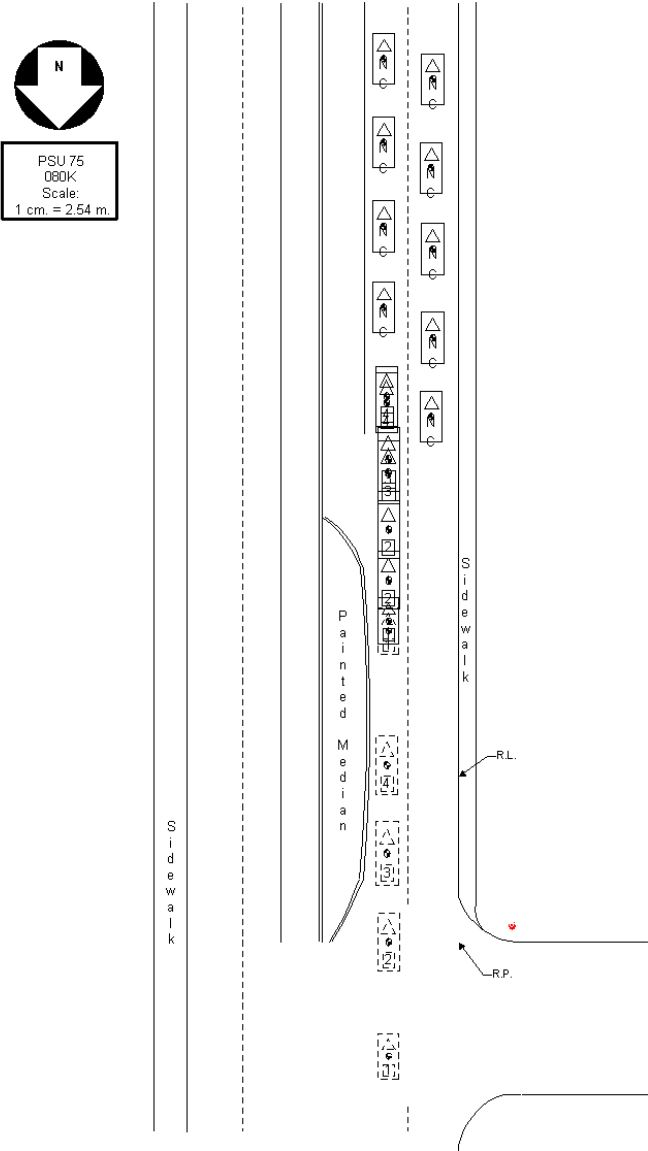
Occupant	1999-75-122-1-1
MAIS	5=Critical
Seat Position	Front left side

AIS Level	Injury Description	Contacts
5=Critical	Unconscious on admission, inappropriate movements	Unknown SOURCE
2=Moderate	Skull fracture, vault, NFS	Unknown SOURCE
3=Serious	Femur fracture NFS	Unknown SOURCE
3=Serious	Femur fracture NFS	Unknown SOURCE
1=Minor	Scalp laceration, minor	Unknown SOURCE
1=Minor	Facial skin abrasion	Unknown SOURCE
1=Minor	Thoracic skin abrasion	Unknown SOURCE
1=Minor	Upper extremity skin abrasion	Unknown SOURCE
1=Minor	690602	Unknown SOURCE

64 Case 1999-75-80

Summary:

V#4, V#3, V#2 and V#1 were all traveling southbound on a two-way, six lane roadway with two northbound through lanes and a left turn lane and two southbound through lanes and a left turn lane. All four vehicles were traveling in the southbound left through lane. Approximately two blocks from this crash scene there is a four-way intersection controlled by traffic lights. All four vehicles were traveling uphill and the traffic signal light is not visible until after the crest of the hill. Traffic in front of V#4 was stopped due to a red light. V#4, V#3 and V#2 came to a complete stop. V#1 continued forward and the front of V#1 contacted the back of V#2. V#2 was pushed forward and the front of V#2 contacted the back of V#3. V#3 was pushed forward and the front of vehicle #3 contacted the back of V#4. All four vehicles came to rest in the southbound left through lane facing south. V#1 and V#2 were towed from the scene. V#3 and V#4 were driven. The driver and occupant of V#1 and the driver of V#2 were transported for treatment. Occupant #2 from V#1 was hospitalized. The occupants in V#3 and V#4 were not injured.



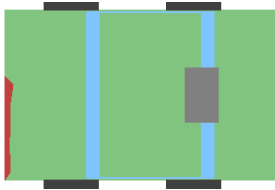
Vehicle	Body type	Make	Model	Year	Occ.#	Age	Occupant's sex	Maximum known occupant ais
1	COMPACT UTILITY	Chevrolet	Geo-Tracker	1995	1	21	FEMALE-NOT PREG	1=Minor
1	COMPACT UTILITY	Chevrolet	Geo-Tracker	1995	2	14	FEMALE-NOT PREG	3=Serious
2	4-DR SEDAN/HDTOP	Saturn	SL	1997	1	54	FEMALE-NOT PREG	1=Minor
2	4-DR SEDAN/HDTOP	Saturn	SL	1997	2	15	MALE	0=None

Occupant: 1999-75-80-1-1



Fire Information

Fire Occurrence	No fire
Fire Origin	No fire
Location of Fuel Leakage	No fuel leakage
Type of Fuel Tank	Metallic
Fuel Tank Location	Behind rear axle, centered
Fuel Cap Location	Right side, behind rear axle
Fuel Tank Damage	No damage
Fuel Type	Gasoline



Pre-Crash Environment

Traffic Flow	DVDED/NO BARRIER
Number of Travel Lanes	THREE
Roadway Alignment	STRAIGHT
Roadway Profile	UPHILL GRADE
Roadway Surface Type	ASPHALT
Roadway Surface Condition	DRY
Light Conditions	DAYLIGHT
Atmospheric Conditions	No ADVERSE COND
Relation to Intersection	INTERSECTION REL
Traffic Control Device	
Police Reported Alcohol Presence	No ALCOHOL
Alcohol Test (< 95 indicates BAC 0.xx)	0

Crash Severity

Nr. Quarter Turns	No rollover
Impact Speed	998
Total, Longitudal, and Lateral δV	26 -26 < 0.5 KMPH
Est. δV with sequence number	DELTA V CODED 1
CDC	12 F D E W 1
Damage (C1-C6)	9 8 8 9 9 13
Crush (L and D)	154 0
Object Contacted 1	VEHICLE NO. 2
Object Contacted 2	0

NASS Weighting Factor

Weighting factor	52.674217958
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Rollover Characteristics

Number of Events	3
Rollover Initiation Type	No rollover
Location of Rollover Initiation	No rollover
Rollover Initiation Object Contacted	No rollover
Location on Vehicle where Principal Tripping Force was Applied	No rollover
Direction of Initial Roll	No rollover

Vehicle Factors

Make-Model	Chevrolet Geo-Tracker
Year	1995
Class	PASSENGER CAR
Body Type	COMPACT UTILITY
Weight	114

Pre-Crash Driver Data

Accident Type	20
Pre-event Movement	GOING STRAIGHT
Critical Pre-crash Event	STOPPED
Attempted Avoidance Manuever	No AVOIDANCE
Pre-impact Stability	TRACKING
Pre-impact Location	STAYED IN LANE

DRIVER Factors

Age	21	Height	158	Weight	59
Gender					FEMALE-NOT PREG
Ejection					No EJECTION
Ejection Area					No EJECTION
Entrapment					Not ENTRAPPED

Restraint Factors

Restrain	None used/avail
AOPS	NO
Airbag Deployment	Not EQUIP/AVAIL
Airbag Deployment - 1 st Seat	Not EQUIP/AVAIL
Airbag Deployment - Oth Seat	Not EQUIP W/ OTH

Injuries

Occupant	1999-75-80-1-1
MAIS	1=Minor
Seat Position	Front left side

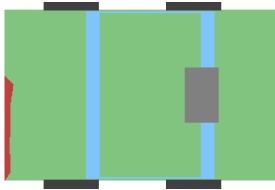
AIS Level	Injury Description	Contacts
1=Minor	Acute cervical spine strain without fracture or dislocation	Windshield

Occupant: 1999-75-80-1-2



Fire Information

Fire Occurrence	No fire
Fire Origin	No fire
Location of Fuel Leakage	No fuel leakage
Type of Fuel Tank	Metallic
Fuel Tank Location	Behind rear axle, centered
Fuel Cap Location	Right side, behind rear axle
Fuel Tank Damage	No damage
Fuel Type	Gasoline



Pre-Crash Environment

Traffic Flow	DVDED/NO BARRIER
Number of Travel Lanes	THREE
Roadway Alignment	STRAIGHT
Roadway Profile	UPHILL GRADE
Roadway Surface Type	ASPHALT
Roadway Surface Condition	DRY
Light Conditions	DAYLIGHT
Atmospheric Conditions	No ADVERSE COND
Relation to Intersection	INTERSECTION REL
Traffic Control Device	
Police Reported Alcohol Presence	No ALCOHOL
Alcohol Test (< 95 indicates BAC 0.xx)	0

Crash Severity

Nr. Quarter Turns	No rollover
Impact Speed	998
Total, Longitudal, and Lateral δV	26 -26 < 0.5 KMPH
Est. δV with sequence number	DELTA V CODED 1
CDC	12 F D E W 1
Damage (C1-C6)	9 8 8 9 9 13
Crush (L and D)	154 0
Object Contacted 1	VEHICLE NO. 2
Object Contacted 2	0

NASS Weighting Factor

Weighting factor	52.674217958
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Rollover Characteristics

Number of Events	3
Rollover Initiation Type	No rollover
Location of Rollover Initiation	No rollover
Rollover Initiation Object Contacted	No rollover
Location on Vehicle where Principal Tripping Force was Applied	No rollover
Direction of Initial Roll	No rollover

Vehicle Factors

Make-Model	Chevrolet Geo-Tracker
Year	1995
Class	PASSENGER CAR
Body Type	COMPACT UTILITY
Weight	114

Pre-Crash Driver Data

Accident Type	20
Pre-event Movement	GOING STRAIGHT
Critical Pre-crash Event	STOPPED
Attempted Avoidance Manuever	No AVOIDANCE
Pre-impact Stability	TRACKING
Pre-impact Location	STAYED IN LANE

PASSENGER Factors

Age	14	Height	158	Weight	50
Gender					FEMALE-NOT PREG
Ejection					No EJECTION
Ejection Area					No EJECTION
Entrapment					Not ENTRAPPED

Restraint Factors

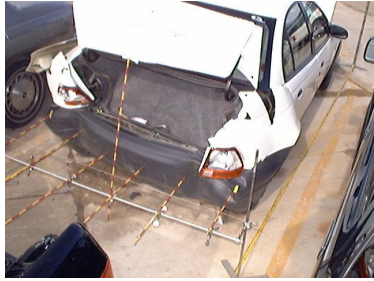
Restrain	None used/avail
AOPS	NO
Airbag Deployment	Not EQUIP/AVAIL
Airbag Deployment - 1 st Seat	Not EQUIP/AVAIL
Airbag Deployment - Oth Seat	Not EQUIP W/ OTH

Injuries

Occupant	1999-75-80-1-2
MAIS	3=Serious
Seat Position	Front right side

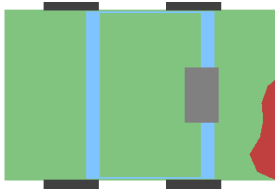
AIS Level	Injury Description	Contacts
3=Serious	Hepatic laceration, moderate (>3cms deep, EBL>201=Minor	Awake on admission, never unconscious
Windshield		
1=Minor	Facial skin abrasion	Windshield
1=Minor	297202	Windshield
1=Minor	Facial skin abrasion	Windshield
1=Minor	Facial skin contusion	Windshield

Occupant: 1999-75-80-2-1



Fire Information

Fire Occurrence	No fire
Fire Origin	No fire
Location of Fuel Leakage	Filler neck
Type of Fuel Tank	Metallic
Fuel Tank Location	Forward of rear axle, centered
Fuel Cap Location	Left side, behind rear axle
Fuel Tank Damage	No damage
Fuel Type	Gasoline



Pre-Crash Environment

Traffic Flow	DVDED/NO BARRIER
Number of Travel Lanes	THREE
Roadway Alignment	STRAIGHT
Roadway Profile	UPHILL GRADE
Roadway Surface Type	ASPHALT
Roadway Surface Condition	DRY
Light Conditions	DAYLIGHT
Atmospheric Conditions	No ADVERSE COND
Relation to Intersection	INTERSECTION REL
Traffic Control Device	
Police Reported Alcohol Presence	No ALCOHOL
Alcohol Test (< 95 indicates BAC 0.xx)	0

Crash Severity

Nr. Quarter Turns	No rollover
Impact Speed	998
Total, Longitudal, and Lateral δV	28 28 < 0.5 KMPH
Est. δV with sequence number	DELTA V CODED 1
CDC	6 B D E W 5
Damage (C1-C6)	28 40 25 20 22 13
Crush (L and D)	150 0
Object Contacted 1	VEHICLE NO. 1
Object Contacted 2	VEHICLE NO. 3

NASS Weighting Factor

Weighting factor	52.674217958
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Rollover Characteristics

Number of Events	3
Rollover Initiation Type	No rollover
Location of Rollover Initiation	No rollover
Rollover Initiation Object Contacted	No rollover
Location on Vehicle where Principal Tripping Force was Applied	No rollover
Direction of Initial Roll	No rollover

Vehicle Factors

Make-Model	Saturn SL
Year	1997
Class	PASSENGER CAR
Body Type	4-DR SEDAN/HDTOP
Weight	105

Pre-Crash Driver Data

Accident Type	21
Pre-event Movement	STOPPED IN LANE
Critical Pre-crash Event	Same DIR-HISPEED
Attempted Avoidance Manuever	No AVOIDANCE
Pre-impact Stability	TRACKING
Pre-impact Location	STAYED IN LANE

DRIVER Factors

Age	54	Height	165	Weight	61
Gender					FEMALE-NOT PREG
Ejection					No EJECTION
Ejection Area					No EJECTION
Entrapment					Not ENTRAPPED

Restraint Factors

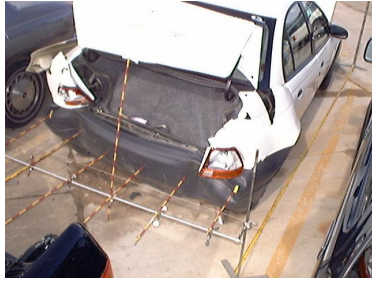
Restrain	Lap and shoulder
AOPS	YES-RES DET
Airbag Deployment	BAG DEPLOYED
Airbag Deployment - 1 st Seat	DR
PAS BAG DEPLY	
Airbag Deployment - Oth Seat	Not EQUIP W/ OTH

Injuries

Occupant	1999-75-80-2-1
MAIS	1=Minor
Seat Position	Front left side

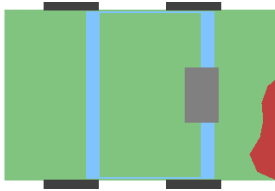
AIS Level	Injury Description	Contacts
1=Minor	Leg skin contusion (hematoma)	Knee bolster
1=Minor	Acute cervical spine strain without fracture or dislocation	Belt webb/buckle
1=Minor	Lumbar spine acute strain without fracture or dislocation	Seat, back

Occupant: 1999-75-80-2-2



Fire Information

Fire Occurrence	No fire
Fire Origin	No fire
Location of Fuel Leakage	Filler neck
Type of Fuel Tank	Metallic
Fuel Tank Location	Forward of rear axle, centered
Fuel Cap Location	Left side, behind rear axle
Fuel Tank Damage	No damage
Fuel Type	Gasoline



Pre-Crash Environment

Traffic Flow	DVDED/NO BARRIER
Number of Travel Lanes	THREE
Roadway Alignment	STRAIGHT
Roadway Profile	UPHILL GRADE
Roadway Surface Type	ASPHALT
Roadway Surface Condition	DRY
Light Conditions	DAYLIGHT
Atmospheric Conditions	No ADVERSE COND
Relation to Intersection	INTERSECTION REL
Traffic Control Device	
Police Reported Alcohol Presence	No ALCOHOL
Alcohol Test (< 95 indicates BAC 0.xx)	0

Vehicle Factors

Make-Model	Saturn SL
Year	1997
Class	PASSENGER CAR
Body Type	4-DR SEDAN/HDTOP
Weight	105

Crash Severity

Nr. Quarter Turns	No rollover
Impact Speed	998
Total, Longitudal, and Lateral δV	28 28 < 0.5 KMPH
Est. δV with sequence number	DELTA V CODED 1
CDC	6 B D E W 5
Damage (C1-C6)	28 40 25 20 22 13
Crush (L and D)	150 0
Object Contacted 1	VEHICLE NO. 1
Object Contacted 2	VEHICLE NO. 3

Pre-Crash Driver Data

Accident Type	21
Pre-event Movement	STOPPED IN LANE
Critical Pre-crash Event	Same DIR-HISPEED
Attempted Avoidance Manuever	No AVOIDANCE
Pre-impact Stability	TRACKING
Pre-impact Location	STAYED IN LANE

NASS Weighting Factor

Weighting factor	52.674217958
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PASSENGER Factors

Age	15	Height	170	Weight	61
Gender			MALE		
Ejection			No EJECTION		
Ejection Area			No EJECTION		
Entrapment			Not ENTRAPPED		

Rollover Characteristics

Number of Events	3
Rollover Initiation Type	No rollover
Location of Rollover Initiation	No rollover
Rollover Initiation Object Contacted	No rollover
Location on Vehicle where Principal Tripping Force was Applied	No rollover
Direction of Initial Roll	No rollover

Restraint Factors

Restrain	None used/avail
AOPS	YES-RES DET
Airbag Deployment	BAG DEPLOYED
Airbag Deployment - 1 st Seat	DR
PAS BAG DEPLY	
Airbag Deployment - Oth Seat	Not EQUIP W/ OTH

Injuries

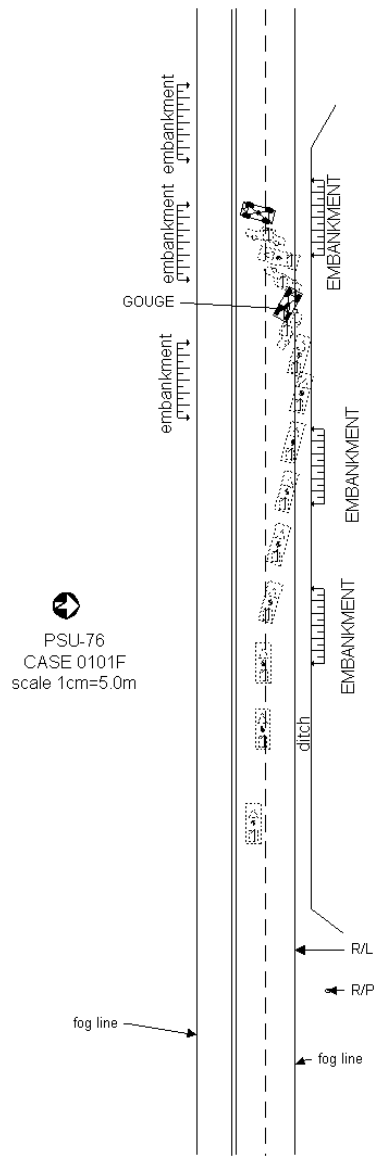
Occupant	1999-75-80-2-2
MAIS	0=None
Seat Position	Front right side

AIS Level	Injury Description	Contacts
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65 Case 1999-76-101

Summary:

This crash occurred on a 3 lane, asphalt constructed roadway. Roadway is hilly with S curves. this crash occurred during daytime with no adverse atmospheric conditions. Vehicle #1, a 1994 Toyota Pickup 4X4. was westbound when the driver steered right off the roadway and impacted the embankment. Vehicle #1 rolled over 6 quarters and came to rest on its roof heading in a South-easterly direction. Vehicle #1 caught on fire and burned in the final rest position. Vehicle was towed due to damages and fire. Both occupants were transported, treated and released.



Vehicle	Body type	Make	Model	Year	Occ.#	Age	Occupant's sex	Maximum known occupant ais
1	COMPACT PICKUP	Toyota	Pickup	1994	1	52	MALE	1=Minor
1	COMPACT PICKUP	Toyota	Pickup	1994	2	72	MALE	1=Minor

Occupant: 1999-76-101-1-1



Fire Information

Fire Occurrence	Major fire
Fire Origin	Engine compartment
Location of Fuel Leakage	No fuel leakage
Type of Fuel Tank	Metallic
Fuel Tank Location	Forward of rear axle, right side
Fuel Cap Location	Right side, forward rear axle
Fuel Tank Damage	No damage
Fuel Type	Gasoline



Pre-Crash Environment

Traffic Flow	Not DIVIDED
Number of Travel Lanes	THREE
Roadway Alignment	STRAIGHT
Roadway Profile	UPHILL GRADE
Roadway Surface Type	ASPHALT
Roadway Surface Condition	DRY
Light Conditions	DAYLIGHT
Atmospheric Conditions	No ADVERSE COND
Relation to Intersection	NONINTER/NONJUNC
Traffic Control Device	
Police Reported Alcohol Presence	No ALCOHOL
Alcohol Test (< 95 indicates BAC 0.xx)	0

Crash Severity

Nr. Quarter Turns	6 QUARTER TURNS
Impact Speed	< 0.5KMPH
Total, Longitudal, and Lateral δV	< 0.5 KMPH < 0.5 KMPH <
Est. δV with sequence number	0.5 KMPH SEVERE 1
CDC	1 F R L W 2
Damage (C1-C6)	14 8 15 20 27 42
Crush (L and D)	165 69
Object Contacted 1	EMBANKMENT
Object Contacted 2	ROLLOVER-OVERTURN

NASS Weighting Factor

Weighting factor	2074.5290452
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Rollover Characteristics

Number of Events	3
Rollover Initiation Type	FLIP-OVER
Location of Rollover Initiation	ROADSIDE/MEDIAN
Rollover Initiation Object Contacted	EMBANKMENT
Location on Vehicle where Principal Tripping Force was Applied	UNDERCARRIAGE
Direction of Initial Roll	ROLL LEFT

Vehicle Factors

Make-Model	Toyota Pickup
Year	1994
Class	TRUCK
Body Type	COMPACT PICKUP
Weight	176

Pre-Crash Driver Data

Accident Type	1
Pre-event Movement	GOING STRAIGHT
Critical Pre-crash Event	OFF EDGE-RIGHT
Attempted Avoidance Manuever	No AVOIDANCE
Pre-impact Stability	TRACKING
Pre-impact Location	DEPARTED ROADWAY

DRIVER Factors

Age	52	Height	180	Weight	100
Gender			MALE		
Ejection			No EJECTION		
Ejection Area			No EJECTION		
Entrapment			Not ENTRAPPED		

Restraint Factors

Restrain	Lap and shoulder
AOPS	NO
Airbag Deployment	Not EQUIP/AVAIL
Airbag Deployment - 1 st Seat	Not EQUIP/AVAIL
Airbag Deployment - Oth Seat	Not EQUIP W/ OTH

Injuries

Occupant	1999-76-101-1-1
MAIS	1=Minor
Seat Position	Front left side

AIS Level	Injury Description	Contacts
1=Minor	Thoracic skin abrasion	Belt webb/buckle
1=Minor	Facial skin laceration, minor	Flying glass
1=Minor	Upper extremity skin abrasion	Left apnel
1=Minor	Thoracic skin contusion	Belt webb/buckle
1=Minor	Upper extremity skin contusion	Left apnel
1=Minor	Leg skin contusion (hematoma)	Steering rim

Occupant: 1999-76-101-1-2



Fire Information

Fire Occurrence	Major fire
Fire Origin	Engine compart
Location of Fuel Leakage	No fuel leakage
Type of Fuel Tank	Metallic
Fuel Tank Location	Forward of rear axle, right side
Fuel Cap Location	Right side, forward rear axle
Fuel Tank Damage	No damage
Fuel Type	Gasoline



Pre-Crash Environment

Traffic Flow	Not DIVIDED
Number of Travel Lanes	THREE
Roadway Alignment	STRAIGHT
Roadway Profile	UPHILL GRADE
Roadway Surface Type	ASPHALT
Roadway Surface Condition	DRY
Light Conditions	DAYLIGHT
Atmospheric Conditions	No ADVERSE COND
Relation to Intersection	NONINTER/NONJUNC
Traffic Control Device	
Police Reported Alcohol Presence	No ALCOHOL
Alcohol Test (< 95 indicates BAC 0.xx)	0

Crash Severity

Nr. Quarter Turns	6 QUARTER TURNS
Impact Speed	< 0.5KMPH
Total, Longitudal, and Lateral δV	< 0.5 KMPH < 0.5 KMPH <
Est. δV with sequence number	0.5 KMPH SEVERE 1
CDC	1 F R L W 2
Damage (C1-C6)	14 8 15 20 27 42
Crush (L and D)	165 69
Object Contacted 1	EMBANKMENT
Object Contacted 2	ROLLOVER-OVERTURN

NASS Weighting Factor

Weighting factor	2074.5290452
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Rollover Characteristics

Number of Events	3
Rollover Initiation Type	FLIP-OVER
Location of Rollover Initiation	ROADSIDE/MEDIAN
Rollover Initiation Object Contacted	EMBANKMENT
Location on Vehicle where Principal Tripping Force was Applied	UNDERCARRIAGE
Direction of Initial Roll	ROLL LEFT

Vehicle Factors

Make-Model	Toyota Pickup
Year	1994
Class	TRUCK
Body Type	COMPACT PICKUP
Weight	176

Pre-Crash Driver Data

Accident Type	1
Pre-event Movement	GOING STRAIGHT
Critical Pre-crash Event	OFF EDGE-RIGHT
Attempted Avoidance Manuever	No AVOIDANCE
Pre-impact Stability	TRACKING
Pre-impact Location	DEPARTED ROADWAY

PASSENGER Factors

Age	72	Height	178	Weight	98
Gender					MALE
Ejection					No EJECTION
Ejection Area					No EJECTION
Entrapment					Not ENTRAPPED

Restraint Factors

Restrain	Lap and shoulder
AOPS	NO
Airbag Deployment	Not EQUIP/AVAIL
Airbag Deployment - 1 st Seat	Not EQUIP/AVAIL
Airbag Deployment - Oth Seat	Not EQUIP W/ OTH

Injuries

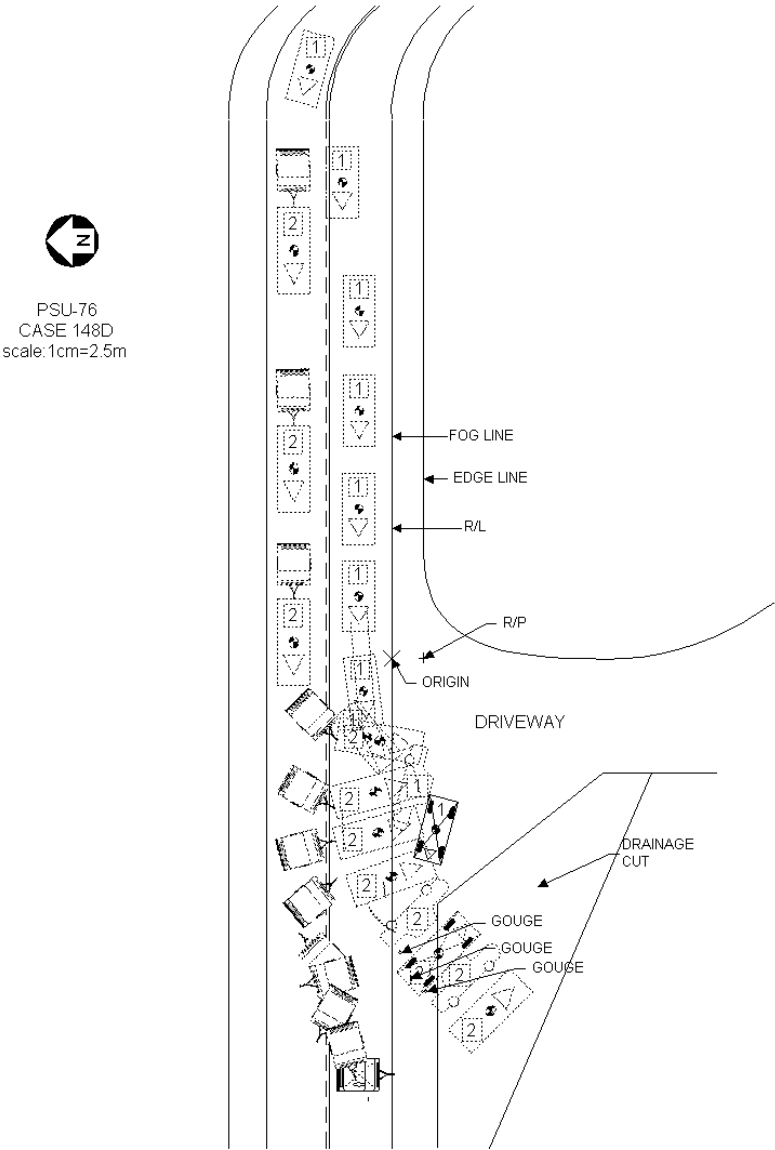
Occupant	1999-76-101-1-2
MAIS	1=Minor
Seat Position	Front right side

AIS Level	Injury Description	Contacts
1=Minor	Scalp laceration, minor	Right panel

66 Case 1999-76-148

Summary:

This crash occurred on two lane non divided roadway. Roadway is straight with a downgrade of -4 percent. This crash occurred during daylight with no adverse weather conditions. Vehicle #1, a 1990 Jeep Cherokee 4 door utility vehicle, was Westbound and was passing vehicle #1 when Vehicle #1 began to turn left into a access driveway. Vehicle #1 impacted Vehicle #2 with it's front plane and then rolled over 2 quarters to the left side coming to rest on it's roof heading West. Vehicle #2, a 1986 Ford 1 ton truck, was Westbound and pulling a trailer with a water container and began to turn left across the Eastbound lane to exit the roadway and into a driveway. Vehicle #2 was partway across the Eastbound lane when it was impacted by Vehicle #1 on it's left side just behind the drivers door. Vehicle #2 rotated counterclockwise and the rolled over 4 quarters on it's right side coming to rest off the roadway on it's wheels, heading Southeast. Both vehicles were towed for damages. Driver and occupant #2 of vehicle #1 were transported and released. Occupant #3 of vehicle #1 was not injured. Driver and occupant of vehicle #2 refused treatment or transportation for injuries, however, the driver was transported at a later time to a medical clinic where he was treated and released.



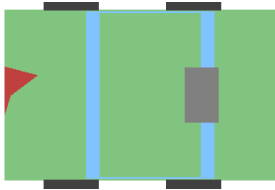
Vehicle	Body type	Make	Model	Year	Occ.#	Age	Occupant's sex	Maximum known occupant ais
1	COMPACT UTILITY	Jeep	Cherokee84-	1990	1	26	MALE	2=Moderate
1	COMPACT UTILITY	Jeep	Cherokee84-	1990	2	20	FEMALE-NOT PREG	1=Minor
1	COMPACT UTILITY	Jeep	Cherokee84-	1990	3	1	MALE	0=None
2	LARGE PICKUP	Ford	F-series P/U	1986	1	49	MALE	1=Minor
2	LARGE PICKUP	Ford	F-series P/U	1986	2	50	MALE	1=Minor

Occupant: 1999-76-148-1-1



Fire Information

Fire Occurrence	No fire
Fire Origin	No fire
Location of Fuel Leakage	Line/pump/filter
Type of Fuel Tank	Metallic
Fuel Tank Location	Behind rear axle, centered
Fuel Cap Location	Left side, behind rear axle
Fuel Tank Damage	No damage
Fuel Type	Gasoline



Pre-Crash Environment

Traffic Flow	Not DIVIDED
Number of Travel Lanes	TWO
Roadway Alignment	STRAIGHT
Roadway Profile	DOWNHILL GRADE
Roadway Surface Type	ASPHALT
Roadway Surface Condition	DRY
Light Conditions	DAYLIGHT
Atmospheric Conditions	No ADVERSE COND
Relation to Intersection	DRIVEWAY RELATED
Traffic Control Device	
Police Reported Alcohol Presence	No ALCOHOL
Alcohol Test (< 95 indicates BAC 0.xx)	1

Crash Severity

Nr. Quarter Turns	2 QUARTER TURNS
Impact Speed	< 0.5KMPH
Total, Longitudal, and Lateral δV	< 0.5 KMPH < 0.5 KMPH < 0.5 KMPH
Est. δV with sequence number	>24 AND <40 KMPH 1
CDC	12 F D E W 2
Damage (C1-C6)	0 0 0 1 9 48
Crush (L and D)	168 0
Object Contacted 1	VEHICLE NO. 2
Object Contacted 2	ROLLOVER-OVERTURN

NASS Weighting Factor

Weighting factor	126.08146135
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Rollover Characteristics

Number of Events	3
Rollover Initiation Type	COLLISION W/VEH
Location of Rollover Initiation	ON ROADWAY
Rollover Initiation Object Contacted	VEHICLE NO. 2
Location on Vehicle where Principal Tripping Force was Applied	SIDE PLANE
Direction of Initial Roll	ROLL LEFT

Vehicle Factors

Make-Model	Jeep Cherokee84-
Year	1990
Class	TRUCK
Body Type	COMPACT UTILITY
Weight	138

Pre-Crash Driver Data

Accident Type	73
Pre-event Movement	GOING STRAIGHT
Critical Pre-crash Event	OVER LINE-LEFT
Attempted Avoidance Manuever	BRAKE+STEER LEFT
Pre-impact Stability	LONGITUDINAL SKID
Pre-impact Location	Left TRAVEL LANE

DRIVER Factors

Age	26	Height	178	Weight	91
Gender					MALE
Ejection					No EJECTION
Ejection Area					No EJECTION
Entrapment					Not ENTRAPPED

Restraint Factors

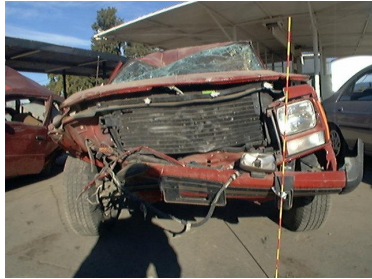
Restrain	Lap and shoulder
AOPS	NO
Airbag Deployment	Not EQUIP/AVAIL
Airbag Deployment - 1 st Seat	Not EQUIP/AVAIL
Airbag Deployment - Oth Seat	Not EQUIP W/ OTH

Injuries

Occupant	1999-76-148-1-1
MAIS	2=Moderate
Seat Position	Front left side

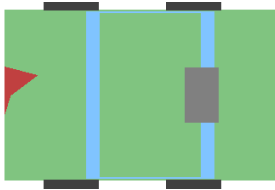
AIS Level	Injury Description	Contacts
2=Moderate	Maxillary fracture, closed	Steering rim
1=Minor	Scalp contusion	Steering rim
2=Moderate	Awake on admission, unconscious <1 hour	Steering rim
1=Minor	Facial skin abrasion	Steering rim
1=Minor	Facial skin abrasion	Flying glass
1=Minor	Upper extremity skin laceration, minor	Left apnel
1=Minor	Scalp contusion	Roof

Occupant: 1999-76-148-1-2



Fire Information

Fire Occurrence	No fire
Fire Origin	No fire
Location of Fuel Leakage	Line/pump/filter
Type of Fuel Tank	Metallic
Fuel Tank Location	Behind rear axle, centered
Fuel Cap Location	Left side, behind rear axle
Fuel Tank Damage	No damage
Fuel Type	Gasoline



Pre-Crash Environment

Traffic Flow	Not DIVIDED
Number of Travel Lanes	TWO
Roadway Alignment	STRAIGHT
Roadway Profile	DOWNHILL GRADE
Roadway Surface Type	ASPHALT
Roadway Surface Condition	DRY
Light Conditions	DAYLIGHT
Atmospheric Conditions	No ADVERSE COND
Relation to Intersection	DRIVEWAY RELATED
Traffic Control Device	
Police Reported Alcohol Presence	No ALCOHOL
Alcohol Test (< 95 indicates BAC 0.xx)	1

Crash Severity

Nr. Quarter Turns	2 QUARTER TURNS
Impact Speed	< 0.5KMPH
Total, Longitudal, and Lateral δV	< 0.5 KMPH < 0.5 KMPH < 0.5 KMPH
Est. δV with sequence number	>24 AND <40 KMPH 1
CDC	12 F D E W 2
Damage (C1-C6)	0 0 0 1 9 48
Crush (L and D)	168 0
Object Contacted 1	VEHICLE NO. 2
Object Contacted 2	ROLLOVER-OVERTURN

NASS Weighting Factor

Weighting factor	126.08146135
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Rollover Characteristics

Number of Events	3
Rollover Initiation Type	COLLISION W/VEH
Location of Rollover Initiation	ON ROADWAY
Rollover Initiation Object Contacted	VEHICLE NO. 2
Location on Vehicle where Principal Tripping Force was Applied	SIDE PLANE
Direction of Initial Roll	ROLL LEFT

Vehicle Factors

Make-Model	Jeep Cherokee84-
Year	1990
Class	TRUCK
Body Type	COMPACT UTILITY
Weight	138

Pre-Crash Driver Data

Accident Type	73
Pre-event Movement	GOING STRAIGHT
Critical Pre-crash Event	OVER LINE-LEFT
Attempted Avoidance Manuever	BRAKE+STEER LEFT
Pre-impact Stability	LONGITUDINAL SKID
Pre-impact Location	Left TRAVEL LANE

PASSENGER Factors

Age	20	Height	170	Weight	68
Gender					FEMALE-NOT PREG
Ejection					No EJECTION
Ejection Area					No EJECTION
Entrapment					Not ENTRAPPED

Restraint Factors

Restrain	Lap and shoulder
AOPS	NO
Airbag Deployment	Not EQUIP/AVAIL
Airbag Deployment - 1 st Seat	Not EQUIP/AVAIL
Airbag Deployment - Oth Seat	Not EQUIP W/ OTH

Injuries

Occupant	1999-76-148-1-2
MAIS	1=Minor
Seat Position	Front right side

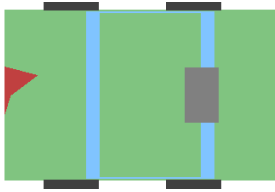
AIS Level	Injury Description	Contacts
1=Minor	Upper extremity skin contusion	Right panel

Occupant: 1999-76-148-1-3



Fire Information

Fire Occurrence	No fire
Fire Origin	No fire
Location of Fuel Leakage	Line/pump/filter
Type of Fuel Tank	Metallic
Fuel Tank Location	Behind rear axle, centered
Fuel Cap Location	Left side, behind rear axle
Fuel Tank Damage	No damage
Fuel Type	Gasoline



Pre-Crash Environment

Traffic Flow	Not DIVIDED
Number of Travel Lanes	TWO
Roadway Alignment	STRAIGHT
Roadway Profile	DOWNHILL GRADE
Roadway Surface Type	ASPHALT
Roadway Surface Condition	DRY
Light Conditions	DAYLIGHT
Atmospheric Conditions	No ADVERSE COND
Relation to Intersection	DRIVEWAY RELATED
Traffic Control Device	
Police Reported Alcohol Presence	No ALCOHOL
Alcohol Test (< 95 indicates BAC 0.xx)	1

Crash Severity

Nr. Quarter Turns	2 QUARTER TURNS
Impact Speed	< 0.5KMPH
Total, Longitudal, and Lateral δV	< 0.5 KMPH < 0.5 KMPH < 0.5 KMPH
Est. δV with sequence number	>24 AND <40 KMPH 1
CDC	12 F D E W 2
Damage (C1-C6)	0 0 0 1 9 48
Crush (L and D)	168 0
Object Contacted 1	VEHICLE NO. 2
Object Contacted 2	ROLLOVER-OVERTURN

NASS Weighting Factor

Weighting factor	126.08146135
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Rollover Characteristics

Number of Events	3
Rollover Initiation Type	COLLISION W/VEH
Location of Rollover Initiation	ON ROADWAY
Rollover Initiation Object Contacted	VEHICLE NO. 2
Location on Vehicle where Principal Tripping Force was Applied	SIDE PLANE
Direction of Initial Roll	ROLL LEFT

Vehicle Factors

Make-Model	Jeep Cherokee84-
Year	1990
Class	TRUCK
Body Type	COMPACT UTILITY
Weight	138

Pre-Crash Driver Data

Accident Type	73
Pre-event Movement	GOING STRAIGHT
Critical Pre-crash Event	OVER LINE-LEFT
Attempted Avoidance Manuever	BRAKE+STEER LEFT
Pre-impact Stability	LONGITUDINAL SKID
Pre-impact Location	Left TRAVEL LANE

PASSENGER Factors

Age	1	Height	86	Weight	14
Gender			MALE		
Ejection			No EJECTION		
Ejection Area			No EJECTION		
Entrapment			Not ENTRAPPED		

Restraint Factors

Restrain	Lap+sh w/ch seat
AOPS	NO
Airbag Deployment	Not EQUIP/AVAIL
Airbag Deployment - 1 st Seat	Not EQUIP/AVAIL
Airbag Deployment - Oth Seat	Not EQUIP W/ OTH

Injuries

Occupant	1999-76-148-1-3
MAIS	0=None
Seat Position	Second right

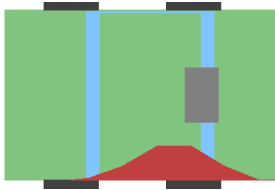
AIS Level	Injury Description	Contacts
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Occupant: 1999-76-148-2-1



Fire Information

Fire Occurrence	No fire
Fire Origin	No fire
Location of Fuel Leakage	Tank
Type of Fuel Tank	Metallic
Fuel Tank Location	Forward of rear axle, left side
Fuel Cap Location	Left side, forward rear axle
Fuel Tank Damage	Punctured
Fuel Type	Diesel



Pre-Crash Environment

Traffic Flow	Not DIVIDED
Number of Travel Lanes	TWO
Roadway Alignment	STRAIGHT
Roadway Profile	DOWNHILL GRADE
Roadway Surface Type	ASPHALT
Roadway Surface Condition	DRY
Light Conditions	DAYLIGHT
Atmospheric Conditions	No ADVERSE COND
Relation to Intersection	DRIVEWAY RELATED
Traffic Control Device	
Police Reported Alcohol Presence	No ALCOHOL
Alcohol Test (< 95 indicates BAC 0.xx)	0

Crash Severity

Nr. Quarter Turns	4 QUARTER TURNS
Impact Speed	< 0.5KMPH
Total, Longitudal, and Lateral δV	< 0.5 KMPH < 0.5 KMPH < 0.5 KMPH
Est. δV with sequence number	MODERATE 1
CDC	9 L Z E W 4
Damage (C1-C6)	3 21 51 50 21 0
Crush (L and D)	302 -92
Object Contacted 1	VEHICLE NO. 1
Object Contacted 2	ROLLOVER-OVERTURN

NASS Weighting Factor

Weighting factor	126.08146135
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Rollover Characteristics

Number of Events	3
Rollover Initiation Type	COLLISION W/VEH
Location of Rollover Initiation	ON ROADWAY
Rollover Initiation Object Contacted	VEHICLE NO. 1
Location on Vehicle where Principal Tripping Force was Applied	SIDE PLANE
Direction of Initial Roll	ROLL RIGHT

Vehicle Factors

Make-Model	Ford F-series P/U
Year	1986
Class	TRUCK
Body Type	LARGE PICKUP
Weight	202

Pre-Crash Driver Data

Accident Type	72
Pre-event Movement	TURNING LEFT
Critical Pre-crash Event	Same DIR-HISPEED
Attempted Avoidance Manuever	No AVOIDANCE
Pre-impact Stability	TRACKING
Pre-impact Location	Left TRAVEL LANE

DRIVER Factors

Age	49	Height	185	Weight	66
Gender					MALE
Ejection					PARTIAL EJECTION
Ejection Area					Left FRONT
Entrapment					Not ENTRAPPED

Restraint Factors

Restrain	Lap and shoulder
AOPS	NO
Airbag Deployment	Not EQUIP/AVAIL
Airbag Deployment - 1 st Seat	Not EQUIP/AVAIL
Airbag Deployment - Oth Seat	Not EQUIP W/ OTH

Injuries

Occupant	1999-76-148-2-1
MAIS	1=Minor
Seat Position	Front left side

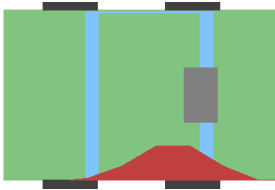
AIS Level	Injury Description	Contacts
1=Minor	Facial skin laceration, minor	Flying glass
1=Minor	Upper extremity skin abrasion	Roof

Occupant: 1999-76-148-2-2



Fire Information

Fire Occurence	No fire
Fire Origin	No fire
Location of Fuel Leakage	Tank
Type of Fuel Tank	Metallic
Fuel Tank Location	Forward of rear axle, left side
Fuel Cap Location	Left side, forward rear axle
Fuel Tank Damage	Punctured
Fuel Type	Diesel



Pre-Crash Environment

Traffic Flow	Not DIVIDED
Number of Travel Lanes	TWO
Roadway Alignment	STRAIGHT
Roadway Profile	DOWNHILL GRADE
Roadway Surface Type	ASPHALT
Roadway Surface Condition	DRY
Light Conditions	DAYLIGHT
Atmospheric Conditions	No ADVERSE COND
Relation to Intersection	DRIVEWAY RELATED
Traffic Control Device	
Police Reported	Alcohol
Presence	No ALCOHOL
Alcohol Test (< 95 indicates	0
BAC 0.xx)	

Crash Severity

Nr. Quarter Turns	4 QUARTER TURNS
Impact Speed	< 0.5KMPH
Total, Longitudal, and Lateral δV	< 0.5 KMPH < 0.5 KMPH < 0.5 KMPH
Est. δV with sequence number	MODERATE 1
CDC	9 L Z E W 4
Damage (C1-C6)	3 21 51 50 21 0
Crush (L and D)	302 -92
Object Contacted 1	VEHICLE NO. 1
Object Contacted 2	ROLLOVER-OVERTRN

NASS Weighting Factor

Weighting factor	126.08146135
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Rollover Characteristics

Number of Events	3
Rollover Initiation Type	COLLISION W/VEH
Location of Rollover Initiation	ON ROADWAY
Rollover Initiation Object Contacted	VEHICLE NO. 1
Location on Vehicle where Principal Tripping Force was Applied	SIDE PLANE
Direction of Initial Roll	ROLL RIGHT

Vehicle Factors

Make-Model	Ford F-series P/U
Year	1986
Class	TRUCK
Body Type	LARGE PICKUP
Weight	202

Pre-Crash Driver Data

Accident Type	72
Pre-event Movement	TURNING LEFT
Critical Pre-crash Event	Same DIR-HISPEED
Attempted Avoidance Manuever	No AVOIDANCE
Pre-impact Stability	TRACKING
Pre-impact Location	Left TRAVEL LANE

PASSENGER Factors

Age	50	Height	170	Weight	75
Gender			MALE		
Ejection			No EJECTION		
Ejection Area			No EJECTION		
Entrapment			Not ENTRAPPED		

Restraint Factors

Restrain	Lap and shoulder
AOPS	NO
Airbag Deployment	Not EQUIP/AVAIL
Airbag Deployment - 1 st Seat	Not EQUIP/AVAIL
Airbag Deployment - Oth Seat	Not EQUIP W/ OTH

Injuries

Occupant	1999-76-148-2-2
MAIS	1=Minor
Seat Position	Front right side

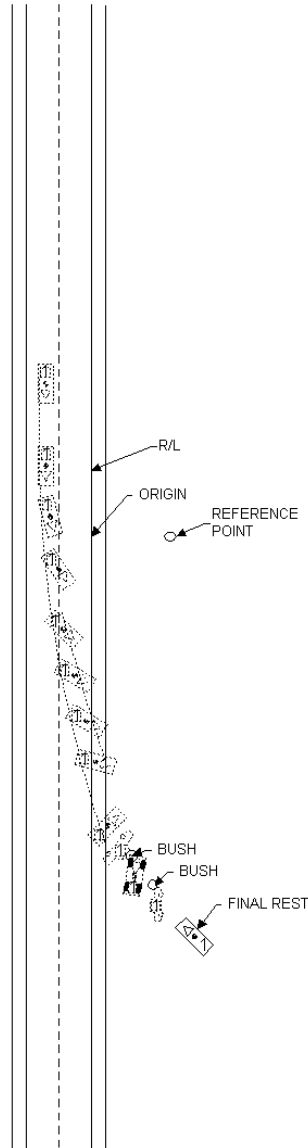
AIS Level	Injury Description	Contacts
1=Minor	Thoracic skin contusion	Belt webb/buckle

67 Case 1999-76-25

Summary:

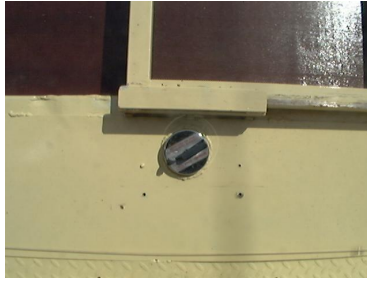
This roll-over occurred on a two lane non-divided asphalt roadway. This road is straight with no defects running North to South. This event occurred during daylight hours with no adverse atmospheric conditions. Vehicle #1 (a 1974 Chevrolet 3/4 ton modified truck with a cargo box on the bed area), was North bound when it veered to the left and rotated counterclock wise in the Southbound lane. Vehicle #1 rotated 170 degrees counterclock wise, tripped on the right rear wheel at the West edge of the roadway and rolled over 4 quarters off the roadway, coming to rest 15 meters West of the roadway. There were a total of 26 occupants. 16 occupants in the vehicle were ejected. Occupants # 1 and 2 were transported and admitted. Occupants #3 thru 13 were transported and released, Occupants 14,15, and 16 were not injured. Vehicle #1 was towed for damages.

PSU76
CASE 025K
SCALE: 1CM=5.0M



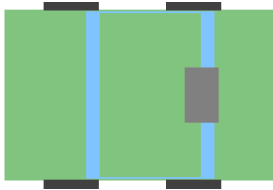
Vehicle ID	Body type	Make	Model	Year	Occ.#	Age	Occupant's sex	Maximum known occupant AIS
1	LARGE PICKUP	Chevrolet	C/K-series Pickup	1974	1	LESS THAN ONE YR	Unknown	0=None
1	LARGE PICKUP	Chevrolet	C/K-series Pickup	1974	2	30	FEMALE-NOT PREG	2=Moderate
1	LARGE PICKUP	Chevrolet	C/K-series Pickup	1974	3	33	FEMALE-NOT PREG	7=Unk. sev.
1	LARGE PICKUP	Chevrolet	C/K-series Pickup	1974	4	33	MALE	7=Unk. sev.
1	LARGE PICKUP	Chevrolet	C/K-series Pickup	1974	5	27	MALE	7=Unk. sev.
1	LARGE PICKUP	Chevrolet	C/K-series Pickup	1974	6	37	MALE	7=Unk. sev.
1	LARGE PICKUP	Chevrolet	C/K-series Pickup	1974	7	22	MALE	7=Unk. sev.
1	LARGE PICKUP	Chevrolet	C/K-series Pickup	1974	8	40	MALE	2=Moderate
1	LARGE PICKUP	Chevrolet	C/K-series Pickup	1974	9	23	MALE	2=Moderate
1	LARGE PICKUP	Chevrolet	C/K-series Pickup	1974	10	19	MALE	1=Minor
1	LARGE PICKUP	Chevrolet	C/K-series Pickup	1974	11	23	FEMALE-NOT PREG	0=None
1	LARGE PICKUP	Chevrolet	C/K-series Pickup	1974	12	26	MALE	0=None
1	LARGE PICKUP	Chevrolet	C/K-series Pickup	1974	13	38	MALE	0=None
1	LARGE PICKUP	Chevrolet	C/K-series Pickup	1974	14	23	MALE	1=Minor
1	LARGE PICKUP	Chevrolet	C/K-series Pickup	1974	15	23	MALE	0=None
1	LARGE PICKUP	Chevrolet	C/K-series Pickup	1974	16	17	MALE	0=None
1	LARGE PICKUP	Chevrolet	C/K-series Pickup	1974	17	21	MALE	0=None
1	LARGE PICKUP	Chevrolet	C/K-series Pickup	1974	18	LESS THAN ONE YR	Unknown	0=None
1	LARGE PICKUP	Chevrolet	C/K-series Pickup	1974	19	LESS THAN ONE YR	Unknown	0=None
1	LARGE PICKUP	Chevrolet	C/K-series Pickup	1974	20	LESS THAN ONE YR	Unknown	0=None
1	LARGE PICKUP	Chevrolet	C/K-series Pickup	1974	21	LESS THAN ONE YR	Unknown	0=None
1	LARGE PICKUP	Chevrolet	C/K-series Pickup	1974	22	LESS THAN ONE YR	Unknown	0=None
1	LARGE PICKUP	Chevrolet	C/K-series Pickup	1974	23	LESS THAN ONE YR	Unknown	0=None
1	LARGE PICKUP	Chevrolet	C/K-series Pickup	1974	24	LESS THAN ONE YR	Unknown	0=None
1	LARGE PICKUP	Chevrolet	C/K-series Pickup	1974	25	LESS THAN ONE YR	Unknown	0=None
1	LARGE PICKUP	Chevrolet	C/K-series Pickup	1974	26	LESS THAN ONE YR	Unknown	0=None

Occupant: 1999-76-25-1-1



Fire Information

Fire Occurrence	No fire
Fire Origin	No fire
Location of Fuel Leakage	Tank
Type of Fuel Tank	Metallic
Fuel Tank Location	Behind rear axle, centered
Fuel Cap Location	On back plane
Fuel Tank Damage	Punctured
Fuel Type	Gasoline



Pre-Crash Environment

Traffic Flow	Not DIVIDED
Number of Travel Lanes	TWO
Roadway Alignment	STRAIGHT
Roadway Profile	LEVEL
Roadway Surface Type	ASPHALT
Roadway Surface Condition	DRY
Light Conditions	DAYLIGHT
Atmospheric Conditions	No ADVERSE COND
Relation to Intersection	NONINTER/NONJUNC
Traffic Control Device	
Police Reported Alcohol Presence	No ALCOHOL
Alcohol Test (< 95 indicates BAC 0.xx)	0

Crash Severity

Nr. Quarter Turns	4 QUARTER TURNS
Impact Speed	< 0.5KMPH
Total, Longitudal, and Lateral δV	< 0.5 KMPH < 0.5 KMPH < 0.5 KMPH
Est. δV with sequence number	MINOR 1
CDC	0 T D D O 2
Damage (C1-C6)	0 0 0 0 0 0
Crush (L and D)	0 0
Object Contacted 1	ROLLOVER-OVERTURN
Object Contacted 2	0

NASS Weighting Factor

Weighting factor	132.38553441
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Rollover Characteristics

Number of Events	1
Rollover Initiation Type	TRIP-OVER
Location of Rollover Initiation	ON SHLDER-UNPAVE
Rollover Initiation Object Contacted	GROUND
Location on Vehicle where Principal Tripping Force was Applied	WHEELS/TIRES
Direction of Initial Roll	ROLL RIGHT

Vehicle Factors

Make-Model	Chevrolet C/K-series Pickup
Year	1974
Class	TRUCK
Body Type	LARGE PICKUP
Weight	0

Pre-Crash Driver Data

Accident Type	7
Pre-event Movement	GOING STRAIGHT
Critical Pre-crash Event	BLOWOUT/FLATIRE
Attempted Avoidance Manuever	No DRIVER
Pre-impact Stability	LAT SKID-CTR CLK
Pre-impact Location	DEPARTED ROADWAY

DRIVER Factors

Age	LESS THAN ONE YR	Height	0	Weight	0
Gender	Unknown	Ejection	No EJECTION	Ejection Area	No EJECTION
Entrapment	Not ENTRAPPED				

Restraint Factors

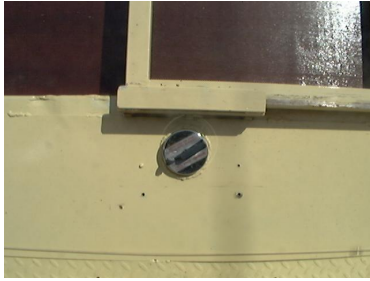
Restrain	None used/avail
AOPS	NO
Airbag Deployment	Not EQUIP/AVAIL
Airbag Deployment - 1 st Seat	Not EQUIP/AVAIL
Airbag Deployment - Oth Seat	Not EQUIP W/ OTH

Injuries

Occupant	1999-76-25-1-1
MAIS	0=None
Seat Position	Front left side

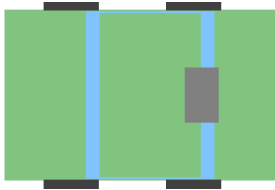
AIS Level	Injury Description	Contacts
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Occupant: 1999-76-25-1-2



Fire Information

Fire Occurrence	No fire
Fire Origin	No fire
Location of Fuel Leakage	Tank
Type of Fuel Tank	Metallic
Fuel Tank Location	Behind rear axle, centered
Fuel Cap Location	On back plane
Fuel Tank Damage	Punctured
Fuel Type	Gasoline



Pre-Crash Environment

Traffic Flow	Not DIVIDED
Number of Travel Lanes	TWO
Roadway Alignment	STRAIGHT
Roadway Profile	LEVEL
Roadway Surface Type	ASPHALT
Roadway Surface Condition	DRY
Light Conditions	DAYLIGHT
Atmospheric Conditions	No ADVERSE COND
Relation to Intersection	NONINTER/NONJUNC
Traffic Control Device	
Police Reported Alcohol Presence	No ALCOHOL
Alcohol Test (< 95 indicates BAC 0.xx)	0

Crash Severity

Nr. Quarter Turns	4 QUARTER TURNS
Impact Speed	< 0.5KMPH
Total, Longitudal, and Lateral δV	< 0.5 KMPH < 0.5 KMPH < 0.5 KMPH
Est. δV with sequence number	MINOR 1
CDC	0 T D D O 2
Damage (C1-C6)	0 0 0 0 0 0
Crush (L and D)	0 0
Object Contacted 1	ROLLOVER-OVERTURN
Object Contacted 2	0

NASS Weighting Factor

Weighting factor	132.38553441
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Rollover Characteristics

Number of Events	1
Rollover Initiation Type	TRIP-OVER
Location of Rollover Initiation	ON SHLDER-UNPAVE
Rollover Initiation Object Contacted	GROUND
Location on Vehicle where Principal Tripping Force was Applied	WHEELS/TIRES
Direction of Initial Roll	ROLL RIGHT

Vehicle Factors

Make-Model	Chevrolet C/K-series Pickup
Year	1974
Class	TRUCK
Body Type	LARGE PICKUP
Weight	0

Pre-Crash Driver Data

Accident Type	7
Pre-event Movement	GOING STRAIGHT
Critical Pre-crash Event	BLOWOUT/FLATIRE
Attempted Avoidance Manuever	No DRIVER
Pre-impact Stability	LAT SKID-CTR CLK
Pre-impact Location	DEPARTED ROADWAY

PASSENGER Factors

Age	30	Height	0	Weight	0
Gender					FEMALE-NOT PREG
Ejection					No EJECTION
Ejection Area					No EJECTION
Entrapment					Not ENTRAPPED

Restraint Factors

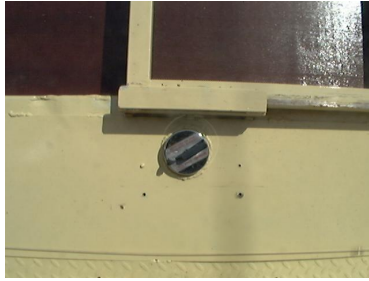
Restrain	None used/avail
AOPS	NO
Airbag Deployment	Not EQUIP/AVAIL
Airbag Deployment - 1 st Seat	Not EQUIP/AVAIL
Airbag Deployment - Oth Seat	Not EQUIP W/ OTH

Injuries

Occupant	1999-76-25-1-2
MAIS	2=Moderate
Seat Position	Front other

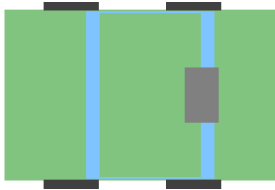
AIS Level	Injury Description	Contacts
2=Moderate	2-3 rib fractures with stable chest	Unknown SOURCE

Occupant: 1999-76-25-1-3



Fire Information

Fire Occurrence	No fire
Fire Origin	No fire
Location of Fuel Leakage	Tank
Type of Fuel Tank	Metallic
Fuel Tank Location	Behind rear axle, centered
Fuel Cap Location	On back plane
Fuel Tank Damage	Punctured
Fuel Type	Gasoline



Pre-Crash Environment

Traffic Flow	Not DIVIDED
Number of Travel Lanes	TWO
Roadway Alignment	STRAIGHT
Roadway Profile	LEVEL
Roadway Surface Type	ASPHALT
Roadway Surface Condition	DRY
Light Conditions	DAYLIGHT
Atmospheric Conditions	No ADVERSE COND
Relation to Intersection	NONINTER/NONJUNC
Traffic Control Device	
Police Reported Alcohol Presence	No ALCOHOL
Alcohol Test (< 95 indicates BAC 0.xx)	0

Crash Severity

Nr. Quarter Turns	4 QUARTER TURNS
Impact Speed	< 0.5KMPH
Total, Longitudal, and Lateral δV	< 0.5 KMPH < 0.5 KMPH < 0.5 KMPH
Est. δV with sequence number	MINOR 1
CDC	0 T D D O 2
Damage (C1-C6)	0 0 0 0 0 0
Crush (L and D)	0 0
Object Contacted 1	ROLLOVER-OVERTURN
Object Contacted 2	0

NASS Weighting Factor

Weighting factor	132.38553441
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Rollover Characteristics

Number of Events	1
Rollover Initiation Type	TRIP-OVER
Location of Rollover Initiation	ON SHLDER-UNPAVE
Rollover Initiation Object Contacted	GROUND
Location on Vehicle where Principal Tripping Force was Applied	WHEELS/TIRES
Direction of Initial Roll	ROLL RIGHT

Vehicle Factors

Make-Model	Chevrolet C/K-series Pickup
Year	1974
Class	TRUCK
Body Type	LARGE PICKUP
Weight	0

Pre-Crash Driver Data

Accident Type	7
Pre-event Movement	GOING STRAIGHT
Critical Pre-crash Event	BLOWOUT/FLATIRE
Attempted Avoidance Manuever	No DRIVER
Pre-impact Stability	LAT SKID-CTR CLK
Pre-impact Location	DEPARTED ROADWAY

PASSENGER Factors

Age	33	Height	0	Weight	0
Gender					FEMALE-NOT PREG
Ejection					No EJECTION
Ejection Area					No EJECTION
Entrapment					Not ENTRAPPED

Restraint Factors

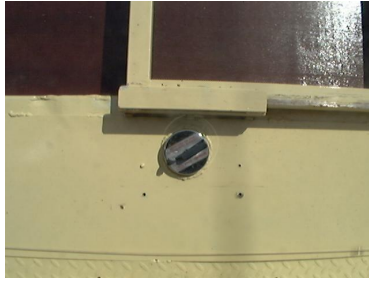
Restrain	None used/avail
AOPS	NO
Airbag Deployment	Not EQUIP/AVAIL
Airbag Deployment - 1 st Seat	Not EQUIP/AVAIL
Airbag Deployment - Oth Seat	Not EQUIP W/ OTH

Injuries

Occupant	1999-76-25-1-3
MAIS	7=Unk. sev.
Seat Position	Front other

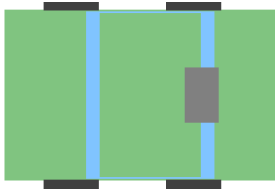
AIS Level	Injury Description	Contacts
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Occupant: 1999-76-25-1-4



Fire Information

Fire Occurrence	No fire
Fire Origin	No fire
Location of Fuel Leakage	Tank
Type of Fuel Tank	Metallic
Fuel Tank Location	Behind rear axle, centered
Fuel Cap Location	On back plane
Fuel Tank Damage	Punctured
Fuel Type	Gasoline



Pre-Crash Environment

Traffic Flow	Not DIVIDED
Number of Travel Lanes	TWO
Roadway Alignment	STRAIGHT
Roadway Profile	LEVEL
Roadway Surface Type	ASPHALT
Roadway Surface Condition	DRY
Light Conditions	DAYLIGHT
Atmospheric Conditions	No ADVERSE COND
Relation to Intersection	NONINTER/NONJUNC
Traffic Control Device	
Police Reported Alcohol Presence	No ALCOHOL
Alcohol Test (< 95 indicates BAC 0.xx)	0

Crash Severity

Nr. Quarter Turns	4 QUARTER TURNS
Impact Speed	< 0.5KMPH
Total, Longitudal, and Lateral δV	< 0.5 KMPH < 0.5 KMPH < 0.5 KMPH
Est. δV with sequence number	MINOR 1
CDC	0 T D D O 2
Damage (C1-C6)	0 0 0 0 0 0
Crush (L and D)	0 0
Object Contacted 1	ROLLOVER-OVERTURN
Object Contacted 2	0

NASS Weighting Factor

Weighting factor	132.38553441
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Rollover Characteristics

Number of Events	1
Rollover Initiation Type	TRIP-OVER
Location of Rollover Initiation	ON SHLDER-UNPAVE
Rollover Initiation Object Contacted	GROUND
Location on Vehicle where Principal Tripping Force was Applied	WHEELS/TIRES
Direction of Initial Roll	ROLL RIGHT

Vehicle Factors

Make-Model	Chevrolet C/K-series Pickup
Year	1974
Class	TRUCK
Body Type	LARGE PICKUP
Weight	0

Pre-Crash Driver Data

Accident Type	7
Pre-event Movement	GOING STRAIGHT
Critical Pre-crash Event	BLOWOUT/FLATIRE
Attempted Avoidance Manuever	No DRIVER
Pre-impact Stability	LAT SKID-CTR CLK
Pre-impact Location	DEPARTED ROADWAY

PASSENGER Factors

Age	33	Height	0	Weight	0
Gender					MALE
Ejection					No EJECTION
Ejection Area					No EJECTION
Entrapment					Not ENTRAPPED

Restraint Factors

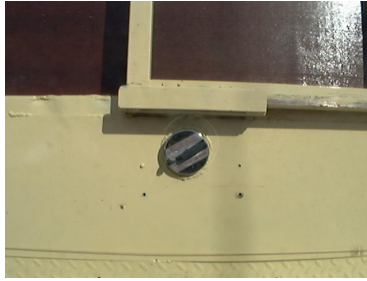
Restrain	None used/avail
AOPS	NO
Airbag Deployment	Not EQUIP/AVAIL
Airbag Deployment - 1 st Seat	Not EQUIP/AVAIL
Airbag Deployment - Oth Seat	Not EQUIP W/ OTH

Injuries

Occupant	1999-76-25-1-4
MAIS	7=Unk. sev.
Seat Position	Front right side

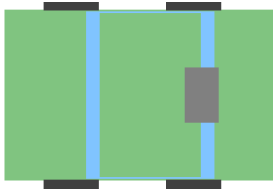
AIS Level	Injury Description	Contacts
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Occupant: 1999-76-25-1-5



Fire Information

Fire Occurrence	No fire
Fire Origin	No fire
Location of Fuel Leakage	Tank
Type of Fuel Tank	Metallic
Fuel Tank Location	Behind rear axle, centered
Fuel Cap Location	On back plane
Fuel Tank Damage	Punctured
Fuel Type	Gasoline



Pre-Crash Environment

Traffic Flow	Not DIVIDED
Number of Travel Lanes	TWO
Roadway Alignment	STRAIGHT
Roadway Profile	LEVEL
Roadway Surface Type	ASPHALT
Roadway Surface Condition	DRY
Light Conditions	DAYLIGHT
Atmospheric Conditions	No ADVERSE COND
Relation to Intersection	NONINTER/NONJUNC
Traffic Control Device	
Police Reported Alcohol Presence	No ALCOHOL
Alcohol Test (< 95 indicates BAC 0.xx)	0

Crash Severity

Nr. Quarter Turns	4 QUARTER TURNS
Impact Speed	< 0.5KMPH
Total, Longitudal, and Lateral δV	< 0.5 KMPH < 0.5 KMPH < 0.5 KMPH
Est. δV with sequence number	MINOR 1
CDC	0 T D D O 2
Damage (C1-C6)	0 0 0 0 0 0
Crush (L and D)	0 0
Object Contacted 1	ROLLOVER-OVERTURN
Object Contacted 2	0

NASS Weighting Factor

Weighting factor	132.38553441
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Rollover Characteristics

Number of Events	1
Rollover Initiation Type	TRIP-OVER
Location of Rollover Initiation	ON SHLDER-UNPAVE
Rollover Initiation Object Contacted	GROUND
Location on Vehicle where Principal Tripping Force was Applied	WHEELS/TIRES
Direction of Initial Roll	ROLL RIGHT

Vehicle Factors

Make-Model	Chevrolet C/K-series Pickup
Year	1974
Class	TRUCK
Body Type	LARGE PICKUP
Weight	0

Pre-Crash Driver Data

Accident Type	7
Pre-event Movement	GOING STRAIGHT
Critical Pre-crash Event	BLOWOUT/FLATIRE
Attempted Avoidance Manuever	No DRIVER
Pre-impact Stability	LAT SKID-CTR CLK
Pre-impact Location	DEPARTED ROADWAY

PASSENGER Factors

Age	27	Height	0	Weight	0
Gender					MALE
Ejection					COMPLETE EJECT
Ejection Area					Other AREA
Entrapment					Not ENTRAPPED

Restraint Factors

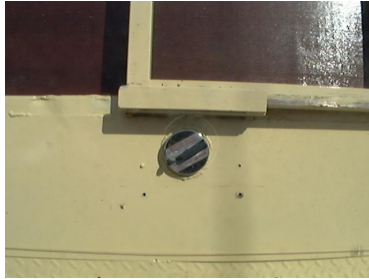
Restrain	None used/avail
AOPS	NO
Airbag Deployment	Not EQUIP/AVAIL
Airbag Deployment - 1 st Seat	Not EQUIP/AVAIL
Airbag Deployment - Oth Seat	Not EQUIP W/ OTH

Injuries

Occupant	1999-76-25-1-5
MAIS	7=Unk. sev.
Seat Position	Unenclosed area

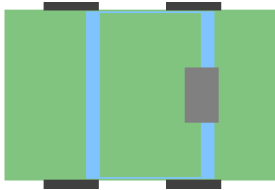
AIS Level	Injury Description	Contacts
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Occupant: 1999-76-25-1-6



Fire Information

Fire Occurrence	No fire
Fire Origin	No fire
Location of Fuel Leakage	Tank
Type of Fuel Tank	Metallic
Fuel Tank Location	Behind rear axle, centered
Fuel Cap Location	On back plane
Fuel Tank Damage	Punctured
Fuel Type	Gasoline



Pre-Crash Environment

Traffic Flow	Not DIVIDED
Number of Travel Lanes	TWO
Roadway Alignment	STRAIGHT
Roadway Profile	LEVEL
Roadway Surface Type	ASPHALT
Roadway Surface Condition	DRY
Light Conditions	DAYLIGHT
Atmospheric Conditions	No ADVERSE COND
Relation to Intersection	NONINTER/NONJUNC
Traffic Control Device	
Police Reported Alcohol Presence	No ALCOHOL
Alcohol Test (< 95 indicates BAC 0.xx)	0

Crash Severity

Nr. Quarter Turns	4 QUARTER TURNS
Impact Speed	< 0.5KMPH
Total, Longitudal, and Lateral δV	< 0.5 KMPH < 0.5 KMPH < 0.5 KMPH
Est. δV with sequence number	MINOR 1
CDC	0 T D D O 2
Damage (C1-C6)	0 0 0 0 0 0
Crush (L and D)	0 0
Object Contacted 1	ROLLOVER-OVERTURN
Object Contacted 2	0

NASS Weighting Factor

Weighting factor	132.38553441
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Rollover Characteristics

Number of Events	1
Rollover Initiation Type	TRIP-OVER
Location of Rollover Initiation	ON SHLDER-UNPAVE
Rollover Initiation Object Contacted	GROUND
Location on Vehicle where Principal Tripping Force was Applied	WHEELS/TIRES
Direction of Initial Roll	ROLL RIGHT

Vehicle Factors

Make-Model	Chevrolet C/K-series Pickup
Year	1974
Class	TRUCK
Body Type	LARGE PICKUP
Weight	0

Pre-Crash Driver Data

Accident Type	7
Pre-event Movement	GOING STRAIGHT
Critical Pre-crash Event	BLOWOUT/FLATIRE
Attempted Avoidance Manuever	No DRIVER
Pre-impact Stability	LAT SKID-CTR CLK
Pre-impact Location	DEPARTED ROADWAY

PASSENGER Factors

Age	37	Height	0	Weight	0
Gender					MALE
Ejection					COMPLETE EJECT
Ejection Area					Other AREA
Entrapment					Not ENTRAPPED

Restraint Factors

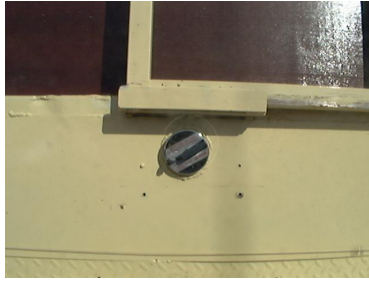
Restrain	None used/avail
AOPS	NO
Airbag Deployment	Not EQUIP/AVAIL
Airbag Deployment - 1 st Seat	Not EQUIP/AVAIL
Airbag Deployment - Oth Seat	Not EQUIP W/ OTH

Injuries

Occupant	1999-76-25-1-6
MAIS	7=Unk. sev.
Seat Position	Unenclosed area

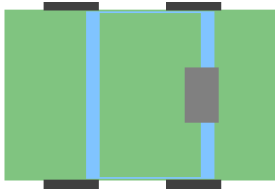
AIS Level	Injury Description	Contacts
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Occupant: 1999-76-25-1-7



Fire Information

Fire Occurrence	No fire
Fire Origin	No fire
Location of Fuel Leakage	Tank
Type of Fuel Tank	Metallic
Fuel Tank Location	Behind rear axle, centered
Fuel Cap Location	On back plane
Fuel Tank Damage	Punctured
Fuel Type	Gasoline



Pre-Crash Environment

Traffic Flow	Not DIVIDED
Number of Travel Lanes	TWO
Roadway Alignment	STRAIGHT
Roadway Profile	LEVEL
Roadway Surface Type	ASPHALT
Roadway Surface Condition	DRY
Light Conditions	DAYLIGHT
Atmospheric Conditions	No ADVERSE COND
Relation to Intersection	NONINTER/NONJUNC
Traffic Control Device	
Police Reported Alcohol Presence	No ALCOHOL
Alcohol Test (< 95 indicates BAC 0.xx)	0

Crash Severity

Nr. Quarter Turns	4 QUARTER TURNS
Impact Speed	< 0.5KMPH
Total, Longitudal, and Lateral δV	< 0.5 KMPH < 0.5 KMPH < 0.5 KMPH
Est. δV with sequence number	MINOR 1
CDC	0 T D D O 2
Damage (C1-C6)	0 0 0 0 0 0
Crush (L and D)	0 0
Object Contacted 1	ROLLOVER-OVERTURN
Object Contacted 2	0

NASS Weighting Factor

Weighting factor	132.38553441
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Rollover Characteristics

Number of Events	1
Rollover Initiation Type	TRIP-OVER
Location of Rollover Initiation	ON SHLDER-UNPAVE
Rollover Initiation Object Contacted	GROUND
Location on Vehicle where Principal Tripping Force was Applied	WHEELS/TIRES
Direction of Initial Roll	ROLL RIGHT

Vehicle Factors

Make-Model	Chevrolet C/K-series Pickup
Year	1974
Class	TRUCK
Body Type	LARGE PICKUP
Weight	0

Pre-Crash Driver Data

Accident Type	7
Pre-event Movement	GOING STRAIGHT
Critical Pre-crash Event	BLOWOUT/FLATIRE
Attempted Avoidance Manuever	No DRIVER
Pre-impact Stability	LAT SKID-CTR CLK
Pre-impact Location	DEPARTED ROADWAY

PASSENGER Factors

Age	22	Height	0	Weight	0
Gender					MALE
Ejection					COMPLETE EJECT
Ejection Area					Other AREA
Entrapment					Not ENTRAPPED

Restraint Factors

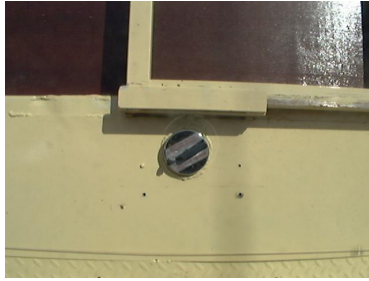
Restrain	None used/avail
AOPS	NO
Airbag Deployment	Not EQUIP/AVAIL
Airbag Deployment - 1 st Seat	Not EQUIP/AVAIL
Airbag Deployment - Oth Seat	Not EQUIP W/ OTH

Injuries

Occupant	1999-76-25-1-7
MAIS	7=Unk. sev.
Seat Position	Unenclosed area

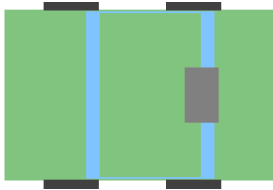
AIS Level	Injury Description	Contacts
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Occupant: 1999-76-25-1-8



Fire Information

Fire Occurrence	No fire
Fire Origin	No fire
Location of Fuel Leakage	Tank
Type of Fuel Tank	Metallic
Fuel Tank Location	Behind rear axle, centered
Fuel Cap Location	On back plane
Fuel Tank Damage	Punctured
Fuel Type	Gasoline



Pre-Crash Environment

Traffic Flow	Not DIVIDED
Number of Travel Lanes	TWO
Roadway Alignment	STRAIGHT
Roadway Profile	LEVEL
Roadway Surface Type	ASPHALT
Roadway Surface Condition	DRY
Light Conditions	DAYLIGHT
Atmospheric Conditions	No ADVERSE COND
Relation to Intersection	NONINTER/NONJUNC
Traffic Control Device	
Police Reported Alcohol Presence	No ALCOHOL
Alcohol Test (< 95 indicates BAC 0.xx)	0

Crash Severity

Nr. Quarter Turns	4 QUARTER TURNS
Impact Speed	< 0.5KMPH
Total, Longitudal, and Lateral δV	< 0.5 KMPH < 0.5 KMPH < 0.5 KMPH
Est. δV with sequence number	MINOR 1
CDC	0 T D D O 2
Damage (C1-C6)	0 0 0 0 0 0
Crush (L and D)	0 0
Object Contacted 1	ROLLOVER-OVERTURN
Object Contacted 2	0

NASS Weighting Factor

Weighting factor	132.38553441
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Rollover Characteristics

Number of Events	1
Rollover Initiation Type	TRIP-OVER
Location of Rollover Initiation	ON SHLDER-UNPAVE
Rollover Initiation Object Contacted	GROUND
Location on Vehicle where Principal Tripping Force was Applied	WHEELS/TIRES
Direction of Initial Roll	ROLL RIGHT

Vehicle Factors

Make-Model	Chevrolet C/K-series Pickup
Year	1974
Class	TRUCK
Body Type	LARGE PICKUP
Weight	0

Pre-Crash Driver Data

Accident Type	7
Pre-event Movement	GOING STRAIGHT
Critical Pre-crash Event	BLOWOUT/FLATIRE
Attempted Avoidance Manuever	No DRIVER
Pre-impact Stability	LAT SKID-CTR CLK
Pre-impact Location	DEPARTED ROADWAY

PASSENGER Factors

Age	40	Height	0	Weight	0
Gender					MALE
Ejection					COMPLETE EJECT
Ejection Area					Other AREA
Entrapment					Not ENTRAPPED

Restraint Factors

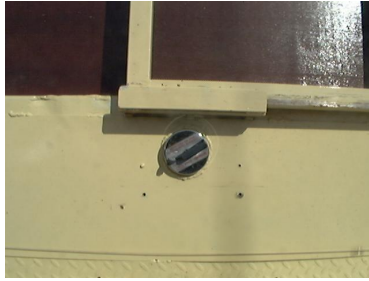
Restrain	None used/avail
AOPS	NO
Airbag Deployment	Not EQUIP/AVAIL
Airbag Deployment - 1 st Seat	Not EQUIP/AVAIL
Airbag Deployment - Oth Seat	Not EQUIP W/ OTH

Injuries

Occupant	1999-76-25-1-8
MAIS	2=Moderate
Seat Position	Unenclosed area

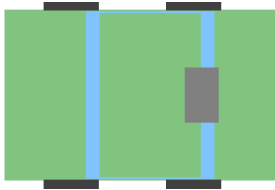
AIS Level	Injury Description	Contacts
2=Moderate	2-3 rib fractures with stable chest	Unknown SOURCE
2=Moderate	Clavicle fracture	Unknown SOURCE
2=Moderate	Scapular fracture	Unknown SOURCE

Occupant: 1999-76-25-1-9



Fire Information

Fire Occurrence	No fire
Fire Origin	No fire
Location of Fuel Leakage	Tank
Type of Fuel Tank	Metallic
Fuel Tank Location	Behind rear axle, centered
Fuel Cap Location	On back plane
Fuel Tank Damage	Punctured
Fuel Type	Gasoline



Pre-Crash Environment

Traffic Flow	Not DIVIDED
Number of Travel Lanes	TWO
Roadway Alignment	STRAIGHT
Roadway Profile	LEVEL
Roadway Surface Type	ASPHALT
Roadway Surface Condition	DRY
Light Conditions	DAYLIGHT
Atmospheric Conditions	No ADVERSE COND
Relation to Intersection	NONINTER/NONJUNC
Traffic Control Device	
Police Reported Alcohol Presence	No ALCOHOL
Alcohol Test (< 95 indicates BAC 0.xx)	0

Crash Severity

Nr. Quarter Turns	4 QUARTER TURNS
Impact Speed	< 0.5KMPH
Total, Longitudal, and Lateral δV	< 0.5 KMPH < 0.5 KMPH < 0.5 KMPH
Est. δV with sequence number	MINOR 1
CDC	0 T D D O 2
Damage (C1-C6)	0 0 0 0 0 0
Crush (L and D)	0 0
Object Contacted 1	ROLLOVER-OVERTURN
Object Contacted 2	0

NASS Weighting Factor

Weighting factor	132.38553441
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Rollover Characteristics

Number of Events	1
Rollover Initiation Type	TRIP-OVER
Location of Rollover Initiation	ON SHLDER-UNPAVE
Rollover Initiation Object Contacted	GROUND
Location on Vehicle where Principal Tripping Force was Applied	WHEELS/TIRES
Direction of Initial Roll	ROLL RIGHT

Vehicle Factors

Make-Model	Chevrolet C/K-series Pickup
Year	1974
Class	TRUCK
Body Type	LARGE PICKUP
Weight	0

Pre-Crash Driver Data

Accident Type	7
Pre-event Movement	GOING STRAIGHT
Critical Pre-crash Event	BLOWOUT/FLATIRE
Attempted Avoidance Manuever	No DRIVER
Pre-impact Stability	LAT SKID-CTR CLK
Pre-impact Location	DEPARTED ROADWAY

PASSENGER Factors

Age	23	Height	0	Weight	0
Gender					MALE
Ejection					COMPLETE EJECT
Ejection Area					Other AREA
Entrapment					Not ENTRAPPED

Restraint Factors

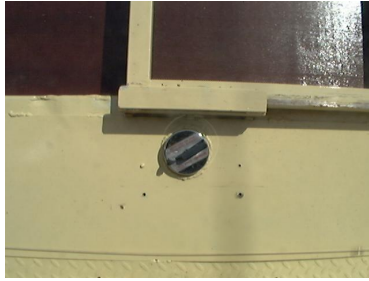
Restrain	None used/avail
AOPS	NO
Airbag Deployment	Not EQUIP/AVAIL
Airbag Deployment - 1 st Seat	Not EQUIP/AVAIL
Airbag Deployment - Oth Seat	Not EQUIP W/ OTH

Injuries

Occupant	1999-76-25-1-9
MAIS	2=Moderate
Seat Position	Unenclosed area

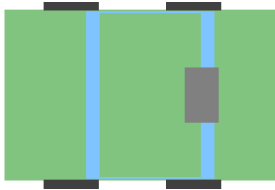
AIS Level	Injury Description	Contacts
1=Minor	Leg skin abrasion	Unknown SOURCE
2=Moderate	Awake on admission, unconscious <1 hour	Unknown SOURCE

Occupant: 1999-76-25-1-10



Fire Information

Fire Occurrence	No fire
Fire Origin	No fire
Location of Fuel Leakage	Tank
Type of Fuel Tank	Metallic
Fuel Tank Location	Behind rear axle, centered
Fuel Cap Location	On back plane
Fuel Tank Damage	Punctured
Fuel Type	Gasoline



Pre-Crash Environment

Traffic Flow	Not DIVIDED
Number of Travel Lanes	TWO
Roadway Alignment	STRAIGHT
Roadway Profile	LEVEL
Roadway Surface Type	ASPHALT
Roadway Surface Condition	DRY
Light Conditions	DAYLIGHT
Atmospheric Conditions	No ADVERSE COND
Relation to Intersection	NONINTER/NONJUNC
Traffic Control Device	
Police Reported Alcohol Presence	No ALCOHOL
Alcohol Test (< 95 indicates BAC 0.xx)	0

Crash Severity

Nr. Quarter Turns	4 QUARTER TURNS
Impact Speed	< 0.5KMPH
Total, Longitudal, and Lateral δV	< 0.5 KMPH < 0.5 KMPH < 0.5 KMPH
Est. δV with sequence number	MINOR 1
CDC	0 T D D O 2
Damage (C1-C6)	0 0 0 0 0 0
Crush (L and D)	0 0
Object Contacted 1	ROLLOVER-OVERTURN
Object Contacted 2	0

NASS Weighting Factor

Weighting factor	132.38553441
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Rollover Characteristics

Number of Events	1
Rollover Initiation Type	TRIP-OVER
Location of Rollover Initiation	ON SHLDER-UNPAVE
Rollover Initiation Object Contacted	GROUND
Location on Vehicle where Principal Tripping Force was Applied	WHEELS/TIRES
Direction of Initial Roll	ROLL RIGHT

Vehicle Factors

Make-Model	Chevrolet C/K-series Pickup
Year	1974
Class	TRUCK
Body Type	LARGE PICKUP
Weight	0

Pre-Crash Driver Data

Accident Type	7
Pre-event Movement	GOING STRAIGHT
Critical Pre-crash Event	BLOWOUT/FLATIRE
Attempted Avoidance Manuever	No DRIVER
Pre-impact Stability	LAT SKID-CTR CLK
Pre-impact Location	DEPARTED ROADWAY

PASSENGER Factors

Age	19	Height	0	Weight	0
Gender					MALE
Ejection					COMPLETE EJECT
Ejection Area					Other AREA
Entrapment					Not ENTRAPPED

Restraint Factors

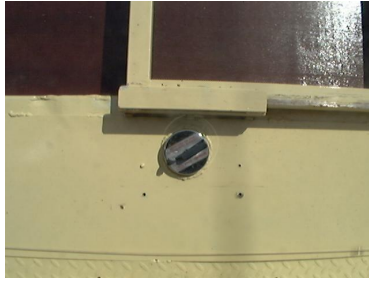
Restrain	None used/avail
AOPS	NO
Airbag Deployment	Not EQUIP/AVAIL
Airbag Deployment - 1 st Seat	Not EQUIP/AVAIL
Airbag Deployment - Oth Seat	Not EQUIP W/ OTH

Injuries

Occupant	1999-76-25-1-10
MAIS	1=Minor
Seat Position	Unenclosed area

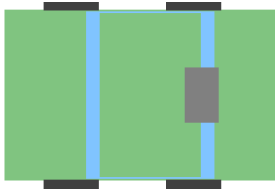
AIS Level	Injury Description	Contacts
1=Minor	Awake on admission, never unconscious	Unknown SOURCE

Occupant: 1999-76-25-1-11



Fire Information

Fire Occurrence	No fire
Fire Origin	No fire
Location of Fuel Leakage	Tank
Type of Fuel Tank	Metallic
Fuel Tank Location	Behind rear axle, centered
Fuel Cap Location	On back plane
Fuel Tank Damage	Punctured
Fuel Type	Gasoline



Pre-Crash Environment

Traffic Flow	Not DIVIDED
Number of Travel Lanes	TWO
Roadway Alignment	STRAIGHT
Roadway Profile	LEVEL
Roadway Surface Type	ASPHALT
Roadway Surface Condition	DRY
Light Conditions	DAYLIGHT
Atmospheric Conditions	No ADVERSE COND
Relation to Intersection	NONINTER/NONJUNC
Traffic Control Device	
Police Reported Alcohol Presence	No ALCOHOL
Alcohol Test (< 95 indicates BAC 0.xx)	0

Crash Severity

Nr. Quarter Turns	4 QUARTER TURNS
Impact Speed	< 0.5KMPH
Total, Longitudal, and Lateral δV	< 0.5 KMPH < 0.5 KMPH < 0.5 KMPH
Est. δV with sequence number	MINOR 1
CDC	0 T D D O 2
Damage (C1-C6)	0 0 0 0 0 0
Crush (L and D)	0 0
Object Contacted 1	ROLLOVER-OVERTURN
Object Contacted 2	0

NASS Weighting Factor

Weighting factor	132.38553441
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Rollover Characteristics

Number of Events	1
Rollover Initiation Type	TRIP-OVER
Location of Rollover Initiation	ON SHLDER-UNPAVE
Rollover Initiation Object Contacted	GROUND
Location on Vehicle where Principal Tripping Force was Applied	WHEELS/TIRES
Direction of Initial Roll	ROLL RIGHT

Vehicle Factors

Make-Model	Chevrolet C/K-series Pickup
Year	1974
Class	TRUCK
Body Type	LARGE PICKUP
Weight	0

Pre-Crash Driver Data

Accident Type	7
Pre-event Movement	GOING STRAIGHT
Critical Pre-crash Event	BLOWOUT/FLATIRE
Attempted Avoidance Manuever	No DRIVER
Pre-impact Stability	LAT SKID-CTR CLK
Pre-impact Location	DEPARTED ROADWAY

PASSENGER Factors

Age	23	Height	0	Weight	0
Gender					FEMALE-NOT PREG
Ejection					COMPLETE EJECT
Ejection Area					Other AREA
Entrapment					Not ENTRAPPED

Restraint Factors

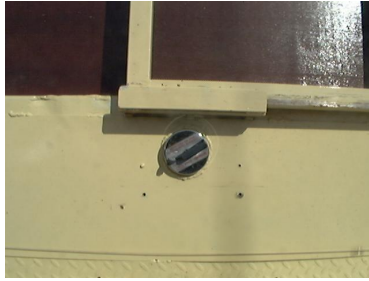
Restrain	None used/avail
AOPS	NO
Airbag Deployment	Not EQUIP/AVAIL
Airbag Deployment - 1 st Seat	Not EQUIP/AVAIL
Airbag Deployment - Oth Seat	Not EQUIP W/ OTH

Injuries

Occupant	1999-76-25-1-11
MAIS	0=None
Seat Position	Unenclosed area

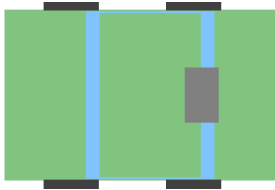
AIS Level	Injury Description	Contacts
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Occupant: 1999-76-25-1-12



Fire Information

Fire Occurrence	No fire
Fire Origin	No fire
Location of Fuel Leakage	Tank
Type of Fuel Tank	Metallic
Fuel Tank Location	Behind rear axle, centered
Fuel Cap Location	On back plane
Fuel Tank Damage	Punctured
Fuel Type	Gasoline



Pre-Crash Environment

Traffic Flow	Not DIVIDED
Number of Travel Lanes	TWO
Roadway Alignment	STRAIGHT
Roadway Profile	LEVEL
Roadway Surface Type	ASPHALT
Roadway Surface Condition	DRY
Light Conditions	DAYLIGHT
Atmospheric Conditions	No ADVERSE COND
Relation to Intersection	NONINTER/NONJUNC
Traffic Control Device	
Police Reported Alcohol Presence	No ALCOHOL
Alcohol Test (< 95 indicates BAC 0.xx)	0

Crash Severity

Nr. Quarter Turns	4 QUARTER TURNS
Impact Speed	< 0.5KMPH
Total, Longitudal, and Lateral δV	< 0.5 KMPH < 0.5 KMPH < 0.5 KMPH
Est. δV with sequence number	MINOR 1
CDC	0 T D D O 2
Damage (C1-C6)	0 0 0 0 0 0
Crush (L and D)	0 0
Object Contacted 1	ROLLOVER-OVERTURN
Object Contacted 2	0

NASS Weighting Factor

Weighting factor	132.38553441
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Rollover Characteristics

Number of Events	1
Rollover Initiation Type	TRIP-OVER
Location of Rollover Initiation	ON SHLDER-UNPAVE
Rollover Initiation Object Contacted	GROUND
Location on Vehicle where Principal Tripping Force was Applied	WHEELS/TIRES
Direction of Initial Roll	ROLL RIGHT

Vehicle Factors

Make-Model	Chevrolet C/K-series Pickup
Year	1974
Class	TRUCK
Body Type	LARGE PICKUP
Weight	0

Pre-Crash Driver Data

Accident Type	7
Pre-event Movement	GOING STRAIGHT
Critical Pre-crash Event	BLOWOUT/FLATIRE
Attempted Avoidance Manuever	No DRIVER
Pre-impact Stability	LAT SKID-CTR CLK
Pre-impact Location	DEPARTED ROADWAY

PASSENGER Factors

Age	26	Height	0	Weight	0
Gender					MALE
Ejection					COMPLETE EJECT
Ejection Area					Other AREA
Entrapment					Not ENTRAPPED

Restraint Factors

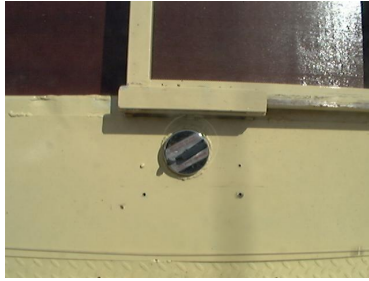
Restrain	None used/avail
AOPS	NO
Airbag Deployment	Not EQUIP/AVAIL
Airbag Deployment - 1 st Seat	Not EQUIP/AVAIL
Airbag Deployment - Oth Seat	Not EQUIP W/ OTH

Injuries

Occupant	1999-76-25-1-12
MAIS	0=None
Seat Position	Unenclosed area

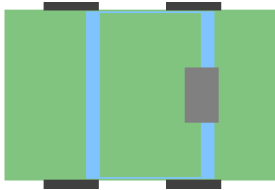
AIS Level	Injury Description	Contacts
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Occupant: 1999-76-25-1-13



Fire Information

Fire Occurrence	No fire
Fire Origin	No fire
Location of Fuel Leakage	Tank
Type of Fuel Tank	Metallic
Fuel Tank Location	Behind rear axle, centered
Fuel Cap Location	On back plane
Fuel Tank Damage	Punctured
Fuel Type	Gasoline



Crash Severity

Nr. Quarter Turns	4 QUARTER TURNS
Impact Speed	< 0.5KMPH
Total, Longitudal, and Lateral δV	< 0.5 KMPH < 0.5 KMPH < 0.5 KMPH
Est. δV with sequence number	MINOR 1
CDC	0 T D D O 2
Damage (C1-C6)	0 0 0 0 0 0
Crush (L and D)	0 0
Object Contacted 1	ROLLOVER-OVERTURN
Object Contacted 2	0

NASS Weighting Factor

Weighting factor	132.38553441
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Rollover Characteristics

Number of Events	1
Rollover Initiation Type	TRIP-OVER
Location of Rollover Initiation	ON SHLDER-UNPAVE
Rollover Initiation Object Contacted	GROUND
Location on Vehicle where Principal Tripping Force was Applied	WHEELS/TIRES
Direction of Initial Roll	ROLL RIGHT

Pre-Crash Environment

Traffic Flow	Not DIVIDED
Number of Travel Lanes	TWO
Roadway Alignment	STRAIGHT
Roadway Profile	LEVEL
Roadway Surface Type	ASPHALT
Roadway Surface Condition	DRY
Light Conditions	DAYLIGHT
Atmospheric Conditions	No ADVERSE COND
Relation to Intersection	NONINTER/NONJUNC
Traffic Control Device	
Police Reported Alcohol Presence	No ALCOHOL
Alcohol Test (< 95 indicates BAC 0.xx)	0

Vehicle Factors

Make-Model	Chevrolet C/K-series Pickup
Year	1974
Class	TRUCK
Body Type	LARGE PICKUP
Weight	0

Pre-Crash Driver Data

Accident Type	7
Pre-event Movement	GOING STRAIGHT
Critical Pre-crash Event	BLOWOUT/FLATIRE
Attempted Avoidance Manuever	No DRIVER
Pre-impact Stability	LAT SKID-CTR CLK
Pre-impact Location	DEPARTED ROADWAY

PASSENGER Factors

Age	38	Height	0	Weight	0
Gender					MALE
Ejection					COMPLETE EJECT
Ejection Area					Other AREA
Entrapment					Not ENTRAPPED

Restraint Factors

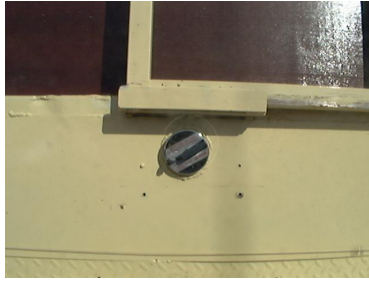
Restrain	None used/avail
AOPS	NO
Airbag Deployment	Not EQUIP/AVAIL
Airbag Deployment - 1 st Seat	Not EQUIP/AVAIL
Airbag Deployment - Oth Seat	Not EQUIP W/ OTH

Injuries

Occupant	1999-76-25-1-13
MAIS	0=None
Seat Position	Unenclosed area

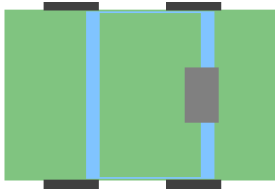
AIS Level	Injury Description	Contacts
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Occupant: 1999-76-25-1-14



Fire Information

Fire Occurrence	No fire
Fire Origin	No fire
Location of Fuel Leakage	Tank
Type of Fuel Tank	Metallic
Fuel Tank Location	Behind rear axle, centered
Fuel Cap Location	On back plane
Fuel Tank Damage	Punctured
Fuel Type	Gasoline



Pre-Crash Environment

Traffic Flow	Not DIVIDED
Number of Travel Lanes	TWO
Roadway Alignment	STRAIGHT
Roadway Profile	LEVEL
Roadway Surface Type	ASPHALT
Roadway Surface Condition	DRY
Light Conditions	DAYLIGHT
Atmospheric Conditions	No ADVERSE COND
Relation to Intersection	NONINTER/NONJUNC
Traffic Control Device	
Police Reported Alcohol Presence	No ALCOHOL
Alcohol Test (< 95 indicates BAC 0.xx)	0

Crash Severity

Nr. Quarter Turns	4 QUARTER TURNS
Impact Speed	< 0.5KMPH
Total, Longitudal, and Lateral δV	< 0.5 KMPH < 0.5 KMPH < 0.5 KMPH
Est. δV with sequence number	MINOR 1
CDC	0 T D D O 2
Damage (C1-C6)	0 0 0 0 0 0
Crush (L and D)	0 0
Object Contacted 1	ROLLOVER-OVERTURN
Object Contacted 2	0

NASS Weighting Factor

Weighting factor	132.38553441
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Rollover Characteristics

Number of Events	1
Rollover Initiation Type	TRIP-OVER
Location of Rollover Initiation	ON SHLDER-UNPAVE
Rollover Initiation Object Contacted	GROUND
Location on Vehicle where Principal Tripping Force was Applied	WHEELS/TIRES
Direction of Initial Roll	ROLL RIGHT

Vehicle Factors

Make-Model	Chevrolet C/K-series Pickup
Year	1974
Class	TRUCK
Body Type	LARGE PICKUP
Weight	0

Pre-Crash Driver Data

Accident Type	7
Pre-event Movement	GOING STRAIGHT
Critical Pre-crash Event	BLOWOUT/FLATIRE
Attempted Avoidance Manuever	No DRIVER
Pre-impact Stability	LAT SKID-CTR CLK
Pre-impact Location	DEPARTED ROADWAY

PASSENGER Factors

Age	23	Height	0	Weight	0
Gender					MALE
Ejection					COMPLETE EJECT
Ejection Area					Other AREA
Entrapment					Not ENTRAPPED

Restraint Factors

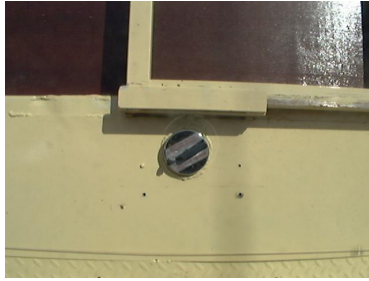
Restrain	None used/avail
AOPS	NO
Airbag Deployment	Not EQUIP/AVAIL
Airbag Deployment - 1 st Seat	Not EQUIP/AVAIL
Airbag Deployment - Oth Seat	Not EQUIP W/ OTH

Injuries

Occupant	1999-76-25-1-14
MAIS	1=Minor
Seat Position	Unenclosed area

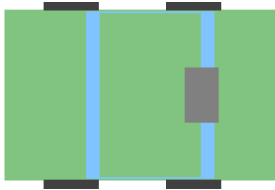
AIS Level	Injury Description	Contacts
1=Minor	Facial skin abrasion	Unknown SOURCE
1=Minor	Facial skin abrasion	Unknown SOURCE

Occupant: 1999-76-25-1-15



Fire Information

Fire Occurrence	No fire
Fire Origin	No fire
Location of Fuel Leakage	Tank
Type of Fuel Tank	Metallic
Fuel Tank Location	Behind rear axle, centered
Fuel Cap Location	On back plane
Fuel Tank Damage	Punctured
Fuel Type	Gasoline



Pre-Crash Environment

Traffic Flow	Not DIVIDED
Number of Travel Lanes	TWO
Roadway Alignment	STRAIGHT
Roadway Profile	LEVEL
Roadway Surface Type	ASPHALT
Roadway Surface Condition	DRY
Light Conditions	DAYLIGHT
Atmospheric Conditions	No ADVERSE COND
Relation to Intersection	NONINTER/NONJUNC
Traffic Control Device	
Police Reported Alcohol Presence	No ALCOHOL
Alcohol Test (< 95 indicates BAC 0.xx)	0

Crash Severity

Nr. Quarter Turns	4 QUARTER TURNS
Impact Speed	< 0.5KMPH
Total, Longitudal, and Lateral δV	< 0.5 KMPH < 0.5 KMPH < 0.5 KMPH
Est. δV with sequence number	MINOR 1
CDC	0 T D D O 2
Damage (C1-C6)	0 0 0 0 0 0
Crush (L and D)	0 0
Object Contacted 1	ROLLOVER-OVERTURN
Object Contacted 2	0

NASS Weighting Factor

Weighting factor	132.38553441
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Rollover Characteristics

Number of Events	1
Rollover Initiation Type	TRIP-OVER
Location of Rollover Initiation	ON SHLDER-UNPAVE
Rollover Initiation Object Contacted	GROUND
Location on Vehicle where Principal Tripping Force was Applied	WHEELS/TIRES
Direction of Initial Roll	ROLL RIGHT

Vehicle Factors

Make-Model	Chevrolet C/K-series Pickup
Year	1974
Class	TRUCK
Body Type	LARGE PICKUP
Weight	0

Pre-Crash Driver Data

Accident Type	7
Pre-event Movement	GOING STRAIGHT
Critical Pre-crash Event	BLOWOUT/FLATIRE
Attempted Avoidance Manuever	No DRIVER
Pre-impact Stability	LAT SKID-CTR CLK
Pre-impact Location	DEPARTED ROADWAY

PASSENGER Factors

Age	23	Height	0	Weight	0
Gender					MALE
Ejection					COMPLETE EJECT
Ejection Area					Other AREA
Entrapment					Not ENTRAPPED

Restraint Factors

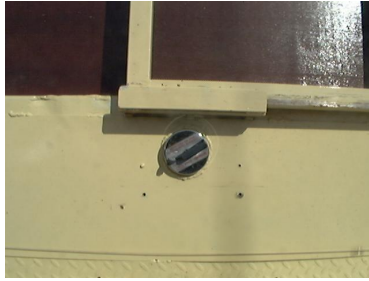
Restrain	None used/avail
AOPS	NO
Airbag Deployment	Not EQUIP/AVAIL
Airbag Deployment - 1 st Seat	Not EQUIP/AVAIL
Airbag Deployment - Oth Seat	Not EQUIP W/ OTH

Injuries

Occupant	1999-76-25-1-15
MAIS	0=None
Seat Position	Unenclosed area

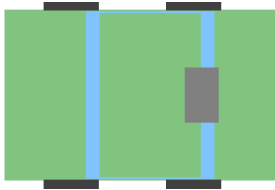
AIS Level	Injury Description	Contacts
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Occupant: 1999-76-25-1-16



Fire Information

Fire Occurrence	No fire
Fire Origin	No fire
Location of Fuel Leakage	Tank
Type of Fuel Tank	Metallic
Fuel Tank Location	Behind rear axle, centered
Fuel Cap Location	On back plane
Fuel Tank Damage	Punctured
Fuel Type	Gasoline



Pre-Crash Environment

Traffic Flow	Not DIVIDED
Number of Travel Lanes	TWO
Roadway Alignment	STRAIGHT
Roadway Profile	LEVEL
Roadway Surface Type	ASPHALT
Roadway Surface Condition	DRY
Light Conditions	DAYLIGHT
Atmospheric Conditions	No ADVERSE COND
Relation to Intersection	NONINTER/NONJUNC
Traffic Control Device	
Police Reported Alcohol Presence	No ALCOHOL
Alcohol Test (< 95 indicates BAC 0.xx)	0

Crash Severity

Nr. Quarter Turns	4 QUARTER TURNS
Impact Speed	< 0.5KMPH
Total, Longitudal, and Lateral δV	< 0.5 KMPH < 0.5 KMPH < 0.5 KMPH
Est. δV with sequence number	MINOR 1
CDC	0 T D D O 2
Damage (C1-C6)	0 0 0 0 0 0
Crush (L and D)	0 0
Object Contacted 1	ROLLOVER-OVERTURN
Object Contacted 2	0

NASS Weighting Factor

Weighting factor	132.38553441
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Rollover Characteristics

Number of Events	1
Rollover Initiation Type	TRIP-OVER
Location of Rollover Initiation	ON SHLDER-UNPAVE
Rollover Initiation Object Contacted	GROUND
Location on Vehicle where Principal Tripping Force was Applied	WHEELS/TIRES
Direction of Initial Roll	ROLL RIGHT

Vehicle Factors

Make-Model	Chevrolet C/K-series Pickup
Year	1974
Class	TRUCK
Body Type	LARGE PICKUP
Weight	0

Pre-Crash Driver Data

Accident Type	7
Pre-event Movement	GOING STRAIGHT
Critical Pre-crash Event	BLOWOUT/FLATIRE
Attempted Avoidance Manuever	No DRIVER
Pre-impact Stability	LAT SKID-CTR CLK
Pre-impact Location	DEPARTED ROADWAY

PASSENGER Factors

Age	17	Height	0	Weight	0
Gender					MALE
Ejection					COMPLETE EJECT
Ejection Area					Other AREA
Entrapment					Not ENTRAPPED

Restraint Factors

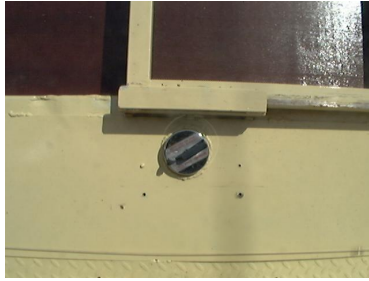
Restrain	None used/avail
AOPS	NO
Airbag Deployment	Not EQUIP/AVAIL
Airbag Deployment - 1 st Seat	Not EQUIP/AVAIL
Airbag Deployment - Oth Seat	Not EQUIP W/ OTH

Injuries

Occupant	1999-76-25-1-16
MAIS	0=None
Seat Position	Unenclosed area

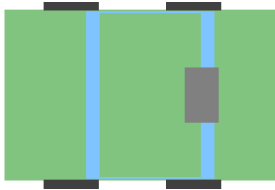
AIS Level	Injury Description	Contacts
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Occupant: 1999-76-25-1-17



Fire Information

Fire Occurrence	No fire
Fire Origin	No fire
Location of Fuel Leakage	Tank
Type of Fuel Tank	Metallic
Fuel Tank Location	Behind rear axle, centered
Fuel Cap Location	On back plane
Fuel Tank Damage	Punctured
Fuel Type	Gasoline



Pre-Crash Environment

Traffic Flow	Not DIVIDED
Number of Travel Lanes	TWO
Roadway Alignment	STRAIGHT
Roadway Profile	LEVEL
Roadway Surface Type	ASPHALT
Roadway Surface Condition	DRY
Light Conditions	DAYLIGHT
Atmospheric Conditions	No ADVERSE COND
Relation to Intersection	NONINTER/NONJUNC
Traffic Control Device	
Police Reported Alcohol Presence	No ALCOHOL
Alcohol Test (< 95 indicates BAC 0.xx)	0

Crash Severity

Nr. Quarter Turns	4 QUARTER TURNS
Impact Speed	< 0.5KMPH
Total, Longitudal, and Lateral δV	< 0.5 KMPH < 0.5 KMPH < 0.5 KMPH
Est. δV with sequence number	MINOR 1
CDC	0 T D D O 2
Damage (C1-C6)	0 0 0 0 0 0
Crush (L and D)	0 0
Object Contacted 1	ROLLOVER-OVERTURN
Object Contacted 2	0

NASS Weighting Factor

Weighting factor	132.38553441
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Rollover Characteristics

Number of Events	1
Rollover Initiation Type	TRIP-OVER
Location of Rollover Initiation	ON SHLDER-UNPAVE
Rollover Initiation Object Contacted	GROUND
Location on Vehicle where Principal Tripping Force was Applied	WHEELS/TIRES
Direction of Initial Roll	ROLL RIGHT

Vehicle Factors

Make-Model	Chevrolet C/K-series Pickup
Year	1974
Class	TRUCK
Body Type	LARGE PICKUP
Weight	0

Pre-Crash Driver Data

Accident Type	7
Pre-event Movement	GOING STRAIGHT
Critical Pre-crash Event	BLOWOUT/FLATIRE
Attempted Avoidance Manuever	No DRIVER
Pre-impact Stability	LAT SKID-CTR CLK
Pre-impact Location	DEPARTED ROADWAY

PASSENGER Factors

Age	21	Height	0	Weight	0
Gender					MALE
Ejection					COMPLETE EJECT
Ejection Area					Other AREA
Entrapment					Not ENTRAPPED

Restraint Factors

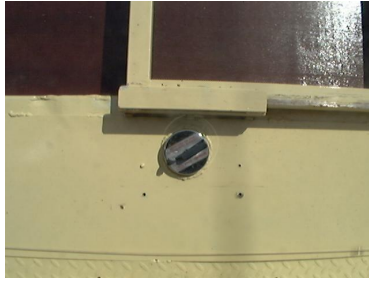
Restrain	None used/avail
AOPS	NO
Airbag Deployment	Not EQUIP/AVAIL
Airbag Deployment - 1 st Seat	Not EQUIP/AVAIL
Airbag Deployment - Oth Seat	Not EQUIP W/ OTH

Injuries

Occupant	1999-76-25-1-17
MAIS	0=None
Seat Position	Unenclosed area

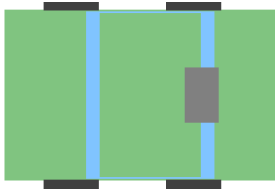
AIS Level	Injury Description	Contacts
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Occupant: 1999-76-25-1-18



Fire Information

Fire Occurrence	No fire
Fire Origin	No fire
Location of Fuel Leakage	Tank
Type of Fuel Tank	Metallic
Fuel Tank Location	Behind rear axle, centered
Fuel Cap Location	On back plane
Fuel Tank Damage	Punctured
Fuel Type	Gasoline



Pre-Crash Environment

Traffic Flow	Not DIVIDED
Number of Travel Lanes	TWO
Roadway Alignment	STRAIGHT
Roadway Profile	LEVEL
Roadway Surface Type	ASPHALT
Roadway Surface Condition	DRY
Light Conditions	DAYLIGHT
Atmospheric Conditions	No ADVERSE COND
Relation to Intersection	NONINTER/NONJUNC
Traffic Control Device	
Police Reported Alcohol Presence	No ALCOHOL
Alcohol Test (< 95 indicates BAC 0.xx)	0

Crash Severity

Nr. Quarter Turns	4 QUARTER TURNS
Impact Speed	< 0.5KMPH
Total, Longitudal, and Lateral δV	< 0.5 KMPH < 0.5 KMPH < 0.5 KMPH
Est. δV with sequence number	MINOR 1
CDC	0 T D D O 2
Damage (C1-C6)	0 0 0 0 0 0
Crush (L and D)	0 0
Object Contacted 1	ROLLOVER-OVERTURN
Object Contacted 2	0

NASS Weighting Factor

Weighting factor	132.38553441
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Rollover Characteristics

Number of Events	1
Rollover Initiation Type	TRIP-OVER
Location of Rollover Initiation	ON SHLDER-UNPAVE
Rollover Initiation Object Contacted	GROUND
Location on Vehicle where Principal Tripping Force was Applied	WHEELS/TIRES
Direction of Initial Roll	ROLL RIGHT

Vehicle Factors

Make-Model	Chevrolet C/K-series Pickup
Year	1974
Class	TRUCK
Body Type	LARGE PICKUP
Weight	0

Pre-Crash Driver Data

Accident Type	7
Pre-event Movement	GOING STRAIGHT
Critical Pre-crash Event	BLOWOUT/FLATIRE
Attempted Avoidance Manuever	No DRIVER
Pre-impact Stability	LAT SKID-CTR CLK
Pre-impact Location	DEPARTED ROADWAY

PASSENGER Factors

Age	LESS THAN ONE YR	Height	0	Weight	0
Gender	Unknown	Ejection	COMPLETE EJECT	Ejection Area	Other AREA
Entrapment	Not ENTRAPPED				

Restraint Factors

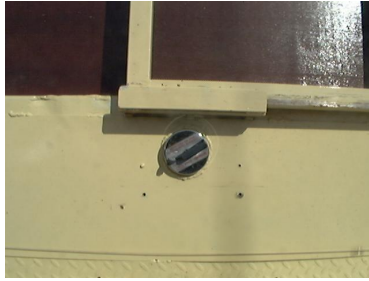
Restrain	None used/avail
AOPS	NO
Airbag Deployment	Not EQUIP/AVAIL
Airbag Deployment - 1 st Seat	Not EQUIP/AVAIL
Airbag Deployment - Oth Seat	Not EQUIP W/ OTH

Injuries

Occupant	1999-76-25-1-18
MAIS	0=None
Seat Position	Unenclosed area

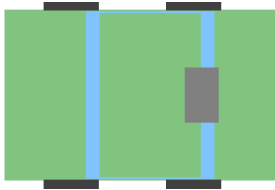
AIS Level	Injury Description	Contacts
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Occupant: 1999-76-25-1-19



Fire Information

Fire Occurrence	No fire
Fire Origin	No fire
Location of Fuel Leakage	Tank
Type of Fuel Tank	Metallic
Fuel Tank Location	Behind rear axle, centered
Fuel Cap Location	On back plane
Fuel Tank Damage	Punctured
Fuel Type	Gasoline



Pre-Crash Environment

Traffic Flow	Not DIVIDED
Number of Travel Lanes	TWO
Roadway Alignment	STRAIGHT
Roadway Profile	LEVEL
Roadway Surface Type	ASPHALT
Roadway Surface Condition	DRY
Light Conditions	DAYLIGHT
Atmospheric Conditions	No ADVERSE COND
Relation to Intersection	NONINTER/NONJUNC
Traffic Control Device	
Police Reported Alcohol Presence	No ALCOHOL
Alcohol Test (< 95 indicates BAC 0.xx)	0

Crash Severity

Nr. Quarter Turns	4 QUARTER TURNS
Impact Speed	< 0.5KMPH
Total, Longitudal, and Lateral δV	< 0.5 KMPH < 0.5 KMPH < 0.5 KMPH
Est. δV with sequence number	MINOR 1
CDC	0 T D D O 2
Damage (C1-C6)	0 0 0 0 0 0
Crush (L and D)	0 0
Object Contacted 1	ROLLOVER-OVERTURN
Object Contacted 2	0

NASS Weighting Factor

Weighting factor	132.38553441
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Rollover Characteristics

Number of Events	1
Rollover Initiation Type	TRIP-OVER
Location of Rollover Initiation	ON SHLDER-UNPAVE
Rollover Initiation Object Contacted	GROUND
Location on Vehicle where Principal Tripping Force was Applied	WHEELS/TIRES
Direction of Initial Roll	ROLL RIGHT

Vehicle Factors

Make-Model	Chevrolet C/K-series Pickup
Year	1974
Class	TRUCK
Body Type	LARGE PICKUP
Weight	0

Pre-Crash Driver Data

Accident Type	7
Pre-event Movement	GOING STRAIGHT
Critical Pre-crash Event	BLOWOUT/FLATIRE
Attempted Avoidance Manuever	No DRIVER
Pre-impact Stability	LAT SKID-CTR CLK
Pre-impact Location	DEPARTED ROADWAY

PASSENGER Factors

Age	LESS THAN ONE YR	Height	0	Weight	0
Gender	Unknown	Ejection	COMPLETE EJECT	Ejection Area	Other AREA
Entrapment	Not ENTRAPPED				

Restraint Factors

Restrain	None used/avail
AOPS	NO
Airbag Deployment	Not EQUIP/AVAIL
Airbag Deployment - 1 st Seat	Not EQUIP/AVAIL
Airbag Deployment - Oth Seat	Not EQUIP W/ OTH

Injuries

Occupant	1999-76-25-1-19
MAIS	0=None
Seat Position	Unenclosed area

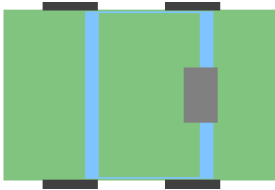
AIS Level	Injury Description	Contacts
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Occupant: 1999-76-25-1-20



Fire Information

Fire Occurence	No fire
Fire Origin	No fire
Location of Fuel Leakage	Tank
Type of Fuel Tank	Metallic
Fuel Tank Location	Behind rear axle, centered
Fuel Cap Location	On back plane
Fuel Tank Damage	Punctured
Fuel Type	Gasoline



Pre-Crash Environment

Traffic Flow	Not DIVIDED
Number of Travel Lanes	TWO
Roadway Alignment	STRAIGHT
Roadway Profile	LEVEL
Roadway Surface Type	ASPHALT
Roadway Surface Condition	DRY
Light Conditions	DAYLIGHT
Atmospheric Conditions	No ADVERSE COND
Relation to Intersection	NONINTER/NONJUNC
Traffic Control Device	
Police Reported Alcohol Presence	No ALCOHOL
Alcohol Test (< 95 indicates BAC 0.xx)	0

Crash Severity

Nr. Quarter Turns	4 QUARTER TURNS
Impact Speed	< 0.5KMPH
Total, Longitudal, and Lateral δV	< 0.5 KMPH < 0.5 KMPH < 0.5 KMPH
Est. δV with sequence number	MINOR 1
CDC	0 T D D O 2
Damage (C1-C6)	0 0 0 0 0 0
Crush (L and D)	0 0
Object Contacted 1	ROLLOVER-OVERTURN
Object Contacted 2	0

NASS Weighting Factor

Weighting factor	132.38553441
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Rollover Characteristics

Number of Events	1
Rollover Initiation Type	TRIP-OVER
Location of Rollover Initiation	ON SHLDER-UNPAVE
Rollover Initiation Object Contacted	GROUND
Location on Vehicle where Principal Tripping Force was Applied	WHEELS/TIRES
Direction of Initial Roll	ROLL RIGHT

Vehicle Factors

Make-Model	Chevrolet C/K-series Pickup
Year	1974
Class	TRUCK
Body Type	LARGE PICKUP
Weight	0

Pre-Crash Driver Data

Accident Type	7
Pre-event Movement	GOING STRAIGHT
Critical Pre-crash Event	BLOWOUT/FLATIRE
Attempted Avoidance Manuever	No DRIVER
Pre-impact Stability	LAT SKID-CTR CLK
Pre-impact Location	DEPARTED ROADWAY

PASSENGER Factors

Age	LESS THAN ONE YR	Height	0	Weight	0
Gender	Unknown	Ejection	COMPLETE EJECT	Ejection Area	Other AREA
Entrapment	Not ENTRAPPED				

Restraint Factors

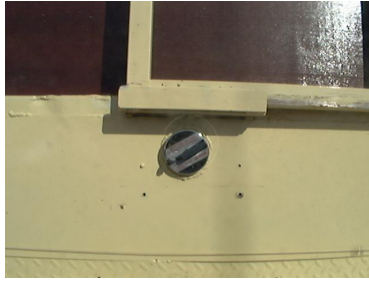
Restrain	None used/avail
AOPS	NO
Airbag Deployment	Not EQUIP/AVAIL
Airbag Deployment - 1 st Seat	Not EQUIP/AVAIL
Airbag Deployment - Oth Seat	Not EQUIP W/ OTH

Injuries

Occupant	1999-76-25-1-20
MAIS	0=None
Seat Position	Unenclosed area

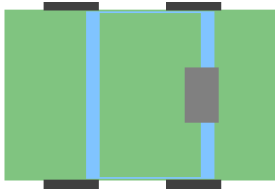
AIS Level	Injury Description	Contacts
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Occupant: 1999-76-25-1-21



Fire Information

Fire Occurrence	No fire
Fire Origin	No fire
Location of Fuel Leakage	Tank
Type of Fuel Tank	Metallic
Fuel Tank Location	Behind rear axle, centered
Fuel Cap Location	On back plane
Fuel Tank Damage	Punctured
Fuel Type	Gasoline



Pre-Crash Environment

Traffic Flow	Not DIVIDED
Number of Travel Lanes	TWO
Roadway Alignment	STRAIGHT
Roadway Profile	LEVEL
Roadway Surface Type	ASPHALT
Roadway Surface Condition	DRY
Light Conditions	DAYLIGHT
Atmospheric Conditions	No ADVERSE COND
Relation to Intersection	NONINTER/NONJUNC
Traffic Control Device	
Police Reported Alcohol Presence	No ALCOHOL
Alcohol Test (< 95 indicates BAC 0.xx)	0

Crash Severity

Nr. Quarter Turns	4 QUARTER TURNS
Impact Speed	< 0.5KMPH
Total, Longitudal, and Lateral δV	< 0.5 KMPH < 0.5 KMPH < 0.5 KMPH
Est. δV with sequence number	MINOR 1
CDC	0 T D D O 2
Damage (C1-C6)	0 0 0 0 0 0
Crush (L and D)	0 0
Object Contacted 1	ROLLOVER-OVERTURN
Object Contacted 2	0

NASS Weighting Factor

Weighting factor	132.38553441
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Rollover Characteristics

Number of Events	1
Rollover Initiation Type	TRIP-OVER
Location of Rollover Initiation	ON SHLDER-UNPAVE
Rollover Initiation Object Contacted	GROUND
Location on Vehicle where Principal Tripping Force was Applied	WHEELS/TIRES
Direction of Initial Roll	ROLL RIGHT

Vehicle Factors

Make-Model	Chevrolet C/K-series Pickup
Year	1974
Class	TRUCK
Body Type	LARGE PICKUP
Weight	0

Pre-Crash Driver Data

Accident Type	7
Pre-event Movement	GOING STRAIGHT
Critical Pre-crash Event	BLOWOUT/FLATIRE
Attempted Avoidance Manuever	No DRIVER
Pre-impact Stability	LAT SKID-CTR CLK
Pre-impact Location	DEPARTED ROADWAY

PASSENGER Factors

Age	LESS THAN ONE YR	Height	0	Weight	0
Gender	Unknown	Ejection	COMPLETE EJECT	Ejection Area	Other AREA
Entrapment	Not ENTRAPPED				

Restraint Factors

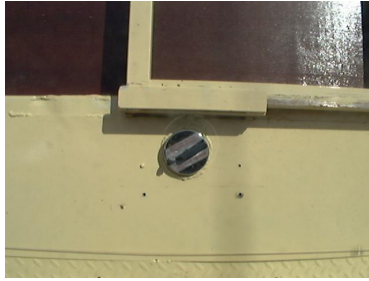
Restrain	None used/avail
AOPS	NO
Airbag Deployment	Not EQUIP/AVAIL
Airbag Deployment - 1 st Seat	Not EQUIP/AVAIL
Airbag Deployment - Oth Seat	Not EQUIP W/ OTH

Injuries

Occupant	1999-76-25-1-21
MAIS	0=None
Seat Position	Unenclosed area

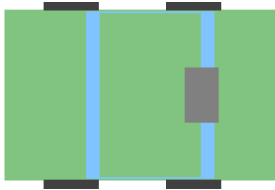
AIS Level	Injury Description	Contacts
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Occupant: 1999-76-25-1-22



Fire Information

Fire Occurrence	No fire
Fire Origin	No fire
Location of Fuel Leakage	Tank
Type of Fuel Tank	Metallic
Fuel Tank Location	Behind rear axle, centered
Fuel Cap Location	On back plane
Fuel Tank Damage	Punctured
Fuel Type	Gasoline



Pre-Crash Environment

Traffic Flow	Not DIVIDED
Number of Travel Lanes	TWO
Roadway Alignment	STRAIGHT
Roadway Profile	LEVEL
Roadway Surface Type	ASPHALT
Roadway Surface Condition	DRY
Light Conditions	DAYLIGHT
Atmospheric Conditions	No ADVERSE COND
Relation to Intersection	NONINTER/NONJUNC
Traffic Control Device	
Police Reported Alcohol Presence	No ALCOHOL
Alcohol Test (< 95 indicates BAC 0.xx)	0

Crash Severity

Nr. Quarter Turns	4 QUARTER TURNS
Impact Speed	< 0.5KMPH
Total, Longitudal, and Lateral δV	< 0.5 KMPH < 0.5 KMPH < 0.5 KMPH
Est. δV with sequence number	MINOR 1
CDC	0 T D D O 2
Damage (C1-C6)	0 0 0 0 0 0
Crush (L and D)	0 0
Object Contacted 1	ROLLOVER-OVERTURN
Object Contacted 2	0

NASS Weighting Factor

Weighting factor	132.38553441
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Rollover Characteristics

Number of Events	1
Rollover Initiation Type	TRIP-OVER
Location of Rollover Initiation	ON SHLDER-UNPAVE
Rollover Initiation Object Contacted	GROUND
Location on Vehicle where Principal Tripping Force was Applied	WHEELS/TIRES
Direction of Initial Roll	ROLL RIGHT

Vehicle Factors

Make-Model	Chevrolet C/K-series Pickup
Year	1974
Class	TRUCK
Body Type	LARGE PICKUP
Weight	0

Pre-Crash Driver Data

Accident Type	7
Pre-event Movement	GOING STRAIGHT
Critical Pre-crash Event	BLOWOUT/FLATIRE
Attempted Avoidance Manuever	No DRIVER
Pre-impact Stability	LAT SKID-CTR CLK
Pre-impact Location	DEPARTED ROADWAY

PASSENGER Factors

Age	LESS THAN ONE YR	Height	0	Weight	0
Gender	Unknown	Ejection	COMPLETE EJECT	Ejection Area	Other AREA
Entrapment	Not ENTRAPPED				

Restraint Factors

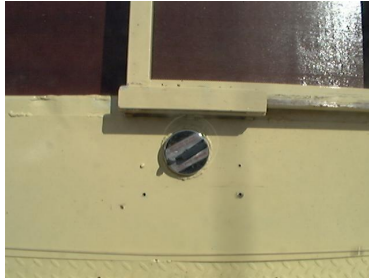
Restrain	None used/avail
AOPS	NO
Airbag Deployment	Not EQUIP/AVAIL
Airbag Deployment - 1 st Seat	Not EQUIP/AVAIL
Airbag Deployment - Oth Seat	Not EQUIP W/ OTH

Injuries

Occupant	1999-76-25-1-22
MAIS	0=None
Seat Position	Unenclosed area

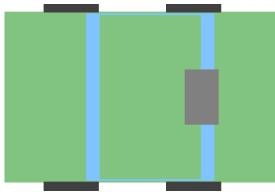
AIS Level	Injury Description	Contacts
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Occupant: 1999-76-25-1-23



Fire Information

Fire Occurrence	No fire
Fire Origin	No fire
Location of Fuel Leakage	Tank
Type of Fuel Tank	Metallic
Fuel Tank Location	Behind rear axle, centered
Fuel Cap Location	On back plane
Fuel Tank Damage	Punctured
Fuel Type	Gasoline



Pre-Crash Environment

Traffic Flow	Not DIVIDED
Number of Travel Lanes	TWO
Roadway Alignment	STRAIGHT
Roadway Profile	LEVEL
Roadway Surface Type	ASPHALT
Roadway Surface Condition	DRY
Light Conditions	DAYLIGHT
Atmospheric Conditions	No ADVERSE COND
Relation to Intersection	NONINTER/NONJUNC
Traffic Control Device	
Police Reported Alcohol Presence	No ALCOHOL
Alcohol Test (< 95 indicates BAC 0.xx)	0

Crash Severity

Nr. Quarter Turns	4 QUARTER TURNS
Impact Speed	< 0.5KMPH
Total, Longitudal, and Lateral δV	< 0.5 KMPH < 0.5 KMPH < 0.5 KMPH
Est. δV with sequence number	MINOR 1
CDC	0 T D D O 2
Damage (C1-C6)	0 0 0 0 0 0
Crush (L and D)	0 0
Object Contacted 1	ROLLOVER-OVERTURN
Object Contacted 2	0

NASS Weighting Factor

Weighting factor	132.38553441
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Rollover Characteristics

Number of Events	1
Rollover Initiation Type	TRIP-OVER
Location of Rollover Initiation	ON SHLDER-UNPAVE
Rollover Initiation Object Contacted	GROUND
Location on Vehicle where Principal Tripping Force was Applied	WHEELS/TIRES
Direction of Initial Roll	ROLL RIGHT

Vehicle Factors

Make-Model	Chevrolet C/K-series Pickup
Year	1974
Class	TRUCK
Body Type	LARGE PICKUP
Weight	0

Pre-Crash Driver Data

Accident Type	7
Pre-event Movement	GOING STRAIGHT
Critical Pre-crash Event	BLOWOUT/FLATIRE
Attempted Avoidance Manuever	No DRIVER
Pre-impact Stability	LAT SKID-CTR CLK
Pre-impact Location	DEPARTED ROADWAY

PASSENGER Factors

Age	LESS THAN ONE YR	Height	0	Weight	0
Gender	Unknown	Ejection	COMPLETE EJECT	Ejection Area	Other AREA
Entrapment	Not ENTRAPPED				

Restraint Factors

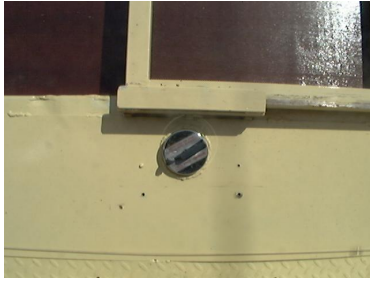
Restrain	None used/avail
AOPS	NO
Airbag Deployment	Not EQUIP/AVAIL
Airbag Deployment - 1 st Seat	Not EQUIP/AVAIL
Airbag Deployment - Oth Seat	Not EQUIP W/ OTH

Injuries

Occupant	1999-76-25-1-23
MAIS	0=None
Seat Position	Unenclosed area

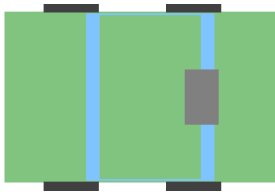
AIS Level	Injury Description	Contacts
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Occupant: 1999-76-25-1-24



Fire Information

Fire Occurrence	No fire
Fire Origin	No fire
Location of Fuel Leakage	Tank
Type of Fuel Tank	Metallic
Fuel Tank Location	Behind rear axle, centered
Fuel Cap Location	On back plane
Fuel Tank Damage	Punctured
Fuel Type	Gasoline



Pre-Crash Environment

Traffic Flow	Not DIVIDED
Number of Travel Lanes	TWO
Roadway Alignment	STRAIGHT
Roadway Profile	LEVEL
Roadway Surface Type	ASPHALT
Roadway Surface Condition	DRY
Light Conditions	DAYLIGHT
Atmospheric Conditions	No ADVERSE COND
Relation to Intersection	NONINTER/NONJUNC
Traffic Control Device	
Police Reported Alcohol Presence	No ALCOHOL
Alcohol Test (< 95 indicates BAC 0.xx)	0

Crash Severity

Nr. Quarter Turns	4 QUARTER TURNS
Impact Speed	< 0.5KMPH
Total, Longitudal, and Lateral δV	< 0.5 KMPH < 0.5 KMPH < 0.5 KMPH
Est. δV with sequence number	MINOR 1
CDC	0 T D D O 2
Damage (C1-C6)	0 0 0 0 0 0
Crush (L and D)	0 0
Object Contacted 1	ROLLOVER-OVERTURN
Object Contacted 2	0

NASS Weighting Factor

Weighting factor	132.38553441
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Rollover Characteristics

Number of Events	1
Rollover Initiation Type	TRIP-OVER
Location of Rollover Initiation	ON SHLDER-UNPAVE
Rollover Initiation Object Contacted	GROUND
Location on Vehicle where Principal Tripping Force was Applied	WHEELS/TIRES
Direction of Initial Roll	ROLL RIGHT

Vehicle Factors

Make-Model	Chevrolet C/K-series Pickup
Year	1974
Class	TRUCK
Body Type	LARGE PICKUP
Weight	0

Pre-Crash Driver Data

Accident Type	7
Pre-event Movement	GOING STRAIGHT
Critical Pre-crash Event	BLOWOUT/FLATIRE
Attempted Avoidance Manuever	No DRIVER
Pre-impact Stability	LAT SKID-CTR CLK
Pre-impact Location	DEPARTED ROADWAY

PASSENGER Factors

Age	LESS THAN ONE YR	Height	0	Weight	0
Gender	Unknown	Ejection	COMPLETE EJECT	Ejection Area	Other AREA
Entrapment	Not ENTRAPPED				

Restraint Factors

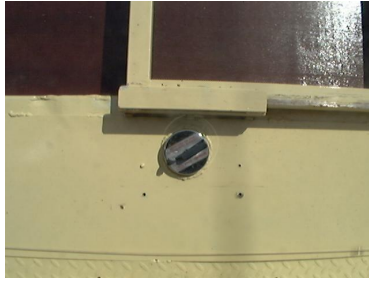
Restrain	None used/avail
AOPS	NO
Airbag Deployment	Not EQUIP/AVAIL
Airbag Deployment - 1 st Seat	Not EQUIP/AVAIL
Airbag Deployment - Oth Seat	Not EQUIP W/ OTH

Injuries

Occupant	1999-76-25-1-24
MAIS	0=None
Seat Position	Unenclosed area

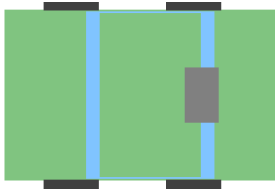
AIS Level	Injury Description	Contacts
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Occupant: 1999-76-25-1-25



Fire Information

Fire Occurrence	No fire
Fire Origin	No fire
Location of Fuel Leakage	Tank
Type of Fuel Tank	Metallic
Fuel Tank Location	Behind rear axle, centered
Fuel Cap Location	On back plane
Fuel Tank Damage	Punctured
Fuel Type	Gasoline



Pre-Crash Environment

Traffic Flow	Not DIVIDED
Number of Travel Lanes	TWO
Roadway Alignment	STRAIGHT
Roadway Profile	LEVEL
Roadway Surface Type	ASPHALT
Roadway Surface Condition	DRY
Light Conditions	DAYLIGHT
Atmospheric Conditions	No ADVERSE COND
Relation to Intersection	NONINTER/NONJUNC
Traffic Control Device	
Police Reported Alcohol Presence	No ALCOHOL
Alcohol Test (< 95 indicates BAC 0.xx)	0

Crash Severity

Nr. Quarter Turns	4 QUARTER TURNS
Impact Speed	< 0.5KMPH
Total, Longitudal, and Lateral δV	< 0.5 KMPH < 0.5 KMPH < 0.5 KMPH
Est. δV with sequence number	MINOR 1
CDC	0 T D D O 2
Damage (C1-C6)	0 0 0 0 0 0
Crush (L and D)	0 0
Object Contacted 1	ROLLOVER-OVERTURN
Object Contacted 2	0

NASS Weighting Factor

Weighting factor	132.38553441
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Rollover Characteristics

Number of Events	1
Rollover Initiation Type	TRIP-OVER
Location of Rollover Initiation	ON SHLDER-UNPAVE
Rollover Initiation Object Contacted	GROUND
Location on Vehicle where Principal Tripping Force was Applied	WHEELS/TIRES
Direction of Initial Roll	ROLL RIGHT

Vehicle Factors

Make-Model	Chevrolet C/K-series Pickup
Year	1974
Class	TRUCK
Body Type	LARGE PICKUP
Weight	0

Pre-Crash Driver Data

Accident Type	7
Pre-event Movement	GOING STRAIGHT
Critical Pre-crash Event	BLOWOUT/FLATIRE
Attempted Avoidance Manuever	No DRIVER
Pre-impact Stability	LAT SKID-CTR CLK
Pre-impact Location	DEPARTED ROADWAY

PASSENGER Factors

Age	LESS THAN ONE YR	Height	0	Weight	0
Gender	Unknown	Ejection	COMPLETE EJECT	Ejection Area	Other AREA
Entrapment	Not ENTRAPPED				

Restraint Factors

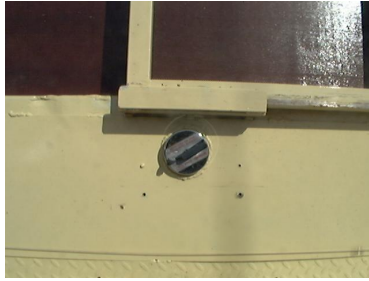
Restrain	None used/avail
AOPS	NO
Airbag Deployment	Not EQUIP/AVAIL
Airbag Deployment - 1 st Seat	Not EQUIP/AVAIL
Airbag Deployment - Oth Seat	Not EQUIP W/ OTH

Injuries

Occupant	1999-76-25-1-25
MAIS	0=None
Seat Position	Unenclosed area

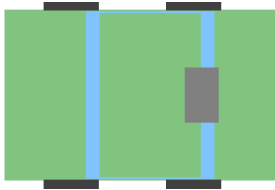
AIS Level	Injury Description	Contacts
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Occupant: 1999-76-25-1-26



Fire Information

Fire Occurrence	No fire
Fire Origin	No fire
Location of Fuel Leakage	Tank
Type of Fuel Tank	Metallic
Fuel Tank Location	Behind rear axle, centered
Fuel Cap Location	On back plane
Fuel Tank Damage	Punctured
Fuel Type	Gasoline



Pre-Crash Environment

Traffic Flow	Not DIVIDED
Number of Travel Lanes	TWO
Roadway Alignment	STRAIGHT
Roadway Profile	LEVEL
Roadway Surface Type	ASPHALT
Roadway Surface Condition	DRY
Light Conditions	DAYLIGHT
Atmospheric Conditions	No ADVERSE COND
Relation to Intersection	NONINTER/NONJUNC
Traffic Control Device	
Police Reported Alcohol Presence	No ALCOHOL
Alcohol Test (< 95 indicates BAC 0.xx)	0

Crash Severity

Nr. Quarter Turns	4 QUARTER TURNS
Impact Speed	< 0.5KMPH
Total, Longitudal, and Lateral δV	< 0.5 KMPH < 0.5 KMPH < 0.5 KMPH
Est. δV with sequence number	MINOR 1
CDC	0 T D D O 2
Damage (C1-C6)	0 0 0 0 0 0
Crush (L and D)	0 0
Object Contacted 1	ROLLOVER-OVERTURN
Object Contacted 2	0

NASS Weighting Factor

Weighting factor	132.38553441
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Rollover Characteristics

Number of Events	1
Rollover Initiation Type	TRIP-OVER
Location of Rollover Initiation	ON SHLDER-UNPAVE
Rollover Initiation Object Contacted	GROUND
Location on Vehicle where Principal Tripping Force was Applied	WHEELS/TIRES
Direction of Initial Roll	ROLL RIGHT

Vehicle Factors

Make-Model	Chevrolet C/K-series Pickup
Year	1974
Class	TRUCK
Body Type	LARGE PICKUP
Weight	0

Pre-Crash Driver Data

Accident Type	7
Pre-event Movement	GOING STRAIGHT
Critical Pre-crash Event	BLOWOUT/FLATIRE
Attempted Avoidance Manuever	No DRIVER
Pre-impact Stability	LAT SKID-CTR CLK
Pre-impact Location	DEPARTED ROADWAY

PASSENGER Factors

Age	LESS THAN ONE YR	Height	0	Weight	0
Gender	Unknown	Ejection	COMPLETE EJECT	Ejection Area	Other AREA
Entrapment	Not ENTRAPPED				

Restraint Factors

Restrain	None used/avail
AOPS	NO
Airbag Deployment	Not EQUIP/AVAIL
Airbag Deployment - 1 st Seat	Not EQUIP/AVAIL
Airbag Deployment - Oth Seat	Not EQUIP W/ OTH

Injuries

Occupant	1999-76-25-1-26
MAIS	0=None
Seat Position	Unenclosed area

AIS Level	Injury Description	Contacts
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68 Case 1999-76-32

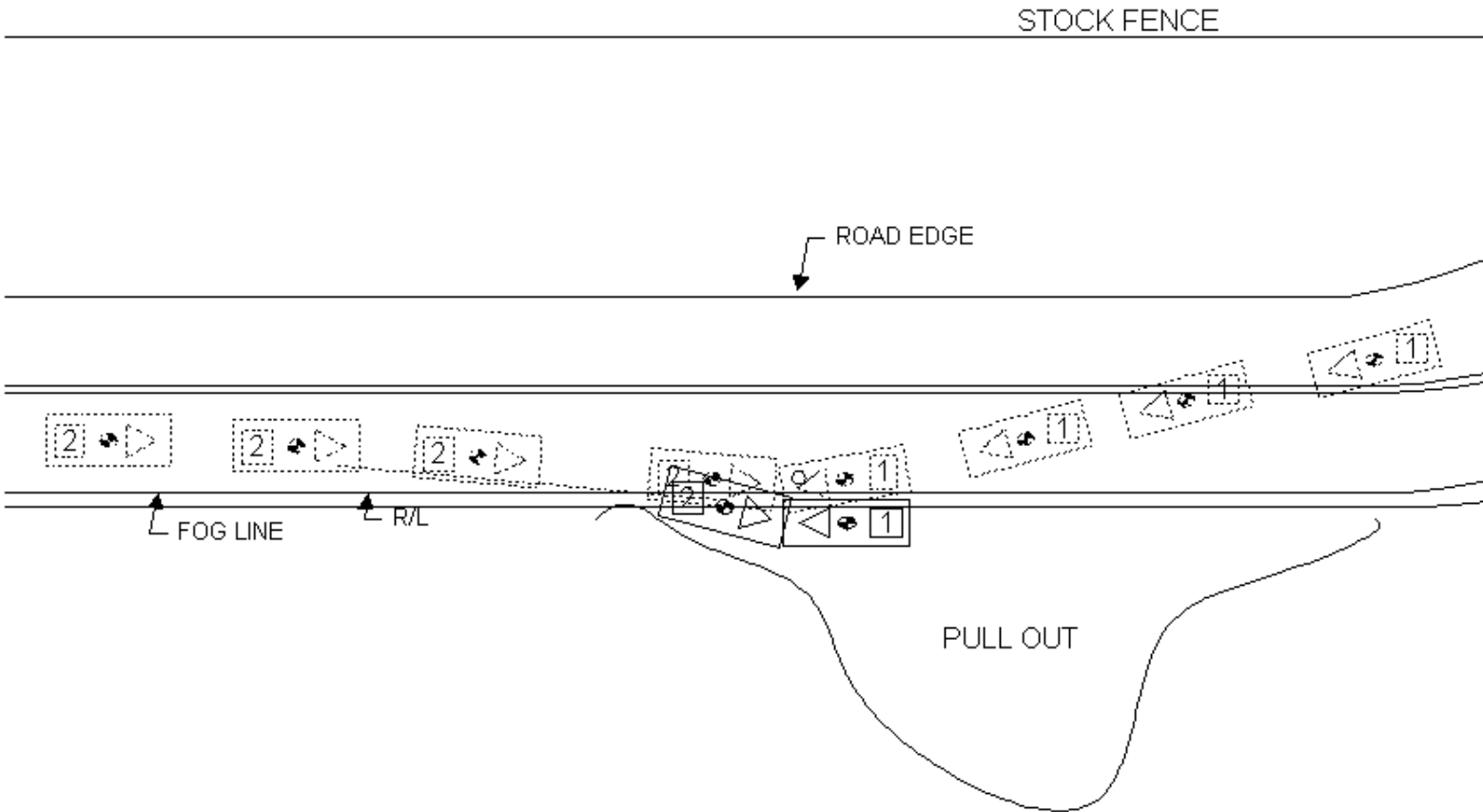
Summary:

Crash occurred on a two lane non divided roadway running East to West, Weather was clear, during daylight hours with good visibility. Roadway is level with no defects. Vehicle #1 (1990 Honda 4 door sedan) had just gone thru a right hand curve heading West, crossed the center line to exit roadway. Vehicle #2 (1974 Jeep station wagon) was heading East saw Vehicle #1 crossing the East bound lane applied brakes and steered right but still impacted Vehicle #1 on the front plane. Driver and occupant #3 of Vehicle #1 were transported for injuries and released. Occupant #2 was treated and admitted. Driver of vehicle #2 was transported and released. Both vehicles were towed due to damages.



R/P POLE #
5661

PSU-76
CASE 032K
SCALE: 1CM=2.5M



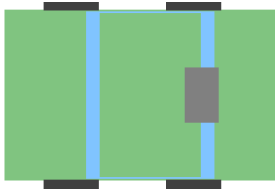
Vehicle	Body type	Make	Model	Year	Occ.#	Age	Occupant's sex	Maximum known occupant ais
1	4-DR SEDAN/HDTOP	Honda	Accord	1990	1	17	MALE	1=Minor
1	4-DR SEDAN/HDTOP	Honda	Accord	1990	2	24	MALE	2=Moderate
1	4-DR SEDAN/HDTOP	Honda	Accord	1990	3	18	MALE	1=Minor
2	LARGE UTILITY	Jeep	Cherokee-83	1974	1	54	MALE	1=Minor

Occupant: 1999-76-32-1-1



Fire Information

Fire Occurrence	No fire
Fire Origin	No fire
Location of Fuel Leakage	No fuel leakage
Type of Fuel Tank	Metallic
Fuel Tank Location	Forward of rear axle, centered
Fuel Cap Location	Left side, behind rear axle
Fuel Tank Damage	No damage
Fuel Type	Gasoline



Crash Severity

Nr. Quarter Turns	No rollover
Impact Speed	998
Total, Longitudal, and Lateral δV	28 -27 -5
Est. δV with sequence number	DELTA V CODED 1
CDC	12 F D E W 2
Damage (C1-C6)	0 0 0 0 0
Crush (L and D)	0 0
Object Contacted 1	VEHICLE NO. 2
Object Contacted 2	0

NASS Weighting Factor

Weighting factor	126.08146135
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Rollover Characteristics

Number of Events	1
Rollover Initiation Type	No rollover
Location of Rollover Initiation	No rollover
Rollover Initiation Object Contacted	No rollover
Location on Vehicle where Principal Tripping Force was Applied	No rollover
Direction of Initial Roll	No rollover

Pre-Crash Environment

Traffic Flow	Not DIVIDED
Number of Travel Lanes	TWO
Roadway Alignment	STRAIGHT
Roadway Profile	LEVEL
Roadway Surface Type	ASPHALT
Roadway Surface Condition	DRY
Light Conditions	DAYLIGHT
Atmospheric Conditions	No ADVERSE COND
Relation to Intersection	NONINTER/NONJUNC
Traffic Control Device	
Police Reported Alcohol Presence	No ALCOHOL
Alcohol Test (< 95 indicates BAC 0.xx)	0

Vehicle Factors

Make-Model	Honda Accord
Year	1990
Class	PASSENGER CAR
Body Type	4-DR SEDAN/HDTOP
Weight	124

Pre-Crash Driver Data

Accident Type	68
Pre-event Movement	TURNING LEFT
Critical Pre-crash Event	OVER LINE-LEFT
Attempted Avoidance Manuever	STEERING LEFT
Pre-impact Stability	TRACKING
Pre-impact Location	Left TRAVEL LANE

DRIVER Factors

Age	17	Height	175	Weight	52
Gender			MALE		
Ejection			No EJECTION		
Ejection Area			No EJECTION		
Entrapment			Not ENTRAPPED		

Restraint Factors

Restrain	None used/avail
AOPS	YES-RES DET
Airbag Deployment	Not EQUIP/AVAIL
Airbag Deployment - 1 st Seat	Not EQUIP/AVAIL
Airbag Deployment - Oth Seat	Not EQUIP W/ OTH

Injuries

Occupant	1999-76-32-1-1
MAIS	1=Minor
Seat Position	Front left side

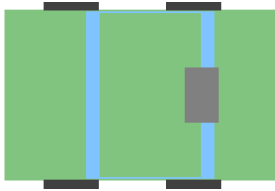
AIS Level	Injury Description	Contacts
1=Minor	Facial skin contusion	Windshield

Occupant: 1999-76-32-1-2



Fire Information

Fire Occurrence	No fire
Fire Origin	No fire
Location of Fuel Leakage	No fuel leakage
Type of Fuel Tank	Metallic
Fuel Tank Location	Forward of rear axle, centered
Fuel Cap Location	Left side, behind rear axle
Fuel Tank Damage	No damage
Fuel Type	Gasoline



Crash Severity

Nr. Quarter Turns	No rollover
Impact Speed	998
Total, Longitudal, and Lateral δV	28 -27 -5
Est. δV with sequence number	DELTA V CODED 1
CDC	12 F D E W 2
Damage (C1-C6)	0 0 0 0 0
Crush (L and D)	0 0
Object Contacted 1	VEHICLE NO. 2
Object Contacted 2	0

NASS Weighting Factor

Weighting factor	126.08146135
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Rollover Characteristics

Number of Events	1
Rollover Initiation Type	No rollover
Location of Rollover Initiation	No rollover
Rollover Initiation Object Contacted	No rollover
Location on Vehicle where Principal Tripping Force was Applied	No rollover
Direction of Initial Roll	No rollover

Pre-Crash Environment

Traffic Flow	Not DIVIDED
Number of Travel Lanes	TWO
Roadway Alignment	STRAIGHT
Roadway Profile	LEVEL
Roadway Surface Type	ASPHALT
Roadway Surface Condition	DRY
Light Conditions	DAYLIGHT
Atmospheric Conditions	No ADVERSE COND
Relation to Intersection	NONINTER/NONJUNC
Traffic Control Device	
Police Reported Alcohol Presence	No ALCOHOL
Alcohol Test (< 95 indicates BAC 0.xx)	0

Vehicle Factors

Make-Model	Honda Accord
Year	1990
Class	PASSENGER CAR
Body Type	4-DR SEDAN/HDTOP
Weight	124

Pre-Crash Driver Data

Accident Type	68
Pre-event Movement	TURNING LEFT
Critical Pre-crash Event	OVER LINE-LEFT
Attempted Avoidance Manuever	STEERING LEFT
Pre-impact Stability	TRACKING
Pre-impact Location	Left TRAVEL LANE

PASSENGER Factors

Age	24	Height	170	Weight	64
Gender					MALE
Ejection					No EJECTION
Ejection Area					No EJECTION
Entrapment					Not ENTRAPPED

Restraint Factors

Restrain	None used/avail
AOPS	YES-RES DET
Airbag Deployment	Not EQUIP/AVAIL
Airbag Deployment - 1 st Seat	Not EQUIP/AVAIL
Airbag Deployment - Oth Seat	Not EQUIP W/ OTH

Injuries

Occupant	1999-76-32-1-2
MAIS	2=Moderate
Seat Position	Front right side

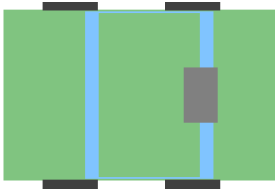
AIS Level	Injury Description	Contacts
2=Moderate	Humeral fracture, closed	Right panel
1=Minor	Facial skin laceration, minor	Right panel

Occupant: 1999-76-32-1-3



Fire Information

Fire Occurence	No fire
Fire Origin	No fire
Location of Fuel Leakage	No fuel leakage
Type of Fuel Tank	Metallic
Fuel Tank Location	Forward of rear axle, centered
Fuel Cap Location	Left side, behind rear axle
Fuel Tank Damage	No damage
Fuel Type	Gasoline



Pre-Crash Environment

Traffic Flow	Not DIVIDED
Number of Travel Lanes	TWO
Roadway Alignment	STRAIGHT
Roadway Profile	LEVEL
Roadway Surface Type	ASPHALT
Roadway Surface Condition	DRY
Light Conditions	DAYLIGHT
Atmospheric Conditions	No ADVERSE COND
Relation to Intersection	NONINTER/NONJUNC
Traffic Control Device	
Police Reported Alcohol Presence	No ALCOHOL
Alcohol Test (< 95 indicates BAC 0.xx)	0

Crash Severity

Nr. Quarter Turns	No rollover
Impact Speed	998
Total, Longitudal, and Lateral δV	28 -27 -5
Est. δV with sequence number	DELTA V CODED 1
CDC	12 F D E W 2
Damage (C1-C6)	0 0 0 0 0
Crush (L and D)	0 0
Object Contacted 1	VEHICLE NO. 2
Object Contacted 2	0

NASS Weighting Factor

Weighting factor	126.08146135
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Rollover Characteristics

Number of Events	1
Rollover Initiation Type	No rollover
Location of Rollover Initiation	No rollover
Rollover Initiation Object Contacted	No rollover
Location on Vehicle where Principal Tripping Force was Applied	No rollover
Direction of Initial Roll	No rollover

Vehicle Factors

Make-Model	Honda Accord
Year	1990
Class	PASSENGER CAR
Body Type	4-DR SEDAN/HDTOP
Weight	124

Pre-Crash Driver Data

Accident Type	68
Pre-event Movement	TURNING LEFT
Critical Pre-crash Event	OVER LINE-LEFT
Attempted Avoidance Manuever	STEERING LEFT
Pre-impact Stability	TRACKING
Pre-impact Location	Left TRAVEL LANE

PASSENGER Factors

Age	18	Height	175	Weight	84
Gender			MALE		
Ejection			No EJECTION		
Ejection Area			No EJECTION		
Entrapment			Not ENTRAPPED		

Restraint Factors

Restrain	Lap and shoulder
AOPS	YES-RES DET
Airbag Deployment	Not EQUIP/AVAIL
Airbag Deployment - 1 st Seat	Not EQUIP/AVAIL
Airbag Deployment - Oth Seat	Not EQUIP W/ OTH

Injuries

Occupant	1999-76-32-1-3
MAIS	1=Minor
Seat Position	Second left

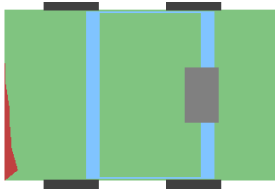
AIS Level	Injury Description	Contacts
1=Minor	Facial skin contusion	Seat, back
1=Minor	Facial skin abrasion	Seat, back

Occupant: 1999-76-32-2-1



Fire Information

Fire Occurrence	No fire
Fire Origin	No fire
Location of Fuel Leakage	Tank
Type of Fuel Tank	Metallic
Fuel Tank Location	Forward of rear axle, left side
Fuel Cap Location	Left side, forward rear axle
Fuel Tank Damage	Punctured
Fuel Type	Gasoline



Pre-Crash Environment

Traffic Flow	Not DIVIDED
Number of Travel Lanes	TWO
Roadway Alignment	STRAIGHT
Roadway Profile	LEVEL
Roadway Surface Type	ASPHALT
Roadway Surface Condition	DRY
Light Conditions	DAYLIGHT
Atmospheric Conditions	No ADVERSE COND
Relation to Intersection	NONINTER/NONJUNC
Traffic Control Device	
Police Reported Alcohol Presence	No ALCOHOL
Alcohol Test (< 95 indicates BAC 0.xx)	0

Crash Severity

Nr. Quarter Turns	No rollover
Impact Speed	998
Total, Longitudal, and Lateral δV	22 -22 < 0.5 KMPH
Est. δV with sequence number	DELTA V CODED 1
CDC	12 F D E W 1
Damage (C1-C6)	19 10 8 7 2 0
Crush (L and D)	187 0
Object Contacted 1	VEHICLE NO. 1
Object Contacted 2	0

NASS Weighting Factor

Weighting factor	126.08146135
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Rollover Characteristics

Number of Events	1
Rollover Initiation Type	No rollover
Location of Rollover Initiation	No rollover
Rollover Initiation Object Contacted	No rollover
Location on Vehicle where Principal Tripping Force was Applied	No rollover
Direction of Initial Roll	No rollover

Vehicle Factors

Make-Model	Jeep Cherokee-83
Year	1974
Class	PASSENGER CAR
Body Type	LARGE UTILITY
Weight	168

Pre-Crash Driver Data

Accident Type	69
Pre-event Movement	GOING STRAIGHT
Critical Pre-crash Event	OPP DIR-OVR LEFT
Attempted Avoidance Manuever	BRAKE+STEER LEFT
Pre-impact Stability	TRACKING
Pre-impact Location	STAYED IN LANE

DRIVER Factors

Age	54	Height	178	Weight	91
Gender					MALE
Ejection					No EJECTION
Ejection Area					No EJECTION
Entrapment					Not ENTRAPPED

Restraint Factors

Restrain	Lap belt
AOPS	NO
Airbag Deployment	Not EQUIP/AVAIL
Airbag Deployment - 1 st Seat	Not EQUIP/AVAIL
Airbag Deployment - Oth Seat	Not EQUIP W/ OTH

Injuries

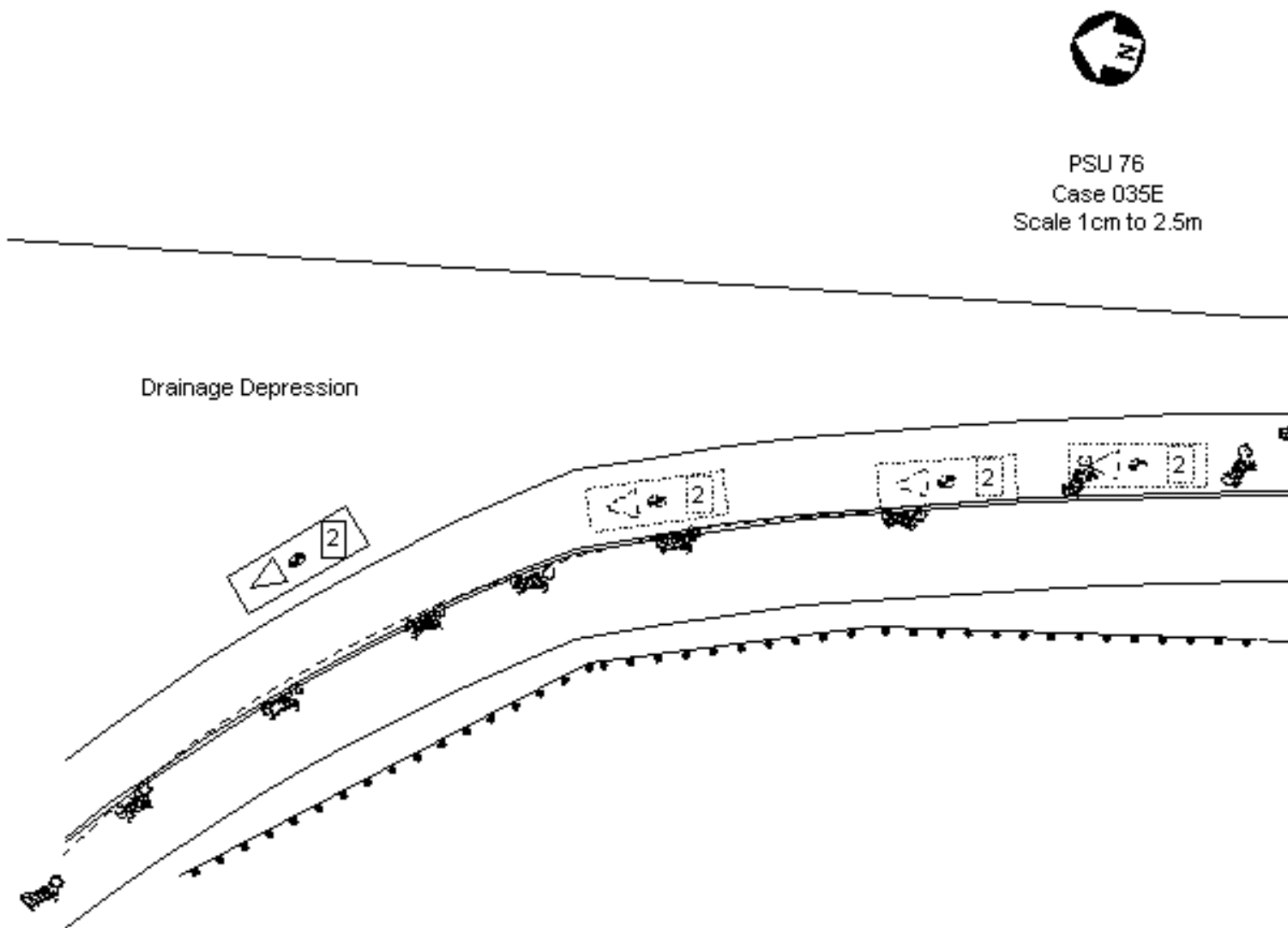
Occupant	1999-76-32-2-1
MAIS	1=Minor
Seat Position	Front left side

AIS Level	Injury Description	Contacts
1=Minor	Thoracic skin contusion	Steering comb
1=Minor	Leg skin contusion (hematoma)	Steering rim
1=Minor	Leg skin laceration, minor	Left apnel
1=Minor	Acute cervical spine strain without fracture or dislocation	Windshield

69 Case 1999-76-35

Summary:

This three vehicle crash occurred on a two lane non-divided asphalt roadway. This road way is mountainous and curvy. This crash occurred during daylight hours with no adverse atmospheric conditions. Vehicle #1, a 1988 Kawaski Motorcycle was southbound when it crossed the centerline and impacted with V#2 on its left side. V#1 then slid across the ground and impacted with V#3 in the northbound lane. V#1 was pulled to final rest off the eastside of the road when V#3 caught on fire. Vehicle #2, a 1997 Ford Pickup, was northbound when it impacted V#1 on its left side. V#2 pulled to a stop on the eastside of the road. Vehicle #3, a 1996 Nissan Sentra, was northbound when it impacted V#3, and its drivers on its front plane. Vehicle #3 stopped in its orginal travel lane. Vehicle #3 then caught on fire in the engine compartment. Vehicle #3 was pushed off V#1, and its drivers to the west shoulder. Vehicle #1, and Vehicle #3 were towed due to damage. Vehicle #2 was not towed. Driver #1 was fatal at the scene. The occupants in V#2 were not injured. The driver of V#3 transported and released for injuries.



Vehicle	Body type	Make	Model	Year	Occ.#	Age	Occupant's sex	Maximum known occupant ais
3	4-DR SEDAN/HDTOP	Nissan	Sentra	1996	1	75	FEMALE-NOT PREG	1=Minor

Occupant: 1999-76-35-3-1



Fire Information

Fire Occurrence	Major fire
Fire Origin	Engine compart
Location of Fuel Leakage	No fuel leakage
Type of Fuel Tank	Metallic
Fuel Tank Location	Forward of rear axle, centered
Fuel Cap Location	Left side, behind rear axle
Fuel Tank Damage	No damage
Fuel Type	Gasoline



Pre-Crash Environment

Traffic Flow	Not DIVIDED
Number of Travel Lanes	TWO
Roadway Alignment	STRAIGHT
Roadway Profile	LEVEL
Roadway Surface Type	ASPHALT
Roadway Surface Condition	DRY
Light Conditions	DAYLIGHT
Atmospheric Conditions	No ADVERSE COND
Relation to Intersection	NONINTER/NONJUNC
Traffic Control Device	
Police Reported Alcohol Presence	No ALCOHOL
Alcohol Test (< 95 indicates BAC 0.xx)	0

Crash Severity

Nr. Quarter Turns	No rollover
Impact Speed	< 0.5KMPH
Total, Longitudal, and Lateral δV	< 0.5 KMPH < 0.5 KMPH < 0.5 KMPH
Est. δV with sequence number	>24 AND <40 KMPH 2
CDC	12 F D E W 2
Damage (C1-C6)	6 7 12 19 25 40
Crush (L and D)	146 0
Object Contacted 1	VEHICLE NO. 1
Object Contacted 2	0

NASS Weighting Factor

Weighting factor	273.22944422
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Rollover Characteristics

Number of Events	4
Rollover Initiation Type	No rollover
Location of Rollover Initiation	No rollover
Rollover Initiation Object Contacted	No rollover
Location on Vehicle where Principal Tripping Force was Applied	No rollover
Direction of Initial Roll	No rollover

Vehicle Factors

Make-Model	Nissan Sentra
Year	1996
Class	PASSENGER CAR
Body Type	4-DR SEDAN/HDTOP
Weight	105

Pre-Crash Driver Data

Accident Type	98
Pre-event Movement	GOING STRAIGHT
Critical Pre-crash Event	TRAVEL OPP DIR
Attempted Avoidance Manuever	No AVOIDANCE
Pre-impact Stability	TRACKING
Pre-impact Location	STAYED IN LANE

DRIVER Factors

Age	75	Height	175	Weight	64
Gender					FEMALE-NOT PREG
Ejection					No EJECTION
Ejection Area					No EJECTION
Entrapment					Not ENTRAPPED

Restraint Factors

Restrain	Lap and shoulder
AOPS	YES-RES DET
Airbag Deployment	BAG DEPLOYED
Airbag Deployment - 1 st Seat	DR
PAS BAG DEPLY	
Airbag Deployment - Oth Seat	Not EQUIP W/ OTH

Injuries

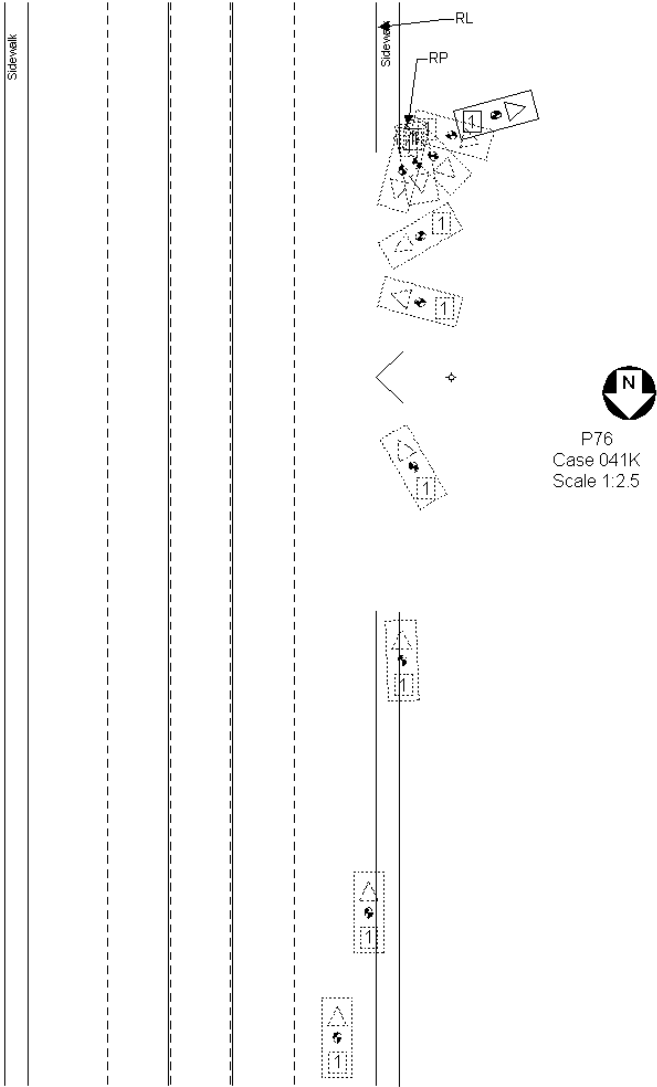
Occupant	1999-76-35-3-1
MAIS	1=Minor
Seat Position	Front left side

AIS Level	Injury Description	Contacts
1=Minor	Acute cervical spine strain without fracture or dislocation	Belt webb/buckle
1=Minor	Leg skin contusion (hematoma)	Knee bolster

70 Case 1999-76-41

Summary:

This single vehicle crash occurred on a five lane non-divided asphalt roadway. This road is level and free from defects. The crash occurred during daylight hours with snow on the road. Vehicle #1, a 1996 Pontiac Firebird, was southbound when it exited the road on the right side, and began to rotate counterclockwise. Vehicle #1 impacted a metal light pole on its rear plane and came to rest off the road. Vehicle #1 was towed due to damage. Driver #1 was transported and release for injuries. Occupant #2 was not injured. Occupant #3 was admitted for injuries.



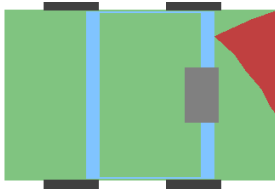
Vehicle	Body type	Make	Model	Year	Occ Age	Occupant's sex	Maximum known occupant ais
1	3DR/2DR HATCHBAK	Pontiac	Firebird/Trans AM	1986	48	FEMALE-NOT PREG	7=Unk. sev.
1	3DR/2DR HATCHBAK	Pontiac	Firebird/Trans AM	1986	31	MALE	0=None
1	3DR/2DR HATCHBAK	Pontiac	Firebird/Trans AM	1986	30	MALE	7=Unk. sev.

Occupant: 1999-76-41-1-1



Fire Information

Fire Occurrence	No fire
Fire Origin	No fire
Location of Fuel Leakage	Filler neck
Type of Fuel Tank	Metallic
Fuel Tank Location	Behind rear axle, centered
Fuel Cap Location	Left side, behind rear axle
Fuel Tank Damage	Punctured
Fuel Type	Gasoline



Crash Severity

Nr. Quarter Turns	No rollover
Impact Speed	< 0.5KMPH
Total, Longitudal, and Lateral δV	< 0.5 KMPH < 0.5 KMPH < 0.5 KMPH
Est. δV with sequence number	DELTA V CODED 1
CDC	6 B Z E W 4
Damage (C1-C6)	9 22 44 62 91 36
Crush (L and D)	154 0
Object Contacted 1	MEDIUM POLE
Object Contacted 2	0

NASS Weighting Factor

Weighting factor	126.08146135
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Rollover Characteristics

Number of Events	1
Rollover Initiation Type	No rollover
Location of Rollover Initiation	No rollover
Rollover Initiation Object Contacted	No rollover
Location on Vehicle where Principal Tripping Force was Applied	No rollover
Direction of Initial Roll	No rollover

Pre-Crash Environment

Traffic Flow	Not DIVIDED
Number of Travel Lanes	FIVE
Roadway Alignment	STRAIGHT
Roadway Profile	LEVEL
Roadway Surface Type	ASPHALT
Roadway Surface Condition	SNOW OR SLUSH
Light Conditions	DAYLIGHT
Atmospheric Conditions	SNOW
Relation to Intersection	NONINTER/NONJUNC
Traffic Control Device	
Police Reported Alcohol Presence	No ALCOHOL
Alcohol Test (< 95 indicates BAC 0.xx)	0

Vehicle Factors

Make-Model	Pontiac Firebird/Trans AM
Year	1986
Class	PASSENGER CAR
Body Type	3DR/2DR HATCHBAK
Weight	131

Pre-Crash Driver Data

Accident Type	1
Pre-event Movement	GOING STRAIGHT
Critical Pre-crash Event	TRAVEL TOO FAST
Attempted Avoidance Manuever	No DRIVER
Pre-impact Stability	LAT SKID-CTR CLK
Pre-impact Location	DEPARTED ROADWAY

DRIVER Factors

Age	48	Height	160	Weight	77
Gender					FEMALE-NOT PREG
Ejection					No EJECTION
Ejection Area					No EJECTION
Entrapment					Not ENTRAPPED

Restraint Factors

Restrain	None used/avail
AOPS	NO
Airbag Deployment	Not EQUIP/AVAIL
Airbag Deployment - 1 st Seat	Not EQUIP/AVAIL
Airbag Deployment - Oth Seat	Not EQUIP W/ OTH

Injuries

Occupant	1999-76-41-1-1
MAIS	7=Unk. sev.
Seat Position	Front left side

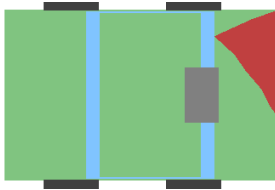
AIS Level	Injury Description	Contacts
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Occupant: 1999-76-41-1-2



Fire Information

Fire Occurrence	No fire
Fire Origin	No fire
Location of Fuel Leakage	Filler neck
Type of Fuel Tank	Metallic
Fuel Tank Location	Behind rear axle, centered
Fuel Cap Location	Left side, behind rear axle
Fuel Tank Damage	Punctured
Fuel Type	Gasoline



Crash Severity

Nr. Quarter Turns	No rollover
Impact Speed	< 0.5KMPH
Total, Longitudal, and Lateral δV	< 0.5 KMPH < 0.5 KMPH < 0.5 KMPH
Est. δV with sequence number	DELTA V CODED 1
CDC	6 B Z E W 4
Damage (C1-C6)	9 22 44 62 91 36
Crush (L and D)	154 0
Object Contacted 1	MEDIUM POLE
Object Contacted 2	0

NASS Weighting Factor

Weighting factor	126.08146135
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Rollover Characteristics

Number of Events	1
Rollover Initiation Type	No rollover
Location of Rollover Initiation	No rollover
Rollover Initiation Object Contacted	No rollover
Location on Vehicle where Principal Tripping Force was Applied	No rollover
Direction of Initial Roll	No rollover

Pre-Crash Environment

Traffic Flow	Not DIVIDED
Number of Travel Lanes	FIVE
Roadway Alignment	STRAIGHT
Roadway Profile	LEVEL
Roadway Surface Type	ASPHALT
Roadway Surface Condition	SNOW OR SLUSH
Light Conditions	DAYLIGHT
Atmospheric Conditions	SNOW
Relation to Intersection	NONINTER/NONJUNC
Traffic Control Device	
Police Reported Alcohol Presence	No ALCOHOL
Alcohol Test (< 95 indicates BAC 0.xx)	0

Vehicle Factors

Make-Model	Pontiac Firebird/Trans AM
Year	1986
Class	PASSENGER CAR
Body Type	3DR/2DR HATCHBAK
Weight	131

Pre-Crash Driver Data

Accident Type	1
Pre-event Movement	GOING STRAIGHT
Critical Pre-crash Event	TRAVEL TOO FAST
Attempted Avoidance Manuever	No DRIVER
Pre-impact Stability	LAT SKID-CTR CLK
Pre-impact Location	DEPARTED ROADWAY

PASSENGER Factors

Age	31	Height	0	Weight	0
Gender					MALE
Ejection					No EJECTION
Ejection Area					No EJECTION
Entrapment					Not ENTRAPPED

Restraint Factors

Restrain	None used/avail
AOPS	NO
Airbag Deployment	Not EQUIP/AVAIL
Airbag Deployment - 1 st Seat	Not EQUIP/AVAIL
Airbag Deployment - Oth Seat	Not EQUIP W/ OTH

Injuries

Occupant	1999-76-41-1-2
MAIS	0=None
Seat Position	Front right side

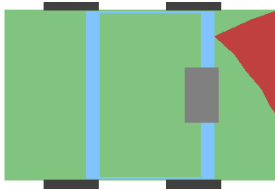
AIS Level	Injury Description	Contacts
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Occupant: 1999-76-41-1-3



Fire Information

Fire Occurrence	No fire
Fire Origin	No fire
Location of Fuel Leakage	Filler neck
Type of Fuel Tank	Metallic
Fuel Tank Location	Behind rear axle, centered
Fuel Cap Location	Left side, behind rear axle
Fuel Tank Damage	Punctured
Fuel Type	Gasoline



Pre-Crash Environment

Traffic Flow	Not DIVIDED
Number of Travel Lanes	FIVE
Roadway Alignment	STRAIGHT
Roadway Profile	LEVEL
Roadway Surface Type	ASPHALT
Roadway Surface Condition	SNOW OR SLUSH
Light Conditions	DAYLIGHT
Atmospheric Conditions	SNOW
Relation to Intersection	NONINTER/NONJUNC
Traffic Control Device	
Police Reported Alcohol Presence	No ALCOHOL
Alcohol Test (< 95 indicates BAC 0.xx)	0

Crash Severity

Nr. Quarter Turns	No rollover
Impact Speed	< 0.5KMPH
Total, Longitudal, and Lateral δV	< 0.5 KMPH < 0.5 KMPH < 0.5 KMPH
Est. δV with sequence number	DELTA V CODED 1
CDC	6 B Z E W 4
Damage (C1-C6)	9 22 44 62 91 36
Crush (L and D)	154 0
Object Contacted 1	MEDIUM POLE
Object Contacted 2	0

NASS Weighting Factor

Weighting factor	126.08146135
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Rollover Characteristics

Number of Events	1
Rollover Initiation Type	No rollover
Location of Rollover Initiation	No rollover
Rollover Initiation Object Contacted	No rollover
Location on Vehicle where Principal Tripping Force was Applied	No rollover
Direction of Initial Roll	No rollover

Vehicle Factors

Make-Model	Pontiac Firebird/Trans AM
Year	1986
Class	PASSENGER CAR
Body Type	3DR/2DR HATCHBAK
Weight	131

Pre-Crash Driver Data

Accident Type	1
Pre-event Movement	GOING STRAIGHT
Critical Pre-crash Event	TRAVEL TOO FAST
Attempted Avoidance Manuever	No DRIVER
Pre-impact Stability	LAT SKID-CTR CLK
Pre-impact Location	DEPARTED ROADWAY

PASSENGER Factors

Age	30	Height	0	Weight	0
Gender					MALE
Ejection					No EJECTION
Ejection Area					No EJECTION
Entrapment					Not ENTRAPPED

Restraint Factors

Restrain	None used/avail
AOPS	NO
Airbag Deployment	Not EQUIP/AVAIL
Airbag Deployment - 1 st Seat	Not EQUIP/AVAIL
Airbag Deployment - Oth Seat	Not EQUIP W/ OTH

Injuries

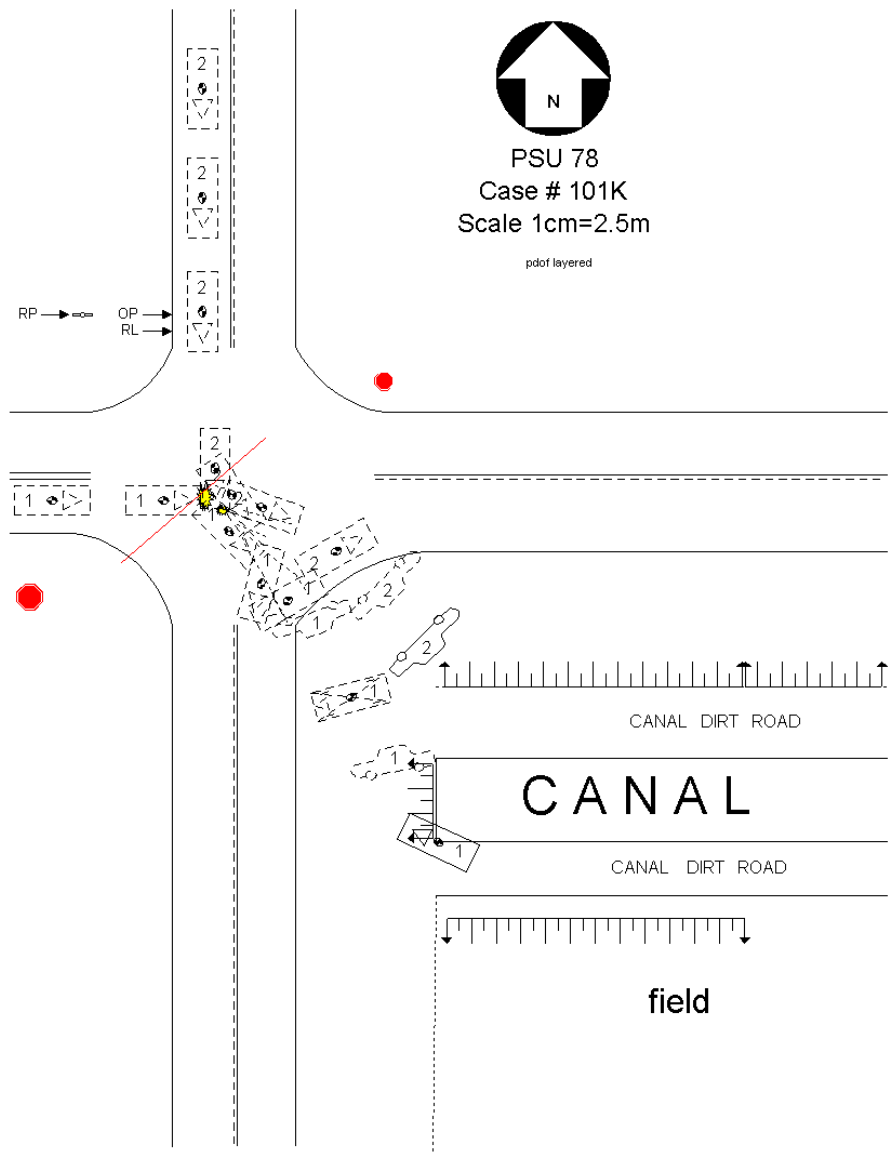
Occupant	1999-76-41-1-3
MAIS	7=Unk. sev.
Seat Position	Second right

AIS Level	Injury Description	Contacts
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71 Case 1999-78-101

Summary:

V1 was east bound on a rural 2 lane, dry, level, bituminous roadway and entering an intersection controlled by a stop sign. V2 was south bound on a rural 2 lane dry, level, bituminous roadway and entering the same intersection when the front of V1 collided with the right front of V2. V1 after the collision rotated in a clockwise direction, side slapped the right side of V2 with the left rear and rolled 4 quarter turns off the east side of the roadway and came to final rest on top of a cement canal facing west on its wheels. V2 rotated in a counterclockwise direction and overturned on its right side on the east side of the roadway and came to final rest on its right side in the sand off the east side facing northeast. V1 restrained driver was transported and the restrained passenger seated in the # 21 position was transported, both were treated and released. V2 restrained driver and passenger were transported. V1 was towed due to damages. V2 was towed due to damages.



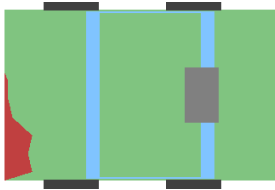
Vehicle	Body type	Make	Model	Year	Occ.#	Age	Occupant's sex	Maximum known occupant ais
1	COMPACT UTILITY	Ford	Bronco II	1992	1	26	MALE	1=Minor
1	COMPACT UTILITY	Ford	Bronco II	1992	2	3	MALE	1=Minor
2	STATION WAGON	Ford	Taurus	1993	1	49	FEMALE-NOT PREG	1=Minor
2	STATION WAGON	Ford	Taurus	1993	2	46	FEMALE-NOT PREG	3=Serious

Occupant: 1999-78-101-1-1



Fire Information

Fire Occurrence	No fire
Fire Origin	No fire
Location of Fuel Leakage	No fuel leakage
Type of Fuel Tank	Metallic
Fuel Tank Location	Forward of rear axle, left side
Fuel Cap Location	Left side, behind rear axle
Fuel Tank Damage	No damage
Fuel Type	Gasoline



Crash Severity

Nr. Quarter Turns	4 QUARTER TURNS
Impact Speed	998
Total, Longitudal, and Lateral δV	24 -18 15
Est. δV with sequence number	DELTA V CODED 1
CDC	71 F D E W 2
Damage (C1-C6)	41 34 40 12 5 5
Crush (L and D)	158 0
Object Contacted 1	VEHICLE NO. 2
Object Contacted 2	VEHICLE NO. 2

NASS Weighting Factor

Weighting factor	56.303459593
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Rollover Characteristics

Number of Events	5
Rollover Initiation Type	TRIP-OVER
Location of Rollover Initiation	ROADSIDE/MEDIAN
Rollover Initiation Object Contacted	GROUND
Location on Vehicle where Principal Tripping Force was Applied	WHEELS/TIRES
Direction of Initial Roll	ROLL LEFT

Pre-Crash Environment

Traffic Flow	Not DIVIDED
Number of Travel Lanes	TWO
Roadway Alignment	STRAIGHT
Roadway Profile	LEVEL
Roadway Surface Type	ASPHALT
Roadway Surface Condition	DRY
Light Conditions	DAYLIGHT
Atmospheric Conditions	No ADVERSE COND
Relation to Intersection	INTERSECTION REL
Traffic Control Device	
Police Reported Alcohol Presence	No ALCOHOL
Alcohol Test (< 95 indicates BAC 0.xx)	0

Vehicle Factors

Make-Model	Ford Bronco II
Year	1992
Class	PASSENGER CAR
Body Type	COMPACT UTILITY
Weight	184

Pre-Crash Driver Data

Accident Type	86
Pre-event Movement	GOING STRAIGHT
Critical Pre-crash Event	CROSS OVER INTER
Attempted Avoidance Manuever	No AVOIDANCE
Pre-impact Stability	LAT SKID-CTR CLK
Pre-impact Location	STAYED IN LANE

DRIVER Factors

Age	26	Height	163	Weight	82
Gender					MALE
Ejection					No EJECTION
Ejection Area					No EJECTION
Entrapment					Not ENTRAPPED

Restraint Factors

Restrain	Lap and shoulder
AOPS	NO
Airbag Deployment	Not EQUIP/AVAIL
Airbag Deployment - 1 st Seat	Not EQUIP/AVAIL
Airbag Deployment - Oth Seat	Not EQUIP W/ OTH

Injuries

Occupant	1999-78-101-1-1
MAIS	1=Minor
Seat Position	Front left side

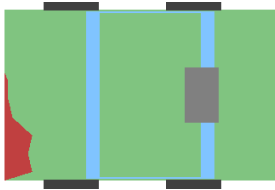
AIS Level	Injury Description	Contacts
1=Minor	297602	Steering comb
1=Minor	Facial skin laceration, minor	Steering comb
1=Minor	Facial skin contusion	Steering comb
1=Minor	Thoracic skin contusion	Belt webb/buckle

Occupant: 1999-78-101-1-2



Fire Information

Fire Occurrence	No fire
Fire Origin	No fire
Location of Fuel Leakage	No fuel leakage
Type of Fuel Tank	Metallic
Fuel Tank Location	Forward of rear axle, left side
Fuel Cap Location	Left side, behind rear axle
Fuel Tank Damage	No damage
Fuel Type	Gasoline



Crash Severity

Nr. Quarter Turns	4 QUARTER TURNS
Impact Speed	998
Total, Longitudal, and Lateral δV	24 -18 15
Est. δV with sequence number	DELTA V CODED 1
CDC	71 F D E W 2
Damage (C1-C6)	41 34 40 12 5 5
Crush (L and D)	158 0
Object Contacted 1	VEHICLE NO. 2
Object Contacted 2	VEHICLE NO. 2

NASS Weighting Factor

Weighting factor	56.303459593
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Rollover Characteristics

Number of Events	5
Rollover Initiation Type	TRIP-OVER
Location of Rollover Initiation	ROADSIDE/MEDIAN
Rollover Initiation Object Contacted	GROUND
Location on Vehicle where Principal Tripping Force was Applied	WHEELS/TIRES
Direction of Initial Roll	ROLL LEFT

Pre-Crash Environment

Traffic Flow	Not DIVIDED
Number of Travel Lanes	TWO
Roadway Alignment	STRAIGHT
Roadway Profile	LEVEL
Roadway Surface Type	ASPHALT
Roadway Surface Condition	DRY
Light Conditions	DAYLIGHT
Atmospheric Conditions	No ADVERSE COND
Relation to Intersection	INTERSECTION REL
Traffic Control Device	
Police Reported Alcohol Presence	No ALCOHOL
Alcohol Test (< 95 indicates BAC 0.xx)	0

Vehicle Factors

Make-Model	Ford Bronco II
Year	1992
Class	PASSENGER CAR
Body Type	COMPACT UTILITY
Weight	184

Pre-Crash Driver Data

Accident Type	86
Pre-event Movement	GOING STRAIGHT
Critical Pre-crash Event	CROSS OVER INTER
Attempted Avoidance Manuever	No AVOIDANCE
Pre-impact Stability	LAT SKID-CTR CLK
Pre-impact Location	STAYED IN LANE

PASSENGER Factors

Age	3	Height	91	Weight	27
Gender					MALE
Ejection					No EJECTION
Ejection Area					No EJECTION
Entrapment					Not ENTRAPPED

Restraint Factors

Restrain	Lap and shoulder
AOPS	NO
Airbag Deployment	Not EQUIP/AVAIL
Airbag Deployment - 1 st Seat	Not EQUIP/AVAIL
Airbag Deployment - Oth Seat	Not EQUIP W/ OTH

Injuries

Occupant	1999-78-101-1-2
MAIS	1=Minor
Seat Position	Second left

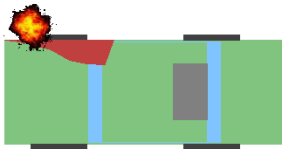
AIS Level	Injury Description	Contacts
1=Minor	Awake on admission, never unconscious	Left interior
1=Minor	Facial skin abrasion	Left interior

Occupant: 1999-78-101-2-1



Fire Information

Fire Occurrence	Minor fire
Fire Origin	No fire
Location of Fuel Leakage	No fuel leakage
Type of Fuel Tank	Metallic
Fuel Tank Location	Forward of rear axle, centered
Fuel Cap Location	Right side, behind rear axle
Fuel Tank Damage	No damage
Fuel Type	Gasoline



Pre-Crash Environment

Traffic Flow	Not DIVIDED
Number of Travel Lanes	TWO
Roadway Alignment	STRAIGHT
Roadway Profile	LEVEL
Roadway Surface Type	ASPHALT
Roadway Surface Condition	DRY
Light Conditions	DAYLIGHT
Atmospheric Conditions	No ADVERSE COND
Relation to Intersection	INTERSECTION REL
Traffic Control Device	
Police Reported	Alcohol
Presence	No ALCOHOL
Alcohol Test (< 95 indicates	0
BAC 0.xx)	

Vehicle Factors

Make-Model	Ford Taurus
Year	1993
Class	PASSENGER CAR
Body Type	STATION WAGON
Weight	148

Crash Severity

Nr. Quarter Turns	1 QUARTER TURN
Impact Speed	998
Total, Longitudal, and Lateral δV	29 -19 -22
Est. δV with sequence number	DELTA V CODED 1
CDC	2 R Y E W 4
Damage (C1-C6)	1 7 17 34 40 43
Crush (L and D)	192 149
Object Contacted 1	VEHICLE NO. 1
Object Contacted 2	VEHICLE NO. 1

Pre-Crash Driver Data

Accident Type	87
Pre-event Movement	GOING STRAIGHT
Critical Pre-crash Event	XING ST-X PATH
Attempted Avoidance Manuever	No AVOIDANCE
Pre-impact Stability	LAT SKID-CTR CLK
Pre-impact Location	STAYED IN LANE

NASS Weighting Factor

Weighting factor	56.303459593
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DRIVER Factors

Rollover Characteristics

Number of Events	5
Rollover Initiation Type	TRIP-OVER
Location of Rollover Initiation	ROADSIDE/MEDIAN
Rollover Initiation Object Contacted	GROUND
Location on Vehicle where Principal Tripping Force was Applied	WHEELS/TIRES
Direction of Initial Roll	ROLL RIGHT

Age	49	Height	0	Weight	0
Gender					FEMALE-NOT PREG
Ejection					No EJECTION
Ejection Area					No EJECTION
Entrapment					Not ENTRAPPED

Restraint Factors

Restrain	Lap and shoulder
AOPS	YES-RES DET
Airbag Deployment	BAG DEPLOYED
Airbag Deployment - 1 st Seat	DR BAG DEPLOYED
Airbag Deployment - Oth Seat	Not EQUIP W/ OTH

Injuries

Occupant	1999-78-101-2-1
MAIS	1=Minor
Seat Position	Front left side

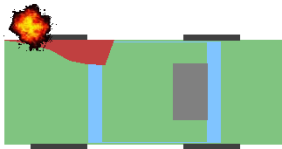
AIS Level	Injury Description	Contacts
1=Minor	Thoracic skin contusion	Air bag-DR side
1=Minor	Upper extremity skin contusion	Belt webb/buckle
1=Minor	Upper extremity skin laceration, minor	Air bag-DR side
1=Minor	Leg skin laceration, minor	Knee bolster
1=Minor	Single rib fracture	Air bag-DR side

Occupant: 1999-78-101-2-2



Fire Information

Fire Occurrence	Minor fire
Fire Origin	No fire
Location of Fuel Leakage	No fuel leakage
Type of Fuel Tank	Metallic
Fuel Tank Location	Forward of rear axle, centered
Fuel Cap Location	Right side, behind rear axle
Fuel Tank Damage	No damage
Fuel Type	Gasoline



Pre-Crash Environment

Traffic Flow	Not DIVIDED
Number of Travel Lanes	TWO
Roadway Alignment	STRAIGHT
Roadway Profile	LEVEL
Roadway Surface Type	ASPHALT
Roadway Surface Condition	DRY
Light Conditions	DAYLIGHT
Atmospheric Conditions	No ADVERSE COND
Relation to Intersection	INTERSECTION REL
Traffic Control Device	
Police Reported Alcohol Presence	No ALCOHOL
Alcohol Test (< 95 indicates BAC 0.xx)	0

Vehicle Factors

Make-Model	Ford Taurus
Year	1993
Class	PASSENGER CAR
Body Type	STATION WAGON
Weight	148

Crash Severity

Nr. Quarter Turns	1 QUARTER TURN
Impact Speed	998
Total, Longitudal, and Lateral δV	29 -19 -22
Est. δV with sequence number	DELTA V CODED 1
CDC	2 R Y E W 4
Damage (C1-C6)	1 7 17 34 40 43
Crush (L and D)	192 149
Object Contacted 1	VEHICLE NO. 1
Object Contacted 2	VEHICLE NO. 1

Pre-Crash Driver Data

Accident Type	87
Pre-event Movement	GOING STRAIGHT
Critical Pre-crash Event	XING ST-X PATH
Attempted Avoidance Manuever	No AVOIDANCE
Pre-impact Stability	LAT SKID-CTR CLK
Pre-impact Location	STAYED IN LANE

NASS Weighting Factor

Weighting factor	56.303459593
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PASSENGER Factors

Age	46	Height	0	Weight	0
Gender					FEMALE-NOT PREG
Ejection					No EJECTION
Ejection Area					No EJECTION
Entrapment					Not ENTRAPPED

Rollover Characteristics

Number of Events	5
Rollover Initiation Type	TRIP-OVER
Location of Rollover Initiation	ROADSIDE/MEDIAN
Rollover Initiation Object Contacted	GROUND
Location on Vehicle where Principal Tripping Force was Applied	WHEELS/TIRES
Direction of Initial Roll	ROLL RIGHT

Restraint Factors

Restrain	Lap and shoulder
AOPS	YES-RES DET
Airbag Deployment	Not EQUIP/AVAIL
Airbag Deployment - 1 st Seat	DR BAG DEPLOYED
Airbag Deployment - Oth Seat	Not EQUIP W/ OTH

Injuries

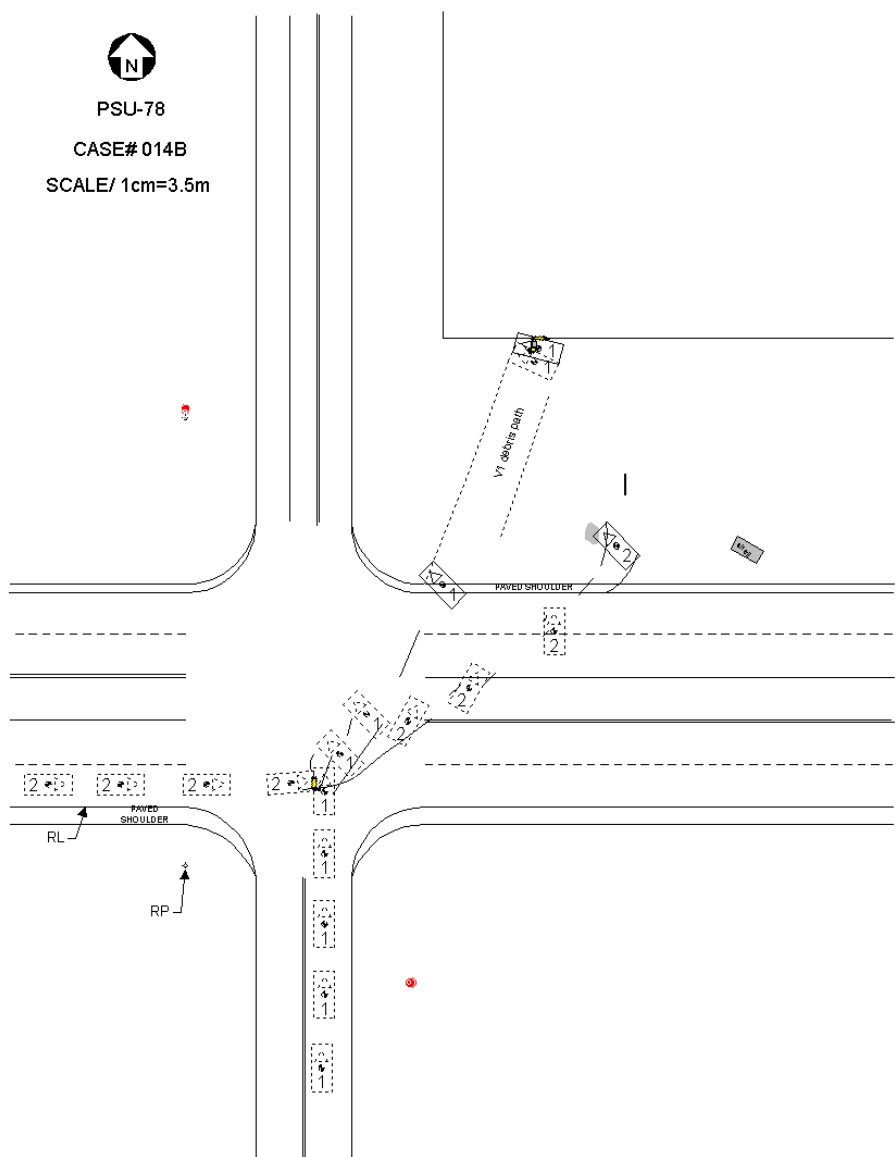
Occupant	1999-78-101-2-2
MAIS	3=Serious
Seat Position	Front right side

AIS Level	Injury Description	Contacts
3=Serious	Orbit fracture, open/displaced/comminuted	Roof right rail
2=Moderate	Skull fracture, vault, closed (simple, undisplaced)	Roof right rail
3=Serious	Cerebral pneumocephalus	Roof right rail
2=Moderate	Maxillary fracture, closed	Roof
2=Moderate	Scapular fracture	Right B pillar
2=Moderate	Carpus or metacarpus fracture	Roof
1=Minor	Finger fracture	Roof
1=Minor	Carpal-metacarpal or MCP joint dislocation	Roof
1=Minor	Optic nerve injury NFS	Roof right rail
1=Minor	Facial skin laceration, minor	Roof right rail
1=Minor	297402	Roof right rail
1=Minor	297402	Roof
1=Minor	Upper extremity skin abrasion	Right interior
1=Minor	Upper extremity skin laceration, minor	Roof
1=Minor	Leg skin abrasion	Right panel
1=Minor	Leg skin contusion (hematoma)	Right panel

72 Case 1999-78-14

Summary:

V1 was northbound on a rural, 2-lane, dry, level, bituminous roadway entering an intersection controlled by a stop sign. V2 was eastbound on the intersecting, rural, 5-lane, dry, level, bituminous roadway with no traffic control present. The driver of V2 made an evasive attempt by steering left and braking with lockup and subsequent steering loss. The front of V2 struck the left side of V1, causing counterclockwise rotation. V1 continued in a northwesterly path while rotating CCW, departed the roadway on the north side, crossed an open dirt area, struck a telephone junction box and a raised concrete curb/retainer wall. V1 was facing generally N/W at final rest. V2 continued forward and left after impact while rotating counterclockwise. V2 departed the roadway on the north edge and came to final rest facing generally N/W in the dirt area. The driver of V1 was unrestrained, the vehicle was not equipped with airbags, and he was declared dead at the scene. The driver of V2 was unrestrained and was completely ejected during the crash. The driver of V2 was transported to a local hospital and almost immediatly taken by air to another facility outside the area where he was kept on life support and declared dead 5 days later. V1 and V2 were severely damaged and both were towed due to damages.



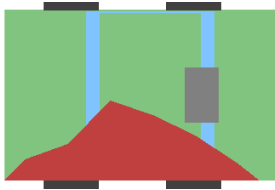
Vehicle	Body type	Make	Model	Year	Occ.#	Age	Occupant's sex	Maximum known occupant ais
1	LARGE PICKUP	Chevrolet	C/K-series Pickup	1992	1	31	MALE	7=Unk. sev.
2	LARGE PICKUP	Ford	F-series P/U	1983	1	62	MALE	5=Critical

Occupant: 1999-78-14-1-1



Fire Information

Fire Occurrence	No fire
Fire Origin	No fire
Location of Fuel Leakage	Tank
Type of Fuel Tank	Metallic
Fuel Tank Location	Forward of rear axle, left side
Fuel Cap Location	Left side, forward rear axle
Fuel Tank Damage	Punctured
Fuel Type	Gasoline



Pre-Crash Environment

Traffic Flow	Not DIVIDED
Number of Travel Lanes	TWO
Roadway Alignment	STRAIGHT
Roadway Profile	LEVEL
Roadway Surface Type	ASPHALT
Roadway Surface Condition	DRY
Light Conditions	DARK/LIGHTED
Atmospheric Conditions	No ADVERSE COND
Relation to Intersection	INTERSECTION REL
Traffic Control Device	
Police Reported Alcohol Presence	No ALCOHOL
Alcohol Test (< 95 indicates BAC 0.xx)	0

Crash Severity

Nr. Quarter Turns	No rollover
Impact Speed	998
Total, Longitudal, and Lateral δV	50 -43 25
Est. δV with sequence number	DELTA V CODED 1
CDC	91 L D A W 6
Damage (C1-C6)	30 53 117 95 65 24
Crush (L and D)	374 74
Object Contacted 1	VEHICLE NO. 2
Object Contacted 2	Oth FIXED OBJECT

NASS Weighting Factor

Weighting factor	63.820452627
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Rollover Characteristics

Number of Events	2
Rollover Initiation Type	No rollover
Location of Rollover Initiation	No rollover
Rollover Initiation Object Contacted	No rollover
Location on Vehicle where Principal Tripping Force was Applied	No rollover
Direction of Initial Roll	No rollover

Vehicle Factors

Make-Model	Chevrolet C/K-series Pickup
Year	1992
Class	TRUCK
Body Type	LARGE PICKUP
Weight	182

Pre-Crash Driver Data

Accident Type	89
Pre-event Movement	GOING STRAIGHT
Critical Pre-crash Event	CROSS OVER INTER
Attempted Avoidance Manuever	No AVOIDANCE
Pre-impact Stability	TRACKING
Pre-impact Location	DEPARTED ROADWAY

DRIVER Factors

Age	31	Height	173	Weight	76
Gender					MALE
Ejection					No EJECTION
Ejection Area					No EJECTION
Entrapment					Not ENTRAPPED

Restraint Factors

Restrain	None used/avail
AOPS	NO
Airbag Deployment	Not EQUIP/AVAIL
Airbag Deployment - 1 st Seat	Not EQUIP/AVAIL
Airbag Deployment - Oth Seat	Not EQUIP W/ OTH

Injuries

Occupant	1999-78-14-1-1
MAIS	7=Unk. sev.
Seat Position	Front left side

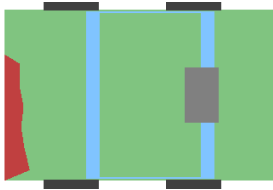
AIS Level	Injury Description	Contacts
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Occupant: 1999-78-14-2-1



Fire Information

Fire Occurrence	No fire
Fire Origin	No fire
Location of Fuel Leakage	No fuel leakage
Type of Fuel Tank	Metallic
Fuel Tank Location	Forward of rear axle, left side
Fuel Cap Location	Left side, forward rear axle
Fuel Tank Damage	No damage
Fuel Type	Diesel



Pre-Crash Environment

Traffic Flow	Not DIVIDED
Number of Travel Lanes	FIVE
Roadway Alignment	STRAIGHT
Roadway Profile	LEVEL
Roadway Surface Type	ASPHALT
Roadway Surface Condition	DRY
Light Conditions	DARK/LIGHTED
Atmospheric Conditions	No ADVERSE COND
Relation to Intersection	INTERSECTION REL
Traffic Control Device	
Police Reported Alcohol Presence	No ALCOHOL
Alcohol Test (< 95 indicates BAC 0.xx)	0

Crash Severity

Nr. Quarter Turns	No rollover
Impact Speed	998
Total, Longitudal, and Lateral δV	44 -28 -34
Est. δV with sequence number	DELTA V CODED 1
CDC	82 F D E W 2
Damage (C1-C6)	37 29 24 28 22 23
Crush (L and D)	186 3
Object Contacted 1	VEHICLE NO. 1
Object Contacted 2	0

NASS Weighting Factor

Weighting factor	63.820452627
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Rollover Characteristics

Number of Events	2
Rollover Initiation Type	No rollover
Location of Rollover Initiation	No rollover
Rollover Initiation Object Contacted	No rollover
Location on Vehicle where Principal Tripping Force was Applied	No rollover
Direction of Initial Roll	No rollover

Vehicle Factors

Make-Model	Ford F-series P/U
Year	1983
Class	TRUCK
Body Type	LARGE PICKUP
Weight	187

Pre-Crash Driver Data

Accident Type	88
Pre-event Movement	GOING STRAIGHT
Critical Pre-crash Event	XING ST-X PATH
Attempted Avoidance Manuever	BRAKE W/ LOCKUP
Pre-impact Stability	LONGITUDINAL SKID
Pre-impact Location	DEPARTED ROADWAY

DRIVER Factors

Age	62	Height	178	Weight	79
Gender					MALE
Ejection					COMPLETE EJECT
Ejection Area					Right FRONT
Entrapment					Not ENTRAPPED

Restraint Factors

Restrain	None used/avail
AOPS	NO
Airbag Deployment	Not EQUIP/AVAIL
Airbag Deployment - 1 st Seat	Not EQUIP/AVAIL
Airbag Deployment - Oth Seat	Not EQUIP W/ OTH

Injuries

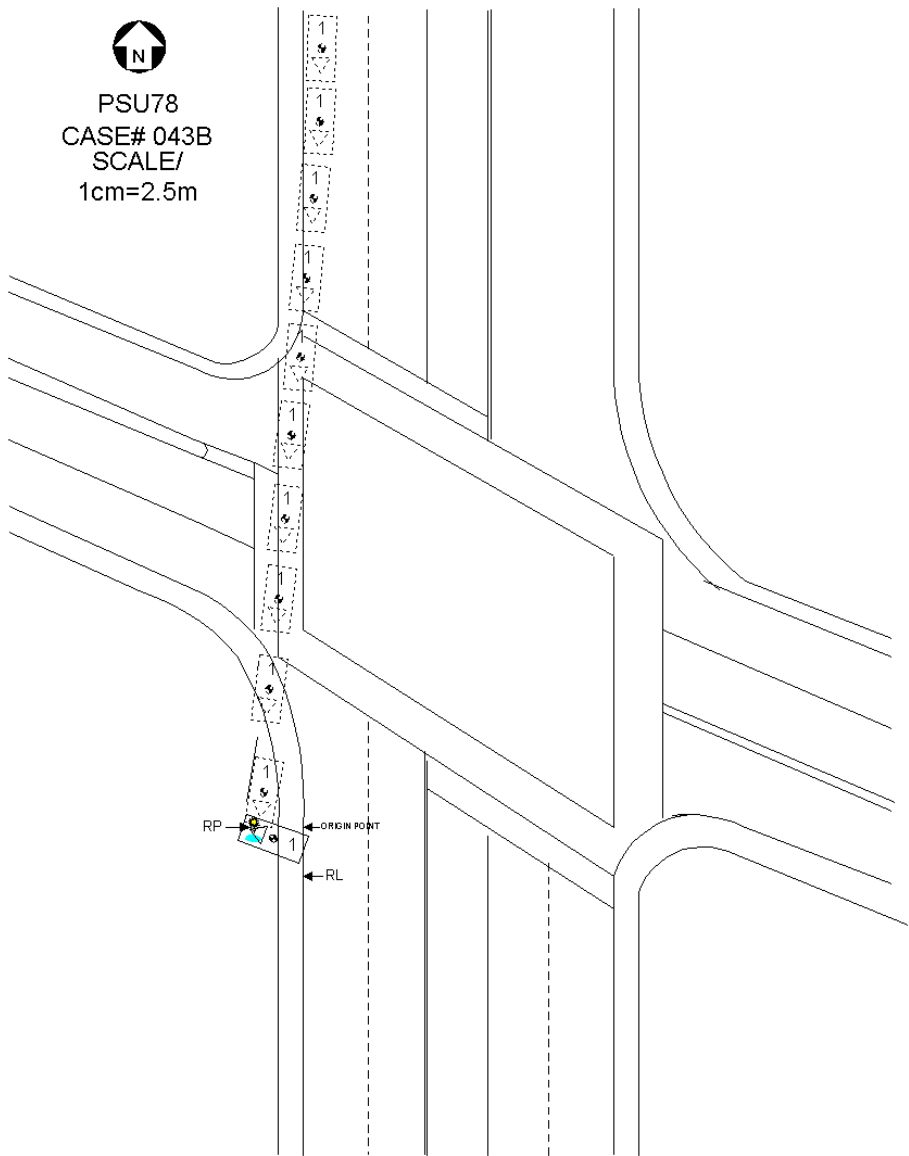
Occupant	1999-78-14-2-1
MAIS	5=Critical
Seat Position	Front left side

AIS Level	Injury Description	Contacts
5=Critical	Unconscious on admission, inappropriate movements	Ground
3=Serious	Cerebral subarachnoid hemorrhage	Ground
3=Serious	Cerebral subarachnoid hemorrhage	Ground
1=Minor	Scalp laceration, minor	Ground
1=Minor	Facial skin laceration, minor	Ground
1=Minor	Upper extremity skin laceration, minor	Ground
1=Minor	Leg skin laceration, minor	Ground
2=Moderate	Cervical fracture without cord injury +/- dislocation NFS	Ground
1=Minor	690402	Ground

73 Case 1999-78-43

Summary:

V1 was southbound on a 5-lane, rural,dry, downgrade , bituminous,roadway approaching a intersection at the bottom of the grade. The intersection was controlled by operating traffic signals. V1 gradually exited the right edge of the roadway upon entering the intersection and struck a metal pole on the southwest corner.The driver was unrestrained and required extrication from the vehicle. The driver was injured and transported but died prior to admission. The vehicle was towed due to severe damages.



Vehicle	Body type	Make	Model	Year	Occ.#	Age	Occupant's sex	Maximum known occupant ais
1	3DR/2DR HATCHBAK	Toyota	Corolla	1986	1	45	FEMALE-NOT PREG	5=Critical

Occupant: 1999-78-43-1-1



Fire Information

Fire Occurrence	Minor fire
Fire Origin	Engine compartment
Location of Fuel Leakage	No fuel leakage
Type of Fuel Tank	Metallic
Fuel Tank Location	Behind rear axle, centered
Fuel Cap Location	Right side, behind rear axle
Fuel Tank Damage	No damage
Fuel Type	Gasoline



Pre-Crash Environment

Traffic Flow	Not DIVIDED
Number of Travel Lanes	FIVE
Roadway Alignment	STRAIGHT
Roadway Profile	DOWNHILL GRADE
Roadway Surface Type	ASPHALT
Roadway Surface Condition	DRY
Light Conditions	DARK/LIGHTED
Atmospheric Conditions	No ADVERSE COND
Relation to Intersection	INTERSECTION REL
Traffic Control Device	
Police Reported Alcohol Presence	No ALCOHOL
Alcohol Test (< 95 indicates BAC 0.xx)	0

Crash Severity

Nr. Quarter Turns	No rollover
Impact Speed	998
Total, Longitudal, and Lateral δV	96 -96 < 0.5 KMPH
Est. δV with sequence number	DELTA V CODED 1
CDC	12 F Z E N 6
Damage (C1-C6)	45 69 112 117 111 65
Crush (L and D)	150 26
Object Contacted 1	LARGE POLE
Object Contacted 2	0

NASS Weighting Factor

Weighting factor	52.947815032
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Rollover Characteristics

Number of Events	2
Rollover Initiation Type	No rollover
Location of Rollover Initiation	No rollover
Rollover Initiation Object Contacted	No rollover
Location on Vehicle where Principal Tripping Force was Applied	No rollover
Direction of Initial Roll	No rollover

Vehicle Factors

Make-Model	Toyota Corolla
Year	1986
Class	PASSENGER CAR
Body Type	3DR/2DR HATCHBAK
Weight	102

Pre-Crash Driver Data

Accident Type	1
Pre-event Movement	GOING STRAIGHT
Critical Pre-crash Event	OFF EDGE-RIGHT
Attempted Avoidance Manuever	No AVOIDANCE
Pre-impact Stability	TRACKING
Pre-impact Location	DEPARTED ROADWAY

DRIVER Factors

Age	45	Height	165	Weight	73
Gender					FEMALE-NOT PREG
Ejection					No EJECTION
Ejection Area					No EJECTION
Entrapment					ENTRAPPED

Restraint Factors

Restrain	None used/avail
AOPS	NO
Airbag Deployment	Not EQUIP/AVAIL
Airbag Deployment - 1 st Seat	Not EQUIP/AVAIL
Airbag Deployment - Oth Seat	Not EQUIP W/ OTH

Injuries

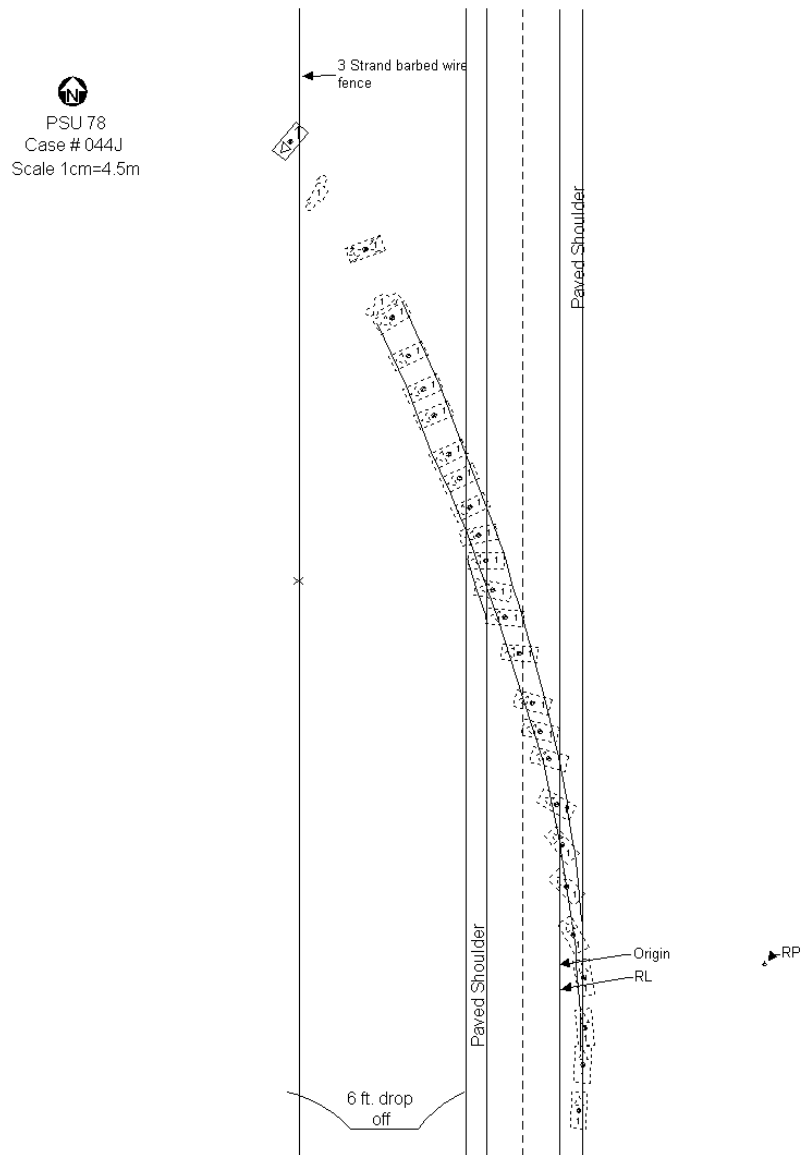
Occupant	1999-78-43-1-1
MAIS	5=Critical
Seat Position	Front left side

AIS Level	Injury Description	Contacts
5=Critical	Unconscious on admission, inappropriate movements	Steering comb
3=Serious	Cerebral injury, NFS	Steering comb
2=Moderate	851605	Floor

74 Case 1999-78-44

Summary:

V1 was eastbound on a rural 2-lane ,dry level, bituminous roadway. The driver fell asleep, drifted to the right side of roadway . V1 then came back on the roadway and started a counter clockwise rotation before crossing both lanes of travel and going off the north side of the roadway.The right side tires dug into the dirt causing the V1 to roll (4)quarter turns before coming to rest on its wheels facing west.The driver was ejected and the passenger was in a child restraint seat and also ejected .V1 driver and passenger were both transported Air-Evac to trauma center. V1 was towed due to damages.



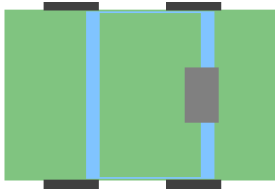
Vehicle	Body type	Make	Model	Year	Occ.#	Age	Occupant's sex	Maximum known occupant ais
1	LARGE PICKUP	Ford	F-series P/U	1997	1	41	MALE	2=Moderate
1	LARGE PICKUP	Ford	F-series P/U	1997	2	2	MALE	2=Moderate

Occupant: 1999-78-44-1-1



Fire Information

Fire Occurrence	No fire
Fire Origin	No fire
Location of Fuel Leakage	Filler neck
Type of Fuel Tank	Metallic
Fuel Tank Location	Forward of rear axle, left side
Fuel Cap Location	Left side, forward rear axle
Fuel Tank Damage	Fill neck separation
Fuel Type	Gasoline



Crash Severity

Nr. Quarter Turns	4 QUARTER TURNS
Impact Speed	< 0.5KMPH
Total, Longitudal, and Lateral δV	< 0.5 KMPH < 0.5 KMPH < 0.5 KMPH
Est. δV with sequence number	MODERATE 1
CDC	0 T D D O 3
Damage (C1-C6)	0 0 0 0 0 0
Crush (L and D)	0 0
Object Contacted 1	ROLLOVER-OVERTURN
Object Contacted 2	0

NASS Weighting Factor

Weighting factor	53.29965967
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Rollover Characteristics

Number of Events	1
Rollover Initiation Type	TRIP-OVER
Location of Rollover Initiation	ROADSIDE/MEDIAN
Rollover Initiation Object Contacted	GROUND
Location on Vehicle where Principal Tripping Force was Applied	WHEELS/TIRES
Direction of Initial Roll	ROLL RIGHT

Pre-Crash Environment

Traffic Flow	Not DIVIDED
Number of Travel Lanes	TWO
Roadway Alignment	STRAIGHT
Roadway Profile	LEVEL
Roadway Surface Type	ASPHALT
Roadway Surface Condition	DRY
Light Conditions	DARK
Atmospheric Conditions	No ADVERSE COND
Relation to Intersection	NONINTER/NONJUNC
Traffic Control Device	
Police Reported Alcohol Presence	No ALCOHOL
Alcohol Test (< 95 indicates BAC 0.xx)	0

Vehicle Factors

Make-Model	Ford F-series P/U
Year	1997
Class	TRUCK
Body Type	LARGE PICKUP
Weight	191

Pre-Crash Driver Data

Accident Type	1
Pre-event Movement	GOING STRAIGHT
Critical Pre-crash Event	OFF EDGE-RIGHT
Attempted Avoidance Manuever	STEERING LEFT
Pre-impact Stability	LAT SKID-CTR CLK
Pre-impact Location	DEPARTED ROADWAY

DRIVER Factors

Age	41	Height	173	Weight	100
Gender					MALE
Ejection					COMPLETE EJECT
Ejection Area					No EJECTION
Entrapment					Not ENTRAPPED

Restraint Factors

Restrain	None used/avail
AOPS	YES-RES DET
Airbag Deployment	NONDEPLOYED
Airbag Deployment - 1 st Seat	NONDEPLOYED
Airbag Deployment - Oth Seat	Not EQUIP W/ OTH

Injuries

Occupant	1999-78-44-1-1
MAIS	2=Moderate
Seat Position	Front left side

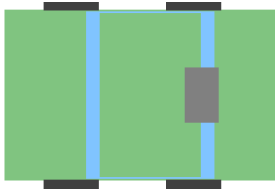
AIS Level	Injury Description	Contacts
2=Moderate	2-3 rib fractures with stable chest	Unknown SOURCE
2=Moderate	Pelvic fracture NFS	Unknown SOURCE
1=Minor	Acute cervical spine strain without fracture or dislocation	Unknown SOURCE

Occupant: 1999-78-44-1-2



Fire Information

Fire Occurrence	No fire
Fire Origin	No fire
Location of Fuel Leakage	Filler neck
Type of Fuel Tank	Metallic
Fuel Tank Location	Forward of rear axle, left side
Fuel Cap Location	Left side, forward rear axle
Fuel Tank Damage	Fill neck separation
Fuel Type	Gasoline



Crash Severity

Nr. Quarter Turns	4 QUARTER TURNS
Impact Speed	< 0.5KMPH
Total, Longitudal, and Lateral δV	< 0.5 KMPH < 0.5 KMPH < 0.5 KMPH
Est. δV with sequence number	MODERATE 1
CDC	0 T D D O 3
Damage (C1-C6)	0 0 0 0 0 0
Crush (L and D)	0 0
Object Contacted 1	ROLLOVER-OVERTURN
Object Contacted 2	0

NASS Weighting Factor

Weighting factor	53.29965967
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Rollover Characteristics

Number of Events	1
Rollover Initiation Type	TRIP-OVER
Location of Rollover Initiation	ROADSIDE/MEDIAN
Rollover Initiation Object Contacted	GROUND
Location on Vehicle where Principal Tripping Force was Applied	WHEELS/TIRES
Direction of Initial Roll	ROLL RIGHT

Pre-Crash Environment

Traffic Flow	Not DIVIDED
Number of Travel Lanes	TWO
Roadway Alignment	STRAIGHT
Roadway Profile	LEVEL
Roadway Surface Type	ASPHALT
Roadway Surface Condition	DRY
Light Conditions	DARK
Atmospheric Conditions	No ADVERSE COND
Relation to Intersection	NONINTER/NONJUNC
Traffic Control Device	
Police Reported Alcohol Presence	No ALCOHOL
Alcohol Test (< 95 indicates BAC 0.xx)	0

Vehicle Factors

Make-Model	Ford F-series P/U
Year	1997
Class	TRUCK
Body Type	LARGE PICKUP
Weight	191

Pre-Crash Driver Data

Accident Type	1
Pre-event Movement	GOING STRAIGHT
Critical Pre-crash Event	OFF EDGE-RIGHT
Attempted Avoidance Manuever	STEERING LEFT
Pre-impact Stability	LAT SKID-CTR CLK
Pre-impact Location	DEPARTED ROADWAY

PASSENGER Factors

Age	2	Height	91	Weight	14
Gender					MALE
Ejection					COMPLETE EJECT
Ejection Area					No EJECTION
Entrapment					Not ENTRAPPED

Restraint Factors

Restrain	None used/avail
AOPS	YES-RES DET
Airbag Deployment	NONDEPLOYED
Airbag Deployment - 1 st Seat	NONDEPLOYED
Airbag Deployment - Oth Seat	Not EQUIP W/ OTH

Injuries

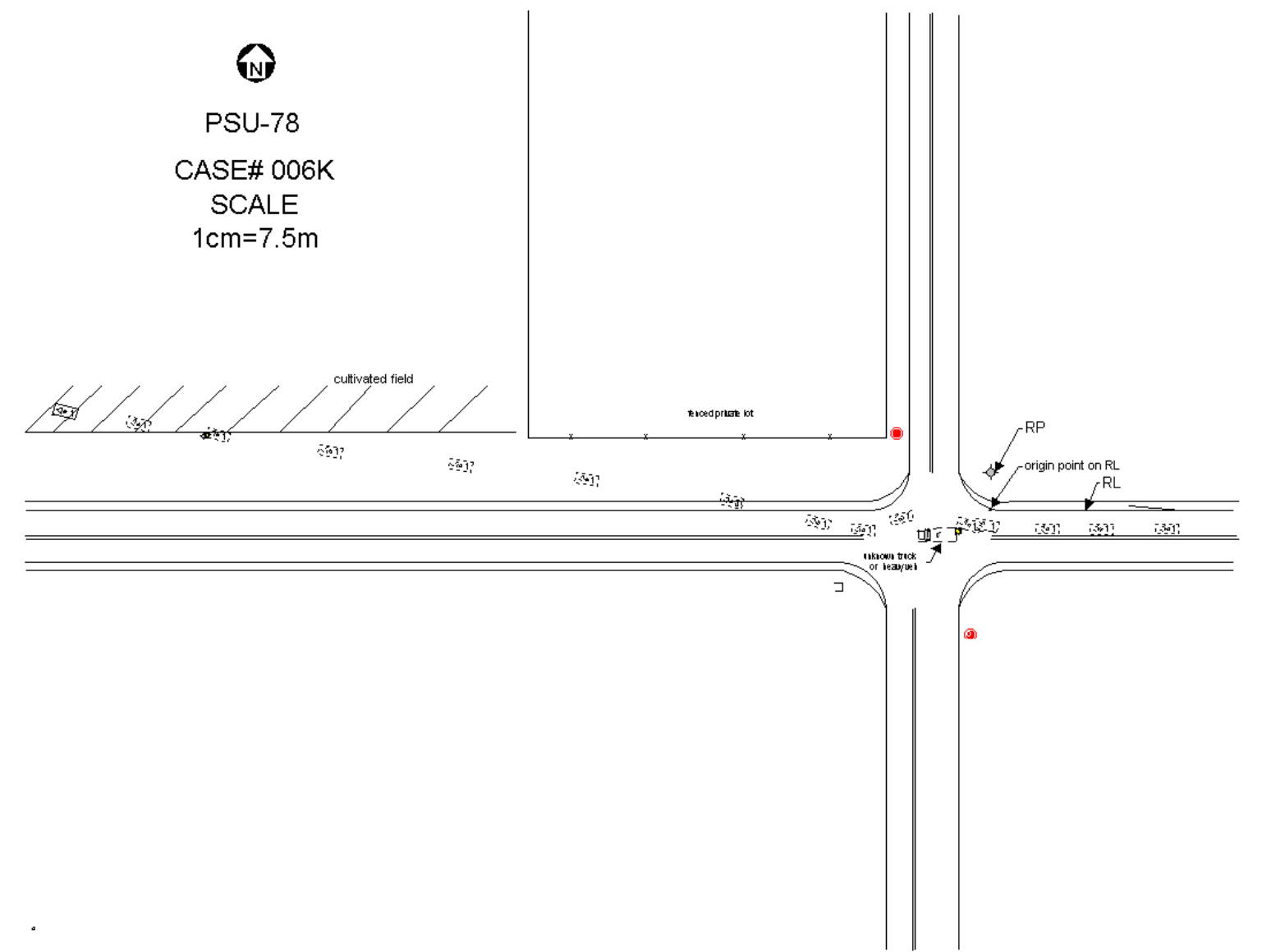
Occupant	1999-78-44-1-2
MAIS	2=Moderate
Seat Position	Front right side

AIS Level	Injury Description	Contacts
2=Moderate	Arm, forearm, hand fracture NFS	Unknown SOURCE
2=Moderate	Splenic injury NFS	Unknown SOURCE
1=Minor	Facial skin abrasion	Unknown SOURCE
1=Minor	Facial skin laceration, minor	Unknown SOURCE

75 Case 1999-78-6

Summary:

This is a hit-and-run crash involving a pickup truck and some unknown large vehicle while both were in transport. V1, a pickup truck, was westbound on a rural, 2-lane, dry, level, bituminous roadway with no traffic controls present. Light conditions were dark. V1 was approaching an intersection with stop signs for north/south traffic. An unknown vehicle, travelling generally the opposite direction of V1, struck the front of V1 at approximately the beltline and caused severe, direct damage, to the left side, A and B pillars, door, and bed. Damage was identified both above and below the beltline. The unknown striking vehicle did not stop and has not been identified. The driver of V1 was injured and transported. The driver of V1 has no recall of the events. V1 was towed due to severe damages. The damage patterns indicate the striking vehicle was a medium heavy truck with a high center of gravity.



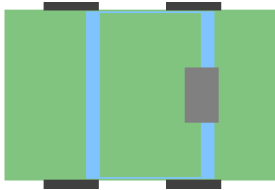
Vehicle	Body type	Make	Model	Year	Occ.#	Age	Occupant's sex	Maximum known occupant ais
1	LARGE PICKUP	Ford	F-series P/U	1971	1	29	MALE	4=Severe

Occupant: 1999-78-6-1-1



Fire Information

Fire Occurrence	No fire
Fire Origin	No fire
Location of Fuel Leakage	Filler neck
Type of Fuel Tank	Metallic
Fuel Tank Location	Other (will specify)
Fuel Cap Location	Left side, forward rear axle
Fuel Tank Damage	Fill neck separation
Fuel Type	Gasoline



Crash Severity

Nr. Quarter Turns	No rollover
Impact Speed	< 0.5KMPH
Total, Longitudal, and Lateral δV	< 0.5 KMPH < 0.5 KMPH < 0.5 KMPH
Est. δV with sequence number	SEVERE 1
CDC	12 F L A E 9
Damage (C1-C6)	0 0 0 0 0 0
Crush (L and D)	0 0
Object Contacted 1	VEHICLE NO. 2
Object Contacted 2	0

NASS Weighting Factor

Weighting factor	52.240323334
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Rollover Characteristics

Number of Events	1
Rollover Initiation Type	No rollover
Location of Rollover Initiation	No rollover
Rollover Initiation Object Contacted	No rollover
Location on Vehicle where Principal Tripping Force was Applied	No rollover
Direction of Initial Roll	No rollover

Pre-Crash Environment

Traffic Flow	Not DIVIDED
Number of Travel Lanes	TWO
Roadway Alignment	STRAIGHT
Roadway Profile	LEVEL
Roadway Surface Type	ASPHALT
Roadway Surface Condition	DRY
Light Conditions	DARK
Atmospheric Conditions	No ADVERSE COND
Relation to Intersection	INTERSECTION REL
Traffic Control Device	
Police Reported Alcohol Presence	No ALCOHOL
Alcohol Test (< 95 indicates BAC 0.xx)	0

Vehicle Factors

Make-Model	Ford F-series P/U
Year	1971
Class	TRUCK
Body Type	LARGE PICKUP
Weight	166

Pre-Crash Driver Data

Accident Type	67
Pre-event Movement	GOING STRAIGHT
Critical Pre-crash Event	0
Attempted Avoidance Manuever	BRAKE W/ LOCKUP
Pre-impact Stability	LONGITUDINAL SKID
Pre-impact Location	STAYED IN LANE

DRIVER Factors

Age	29	Height	165	Weight	84
Gender					MALE
Ejection					No EJECTION
Ejection Area					No EJECTION
Entrapment					Not ENTRAPPED

Restraint Factors

Restrain	Lap belt
AOPS	NO
Airbag Deployment	Not EQUIP/AVAIL
Airbag Deployment - 1 st Seat	Not EQUIP/AVAIL
Airbag Deployment - Oth Seat	Not EQUIP W/ OTH

Injuries

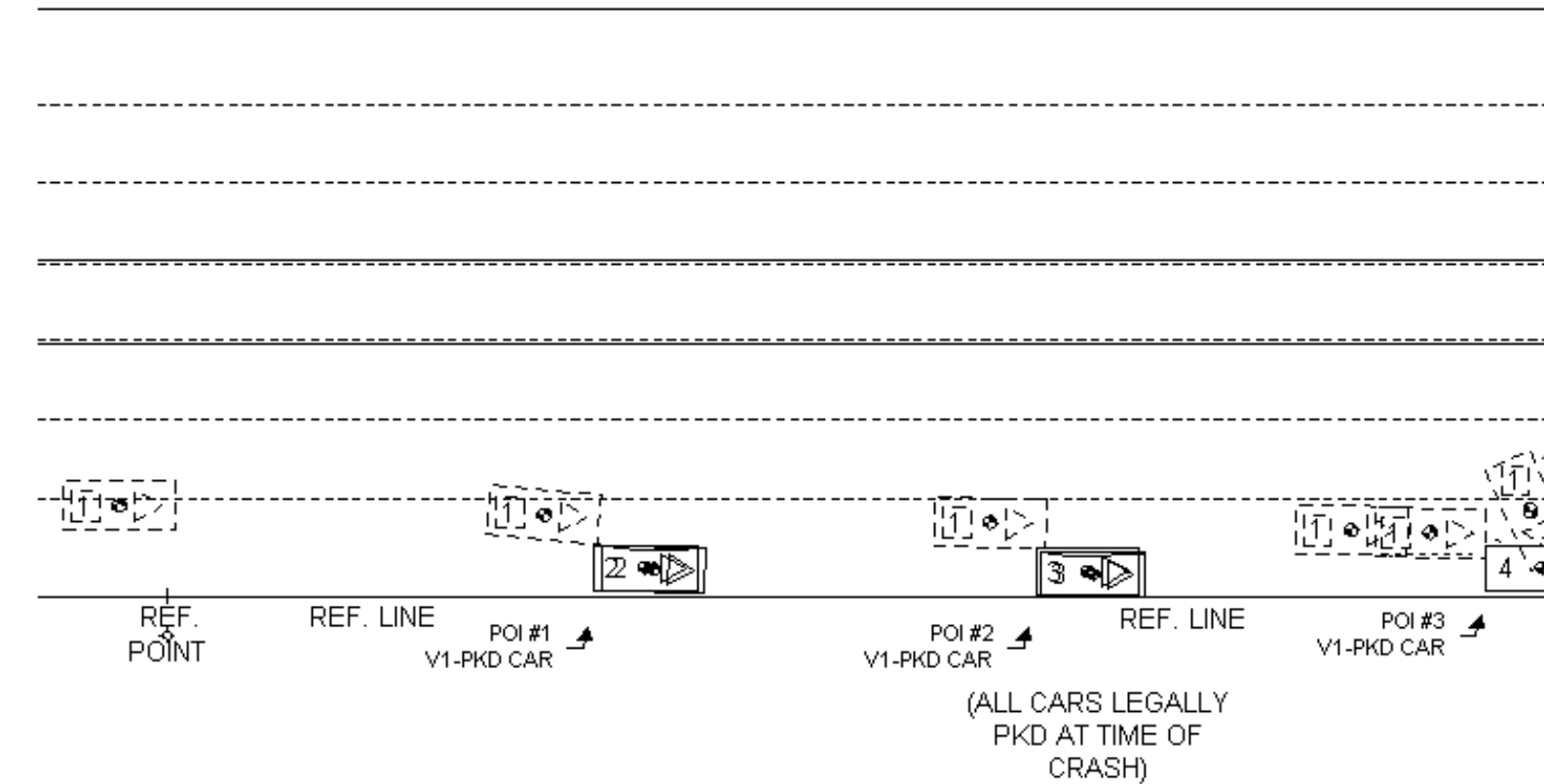
Occupant	1999-78-6-1-1
MAIS	4=Severe
Seat Position	Front left side

AIS Level	Injury Description	Contacts
2=Moderate	Awake on admission, unconscious <1 hour	Left B pillar
4=Severe	>3 rib fxs on one side & <3 other side & hemo-/pneumothorax	Left hardware
3=Serious	Lung contusion, uni-lateral	Left hardware
2=Moderate	Splenic laceration NFS	Left hardware
2=Moderate	Scapular fracture	Left B pillar
2=Moderate	Splenic contusion, minor (<501=Minor	Facial skin abrasion
Left B pillar		
1=Minor	Facial skin laceration, minor	Left B pillar
1=Minor	Facial skin contusion	Left B pillar
1=Minor	Upper extremity skin laceration, minor	Left interior
1=Minor	Upper extremity skin contusion	Left interior
1=Minor	Leg skin contusion (hematoma)	Left interior
1=Minor	Abdominal skin contusion	Steering rim

76 Case 1999-79-35

Summary:

V1 was traveling east in the #1 lane of a 5-lane, level, dry, undivided sphalt roadway. Ahead, three vehicles were legally parked against the south curb in the same travel lane. V1 entered the parking lane and its RF corner sideswiped the left side of a pickup. V1 continued east and sideswiped the left side of the second parked vehicle. V1 continued east and impacted the back of a the third parked vehicle, a compact pickup. This impact caused the legally parked pickup to roll right while V1 rotated CW and rolled left one quarter turn. V1 came to rest on the roadway on its left side facing west and caught on fire. At some point between the third impact and end of the rollover sequence, V1's driver was ejected through an unknown part of the vehicle. He was transported and hospitalized with serious injuries.



Vehicle	Body type	Make	Model	Year	Occ.#	Age	Occupant's sex	Maximum known occupant ais
1	LARGE VAN	Ford	E-series Van	1966	1	51	MALE	3=Serious

Occupant: 1999-79-35-1-1



Fire Information

Fire Occurence	Major fire
Fire Origin	No fire
Location of Fuel Leakage	No fuel leakage
Type of Fuel Tank	Metallic
Fuel Tank Location	Behind rear axle, centered
Fuel Cap Location	Left side, behind rear axle
Fuel Tank Damage	Deformed
Fuel Type	Gasoline



Crash Severity

Nr. Quarter Turns	1 QUARTER TURN
Impact Speed	< 0.5KMPH
Total, Longitudal, and Lateral δV	< 0.5 KMPH < 0.5 KMPH < 0.5 KMPH
Est. δV with sequence number	MODERATE 3
CDC	12 F Z E W 0
Damage (C1-C6)	1 1 10 23 39 22
Crush (L and D)	167 31
Object Contacted 1	Not IN TRAN LGTVEH
Object Contacted 2	ROLLOVER-OVERTRN

NASS Weighting Factor

Weighting factor	6.9635688557
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Rollover Characteristics

Number of Events	5
Rollover Initiation Type	COLLISION W/VEH
Location of Rollover Initiation	ON SHLDER-PAVED
Rollover Initiation Object	NotINTRAN LGTVEH
Contacted	
Location on Vehicle where Principal Tripping Force was Applied	END PLANE
Direction of Initial Roll	ROLL LEFT

Pre-Crash Environment

Traffic Flow	Not DIVIDED
Number of Travel Lanes	FIVE
Roadway Alignment	STRAIGHT
Roadway Profile	LEVEL
Roadway Surface Type	ASPHALT
Roadway Surface Condition	DRY
Light Conditions	DARK/LIGHTED
Atmospheric Conditions	No ADVERSE COND
Relation to Intersection	NONINTER/NONJUNC
Traffic Control Device	
Police Reported Alcohol Presence	ALCOHOL PRESENT
Alcohol Test (< 95 indicates BAC 0.xx)	28

Vehicle Factors

Make-Model	Ford E-series Van
Year	1966
Class	Unknown
Body Type	LARGE VAN
Weight	0

Pre-Crash Driver Data

Accident Type	11
Pre-event Movement	GOING STRAIGHT
Critical Pre-crash Event	OVER LINE-RIGHT
Attempted Avoidance Maneuver	No DRIVER
Pre-impact Stability	TRACKING
Pre-impact Location	Left TRAVEL LANE

DRIVER Factors

Age	51	Height	183	Weight	73
Gender			MALE		
Ejection			COMPLETE EJECT		
Ejection Area			No EJECTION		
Entrapment			Not ENTRAPPED		

Restraint Factors

Restrain	None used/avail
AOPS	NO
Airbag Deployment	Not EQUIP/AVAIL
Airbag Deployment - 1 st Seat	Not EQUIP/AVAIL
Airbag Deployment - Oth Seat	Not EQUIP W/ OTH Seat

Injuries

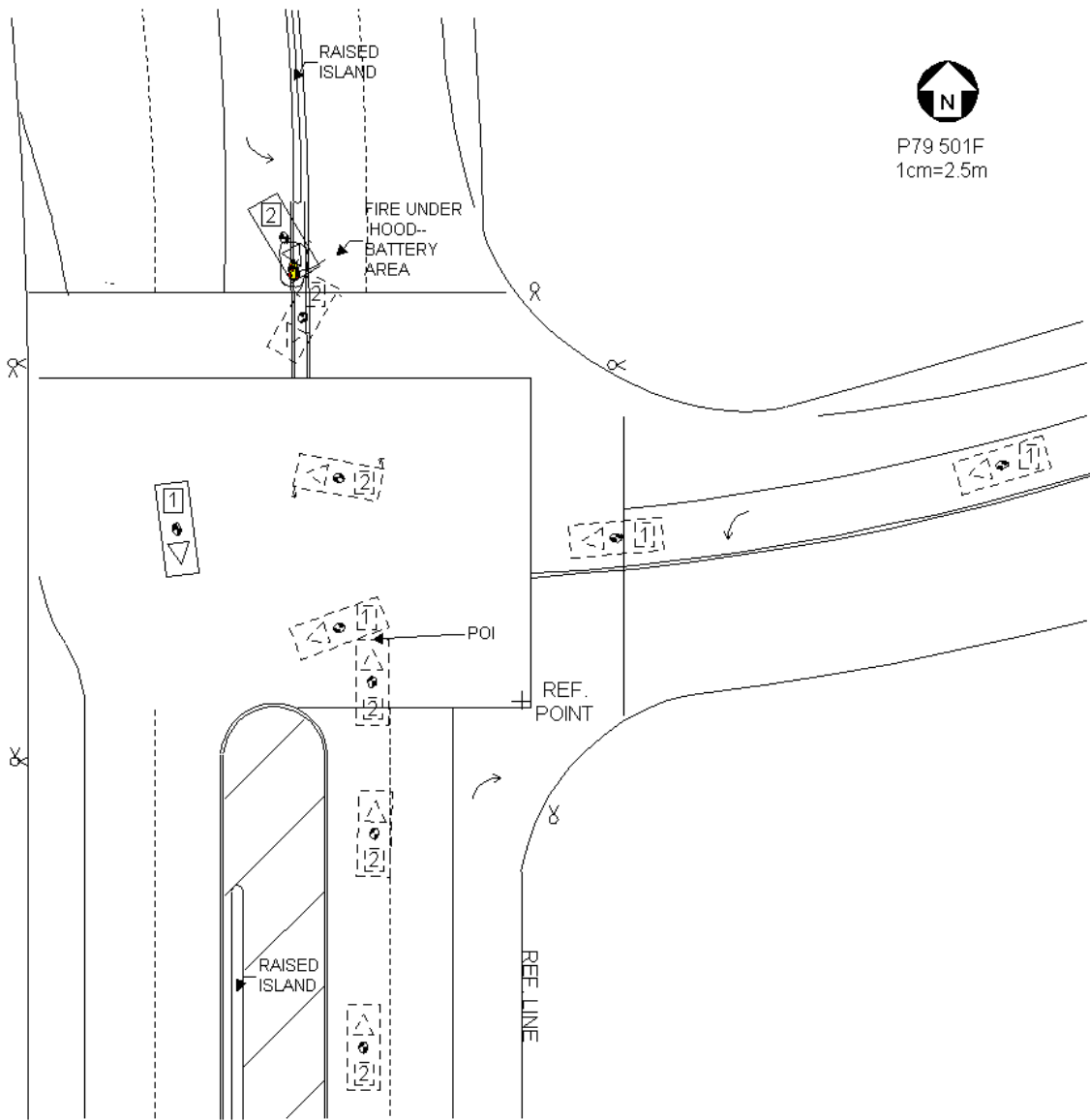
Occupant	1999-79-35-1-1
MAIS	3=Serious
Seat Position	Front left side

AIS Level	Injury Description	Contacts
3=Serious	Lethargic on admission, never unconscious & neuro deficit	Ground
3=Serious	Cerebral subarachnoid hemorrhage	Ground
3=Serious	Cerebral subarachnoid hemorrhage	Ground
3=Serious	Cerebral contusion, single, small (<30ccs)	Ground
3=Serious	Cerebral brain swelling, mild	Ground
2=Moderate	Clavicle fracture	Ground
1=Minor	Scalp laceration, minor	Ground
1=Minor	Facial skin laceration, minor	Ground
1=Minor	Upper extremity skin abrasion	Ground
1=Minor	Leg skin abrasion	Ground

77 Case 1999-79-501

Summary:

V1 was traveling west in the #2 lane (a left turn pocket) of a 3-lane, undivided, asphalt roadway with a right curve and an uphill grade. V2 was traveling north in the #3 lane of a 3-lane, downhill, asphalt roadway divided from two southbound lanes by a raised island. As the vehicles entered a trilight-controlled "T" intersection, the front of V2 impacted the left side of V1. V2's redesigned airbags (replacements) deployed during the impact. V1 rotated CCW in a northwesterly direction and came to rest facing south in the southbound #1 lane. V2 rotated CCW in a northwesterly direction and came to rest facing southeast in the southbound #3 lane and median area. The driver of V1 was transported and released with complaint of pain. The driver of V2 sought treatment later from a private physician. Immediately after the impact, there was some sparking under V2's hood. One to two minutes later, flames were observed under the hood's RF corner at the battery area. The small to moderate fire was extinguished by the fire department 3 to 4 minutes later.



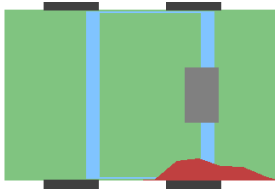
Vehicle	Body type	Make	Model	Year	Occ Age	Occupant's sex	Maximum known occupant ais
1	4-DR SEDAN/HDTOP	Chrysler	New Yorker/E-Class	1988	20	FEMALE-NOT PREG	0=None
2	COMPACT UTILITY	Nissan	Pathfinder	1998	45	MALE	0=None

Occupant: 1999-79-501-1-1



Fire Information

Fire Occurrence	No fire
Fire Origin	No fire
Location of Fuel Leakage	No fuel leakage
Type of Fuel Tank	Metallic
Fuel Tank Location	Forward of rear axle, centered
Fuel Cap Location	Right side, behind rear axle
Fuel Tank Damage	No damage
Fuel Type	Gasoline



Pre-Crash Environment

Traffic Flow	Not DIVIDED
Number of Travel Lanes	THREE
Roadway Alignment	CURVE RIGHT
Roadway Profile	UPHILL GRADE
Roadway Surface Type	ASPHALT
Roadway Surface Condition	DRY
Light Conditions	DARK/LIGHTED
Atmospheric Conditions	No ADVERSE COND
Relation to Intersection	INTERSECTION REL
Traffic Control Device	
Police Reported Alcohol Presence	No ALCOHOL
Alcohol Test (< 95 indicates BAC 0.xx)	0

Vehicle Factors

Make-Model	Chrysler New Yorker/E-Class
Year	1988
Class	PASSENGER CAR
Body Type	4-DR SEDAN/HDTOP
Weight	146

Crash Severity

Nr. Quarter Turns	No rollover
Impact Speed	998
Total, Longitudal, and Lateral δV	27 -18 21
Est. δV with sequence number	DELTA V CODED 1
CDC	90 L Z A W 3
Damage (C1-C6)	0 28 32 21 19 5
Crush (L and D)	196 -111
Object Contacted 1	VEHICLE NO. 2
Object Contacted 2	0

Pre-Crash Driver Data

Accident Type	82
Pre-event Movement	TURNING LEFT
Critical Pre-crash Event	TURN LEFT-INTERS
Attempted Avoidance Manuever	No DRIVER
Pre-impact Stability	TRACKING
Pre-impact Location	STAYED IN LANE

NASS Weighting Factor

Weighting factor	0
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DRIVER Factors

Rollover Characteristics

Number of Events	2
Rollover Initiation Type	No rollover
Location of Rollover Initiation	No rollover
Rollover Initiation Object Contacted	No rollover
Location on Vehicle where Principal Tripping Force was Applied	No rollover
Direction of Initial Roll	No rollover

Age	20	Height	155	Weight	45
Gender					FEMALE-NOT PREG
Ejection					No EJECTION
Ejection Area					No EJECTION
Entrapment					Not ENTRAPPED

Restraint Factors

Restrain	Lap and shoulder
AOPS	NO
Airbag Deployment	Not EQUIP/AVAIL
Airbag Deployment - 1 st Seat	Not EQUIP/AVAIL
Airbag Deployment - Oth Seat	Not EQUIP W/ OTH

Injuries

Occupant	1999-79-501-1-1
MAIS	0=None
Seat Position	Front left side

AIS Level	Injury Description	Contacts
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Occupant: 1999-79-501-2-1



Fire Information

Fire Occurrence	Minor fire
Fire Origin	Engine compartment
Location of Fuel Leakage	No fuel leakage
Type of Fuel Tank	Metallic
Fuel Tank Location	Forward of rear axle, left side
Fuel Cap Location	Left side, behind rear axle
Fuel Tank Damage	No damage
Fuel Type	Gasoline



Crash Severity

Nr. Quarter Turns	No rollover
Impact Speed	998
Total, Longitudal, and Lateral δV	23 -22 -4
Est. δV with sequence number	DELTA V CODED 1
CDC	92 F D E W 2
Damage (C1-C6)	32 23 23 28 21 20
Crush (L and D)	157 0
Object Contacted 1	VEHICLE NO. 1
Object Contacted 2	0

NASS Weighting Factor

Weighting factor	0
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Rollover Characteristics

Number of Events	2
Rollover Initiation Type	No rollover
Location of Rollover Initiation	No rollover
Rollover Initiation Object Contacted	No rollover
Location on Vehicle where Principal Tripping Force was Applied	No rollover
Direction of Initial Roll	No rollover

Pre-Crash Environment

Traffic Flow	DVDED/NO BARRIER
Number of Travel Lanes	THREE
Roadway Alignment	STRAIGHT
Roadway Profile	DOWNHILL GRADE
Roadway Surface Type	ASPHALT
Roadway Surface Condition	DRY
Light Conditions	DARK/LIGHTED
Atmospheric Conditions	No ADVERSE COND
Relation to Intersection	INTERSECTION REL
Traffic Control Device	
Police Reported Alcohol Presence	No ALCOHOL
Alcohol Test (< 95 indicates BAC 0.xx)	0

Vehicle Factors

Make-Model	Nissan Pathfinder
Year	1998
Class	PASSENGER CAR
Body Type	COMPACT UTILITY
Weight	171

Pre-Crash Driver Data

Accident Type	83
Pre-event Movement	CHANGING LANES
Critical Pre-crash Event	XING ST-OPP DIR
Attempted Avoidance Manuever	No AVOIDANCE
Pre-impact Stability	TRACKING
Pre-impact Location	STAYED IN LANE

DRIVER Factors

Age	45	Height	180	Weight	91
Gender			MALE		
Ejection			No EJECTION		
Ejection Area			No EJECTION		
Entrapment			Not ENTRAPPED		

Restraint Factors

Restrain	Lap and shoulder
AOPS	YES-RES DET
Airbag Deployment	BAG DEPLOYED
Airbag Deployment - 1 st Seat	DR
PAS BAG DEPLY	
Airbag Deployment - Oth Seat	Not EQUIP W/ OTH

Injuries

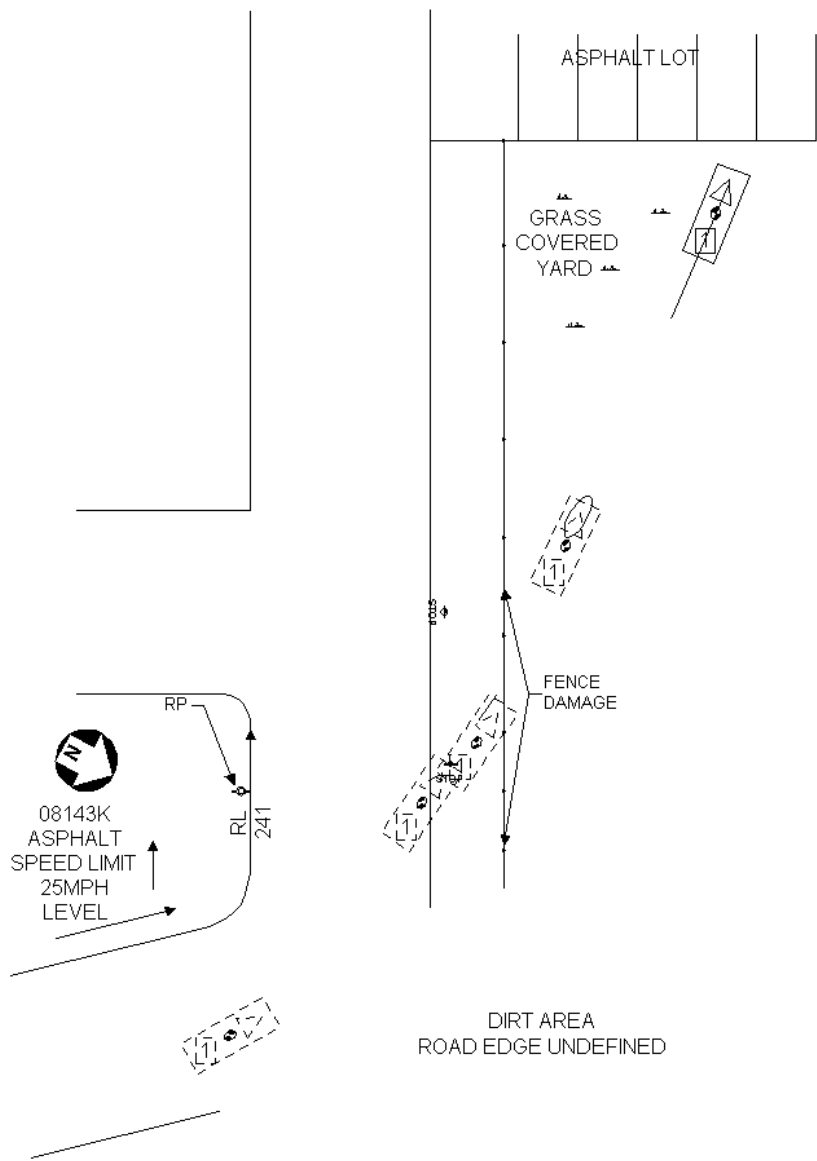
Occupant	1999-79-501-2-1
MAIS	0=None
Seat Position	Front left side

AIS Level	Injury Description	Contacts
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78 Case 1999-8-143

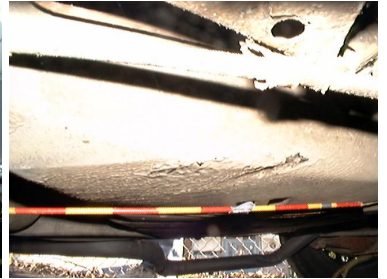
Summary:

V1 was travelling northwest on a 2 lane roadway negotiating a curve to the left. The left front tire of V1 had previously blown and the car was riding on the rim. V1 departed the right road edge. The front of V1 contacted a concrete stop sign post, resulting in an engine compartment fire. The front of V1 contacted a chain link fence as V1 crossed a grassy area and came to rest heading northwest. V1 was towed due to damage. V101, V102, and V103 were transported to a medical facility for treatment.



Vehicle	Body type	Make	Model	Year	Occ.#	Age	Occupant's sex	Maximum known occupant ais
1	4-DR SEDAN/HDTOP	Oldsmobile	Ciera	1988	1	19	MALE	7=Unk. sev.
1	4-DR SEDAN/HDTOP	Oldsmobile	Ciera	1988	2	22	MALE	7=Unk. sev.
1	4-DR SEDAN/HDTOP	Oldsmobile	Ciera	1988	3	15	FEMALE-NOT PREG	7=Unk. sev.

Occupant: 1999-8-143-1-1



Fire Information

Fire Occurrence	Minor fire
Fire Origin	Engine compartment
Location of Fuel Leakage	Line/pump/filter
Type of Fuel Tank	Metallic
Fuel Tank Location	Forward of rear axle, centered
Fuel Cap Location	Left side, behind rear axle
Fuel Tank Damage	Deformed
Fuel Type	Gasoline



Pre-Crash Environment

Traffic Flow	Not DIVIDED
Number of Travel Lanes	TWO
Roadway Alignment	CURVE LEFT
Roadway Profile	LEVEL
Roadway Surface Type	ASPHALT
Roadway Surface Condition	DRY
Light Conditions	DARK/LIGHTED
Atmospheric Conditions	No ADVERSE COND
Relation to Intersection	INTERSECTION REL
Traffic Control Device	
Police Reported Alcohol Presence	ALCOHOL PRESENT
Alcohol Test (< 95 indicates BAC 0.xx)	0

Crash Severity

Nr. Quarter Turns	No rollover
Impact Speed	< 0.5KMPH
Total, Longitudal, and Lateral δV	< 0.5 KMPH < 0.5 KMPH < 0.5 KMPH
Est. δV with sequence number	0.5 KMPH
CDC	>24 AND <40 KMPH 1
Damage (C1-C6)	12 F D E W 2
Crush (L and D)	3 7 0 14 56 1
Object Contacted 1	158 24
Object Contacted 2	MEDIUM POLE
	FENCE

NASS Weighting Factor

Weighting factor	207.83262593
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Rollover Characteristics

Number of Events	3
Rollover Initiation Type	No rollover
Location of Rollover Initiation	No rollover
Rollover Initiation Object Contacted	No rollover
Location on Vehicle where Principal Tripping Force was Applied	No rollover
Direction of Initial Roll	No rollover

Vehicle Factors

Make-Model	Oldsmobile Ciera
Year	1988
Class	PASSENGER CAR
Body Type	4-DR SEDAN/HDTOP
Weight	127

Pre-Crash Driver Data

Accident Type	2
Pre-event Movement	NEGOTIATE CURVE
Critical Pre-crash Event	OFF EDGE-RIGHT
Attempted Avoidance Manuever	No DRIVER
Pre-impact Stability	No DRIVER
Pre-impact Location	DEPARTED ROADWAY

DRIVER Factors

Age	19	Height	0	Weight	0
Gender					MALE
Ejection					No EJECTION
Ejection Area					No EJECTION
Entrapment					Not ENTRAPPED

Restraint Factors

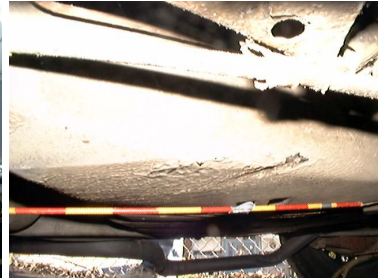
Restrain	None used/avail
AOPS	NO
Airbag Deployment	Not EQUIP/AVAIL
Airbag Deployment - 1 st Seat	Not EQUIP/AVAIL
Airbag Deployment - Oth Seat	Not EQUIP W/ OTH

Injuries

Occupant	1999-8-143-1-1
MAIS	7=Unk. sev.
Seat Position	Front left side

AIS Level	Injury Description	Contacts
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Occupant: 1999-8-143-1-2



Fire Information

Fire Occurrence	Minor fire
Fire Origin	Engine compart
Location of Fuel Leakage	Line/pump/filter
Type of Fuel Tank	Metallic
Fuel Tank Location	Forward of rear axle, centered
Fuel Cap Location	Left side, behind rear axle
Fuel Tank Damage	Deformed
Fuel Type	Gasoline



Pre-Crash Environment

Traffic Flow	Not DIVIDED
Number of Travel Lanes	TWO
Roadway Alignment	CURVE LEFT
Roadway Profile	LEVEL
Roadway Surface Type	ASPHALT
Roadway Surface Condition	DRY
Light Conditions	DARK/LIGHTED
Atmospheric Conditions	No ADVERSE COND
Relation to Intersection	INTERSECTION REL
Traffic Control Device	
Police Reported	Alcohol
Alcohol Presence	ALCOHOL PRESENT
Alcohol Test (< 95 indicates BAC 0.xx)	0

Crash Severity

Nr. Quarter Turns	No rollover
Impact Speed	< 0.5KMPH
Total, Longitudal, and Lateral δV	< 0.5 KMPH < 0.5 KMPH < 0.5 KMPH
Est. δV with sequence number	0.5 KMPH
CDC	>24 AND <40 KMPH 1
Damage (C1-C6)	12 F D E W 2
Crush (L and D)	3 7 0 14 56 1
Object Contacted 1	158 24
Object Contacted 2	MEDIUM POLE
	FENCE

NASS Weighting Factor

Weighting factor	207.83262593
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Rollover Characteristics

Number of Events	3
Rollover Initiation Type	No rollover
Location of Rollover Initiation	No rollover
Rollover Initiation Object Contacted	No rollover
Location on Vehicle where Principal Tripping Force was Applied	No rollover
Direction of Initial Roll	No rollover

Vehicle Factors

Make-Model	Oldsmobile Ciera
Year	1988
Class	PASSENGER CAR
Body Type	4-DR SEDAN/HDTOP
Weight	127

Pre-Crash Driver Data

Accident Type	2
Pre-event Movement	NEGOTIATE CURVE
Critical Pre-crash Event	OFF EDGE-RIGHT
Attempted Avoidance Manuever	No DRIVER
Pre-impact Stability	No DRIVER
Pre-impact Location	DEPARTED ROADWAY

PASSENGER Factors

Age	22	Height	0	Weight	0
Gender					MALE
Ejection					No EJECTION
Ejection Area					No EJECTION
Entrapment					Not ENTRAPPED

Restraint Factors

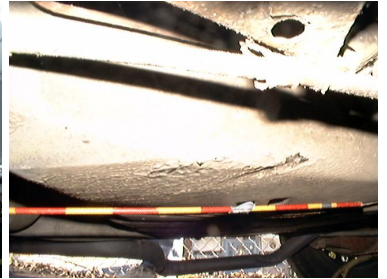
Restrain	None used/avail
AOPS	NO
Airbag Deployment	Not EQUIP/AVAIL
Airbag Deployment - 1 st Seat	Not EQUIP/AVAIL
Airbag Deployment - Oth Seat	Not EQUIP W/ OTH

Injuries

Occupant	1999-8-143-1-2
MAIS	7=Unk. sev.
Seat Position	Front right side

AIS Level	Injury Description	Contacts
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Occupant: 1999-8-143-1-3



Fire Information

Fire Occurrence	Minor fire
Fire Origin	Engine compartment
Location of Fuel Leakage	Line/pump/filter
Type of Fuel Tank	Metallic
Fuel Tank Location	Forward of rear axle, centered
Fuel Cap Location	Left side, behind rear axle
Fuel Tank Damage	Deformed
Fuel Type	Gasoline



Pre-Crash Environment

Traffic Flow	Not DIVIDED
Number of Travel Lanes	TWO
Roadway Alignment	CURVE LEFT
Roadway Profile	LEVEL
Roadway Surface Type	ASPHALT
Roadway Surface Condition	DRY
Light Conditions	DARK/LIGHTED
Atmospheric Conditions	No ADVERSE COND
Relation to Intersection	INTERSECTION REL
Traffic Control Device	
Police Reported Alcohol Presence	ALCOHOL PRESENT
Alcohol Test (< 95 indicates BAC 0.xx)	0

Crash Severity

Nr. Quarter Turns	No rollover
Impact Speed	< 0.5KMPH
Total, Longitudal, and Lateral δV	< 0.5 KMPH < 0.5 KMPH < 0.5 KMPH
Est. δV with sequence number	0.5 KMPH
CDC	>24 AND <40 KMPH 1
Damage (C1-C6)	12 F D E W 2
Crush (L and D)	3 7 0 14 56 1
Object Contacted 1	158 24
Object Contacted 2	MEDIUM POLE
	FENCE

NASS Weighting Factor

Weighting factor	207.83262593
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Rollover Characteristics

Number of Events	3
Rollover Initiation Type	No rollover
Location of Rollover Initiation	No rollover
Rollover Initiation Object Contacted	No rollover
Location on Vehicle where Principal Tripping Force was Applied	No rollover
Direction of Initial Roll	No rollover

Vehicle Factors

Make-Model	Oldsmobile Ciera
Year	1988
Class	PASSENGER CAR
Body Type	4-DR SEDAN/HDTOP
Weight	127

Pre-Crash Driver Data

Accident Type	2
Pre-event Movement	NEGOTIATE CURVE
Critical Pre-crash Event	OFF EDGE-RIGHT
Attempted Avoidance Manuever	No DRIVER
Pre-impact Stability	No DRIVER
Pre-impact Location	DEPARTED ROADWAY

PASSENGER Factors

Age	15	Height	0	Weight	0
Gender					FEMALE-NOT PREG
Ejection					No EJECTION
Ejection Area					No EJECTION
Entrapment					Not ENTRAPPED

Restraint Factors

Restrain	None used/avail
AOPS	NO
Airbag Deployment	Not EQUIP/AVAIL
Airbag Deployment - 1 st Seat	Not EQUIP/AVAIL
Airbag Deployment - Oth Seat	Not EQUIP W/ OTH

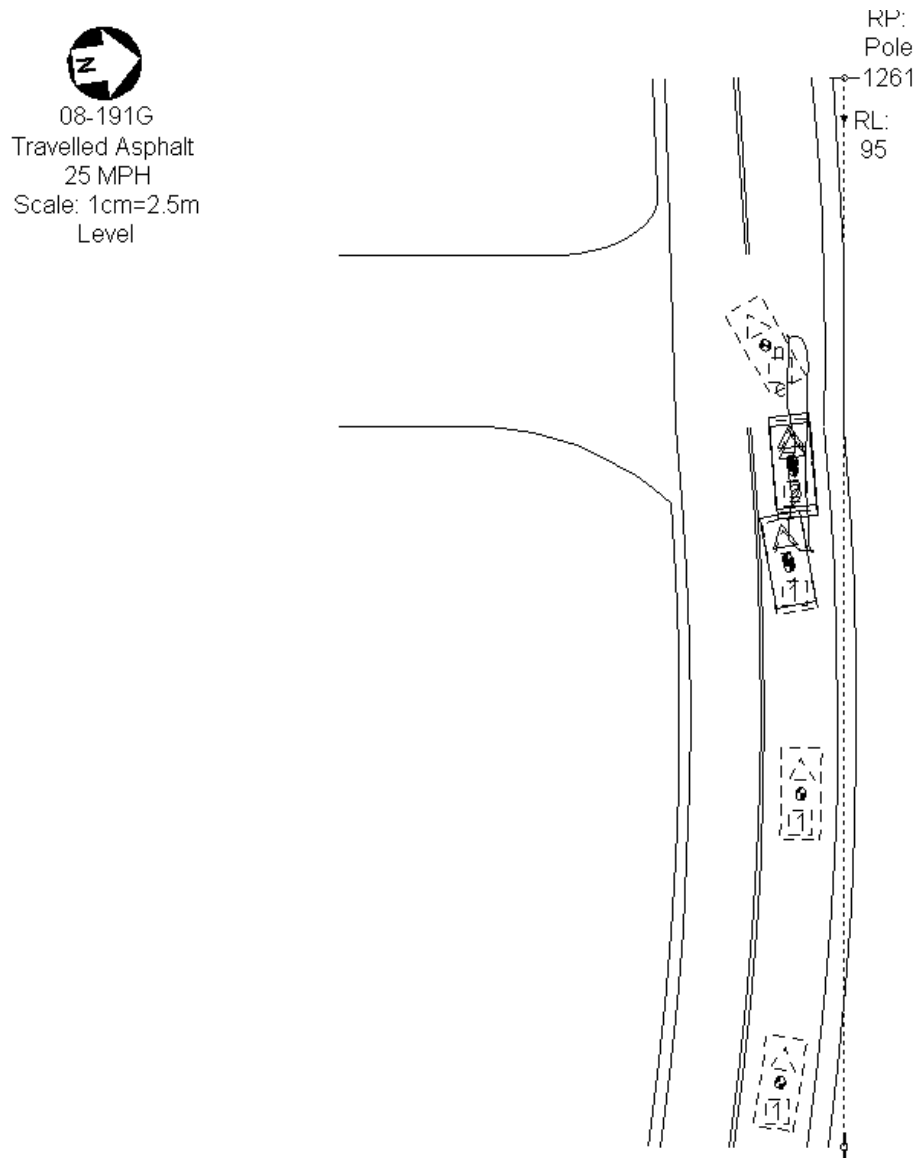
Injuries

Occupant	1999-8-143-1-3
MAIS	7=Unk. sev.
Seat Position	Second right

AIS Level	Injury Description	Contacts
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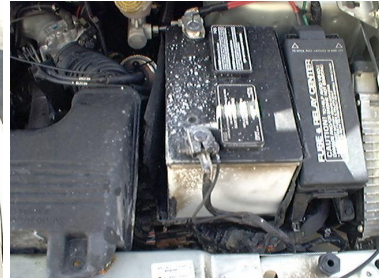
79 Case 1999-8-191

Summary:
V1 and V2 were travelling west on a two lane asphalt roadway. V1 was behind V2. V2 had stopped for a vehicle in front of it to turn left when the front of V1 struck the rear of V2. After the impact with V2, the engine compartment of V1 caught fire but was contained quickly and was very minor. V1 was towed from the scene and V2 was driven. There were no transported occupants.



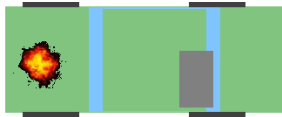
Vehicle	Body type	Make	Model	Year	Occ.#	Age	Occupant's sex	Maximum known occupant ais
1	MINIVAN	Dodge	Caravan	2000	1	38	FEMALE-NOT PREG	0=None

Occupant: 1999-8-191-1-1



Fire Information

Fire Occurrence	Minor fire
Fire Origin	Engine compart
Location of Fuel Leakage	No fuel leakage
Type of Fuel Tank	Non-metallic
Fuel Tank Location	Forward of rear axle, left side
Fuel Cap Location	Left side, forward rear axle
Fuel Tank Damage	No damage
Fuel Type	Gasoline



Crash Severity

Nr. Quarter Turns	No rollover
Impact Speed	< 0.5KMPH
Total, Longitudal, and Lateral δV	< 0.5 KMPH < 0.5 KMPH < 0.5 KMPH
Est. δV with sequence number	DELTA V CODED 1
CDC	0 F 9 9 9 0
Damage (C1-C6)	0 0 0 0 0 0
Crush (L and D)	0 0
Object Contacted 1	VEHICLE NO. 2
Object Contacted 2	0

NASS Weighting Factor

Weighting factor	650.72953499
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Rollover Characteristics

Number of Events	2
Rollover Initiation Type	No rollover
Location of Rollover Initiation	No rollover
Rollover Initiation Object Contacted	No rollover
Location on Vehicle where Principal Tripping Force was Applied	No rollover
Direction of Initial Roll	No rollover

Pre-Crash Environment

Traffic Flow	Not DIVIDED
Number of Travel Lanes	TWO
Roadway Alignment	STRAIGHT
Roadway Profile	LEVEL
Roadway Surface Type	ASPHALT
Roadway Surface Condition	DRY
Light Conditions	DAYLIGHT
Atmospheric Conditions	No ADVERSE COND
Relation to Intersection	NONINTER/NONJUNC
Traffic Control Device	
Police Reported Alcohol Presence	No ALCOHOL
Alcohol Test (< 95 indicates BAC 0.xx)	0

Vehicle Factors

Make-Model	Dodge Caravan
Year	2000
Class	PASSENGER CAR
Body Type	MINIVAN
Weight	190

Pre-Crash Driver Data

Accident Type	20
Pre-event Movement	GOING STRAIGHT
Critical Pre-crash Event	STOPPED
Attempted Avoidance Manuever	BRAKE+STEER LEFT
Pre-impact Stability	TRACKING
Pre-impact Location	STAYED IN LANE

DRIVER Factors

Age	38	Height	163	Weight	82
Gender					FEMALE-NOT PREG
Ejection					No EJECTION
Ejection Area					No EJECTION
Entrapment					Not ENTRAPPED

Restraint Factors

Restrain	Lap and shoulder
AOPS	YES-RES DET
Airbag Deployment	NONDEPLOYED
Airbag Deployment - 1 st Seat	NONDEPLOYED
Airbag Deployment - Oth Seat	Not EQUIP W/ OTH

Injuries

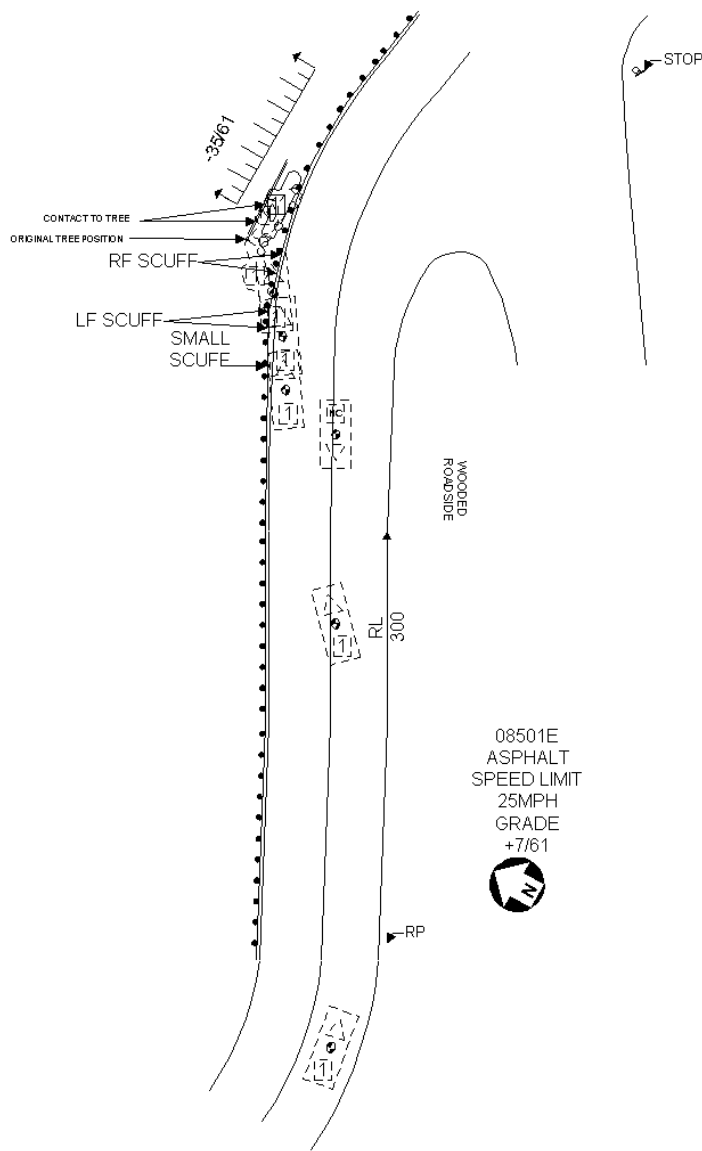
Occupant	1999-8-191-1-1
MAIS	0=None
Seat Position	Front left side

AIS Level	Injury Description	Contacts
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80 Case 1999-8-501

Summary:

V1 was travelling north on a two lane roadway negotiating a curve to the right. V1 moved left to avoid an oncoming vehicle. The front wheels of V1 contacted a guardrail on the west road edge. V1 climbed over the guardrail and rolled laterally left over the guardrail. While rollong left the front of V1 contacted a small tree, pushing the tree over. The left of V1 contacted the tree as it came to rest with it's left on top of the tree. A fire began in the engine compartment of V1. V1 was towed due to damage, V101 was transported to a medical facility.



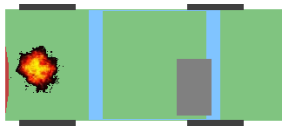
Vehicle	Body type	Make	Model	Year	Occ.#	Age	Occupant's sex	Maximum known occupant ais
1	COMPACT UTILITY	Isuzu	Rodeo	1999	1	53	MALE	0=None
1	COMPACT UTILITY	Isuzu	Rodeo	1999	2	38	FEMALE-NOT PREG	0=None

Occupant: 1999-8-501-1-1



Fire Information

Fire Occurrence	Minor fire
Fire Origin	Engine compart
Location of Fuel Leakage	No fuel leakage
Type of Fuel Tank	Metallic
Fuel Tank Location	Forward of rear axle, left side
Fuel Cap Location	Left side, behind rear axle
Fuel Tank Damage	No damage
Fuel Type	Gasoline



Pre-Crash Environment

Traffic Flow	Not DIVIDED
Number of Travel Lanes	TWO
Roadway Alignment	CURVE RIGHT
Roadway Profile	UPHILL GRADE
Roadway Surface Type	ASPHALT
Roadway Surface Condition	DRY
Light Conditions	DARK/LIGHTED
Atmospheric Conditions	No ADVERSE COND
Relation to Intersection	NONINTER/NONJUNC
Traffic Control Device	
Police Reported Alcohol Presence	ALCOHOL PRESENT
Alcohol Test (< 95 indicates BAC 0.xx)	0

Crash Severity

Nr. Quarter Turns	1 QUARTER TURN
Impact Speed	< 0.5KMPH
Total, Longitudal, and Lateral δV	< 0.5 KMPH < 0.5 KMPH <
Est. δV with sequence number	0.5 KMPH
CDC	MINOR 2
Damage (C1-C6)	0 F D E W 1
Crush (L and D)	0 5 6 5 0 0
Object Contacted 1	158 0
Object Contacted 2	LARGE TREE
	Other BARRIER

NASS Weighting Factor

Weighting factor	0
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Rollover Characteristics

Number of Events	6
Rollover Initiation Type	CLIMB-OVER
Location of Rollover Initiation	ROADSIDE/MEDIAN
Rollover Initiation Object Contacted	Other BARRIER
Location on Vehicle where Principal Tripping Force was Applied	UNDERCARRIAGE
Direction of Initial Roll	ROLL LEFT

Vehicle Factors

Make-Model	Isuzu Rodeo
Year	1999
Class	PASSENGER CAR
Body Type	COMPACT UTILITY
Weight	173

Pre-Crash Driver Data

Accident Type	6
Pre-event Movement	NEGOTIATE CURVE
Critical Pre-crash Event	OFF EDGE-LEFT
Attempted Avoidance Manuever	STEERING LEFT
Pre-impact Stability	No DRIVER
Pre-impact Location	DEPARTED ROADWAY

DRIVER Factors

Age	53	Height	180	Weight	86
Gender			MALE		
Ejection			No EJECTION		
Ejection Area			No EJECTION		
Entrapment			Not ENTRAPPED		

Restraint Factors

Restrain	None used/avail
AOPS	YES-RES DET
Airbag Deployment	NONDEPLOYED
Airbag Deployment - 1 st Seat	NONDEPLOYED
Airbag Deployment - Oth Seat	Not EQUIP W/ OTH

Injuries

Occupant	1999-8-501-1-1
MAIS	0=None
Seat Position	Front left side

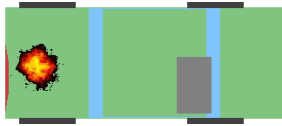
AIS Level	Injury Description	Contacts
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Occupant: 1999-8-501-1-2



Fire Information

Fire Occurrence	Minor fire
Fire Origin	Engine compartment
Location of Fuel Leakage	No fuel leakage
Type of Fuel Tank	Metallic
Fuel Tank Location	Forward of rear axle, left side
Fuel Cap Location	Left side, behind rear axle
Fuel Tank Damage	No damage
Fuel Type	Gasoline



Crash Severity

Nr. Quarter Turns	1 QUARTER TURN
Impact Speed	< 0.5KMPH
Total, Longitudal, and Lateral δV	< 0.5 KMPH < 0.5 KMPH <
Est. δV with sequence number	0.5 KMPH
CDC	MINOR 2
Damage (C1-C6)	0 F D E W 1
Crush (L and D)	0 5 6 5 0 0
Object Contacted 1	158 0
Object Contacted 2	LARGE TREE
	Other BARRIER

NASS Weighting Factor

Weighting factor	0
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Rollover Characteristics

Number of Events	6
Rollover Initiation Type	CLIMB-OVER
Location of Rollover Initiation	ROADSIDE/MEDIAN
Rollover Initiation Object Contacted	Other BARRIER
Location on Vehicle where Principal Tripping Force was Applied	UNDERCARRIAGE
Direction of Initial Roll	ROLL LEFT

Pre-Crash Environment

Traffic Flow	Not DIVIDED
Number of Travel Lanes	TWO
Roadway Alignment	CURVE RIGHT
Roadway Profile	UPHILL GRADE
Roadway Surface Type	ASPHALT
Roadway Surface Condition	DRY
Light Conditions	DARK/LIGHTED
Atmospheric Conditions	No ADVERSE COND
Relation to Intersection	NONINTER/NONJUNC
Traffic Control Device	
Police Reported Alcohol Presence	ALCOHOL PRESENT
Alcohol Test (< 95 indicates BAC 0.xx)	0

Vehicle Factors

Make-Model	Isuzu Rodeo
Year	1999
Class	PASSENGER CAR
Body Type	COMPACT UTILITY
Weight	173

Pre-Crash Driver Data

Accident Type	6
Pre-event Movement	NEGOTIATE CURVE
Critical Pre-crash Event	OFF EDGE-LEFT
Attempted Avoidance Manuever	STEERING LEFT
Pre-impact Stability	No DRIVER
Pre-impact Location	DEPARTED ROADWAY

PASSENGER Factors

Age	38	Height	0	Weight	0
Gender					FEMALE-NOT PREG
Ejection					No EJECTION
Ejection Area					No EJECTION
Entrapment					Not ENTRAPPED

Restraint Factors

Restrain	Lap and shoulder
AOPS	YES-RES DET
Airbag Deployment	NONDEPLOYED
Airbag Deployment - 1 st Seat	NONDEPLOYED
Airbag Deployment - Oth Seat	Not EQUIP W/ OTH

Injuries

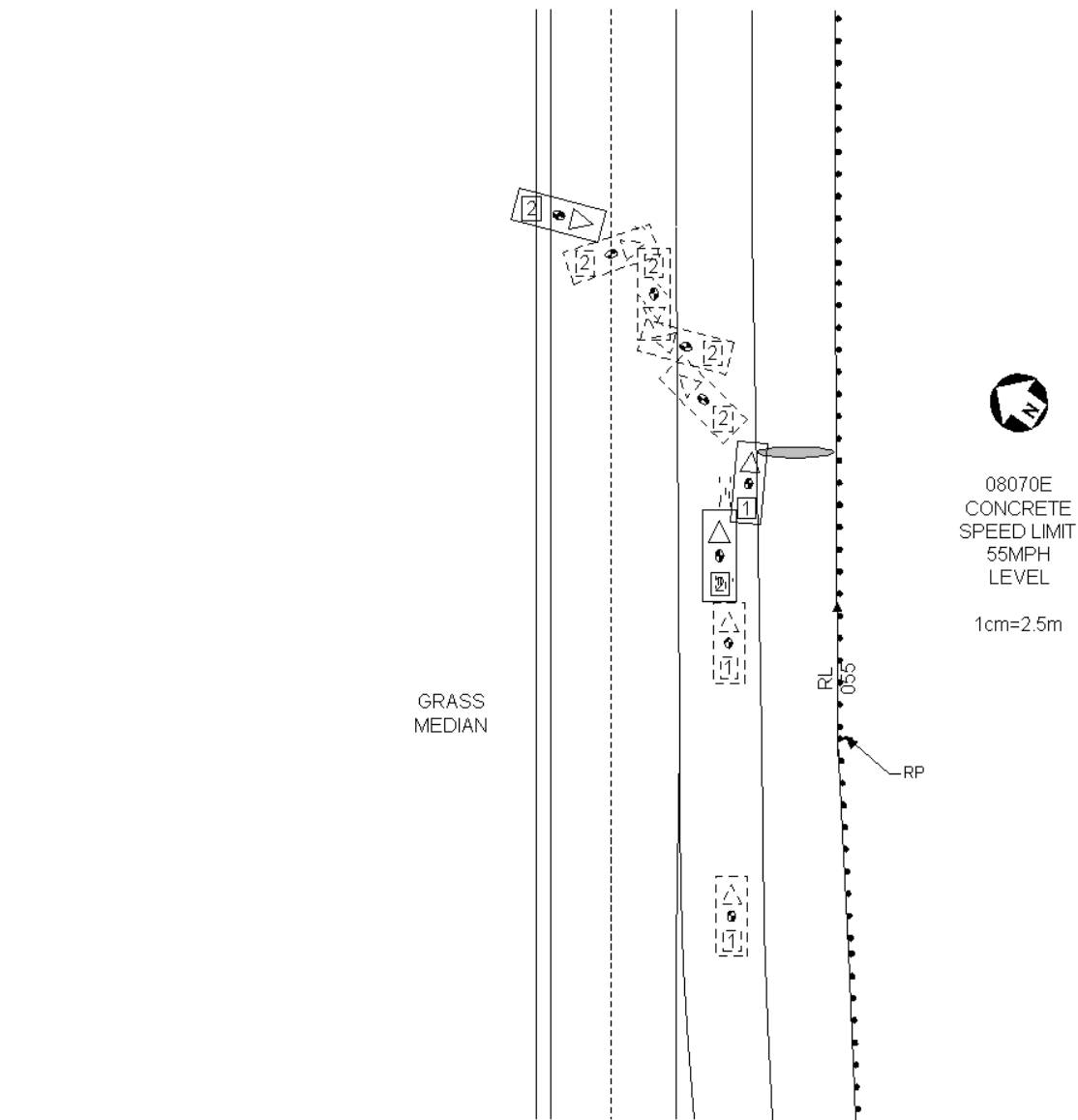
Occupant	1999-8-501-1-2
MAIS	0=None
Seat Position	Front right side

AIS Level	Injury Description	Contacts
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81 Case 1999-8-70

Summary:

V2 was stopped at on an on ramp while attempting to merge northbound onto a divided highway. V1 was travelling north behind V2. The front of V1 contacted the back of V2. V2 was propelled across the 2 northbound lanes of the highway rotating counter clockwise. V2 came to rest heading southeast off the left northbound lane. V1 came to rest heading north on the on ramp. Both vehicles were towed due to damage. V101 and V201 were transported to a medical facility.



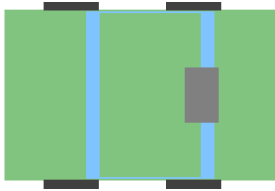
Vehicle	Body type	Make	Model	Year	Occ Age	Occupant's sex	Maximum known occupant ais
1	4-DR SEDAN/HDTOP	Ford	Escort/EXP	1991	50	MALE	0=None
1	4-DR SEDAN/HDTOP	Ford	Escort/EXP	1992	18	FEMALE-NOT PREG	1=Minor
1	4-DR SEDAN/HDTOP	Ford	Escort/EXP	1993	2	MALE	0=None
2	4-DR SEDAN/HDTOP	Mercury	Marquis/Monterey	1985	23	FEMALE-NOT PREG	1=Minor

Occupant: 1999-8-70-1-1



Fire Information

Fire Occurrence	No fire
Fire Origin	No fire
Location of Fuel Leakage	No fuel leakage
Type of Fuel Tank	Metallic
Fuel Tank Location	Forward of rear axle, centered
Fuel Cap Location	Left side, behind rear axle
Fuel Tank Damage	No damage
Fuel Type	Gasoline



Pre-Crash Environment

Traffic Flow	ONE WAY
Number of Travel Lanes	ONE
Roadway Alignment	STRAIGHT
Roadway Profile	LEVEL
Roadway Surface Type	CONCRETE
Roadway Surface Condition	DRY
Light Conditions	DAYLIGHT
Atmospheric Conditions	No ADVERSE COND
Relation to Intersection	INTERCHANGE REL
Traffic Control Device	
Police Reported Alcohol Presence	No ALCOHOL
Alcohol Test (< 95 indicates BAC 0.xx)	0

Vehicle Factors

Make-Model	Ford Escort/EXP
Year	1997
Class	PASSENGER CAR
Body Type	4-DR SEDAN/HDTOP
Weight	112

Crash Severity

Nr. Quarter Turns	No rollover
Impact Speed	998
Total, Longitudal, and Lateral δV	40 -40 < 0.5 KMPH
Est. δV with sequence number	DELTA V CODED 1
CDC	12 F 9 9 9 0
Damage (C1-C6)	0 0 0 0 0 0
Crush (L and D)	0 0
Object Contacted 1	VEHICLE NO. 2
Object Contacted 2	0

Pre-Crash Driver Data

Accident Type	20
Pre-event Movement	GOING STRAIGHT
Critical Pre-crash Event	STOPPED
Attempted Avoidance Manuever	No DRIVER
Pre-impact Stability	No DRIVER
Pre-impact Location	STAYED IN LANE

NASS Weighting Factor

Weighting factor	297.11142335
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DRIVER Factors

Rollover Characteristics

Number of Events	1
Rollover Initiation Type	No rollover
Location of Rollover Initiation	No rollover
Rollover Initiation Object Contacted	No rollover
Location on Vehicle where Principal Tripping Force was Applied	No rollover
Direction of Initial Roll	No rollover

Age	50	Height	198	Weight	114
Gender			MALE		
Ejection			No EJECTION		
Ejection Area			No EJECTION		
Entrapment			Not ENTRAPPED		

Restraint Factors

Restrain	None used/avail
AOPS	YES-RES DET
Airbag Deployment	BAG DEPLOYED
Airbag Deployment - 1 st Seat	DR
PAS BAG DEPLY	
Airbag Deployment - Oth Seat	Not EQUIP W/ OTH

Injuries

Occupant	1999-8-70-1-1
MAIS	0=None
Seat Position	Front left side

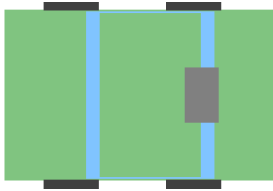
AIS Level	Injury Description	Contacts
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Occupant: 1999-8-70-1-2



Fire Information

Fire Occurrence	No fire
Fire Origin	No fire
Location of Fuel Leakage	No fuel leakage
Type of Fuel Tank	Metallic
Fuel Tank Location	Forward of rear axle, centered
Fuel Cap Location	Left side, behind rear axle
Fuel Tank Damage	No damage
Fuel Type	Gasoline



Pre-Crash Environment

Traffic Flow	ONE WAY
Number of Travel Lanes	ONE
Roadway Alignment	STRAIGHT
Roadway Profile	LEVEL
Roadway Surface Type	CONCRETE
Roadway Surface Condition	DRY
Light Conditions	DAYLIGHT
Atmospheric Conditions	No ADVERSE COND
Relation to Intersection	INTERCHANGE REL
Traffic Control Device	
Police Reported Alcohol Presence	No ALCOHOL
Alcohol Test (< 95 indicates BAC 0.xx)	0

Vehicle Factors

Make-Model	Ford Escort/EXP
Year	1997
Class	PASSENGER CAR
Body Type	4-DR SEDAN/HDTOP
Weight	112

Crash Severity

Nr. Quarter Turns	No rollover
Impact Speed	998
Total, Longitudal, and Lateral δV	40 -40 < 0.5 KMPH
Est. δV with sequence number	DELTA V CODED 1
CDC	12 F 9 9 9 0
Damage (C1-C6)	0 0 0 0 0 0
Crush (L and D)	0 0
Object Contacted 1	VEHICLE NO. 2
Object Contacted 2	0

Pre-Crash Driver Data

Accident Type	20
Pre-event Movement	GOING STRAIGHT
Critical Pre-crash Event	STOPPED
Attempted Avoidance Manuever	No DRIVER
Pre-impact Stability	No DRIVER
Pre-impact Location	STAYED IN LANE

NASS Weighting Factor

Weighting factor	297.11142335
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PASSENGER Factors

Rollover Characteristics

Number of Events	1
Rollover Initiation Type	No rollover
Location of Rollover Initiation	No rollover
Rollover Initiation Object Contacted	No rollover
Location on Vehicle where Principal Tripping Force was Applied	No rollover
Direction of Initial Roll	No rollover

Age	18	Height	0	Weight	64
Gender					FEMALE-NOT PREG
Ejection					No EJECTION
Ejection Area					No EJECTION
Entrapment					Not ENTRAPPED

Restraint Factors

Restrain	None used/avail
AOPS	YES-RES DET
Airbag Deployment	BAG DEPLOYED
Airbag Deployment - 1 st Seat	DR
PAS BAG DEPLY	
Airbag Deployment - Oth Seat	Not EQUIP W/ OTH

Injuries

Occupant	1999-8-70-1-2
MAIS	1=Minor
Seat Position	Front right side

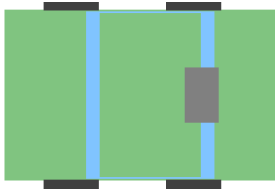
AIS Level	Injury Description	Contacts
1=Minor	Facial skin abrasion	Air bag-PS side

Occupant: 1999-8-70-1-3



Fire Information

Fire Occurrence	No fire
Fire Origin	No fire
Location of Fuel Leakage	No fuel leakage
Type of Fuel Tank	Metallic
Fuel Tank Location	Forward of rear axle, centered
Fuel Cap Location	Left side, behind rear axle
Fuel Tank Damage	No damage
Fuel Type	Gasoline



Pre-Crash Environment

Traffic Flow	ONE WAY
Number of Travel Lanes	ONE
Roadway Alignment	STRAIGHT
Roadway Profile	LEVEL
Roadway Surface Type	CONCRETE
Roadway Surface Condition	DRY
Light Conditions	DAYLIGHT
Atmospheric Conditions	No ADVERSE COND
Relation to Intersection	INTERCHANGE REL
Traffic Control Device	
Police Reported Alcohol Presence	No ALCOHOL
Alcohol Test (< 95 indicates BAC 0.xx)	0

Vehicle Factors

Make-Model	Ford Escort/EXP
Year	1997
Class	PASSENGER CAR
Body Type	4-DR SEDAN/HDTOP
Weight	112

Crash Severity

Nr. Quarter Turns	No rollover
Impact Speed	998
Total, Longitudal, and Lateral δV	40 -40 < 0.5 KMPH
Est. δV with sequence number	DELTA V CODED 1
CDC	12 F 9 9 9 0
Damage (C1-C6)	0 0 0 0 0 0
Crush (L and D)	0 0
Object Contacted 1	VEHICLE NO. 2
Object Contacted 2	0

Pre-Crash Driver Data

Accident Type	20
Pre-event Movement	GOING STRAIGHT
Critical Pre-crash Event	STOPPED
Attempted Avoidance Manuever	No DRIVER
Pre-impact Stability	No DRIVER
Pre-impact Location	STAYED IN LANE

NASS Weighting Factor

Weighting factor	297.11142335
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PASSENGER Factors

Rollover Characteristics

Number of Events	1
Rollover Initiation Type	No rollover
Location of Rollover Initiation	No rollover
Rollover Initiation Object Contacted	No rollover
Location on Vehicle where Principal Tripping Force was Applied	No rollover
Direction of Initial Roll	No rollover

Age	2	Height	91	Weight	14
Gender			MALE		
Ejection			No EJECTION		
Ejection Area			No EJECTION		
Entrapment			Not ENTRAPPED		

Restraint Factors

Restrain	Lap w/ch/seat
AOPS	YES-RES DET
Airbag Deployment	Not EQUIP/AVAIL
Airbag Deployment - 1 st Seat	DR
PAS BAG DEPLY	
Airbag Deployment - Oth Seat	Not EQUIP W/ OTH

Injuries

Occupant	1999-8-70-1-3
MAIS	0=None
Seat Position	Second middle

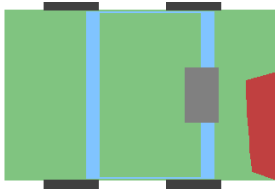
AIS Level	Injury Description	Contacts
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Occupant: 1999-8-70-2-1



Fire Information

Fire Occurrence	No fire
Fire Origin	No fire
Location of Fuel Leakage	Filler neck
Type of Fuel Tank	Metallic
Fuel Tank Location	Behind rear axle, centered
Fuel Cap Location	Right side, behind rear axle
Fuel Tank Damage	Other damage
Fuel Type	Gasoline



Crash Severity

Nr. Quarter Turns	No rollover
Impact Speed	998
Total, Longitudal, and Lateral δV	35 35 < 0.5 KMPH
Est. δV with sequence number	DELTA V CODED 1
CDC	46 B D E W 3
Damage (C1-C6)	36 40 41 43 44 45
Crush (L and D)	160 7
Object Contacted 1	VEHICLE NO. 1
Object Contacted 2	0

NASS Weighting Factor

Weighting factor	297.11142335
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Rollover Characteristics

Number of Events	1
Rollover Initiation Type	No rollover
Location of Rollover Initiation	No rollover
Rollover Initiation Object Contacted	No rollover
Location on Vehicle where Principal Tripping Force was Applied	No rollover
Direction of Initial Roll	No rollover

Pre-Crash Environment

Traffic Flow	ONE WAY
Number of Travel Lanes	ONE
Roadway Alignment	STRAIGHT
Roadway Profile	LEVEL
Roadway Surface Type	CONCRETE
Roadway Surface Condition	DRY
Light Conditions	DAYLIGHT
Atmospheric Conditions	No ADVERSE COND
Relation to Intersection	INTERCHANGE REL
Traffic Control Device	
Police Reported Alcohol Presence	No ALCOHOL
Alcohol Test (< 95 indicates BAC 0.xx)	0

Vehicle Factors

Make-Model	Mercury Marquis/Monterey
Year	1985
Class	PASSENGER CAR
Body Type	4-DR SEDAN/HDTOP
Weight	142

Pre-Crash Driver Data

Accident Type	21
Pre-event Movement	STOPPED IN LANE
Critical Pre-crash Event	Same DIR-HISPEED
Attempted Avoidance Manuever	No AVOIDANCE
Pre-impact Stability	TRACKING
Pre-impact Location	STAYED IN LANE

DRIVER Factors

Age	23	Height	165	Weight	64
Gender					FEMALE-NOT PREG
Ejection					No EJECTION
Ejection Area					No EJECTION
Entrapment					Not ENTRAPPED

Restraint Factors

Restrain	None used/avail
AOPS	NO
Airbag Deployment	Not EQUIP/AVAIL
Airbag Deployment - 1 st Seat	Not EQUIP/AVAIL
Airbag Deployment - Oth Seat	Not EQUIP W/ OTH

Injuries

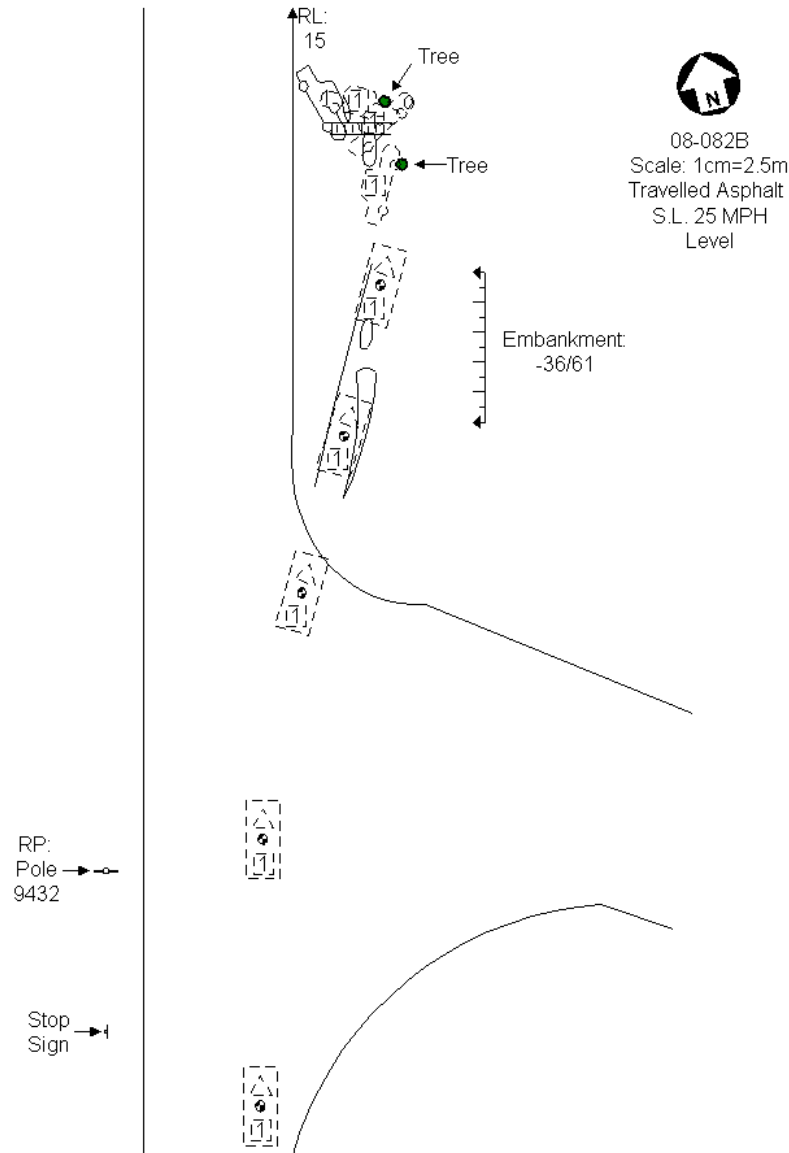
Occupant	1999-8-70-2-1
MAIS	1=Minor
Seat Position	Front left side

AIS Level	Injury Description	Contacts
1=Minor	Acute cervical spine strain without fracture or dislocation	Head restraint

82 Case 1999-8-82

Summary:

V1 was travelling north on a two lane asphalt roadway. V1 departed the roadway to the right, climbing a small embankment. The embankment caused V1 to start to roll towards it's left side with V1 striking a large tree with it's undercarriage. This impact caused V1 to rotate while on it's left side, striking another large tree with it's hood and windshield area. V1 then slid back down the embankment and a set of concrete block stairs on it's left side. A fire started in the engine compartment after the second tree impact. V1 came to final rest along the berm facing southeast at the bottom of the embankment. V1 was towed from the scene and V101 was pronounced dead at the scene.



Vehicle	Body type	Make	Model	Year	Occ.#	Age	Occupant's sex	Maximum known occupant ais
1	2DR SEDAN/HT/CPE	Mercury	Cougar XR7	1992	1	27	MALE	4=Severe

Occupant: 1999-8-82-1-1



Fire Information

Fire Occurrence	Minor fire
Fire Origin	Engine compart
Location of Fuel Leakage	No fuel leakage
Type of Fuel Tank	Metallic
Fuel Tank Location	Forward of rear axle, centered
Fuel Cap Location	Right side, behind rear axle
Fuel Tank Damage	No damage
Fuel Type	Gasoline



Pre-Crash Environment

Traffic Flow	Not DIVIDED
Number of Travel Lanes	TWO
Roadway Alignment	STRAIGHT
Roadway Profile	LEVEL
Roadway Surface Type	ASPHALT
Roadway Surface Condition	DRY
Light Conditions	DARK
Atmospheric Conditions	No ADVERSE COND
Relation to Intersection	NONINTER/NONJUNC
Traffic Control Device	
Police Reported Alcohol Presence	No ALCOHOL
Alcohol Test (< 95 indicates BAC 0.xx)	0

Crash Severity

Nr. Quarter Turns	1 QUARTER TURN
Impact Speed	< 0.5KMPH
Total, Longitudal, and Lateral δV	< 0.5 KMPH < 0.5 KMPH <
Est. δV with sequence number	0.5 KMPH
CDC	SEVERE 3
Damage (C1-C6)	0 T Y D W 0
Crush (L and D)	0 0 0 0 0 0
Object Contacted 1	0 0
Object Contacted 2	LARGE TREE
	ROLLOVER-OVERTURN

NASS Weighting Factor

Weighting factor	53.956090198
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Rollover Characteristics

Number of Events	4
Rollover Initiation Type	FLIP-OVER
Location of Rollover Initiation	ROADSIDE/MEDIAN
Rollover Initiation Object Contacted	EMBANKMENT
Location on Vehicle where Principal Tripping Force was Applied	UNDERCARRIAGE
Direction of Initial Roll	ROLL LEFT

Vehicle Factors

Make-Model	Mercury Cougar XR7
Year	1992
Class	PASSENGER CAR
Body Type	2DR SEDAN/HT/CPE
Weight	164

Pre-Crash Driver Data

Accident Type	2
Pre-event Movement	GOING STRAIGHT
Critical Pre-crash Event	OFF EDGE-RIGHT
Attempted Avoidance Manuever	No DRIVER
Pre-impact Stability	No DRIVER
Pre-impact Location	DEPARTED ROADWAY

DRIVER Factors

Age	27	Height	0	Weight	0
Gender					MALE
Ejection					No EJECTION
Ejection Area					No EJECTION
Entrapment					ENTRAPPED

Restraint Factors

Restrain	None used/avail
AOPS	YES-RES DET
Airbag Deployment	Not EQUIP/AVAIL
Airbag Deployment - 1 st Seat	Not EQUIP/AVAIL
Airbag Deployment - Oth Seat	Not EQUIP W/ OTH

Injuries

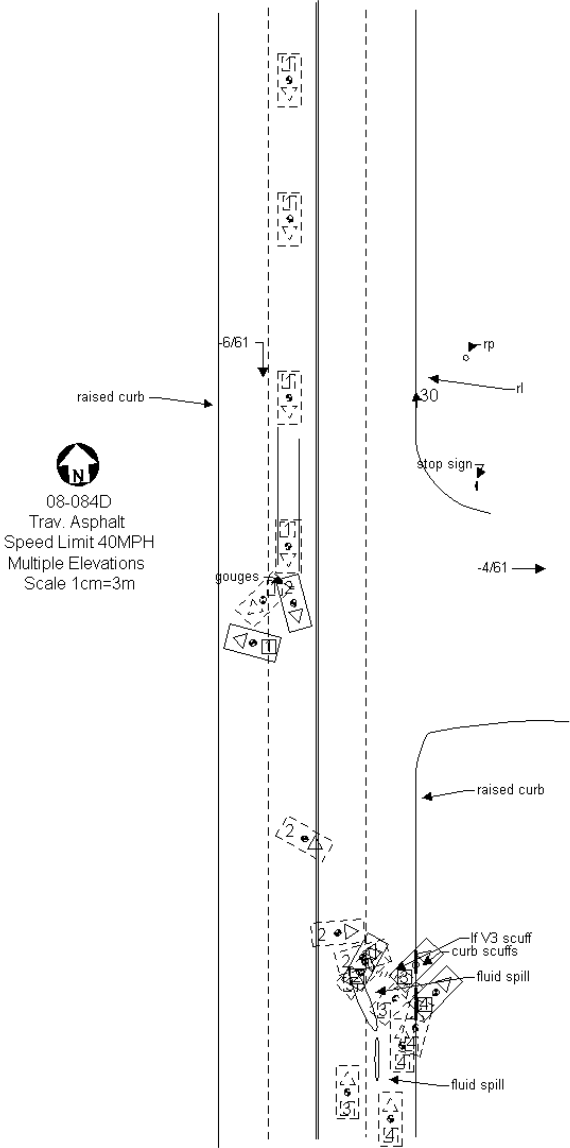
Occupant	1999-8-82-1-1
MAIS	4=Severe
Seat Position	Front left side

AIS Level	Injury Description	Contacts
1=Minor	Facial skin abrasion	Windshield
1=Minor	Facial skin contusion	Front header
3=Serious	Cerebral subarachnoid hemorrhage	Front header
3=Serious	Cerebral subarachnoid hemorrhage	Front header
4=Severe	Basilar skull fracture, open, with brain tissue loss.	Front header
1=Minor	Thoracic skin abrasion	Steering comb
1=Minor	Abdominal skin abrasion	Steering comb
1=Minor	690202	Seat, back
2=Moderate	Clavicle fracture	Steering rim
3=Serious	2-3 rib fractures with stable chest and hemo-/pneumothorax	Steering comb
2=Moderate	Pelvic fracture NFS	Steering comb
2=Moderate	Hepatic laceration NFS	Steering comb
2=Moderate	Pancreatic laceration NFS	Steering comb
4=Severe	Lung contusion, bilateral	Steering comb
1=Minor	Leg skin abrasion	Left apnel
1=Minor	Upper extremity skin abrasion	Left apnel
1=Minor	Upper extremity skin laceration NFS	Steering rim
2=Moderate	Humeral fracture NFS	Steering rim
2=Moderate	Humeral fracture NFS	Left apnel
3=Serious	Femur fracture NFS	Left apnel
3=Serious	Femur fracture NFS	Left apnel
1=Minor	Upper extremity skin abrasion	Steering rim

83 Case 1999-8-84

Summary:

V1 was traveling south on a four lane, two way undivided roadway in lane 2. V2 was stopped facing southbound in lane two of southbound traffic waiting to turn left. The front of V1 contacted the rear of V2 in lane two of southbound travel. V2 then was propelled into lane two of northbound travel while rotating counterclockwise. V1 rotated clockwise one quarter turn and came to rest facing westerly by the curb of lane one southbound. The left side of V3 contacted the right side of V2 in lane two of northbound travel. V2 then rotated counterclockwise and the right side of V2 contacted the left rear side of V3 in lane two of northbound travel. V2 came to rest between lanes one and two of northbound travel, facing in a northeasterly direction. V4 was traveling in lane one of northbound travel alongside V3. The right side of V3 contacted the left front of V4 in lane one of northbound travel due to V3's contact with and avoidance actions to impacts with V2. V3 and V4 then jumped the east curb and came to rest partially on and partially off lane one of northbound travel facing in a northeasterly direction. V1, V2, and V3 were towed due to damage. V101, V201, and V301 transported due to injury.



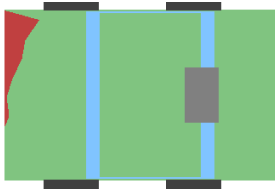
Vehicle	Body type	Make	Model	Year	Occ.#	Age	Occupant's sex	Maximum known occupant ais
1	COMPACT PICKUP	Dodge	Dakota	1993	1	26	MALE	1=Minor
2	2DR SEDAN/HT/CPE	Buick	Regal	1988	1	18	FEMALE-NOT PREG	1=Minor
3	COMPACT UTILITY	Jeep	Cherokee84-	1994	1	34	FEMALE-NOT PREG	1=Minor
3	COMPACT UTILITY	Jeep	Cherokee84-	1994	2	1	FEMALE-NOT PREG	0=None

Occupant: 1999-8-84-1-1



Fire Information

Fire Occurrence	No fire
Fire Origin	No fire
Location of Fuel Leakage	No fuel leakage
Type of Fuel Tank	Non-metallic
Fuel Tank Location	Forward of rear axle, left side
Fuel Cap Location	Left side, forward rear axle
Fuel Tank Damage	No damage
Fuel Type	Gasoline



Pre-Crash Environment

Traffic Flow	Not DIVIDED
Number of Travel Lanes	FOUR
Roadway Alignment	STRAIGHT
Roadway Profile	DOWNHILL GRADE
Roadway Surface Type	ASPHALT
Roadway Surface Condition	DRY
Light Conditions	DAYLIGHT
Atmospheric Conditions	No ADVERSE COND
Relation to Intersection	INTERSECTION REL
Traffic Control Device	
Police Reported Alcohol Presence	No ALCOHOL
Alcohol Test (< 95 indicates BAC 0.xx)	0

Crash Severity

Nr. Quarter Turns	No rollover
Impact Speed	998
Total, Longitudal, and Lateral δV	49 -48 9
Est. δV with sequence number	DELTA V CODED 1
CDC	12 F Z E W 2
Damage (C1-C6)	7 3 12 26 31 50
Crush (L and D)	170 45
Object Contacted 1	VEHICLE NO. 2
Object Contacted 2	0

NASS Weighting Factor

Weighting factor	99.195024498
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Rollover Characteristics

Number of Events	4
Rollover Initiation Type	No rollover
Location of Rollover Initiation	No rollover
Rollover Initiation Object Contacted	No rollover
Location on Vehicle where Principal Tripping Force was Applied	No rollover
Direction of Initial Roll	No rollover

Vehicle Factors

Make-Model	Dodge Dakota
Year	1993
Class	TRUCK
Body Type	COMPACT PICKUP
Weight	138

Pre-Crash Driver Data

Accident Type	20
Pre-event Movement	GOING STRAIGHT
Critical Pre-crash Event	STOPPED
Attempted Avoidance Manuever	BRAKE W/ LOCKUP
Pre-impact Stability	LONGITUDINAL SKID
Pre-impact Location	STAYED IN LANE

DRIVER Factors

Age	26	Height	185	Weight	73
Gender			MALE		
Ejection			No EJECTION		
Ejection Area			No EJECTION		
Entrapment			Not ENTRAPPED		

Restraint Factors

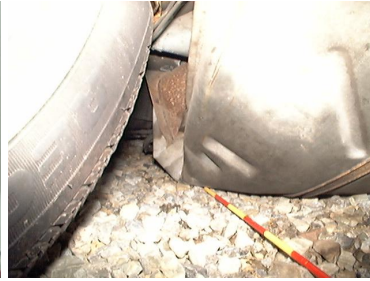
Restrain	None used/avail
AOPS	NO
Airbag Deployment	Not EQUIP/AVAIL
Airbag Deployment - 1 st Seat	Not EQUIP/AVAIL
Airbag Deployment - Oth Seat	Not EQUIP W/ OTH

Injuries

Occupant	1999-8-84-1-1
MAIS	1=Minor
Seat Position	Front left side

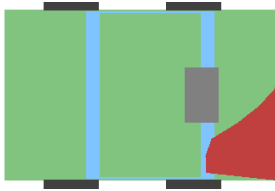
AIS Level	Injury Description	Contacts
1=Minor	Facial skin avulsion, superficial	Windshield
1=Minor	Facial skin abrasion	Windshield
1=Minor	Awake on admission, never unconscious	Windshield
1=Minor	Leg skin contusion (hematoma)	Left apnel

Occupant: 1999-8-84-2-1



Fire Information

Fire Occurrence	No fire
Fire Origin	No fire
Location of Fuel Leakage	Tank
Type of Fuel Tank	Metallic
Fuel Tank Location	Forward of rear axle, centered
Fuel Cap Location	Left side, behind rear axle
Fuel Tank Damage	Deform+seam fail
Fuel Type	Gasoline



Pre-Crash Environment

Traffic Flow	Not DIVIDED
Number of Travel Lanes	FOUR
Roadway Alignment	STRAIGHT
Roadway Profile	DOWNHILL GRADE
Roadway Surface Type	ASPHALT
Roadway Surface Condition	DRY
Light Conditions	DAYLIGHT
Atmospheric Conditions	No ADVERSE COND
Relation to Intersection	INTERSECTION REL
Traffic Control Device	
Police Reported Alcohol Presence	No ALCOHOL
Alcohol Test (< 95 indicates BAC 0.xx)	0

Vehicle Factors

Make-Model	Buick Regal
Year	1988
Class	PASSENGER CAR
Body Type	2DR SEDAN/HT/CPE
Weight	134

Crash Severity

Nr. Quarter Turns	No rollover
Impact Speed	998
Total, Longitudal, and Lateral δV	44 44 8
Est. δV with sequence number	DELTA V CODED 1
CDC	6 B D E W 7
Damage (C1-C6)	103 105 96 57 27 4
Crush (L and D)	144 -24
Object Contacted 1	VEHICLE NO. 1
Object Contacted 2	VEHICLE NO. 3

Pre-Crash Driver Data

Accident Type	22
Pre-event Movement	STOPPED IN LANE
Critical Pre-crash Event	Same DIR-HISPEED
Attempted Avoidance Manuever	No AVOIDANCE
Pre-impact Stability	TRACKING
Pre-impact Location	STAYED IN LANE

NASS Weighting Factor

Weighting factor	99.195024498
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DRIVER Factors

Age	18	Height	158	Weight	59
Gender					FEMALE-NOT PREG
Ejection					No EJECTION
Ejection Area					No EJECTION
Entrapment					Not ENTRAPPED

Rollover Characteristics

Number of Events	4
Rollover Initiation Type	No rollover
Location of Rollover Initiation	No rollover
Rollover Initiation Object Contacted	No rollover
Location on Vehicle where Principal Tripping Force was Applied	No rollover
Direction of Initial Roll	No rollover

Restraint Factors

Restrain	None used/avail
AOPS	YES-RES DET
Airbag Deployment	Not EQUIP/AVAIL
Airbag Deployment - 1 st Seat	Not EQUIP/AVAIL
Airbag Deployment - Oth Seat	Not EQUIP W/ OTH

Injuries

Occupant	1999-8-84-2-1
MAIS	1=Minor
Seat Position	Front left side

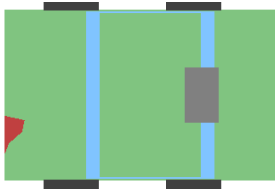
AIS Level	Injury Description	Contacts
1=Minor	Scalp laceration, minor	Left B pillar
1=Minor	Scalp contusion	Left B pillar
1=Minor	Acute cervical spine strain without fracture or dislocation	Seat, back
1=Minor	690402	Head restraint
1=Minor	Leg skin contusion (hematoma)	Steering rim
1=Minor	Leg skin abrasion	Steering rim

Occupant: 1999-8-84-3-1



Fire Information

Fire Occurrence	No fire
Fire Origin	No fire
Location of Fuel Leakage	No fuel leakage
Type of Fuel Tank	Non-metallic
Fuel Tank Location	Behind rear axle, centered
Fuel Cap Location	Left side, behind rear axle
Fuel Tank Damage	No damage
Fuel Type	Gasoline



Pre-Crash Environment

Traffic Flow	Not DIVIDED
Number of Travel Lanes	FOUR
Roadway Alignment	STRAIGHT
Roadway Profile	UPHILL GRADE
Roadway Surface Type	ASPHALT
Roadway Surface Condition	DRY
Light Conditions	DAYLIGHT
Atmospheric Conditions	No ADVERSE COND
Relation to Intersection	INTERSECTION REL
Traffic Control Device	
Police Reported Alcohol Presence	No ALCOHOL
Alcohol Test (< 95 indicates BAC 0.xx)	0

Crash Severity

Nr. Quarter Turns	No rollover
Impact Speed	< 0.5KMPH
Total, Longitudal, and Lateral δV	< 0.5 KMPH < 0.5 KMPH < 0.5 KMPH
Est. δV with sequence number	MODERATE 2
CDC	11 F L E E 2
Damage (C1-C6)	0 0 0 7 26 29
Crush (L and D)	96 150
Object Contacted 1	VEHICLE NO. 2
Object Contacted 2	VEHICLE NO. 4

NASS Weighting Factor

Weighting factor	99.195024498
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Rollover Characteristics

Number of Events	4
Rollover Initiation Type	No rollover
Location of Rollover Initiation	No rollover
Rollover Initiation Object Contacted	No rollover
Location on Vehicle where Principal Tripping Force was Applied	No rollover
Direction of Initial Roll	No rollover

Vehicle Factors

Make-Model	Jeep Cherokee84-
Year	1994
Class	TRUCK
Body Type	COMPACT UTILITY
Weight	161

Pre-Crash Driver Data

Accident Type	98
Pre-event Movement	GOING STRAIGHT
Critical Pre-crash Event	OPP DIR-OVR LEFT
Attempted Avoidance Manuever	BRAKE+STEER RT
Pre-impact Stability	TRACKING
Pre-impact Location	Left TRAVEL LANE

DRIVER Factors

Age	34	Height	168	Weight	54
Gender					FEMALE-NOT PREG
Ejection					No EJECTION
Ejection Area					No EJECTION
Entrapment					Not ENTRAPPED

Restraint Factors

Restrain	Lap and shoulder
AOPS	YES-RES DET
Airbag Deployment	BAG DEPLOYED
Airbag Deployment - 1 st Seat	DR BAG DEPLOYED
Airbag Deployment - Oth Seat	Not EQUIP W/ OTH

Injuries

Occupant	1999-8-84-3-1
MAIS	1=Minor
Seat Position	Front left side

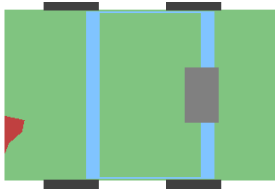
AIS Level	Injury Description	Contacts
1=Minor	Upper extremity skin contusion	Left interior

Occupant: 1999-8-84-3-2



Fire Information

Fire Occurrence	No fire
Fire Origin	No fire
Location of Fuel Leakage	No fuel leakage
Type of Fuel Tank	Non-metallic
Fuel Tank Location	Behind rear axle, centered
Fuel Cap Location	Left side, behind rear axle
Fuel Tank Damage	No damage
Fuel Type	Gasoline



Pre-Crash Environment

Traffic Flow	Not DIVIDED
Number of Travel Lanes	FOUR
Roadway Alignment	STRAIGHT
Roadway Profile	UPHILL GRADE
Roadway Surface Type	ASPHALT
Roadway Surface Condition	DRY
Light Conditions	DAYLIGHT
Atmospheric Conditions	No ADVERSE COND
Relation to Intersection	INTERSECTION REL
Traffic Control Device	
Police Reported Alcohol Presence	No ALCOHOL
Alcohol Test (< 95 indicates BAC 0.xx)	0

Crash Severity

Nr. Quarter Turns	No rollover
Impact Speed	< 0.5KMPH
Total, Longitudal, and Lateral δV	< 0.5 KMPH < 0.5 KMPH < 0.5 KMPH
Est. δV with sequence number	MODERATE 2
CDC	11 F L E E 2
Damage (C1-C6)	0 0 0 7 26 29
Crush (L and D)	96 150
Object Contacted 1	VEHICLE NO. 2
Object Contacted 2	VEHICLE NO. 4

NASS Weighting Factor

Weighting factor	99.195024498
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Rollover Characteristics

Number of Events	4
Rollover Initiation Type	No rollover
Location of Rollover Initiation	No rollover
Rollover Initiation Object Contacted	No rollover
Location on Vehicle where Principal Tripping Force was Applied	No rollover
Direction of Initial Roll	No rollover

Vehicle Factors

Make-Model	Jeep Cherokee84-
Year	1994
Class	TRUCK
Body Type	COMPACT UTILITY
Weight	161

Pre-Crash Driver Data

Accident Type	98
Pre-event Movement	GOING STRAIGHT
Critical Pre-crash Event	OPP DIR-OVR LEFT
Attempted Avoidance Manuever	BRAKE+STEER RT
Pre-impact Stability	TRACKING
Pre-impact Location	Left TRAVEL LANE

PASSENGER Factors

Age	1	Height	0	Weight	14
Gender					FEMALE-NOT PREG
Ejection					No EJECTION
Ejection Area					No EJECTION
Entrapment					Not ENTRAPPED

Restraint Factors

Restrain	Lap w/ch/seat
AOPS	YES-RES DET
Airbag Deployment	Not EQUIP/AVAIL
Airbag Deployment - 1 st Seat	DR BAG DEPLOYED
Airbag Deployment - Oth Seat	Not EQUIP W/ OTH

Injuries

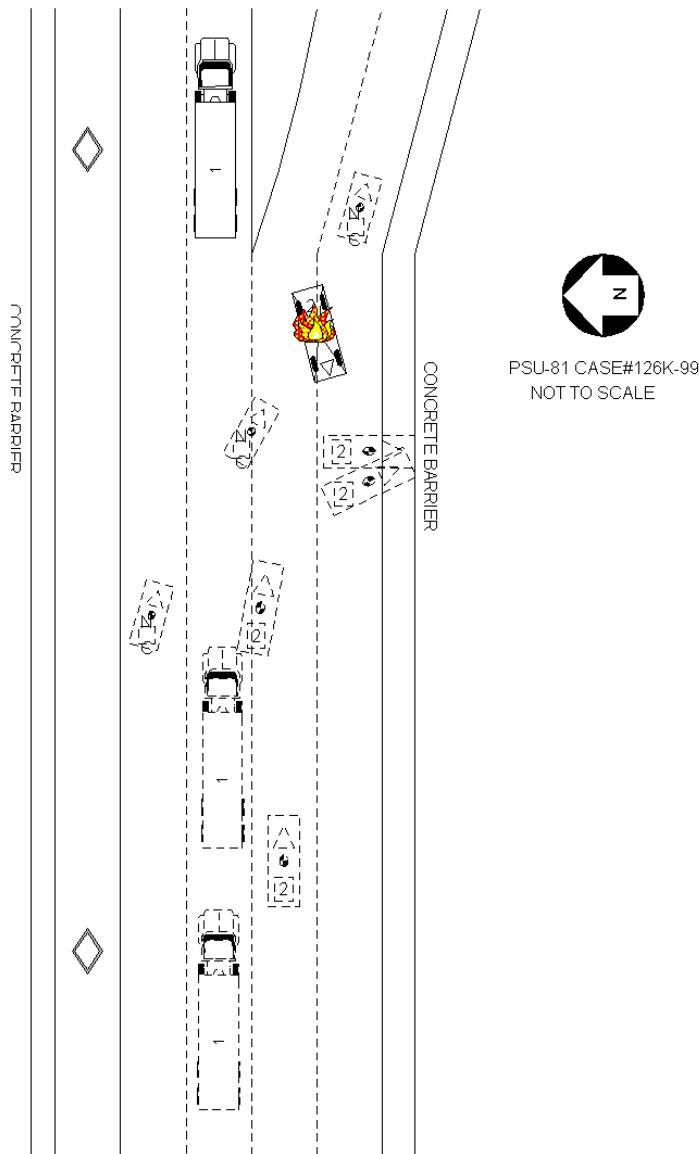
Occupant	1999-8-84-3-2
MAIS	0=None
Seat Position	Second middle

AIS Level	Injury Description	Contacts
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84 Case 1999-81-126

Summary:

VEHICLE 1, A HEAVY TRUCK, WAS HEADED EASTBOUND IN LANE 3 OF A 5 LANE DIVIDED INTERSTATE HIGHWAY. VEHICLE 2, A LIGHT TRUCK, WAS ALSO EASTBOUND IN LANE 2 OF THE SAME HIGHWAY. AN UNKNOWN VEHICLE IN LANE 4 MOVED TO LANE 1, CUTTING ACROSS THE PATH OF VEHICLES 12 CAUSING THEM TO BRAKE SUDDENLY. VEHICLE 2 BEGAN A CLOCKWISE ROTATION AND DRIFTED INTO LANE 3. THE FRONT OF VEHICLE 1 STRUCK THE REAR OF VEHICLE 2 PUSHING VEHICLE 2 TO THE RIGHT ACROSS LANES 12 AND INTO THE CONCRETE BARRIER. THE FRONT OF VEHICLE 2 STRUCK THE CONCRETE BARRIER AND AS VEHICLE 2 BOUNCED OFF THE BARRIER AND CONTINUED ROTATING CLOCKWISE, IT FLIPPED ONTO IT'S TOP AND CAUGHT FIRE. THE DRIVER OF VEHICLE 2 WAS ADMITTED TO A LOCAL HOSPITAL FOR TREATMENT OF INJURIES. VEHICLE 2 WAS TOWED DUE TO DAMAGE. THE HEAVY TRUCK WAS NOT TOWED.



Vehicle	Body type	Make	Model	Year	Occ.#	Age	Occupant's sex	Maximum known occupant ais
2	LARGE PICKUP	Chevrolet	C/K-series Pickup	1994	1	60	MALE	7=Unk. sev.

Occupant: 1999-81-126-2-1



Fire Information

Fire Occurrence	Major fire
Fire Origin	No fire
Location of Fuel Leakage	No fuel tank
Type of Fuel Tank	Metallic
Fuel Tank Location	Forward of rear axle, left side
Fuel Cap Location	Left side, forward rear axle
Fuel Tank Damage	Other damage
Fuel Type	Gasoline



Pre-Crash Environment

Traffic Flow	DVDED/W/BARRIER
Number of Travel Lanes	FIVE
Roadway Alignment	CURVE LEFT
Roadway Profile	DOWNHILL GRADE
Roadway Surface Type	CONCRETE
Roadway Surface Condition	DRY
Light Conditions	DAYLIGHT
Atmospheric Conditions	No ADVERSE COND
Relation to Intersection	INTERCHANGE REL
Traffic Control Device	
Police Reported Alcohol Presence	No ALCOHOL
Alcohol Test (< 95 indicates BAC 0.xx)	0

Crash Severity

Nr. Quarter Turns	2 QUARTER TURNS
Impact Speed	998
Total, Longitudal, and Lateral δV	46 -46 < 0.5 KMPH
Est. δV with sequence number	DELTA V CODED 2
CDC	12 F D E W 3
Damage (C1-C6)	27 28 33 41 54 65
Crush (L and D)	180 1
Object Contacted 1	CONCRETE BARRIER
Object Contacted 2	ROLLOVER-OVERTURN

NASS Weighting Factor

Weighting factor	20.531178532
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Rollover Characteristics

Number of Events	4
Rollover Initiation Type	BOUNCE-OVER
Location of Rollover Initiation	ROADSIDE/MEDIAN
Rollover Initiation Object Contacted	CONCRETE BARRIER
Location on Vehicle where Principal Tripping Force was Applied	END PLANE
Direction of Initial Roll	ROLL LEFT

Vehicle Factors

Make-Model	Chevrolet C/K-series Pickup
Year	1994
Class	TRUCK
Body Type	LARGE PICKUP
Weight	198

Pre-Crash Driver Data

Accident Type	32
Pre-event Movement	NEGOTIATE CURVE
Critical Pre-crash Event	OVER LINE-LEFT
Attempted Avoidance Manuever	BRAKE W/O LOCKUP
Pre-impact Stability	TRACKING
Pre-impact Location	Left TRAVEL LANE

DRIVER Factors

Age	60	Height	180	Weight	84
Gender			MALE		
Ejection			No EJECTION		
Ejection Area			No EJECTION		
Entrapment			Not ENTRAPPED		

Restraint Factors

Restrain	Lap and shoulder
AOPS	NO
Airbag Deployment	Not EQUIP/AVAIL
Airbag Deployment - 1 st Seat	Not EQUIP/AVAIL
Airbag Deployment - Oth Seat	Not EQUIP W/ OTH

Injuries

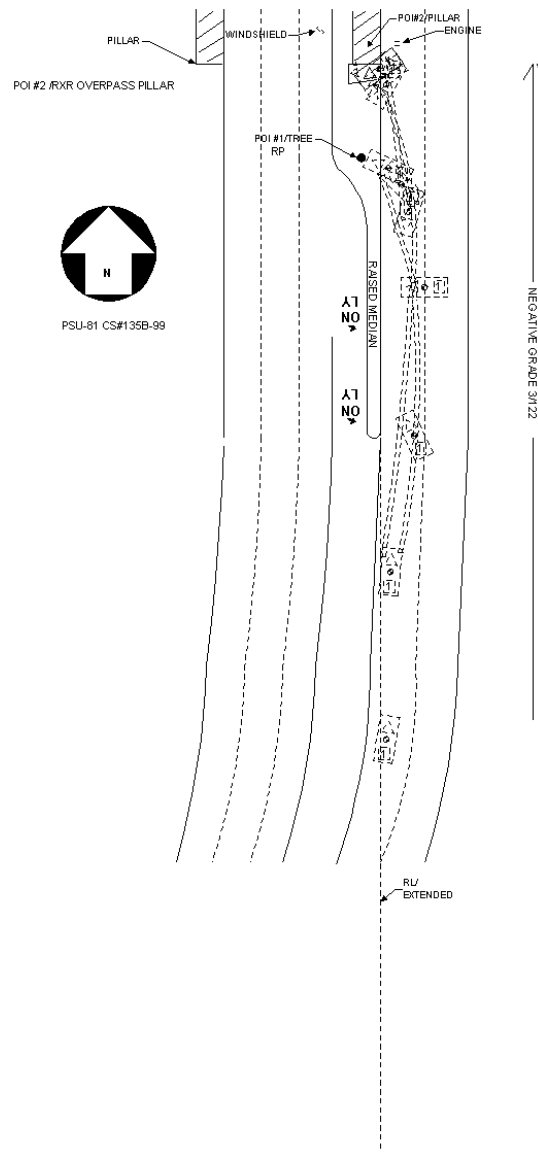
Occupant	1999-81-126-2-1
MAIS	7=Unk. sev.
Seat Position	Front left side

AIS Level	Injury Description	Contacts
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85 Case 1999-81-135

Summary:

VEHICLE #1 WAS TRAVELING NORTHBOUND IN THE INSIDE LANE OF A FIVE LANE, UNDIVIDED, TWO WAY ROADWAY. THE VEHICLE FAILED TO NEGOTIATE A LEFT CURVE, ROTATED COUNTER-CLOCKWISE IN A YAW ACROSS BOTH NORTHBOUND LANES, THEN BACK ACROSS TO THE LEFT, THE VEHICLE LEFT THE ROADWAY, ROAD UP OVER THE CURB ONTO A CENTER MEDIAN, STRUCK A TREE WITH THE LEFT FRONT BUMPER, CONTINUED NORTHBOUND WHERE IT STRUCK A LARGE CONCRETE RXR BRIDGE SUPPORT WITH THE RIGHT SIDE. ON IMPACT THE WINDSHIELD WAS EJECTED INTO THE INSIDE SOUTHBOUND LANE. THE ENGINE WAS EJECTED OUT OF THE REAR OF THE VEHICLE ONTO THE ROADWAY UNDER THE RXR BRIDGE IN THE INSIDE NORTHBOUND LANE. THE VEHICLE CAME TO REST WITH THE RIGHT SIDE AGAINST THE PILLAR FOLDED AROUND THE CORNER EDGE. THE VEHICLE WAS TOWED DUE TO DAMAGE. OCCUPANT #2 WAS FATALLY INJURED.



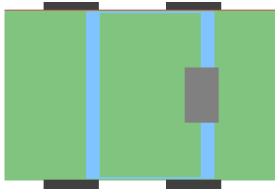
Vehicle	Body type	Make	Model	Year	Occ.#	Age	Occupant's sex	Maximum known occupant ais
1	2DR SEDAN/HT/CPE	Porsche	930	1976	1	25	MALE	2=Moderate
1	2DR SEDAN/HT/CPE	Porsche	930	1976	2	28	MALE	5=Critical

Occupant: 1999-81-135-1-1



Fire Information

Fire Occurrence	No fire
Fire Origin	No fire
Location of Fuel Leakage	Tank
Type of Fuel Tank	Metallic
Fuel Tank Location	Forward of rear axle, centered
Fuel Cap Location	Left side, forward rear axle
Fuel Tank Damage	Deform+seam fail
Fuel Type	Gasoline



Crash Severity

Nr. Quarter Turns	No rollover
Impact Speed	< 0.5KMPH
Total, Longitudal, and Lateral δV	< 0.5 KMPH < 0.5 KMPH < 0.5 KMPH
Est. δV with sequence number	SEVERE 2
CDC	3 R D A W 0
Damage (C1-C6)	0 0 0 0 0 0
Crush (L and D)	0 0
Object Contacted 1	Oth FIXED OBJECT
Object Contacted 2	LARGE TREE

NASS Weighting Factor

Weighting factor	36.601601287
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Rollover Characteristics

Number of Events	2
Rollover Initiation Type	No rollover
Location of Rollover Initiation	No rollover
Rollover Initiation Object Contacted	No rollover
Location on Vehicle where Principal Tripping Force was Applied	No rollover
Direction of Initial Roll	No rollover

Pre-Crash Environment

Traffic Flow	DVDED/NO BARRIER
Number of Travel Lanes	FIVE
Roadway Alignment	CURVE LEFT
Roadway Profile	DOWNHILL GRADE
Roadway Surface Type	ASPHALT
Roadway Surface Condition	DRY
Light Conditions	DARK/LIGHTED
Atmospheric Conditions	No ADVERSE COND
Relation to Intersection	NONINTER/NONJUNC
Traffic Control Device	
Police Reported Alcohol Presence	ALCOHOL PRESENT
Alcohol Test (< 95 indicates BAC 0.xx)	10

Vehicle Factors

Make-Model	Porsche 930
Year	1976
Class	PASSENGER CAR
Body Type	2DR SEDAN/HT/CPE
Weight	120

Pre-Crash Driver Data

Accident Type	7
Pre-event Movement	NEGOTIATE CURVE
Critical Pre-crash Event	TRAVEL TOO FAST
Attempted Avoidance Manuever	BRAKE W/ LOCKUP
Pre-impact Stability	LAT SKID-CTR CLK
Pre-impact Location	DEPARTED ROADWAY

DRIVER Factors

Age	25	Height	178	Weight	90
Gender			MALE		
Ejection			No EJECTION		
Ejection Area			No EJECTION		
Entrapment			Not ENTRAPPED		

Restraint Factors

Restrain	None used/avail
AOPS	NO
Airbag Deployment	Not EQUIP/AVAIL
Airbag Deployment - 1 st Seat	Not EQUIP/AVAIL
Airbag Deployment - Oth Seat	Not EQUIP W/ OTH

Injuries

Occupant	1999-81-135-1-1
MAIS	2=Moderate
Seat Position	Front left side

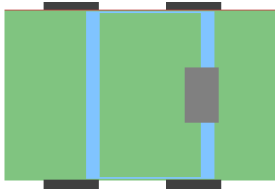
AIS Level	Injury Description	Contacts
1=Minor	Scalp contusion	Roof
2=Moderate	Awake on admission, unconscious <1 hour	Roof

Occupant: 1999-81-135-1-2



Fire Information

Fire Occurrence	No fire
Fire Origin	No fire
Location of Fuel Leakage	Tank
Type of Fuel Tank	Metallic
Fuel Tank Location	Forward of rear axle, centered
Fuel Cap Location	Left side, forward rear axle
Fuel Tank Damage	Deform+seam fail
Fuel Type	Gasoline



Pre-Crash Environment

Traffic Flow	DVDED/NO BARRIER
Number of Travel Lanes	FIVE
Roadway Alignment	CURVE LEFT
Roadway Profile	DOWNHILL GRADE
Roadway Surface Type	ASPHALT
Roadway Surface Condition	DRY
Light Conditions	DARK/LIGHTED
Atmospheric Conditions	No ADVERSE COND
Relation to Intersection	NONINTER/NONJUNC
Traffic Control Device	
Police Reported Alcohol Presence	ALCOHOL PRESENT
Alcohol Test (< 95 indicates BAC 0.xx)	10

Vehicle Factors

Make-Model	Porsche 930
Year	1976
Class	PASSENGER CAR
Body Type	2DR SEDAN/HT/CPE
Weight	120

Crash Severity

Nr. Quarter Turns	No rollover
Impact Speed	< 0.5KMPH
Total, Longitudal, and Lateral δV	< 0.5 KMPH < 0.5 KMPH < 0.5 KMPH
Est. δV with sequence number	SEVERE 2
CDC	3 R D A W 0
Damage (C1-C6)	0 0 0 0 0 0
Crush (L and D)	0 0
Object Contacted 1	Oth FIXED OBJECT
Object Contacted 2	LARGE TREE

Pre-Crash Driver Data

Accident Type	7
Pre-event Movement	NEGOTIATE CURVE
Critical Pre-crash Event	TRAVEL TOO FAST
Attempted Avoidance Manuever	BRAKE W/ LOCKUP
Pre-impact Stability	LAT SKID-CTR CLK
Pre-impact Location	DEPARTED ROADWAY

NASS Weighting Factor

Weighting factor	36.601601287
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PASSENGER Factors

Rollover Characteristics		Age	28	Height	183	Weight	103
Number of Events	2	Gender	MALE				
Rollover Initiation Type	No rollover	Ejection	No EJECTION				
Location of Rollover Initiation	No rollover	Ejection Area	No EJECTION				
Rollover Initiation Object Contacted	No rollover	Entrapment	Not ENTRAPPED				
Location on Vehicle where Principal Tripping Force was Applied	No rollover						
Direction of Initial Roll	No rollover						

Restraint Factors

Restrain	None used/avail
AOPS	NO
Airbag Deployment	Not EQUIP/AVAIL
Airbag Deployment - 1 st Seat	Not EQUIP/AVAIL
Airbag Deployment - Oth Seat	Not EQUIP W/ OTH

Injuries

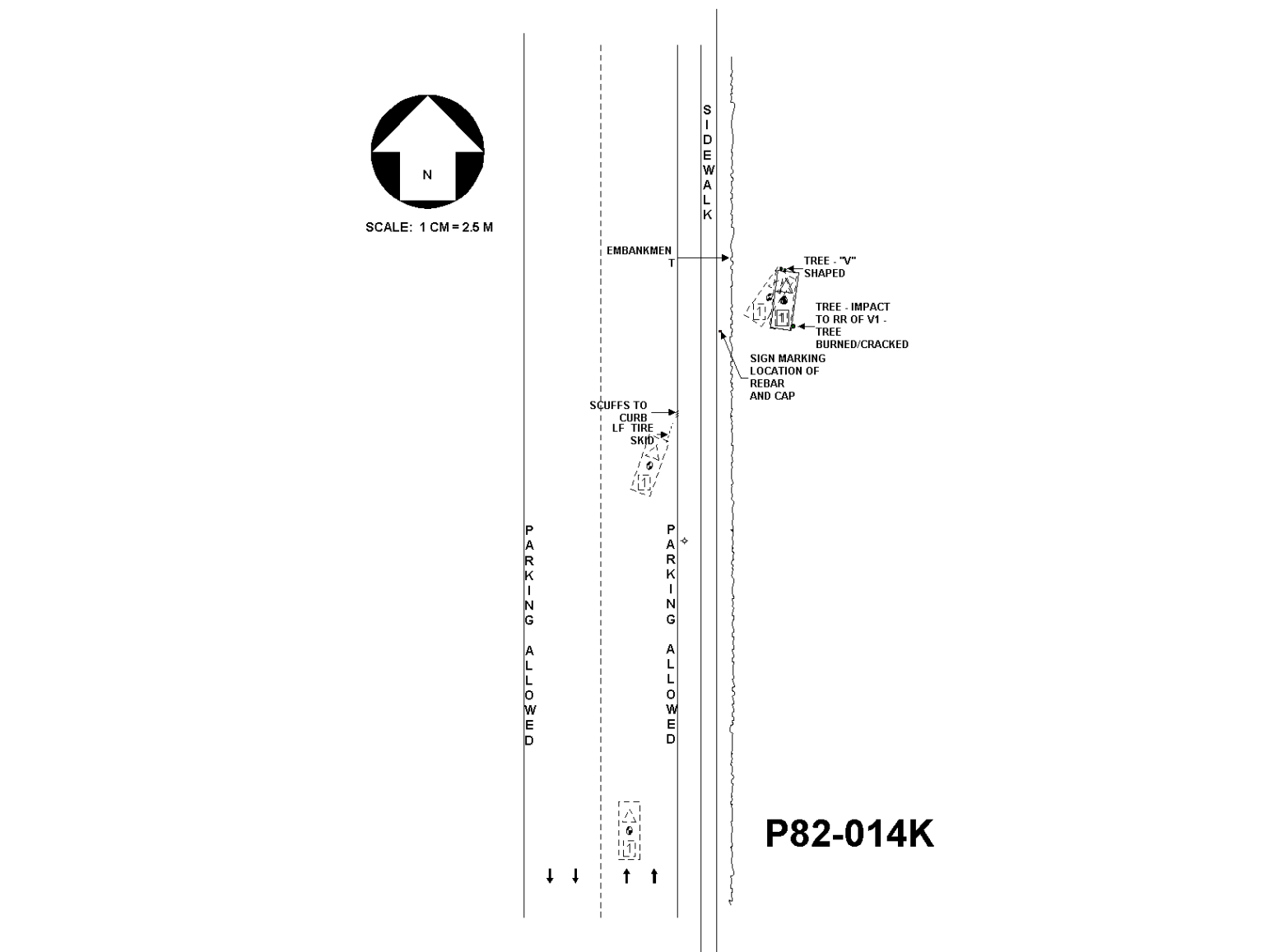
Occupant	1999-81-135-1-2
MAIS	5=Critical
Seat Position	Front right side

AIS Level	Injury Description	Contacts
5=Critical	Unconscious on admission, inappropriate movements	Right panel
3=Serious	Cerebral subarachnoid hemorrhage	Right panel
3=Serious	Cerebral subarachnoid hemorrhage	Right panel
3=Serious	Cerebral contusions, multiple, bilateral, small	Right panel
4=Severe	Lung laceration, unilateral, with hemomediastinum	Seat, back
3=Serious	Rib fractures (=>1 rib), open/displaced/comminuted	Seat, back
3=Serious	Hepatic laceration, moderate (>3cms deep, EBL>202=Moderate	Kidney laceration, minor (<1cm, no urinary extravasation)
Right interior		
3=Serious	Symphysis pubis separation or fracture	Right panel
3=Serious	Sacroiliac fracture	Seat, back
2=Moderate	Pelvic fracture, closed	Right panel
2=Moderate	Scapular fracture	Seat, back
1=Minor	Facial skin abrasion	Right panel
1=Minor	Facial skin laceration, minor	Right panel
1=Minor	297402	Right panel
1=Minor	Upper extremity skin abrasion	Right panel
1=Minor	Upper extremity skin contusion	Right panel
1=Minor	Abdominal skin contusion	Right panel
1=Minor	Scrotal contusion (hematoma)	Right panel
1=Minor	Penile contusion (hematoma)	Right panel
1=Minor	Leg skin contusion (hematoma)	Seat, back
1=Minor	Leg skin abrasion	Right panel
1=Minor	Leg skin contusion (hematoma)	Right panel

86 Case 1999-82-14

Summary:

Vehicle #1 was traveling north in lane two of a four lane, two way, undivided roadway. The driver of V1 swerved to his right to avoid a dog that had run into to the street. V1 traveled over the east curb, over a steep embankment and the FRONT of V1 impacted a tree. V1 rotated slightly counterclockwise and the RIGHT rear of V1 impacted another tree. V1 burst into flames, but it is unknown if the fire started after the first or second impact. The source/cause of the fire could not be determined due to the extent of the damage to V1 from the fire. It did not start in the engine compartment as that was the only portion of the vehicle which was undamaged by the flames. The entire passenger compartment was gutted by the fire. The hot spot was on the left side of the vehicle, but could not be narrowed down to a more specific location. Both airbags in V1 deployed during the accident. The driver of V1 was burned in the fire; most of the burns were to the left side of his body. He was transported to an area trauma center where he was hospitalized for 27 days. V1 was towed disabled.



Vehicle	Body type	Make	Model	Year	Occ.#	Age	Occupant's sex	Maximum known occupant ais
1	MINIVAN	Mitsubishi	Expo Wagon	1995	1	55	MALE	5=Critical

Occupant: 1999-82-14-1-1



Fire Information

Fire Occurence	Major fire
Fire Origin	No fire
Location of Fuel Leakage	No fuel tank
Type of Fuel Tank	No fuel Tank
Fuel Tank Location	No fuel tank
Fuel Cap Location	Right side, behind rear axle
Fuel Tank Damage	No fuel tank
Fuel Type	Gasoline



Crash Severity

Nr. Quarter Turns	No rollover
Impact Speed	< 0.5KMPH
Total, Longitudal, and Lateral δV	< 0.5 KMPH < 0.5 KMPH < 0.5 KMPH
Est. δV with sequence number	DELTA V CODED 1
CDC	12 F Y E W 2
Damage (C1-C6)	25 36 28 15 0 0
Crush (L and D)	140 -17
Object Contacted 1	LARGE TREE
Object Contacted 2	LARGE TREE

NASS Weighting Factor

Weighting factor	5.845900628
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Rollover Characteristics

Number of Events	3
Rollover Initiation Type	No rollover
Location of Rollover Initiation	No rollover
Rollover Initiation Object	No rollover
Contacted	
Location on Vehicle where Principal Tripping Force was Applied	No rollover
Direction of Initial Roll	No rollover

Pre-Crash Environment

Traffic Flow	Not DIVIDED
Number of Travel Lanes	FOUR
Roadway Alignment	STRAIGHT
Roadway Profile	DOWNHILL GRADE
Roadway Surface Type	ASPHALT
Roadway Surface Condition	DRY
Light Conditions	DAYLIGHT
Atmospheric Conditions	No ADVERSE COND
Relation to Intersection	NONINTER/NONJUNC
Traffic Control Device	
Police Reported Alcohol Presence	No ALCOHOL
Alcohol Test (< 95 indicates BAC 0.xx)	0

Vehicle Factors

Make-Model	Mitsubishi Expo Wagon
Year	1995
Class	PASSENGER CAR
Body Type	MINIVAN
Weight	142

Pre-Crash Driver Data

Accident Type	3
Pre-event Movement	GOING STRAIGHT
Critical Pre-crash Event	ANIMAL IN ROAD
Attempted Avoidance Maneuver	BRAKE+STEER RT
Pre-impact Stability	LONGITUDINAL SKID
Pre-impact Location	DEPARTED ROADWAY

DRIVER Factors

Age	55	Height	180	Weight	98
Gender			MALE		
Ejection			No EJECTION		
Ejection Area			No EJECTION		
Entrapment			Not ENTRAPPED		

Restraint Factors

Restrain	Lap and shoulder
AOPS	YES-RES DET
Airbag Deployment	BAG DEPLOYED
Airbag Deployment - 1 st Seat	DR
PAS BAG DEPLY	
Airbag Deployment - Oth Seat	Not EQUIP W/ OTH

Injuries

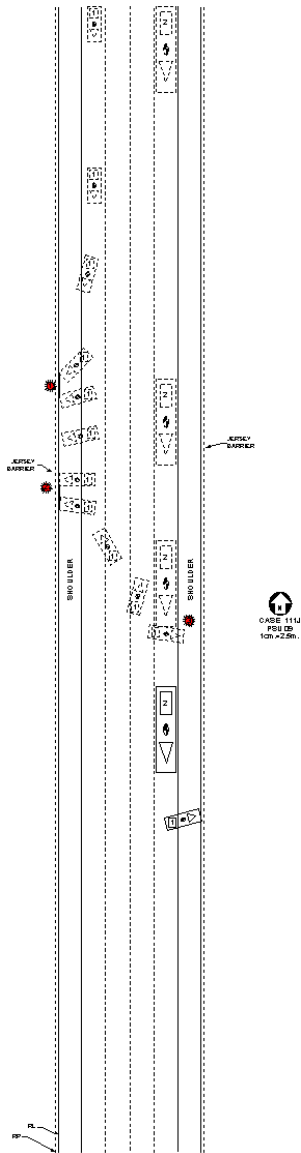
Occupant	1999-82-14-1-1
MAIS	5=Critical
Seat Position	Front left side

AIS Level	Injury Description	Contacts
5=Critical	Burn, 2nd or 3rd degree, 301=Minor	Leg skin laceration, minor
Knee bolster		

87 Case 1999-9-111

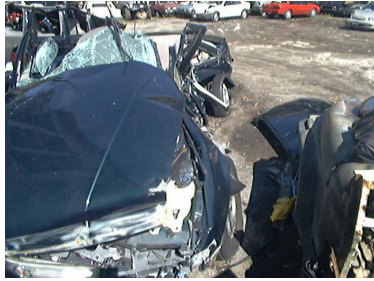
Summary:

Vehicle one, a 1996 Pontiac Grand Prix, was travelling southbound in lane one of four lane divided highway. Vehicle two, a tractor pulling one trailer, was travelling southbound in lane four of the same roadway. The driver of vehicle one lost control of the vehicle on the wet roadway. Vehicle one began to rotate clockwise and then struck a jersey barrier with its front end twice. Vehicle one continued to spin clockwise as it moved across the highway. When vehicle one entered lane four it was struck on the left side by vehicle two. Both vehicles were towed due to damage and the driver and sole occupant of vehicle one was transported to the hospital with incapacitating injuries.



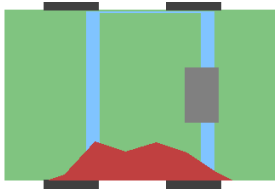
Vehicle	Body type	Make	Model	Year	Occ.#	Age	Occupant's sex	Maximum known occupant ais
1	4-DR SEDAN/HDTOP	Pontiac	Grand Prix	1996	1	27	FEMALE-NOT PREG	3=Serious

Occupant: 1999-9-111-1-1



Fire Information

Fire Occurrence	No fire
Fire Origin	No fire
Location of Fuel Leakage	Tank
Type of Fuel Tank	Metallic
Fuel Tank Location	Forward of rear axle, centered
Fuel Cap Location	Left side, behind rear axle
Fuel Tank Damage	Deform+seam fail
Fuel Type	Gasoline



Pre-Crash Environment

Traffic Flow	DVDED/W/BARRIER
Number of Travel Lanes	FOUR
Roadway Alignment	STRAIGHT
Roadway Profile	LEVEL
Roadway Surface Type	ASPHALT
Roadway Surface Condition	WET
Light Conditions	DAYLIGHT
Atmospheric Conditions	RAIN
Relation to Intersection	NONINTER/NONJUNC
Traffic Control Device	
Police Reported Alcohol Presence	No ALCOHOL
Alcohol Test (< 95 indicates BAC 0.xx)	0

Crash Severity

Nr. Quarter Turns	No rollover
Impact Speed	< 0.5KMPH
Total, Longitudal, and Lateral δV	< 0.5 KMPH < 0.5 KMPH < 0.5 KMPH
Est. δV with sequence number	SEVERE 3
CDC	89 L P A W 5
Damage (C1-C6)	8 57 42 56 40 11
Crush (L and D)	270 -9
Object Contacted 1	VEHICLE NO. 2
Object Contacted 2	CONCRETE BARRIER

NASS Weighting Factor

Weighting factor	19.807179378
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Rollover Characteristics

Number of Events	3
Rollover Initiation Type	No rollover
Location of Rollover Initiation	No rollover
Rollover Initiation Object Contacted	No rollover
Location on Vehicle where Principal Tripping Force was Applied	No rollover
Direction of Initial Roll	No rollover

Vehicle Factors

Make-Model	Pontiac Grand Prix
Year	1996
Class	PASSENGER CAR
Body Type	4-DR SEDAN/HDTOP
Weight	152

Pre-Crash Driver Data

Accident Type	2
Pre-event Movement	GOING STRAIGHT
Critical Pre-crash Event	TRAVEL TOO FAST
Attempted Avoidance Manuever	No DRIVER
Pre-impact Stability	LATERAL SKID-CLK
Pre-impact Location	DEPARTED ROADWAY

DRIVER Factors

Age	27	Height	175	Weight	68
Gender					FEMALE-NOT PREG
Ejection					No EJECTION
Ejection Area					No EJECTION
Entrapment					ENTRAPPED

Restraint Factors

Restrain	Lap and shoulder
AOPS	YES-RES DET
Airbag Deployment	BAG DEPLOYED
Airbag Deployment - 1 st Seat	DR
PAS BAG DEPLY	
Airbag Deployment - Oth Seat	Not EQUIP W/ OTH

Injuries

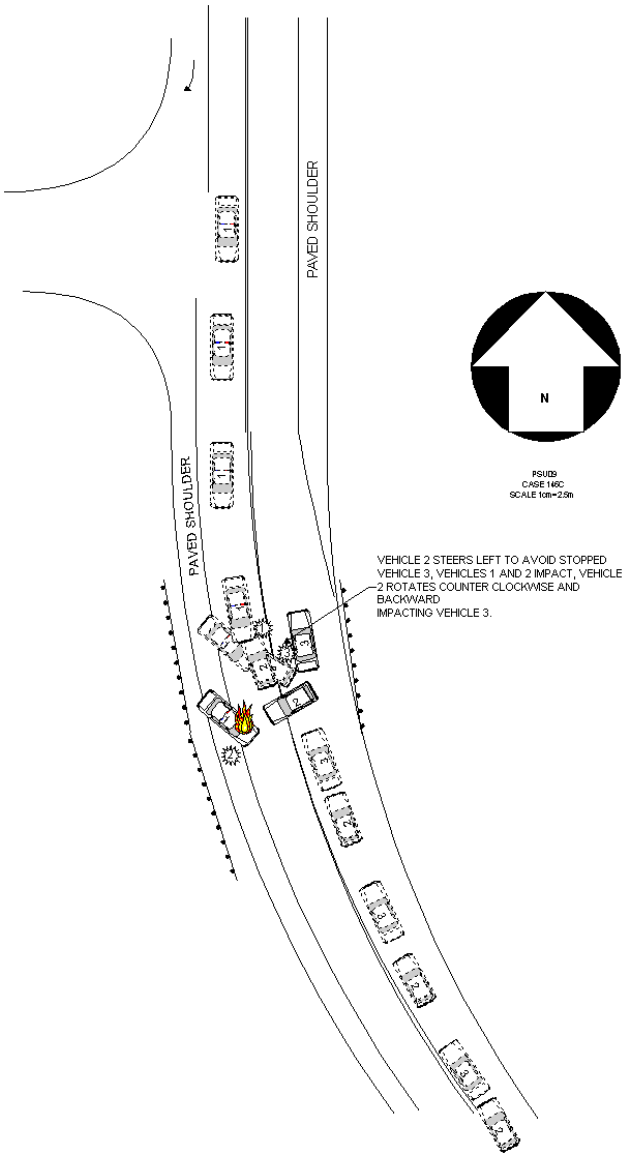
Occupant	1999-9-111-1-1
MAIS	3=Serious
Seat Position	Front left side

AIS Level	Injury Description	Contacts
1=Minor	Leg skin avulsion, superficial (<100cms2)	Left hardware
2=Moderate	Clavicle fracture	Seat, back
2=Moderate	Clavicle fracture	Left interior
1=Minor	Scalp laceration, minor	Left B pillar
1=Minor	Scalp laceration, minor	Left B pillar
1=Minor	Thoracic skin contusion	Air bag-DR side
3=Serious	2-3 rib fractures with stable chest and hemo-/pneumothorax	Transmiss lever
1=Minor	Facial skin laceration, minor	Flying glass
1=Minor	297602	Flying glass
1=Minor	Upper extremity skin abrasion	Air bag-DR side
2=Moderate	Pelvic fracture, closed	Left hardware
2=Moderate	Pelvic fracture, closed	Left hardware
2=Moderate	Pelvic fracture, closed	Left hardware
3=Serious	Femoral shaft fracture	Left hardware

88 Case 1999-9-146

Summary:

Vehicle 1, a 1998 Chevrolet Lumina Police vehicle, was traveling southbound on a curved two lane dry roadway. Vehicles 2 and 3, a 1996 Volkswagon Jetta and a 1990 Toyota Camry respectively were traveling northbound on the same roadway. Vehicle 3 stopped in the roadway to yeild the right of way to vehicle 1 (a police vehicle in response mode). Vehicle 2 in attempt to avoid a collision with vehicle 3 crossed over the center line and it's front plane struck the front plane of vehicle 1. Vehicle 2 then rebounded into vehicle 3, vehicle 2's back plane contacting the left plane of vehicle 3. Upon impact with vehicle 2 vehicle 1 experienced a engine compartment fire that ultimately communicated to the interior of the vehicle. Both vehicle 1 and 2 were towed due to damage, vehicle 3 was not towed. The driver of vehicle 1 was transported, treated and released from a local hospital with listed incapacitating injuries. The driver of vehicle 2 was not injured, the driver of vehicle 3 was listed as being possibly injured but not treated. .



Vehicle	Body type	Make	Model	Year	Occ.#	Age	Occupant's sex	Maximum known occupant ais
1	4-DR SEDAN/HDTOP	Chevrolet	Lumina	1998	1	37	MALE	2=Moderate
2	3DR/2DR HATCHBAK	VW	Golf III	1996	1	20	MALE	1=Minor

Occupant: 1999-9-146-1-1



Fire Information

Fire Occurrence	Major fire
Fire Origin	Engine compart
Location of Fuel Leakage	No fuel leakage
Type of Fuel Tank	Metallic
Fuel Tank Location	Forward of rear axle, centered
Fuel Cap Location	Left side, behind rear axle
Fuel Tank Damage	No damage
Fuel Type	Gasoline



Pre-Crash Environment

Traffic Flow	Not DIVIDED
Number of Travel Lanes	TWO
Roadway Alignment	CURVE LEFT
Roadway Profile	LEVEL
Roadway Surface Type	ASPHALT
Roadway Surface Condition	DRY
Light Conditions	DAYLIGHT
Atmospheric Conditions	No ADVERSE COND
Relation to Intersection	NONINTER/NONJUNC
Traffic Control Device	
Police Reported	Alcohol
Presence	No ALCOHOL
Alcohol Test (< 95 indicates	0
BAC 0.xx)	

Crash Severity

Nr. Quarter Turns	No rollover
Impact Speed	998
Total, Longitudal, and Lateral δV	29 -28 5
Est. δV with sequence number	DELTA V CODED 1
CDC	12 F Y E W 3
Damage (C1-C6)	52 50 36 22 7 0
Crush (L and D)	160 -27
Object Contacted 1	VEHICLE NO. 2
Object Contacted 2	0

NASS Weighting Factor

Weighting factor	27.342962252
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Rollover Characteristics

Number of Events	3
Rollover Initiation Type	No rollover
Location of Rollover Initiation	No rollover
Rollover Initiation Object Contacted	No rollover
Location on Vehicle where Principal Tripping Force was Applied	No rollover
Direction of Initial Roll	No rollover

Vehicle Factors

Make-Model	Chevrolet Lumina
Year	1998
Class	PASSENGER CAR
Body Type	4-DR SEDAN/HDTOP
Weight	150

Pre-Crash Driver Data

Accident Type	59
Pre-event Movement	NEGOTIATE CURVE
Critical Pre-crash Event	OPP DIR-OVR LEFT
Attempted Avoidance Maneuver	No AVOIDANCE
Pre-impact Stability	TRACKING
Pre-impact Location	STAYED IN LANE

DRIVER Factors

Age	37	Height	178	Weight	93
Gender			MALE		
Ejection			No EJECTION		
Ejection Area			No EJECTION		
Entrapment			Not ENTRAPPED		

Restraint Factors

Restrain	Lap and shoulder
AOPS	YES-RES DET
Airbag Deployment	BAG DEPLOYED
Airbag Deployment - 1 st Seat	DR
PAS BAG DEPLY	
Airbag Deployment - Oth Seat	Not EQUIP W/ OTH

Injuries

Occupant	1999-9-146-1-1
MAIS	2=Moderate
Seat Position	Front left side

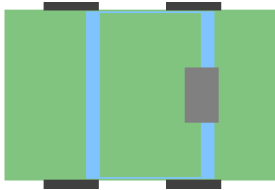
AIS Level	Injury Description	Contacts
2=Moderate	Metatarsal or tarsal fracture	Foot controls
1=Minor	Upper extremity skin abrasion	Unknown SOURCE

Occupant: 1999-9-146-2-1



Fire Information

Fire Occurrence	No data
Fire Origin	No data
Location of Fuel Leakage	No data
Type of Fuel Tank	No data
Fuel Tank Location	No data
Fuel Cap Location	No data
Fuel Tank Damage	No data
Fuel Type	No data



Crash Severity

Nr. Quarter Turns	No rollover
Impact Speed	998
Total, Longitudal, and Lateral δV	41 -41 < 0.5 KMPH
Est. δV with sequence number	DELTA V CODED 1
CDC	No data No data No data No data
Damage (C1-C6)	No data No data No data No data
Crush (L and D)	No data No data
Object Contacted 1	No data
Object Contacted 2	No data

NASS Weighting Factor

Weighting factor	27.342962252
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Rollover Characteristics

Number of Events	3
Rollover Initiation Type	No rollover
Location of Rollover Initiation	No rollover
Rollover Initiation Object	No rollover
Contacted	
Location on Vehicle where Principal Tripping Force was Applied	No rollover
Direction of Initial Roll	No rollover

Pre-Crash Environment

Traffic Flow	Not DIVIDED
Number of Travel Lanes	TWO
Roadway Alignment	CURVE RIGHT
Roadway Profile	LEVEL
Roadway Surface Type	ASPHALT
Roadway Surface Condition	DRY
Light Conditions	DAYLIGHT
Atmospheric Conditions	No ADVERSE COND
Relation to Intersection	NONINTER/NONJUNC
Traffic Control Device	
Police Reported Alcohol Presence	No ALCOHOL
Alcohol Test (< 95 indicates BAC 0.xx)	0

Vehicle Factors

Make-Model	VW Golf III
Year	1996
Class	PASSENGER CAR
Body Type	3DR/2DR HATCHBAK
Weight	114

Pre-Crash Driver Data

Accident Type	58
Pre-event Movement	NEGOTIATE CURVE
Critical Pre-crash Event	STOPPED
Attempted Avoidance Maneuver	BRAKE UNK LOCKUP
Pre-impact Stability	TRACKING
Pre-impact Location	Left TRAVEL LANE

DRIVER Factors

Age	20	Height	170	Weight	73
Gender			MALE		
Ejection			No EJECTION		
Ejection Area			No EJECTION		
Entrapment			Not ENTRAPPED		

Restraint Factors

Restrain		Lap and shoulder
AOPS		YES-RES DET
Airbag Deployment		BAG DEPLOYED
Airbag Deployment - 1 st Seat		DR
PAS BAG DEPLY		
Airbag Deployment - Oth Seat		Not EQUIP W/ OTH

Injuries

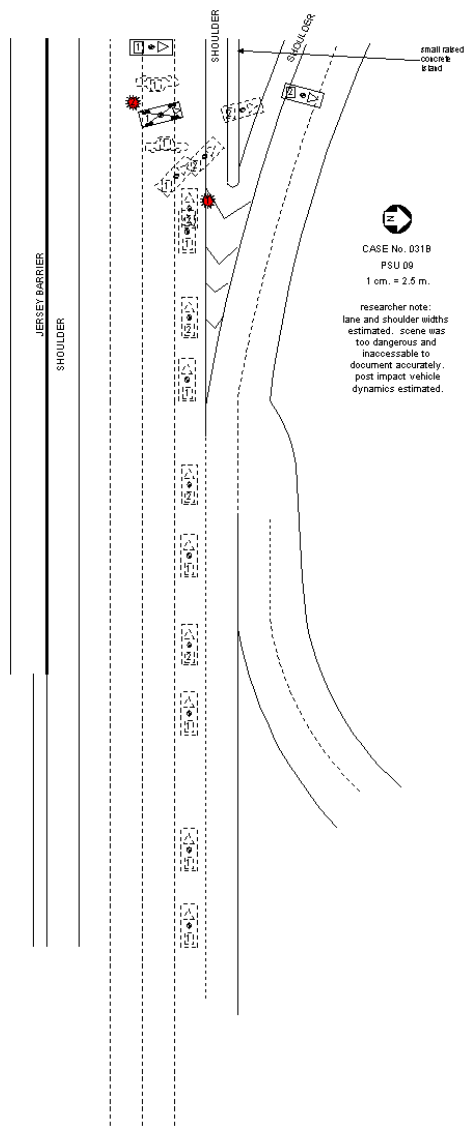
Occupant	1999-9-146-2-1
MAIS	1=Minor
Seat Position	Front left side

AIS Level	Injury Description	Contacts
1=Minor	Facial skin abrasion	Air bag-DR side
1=Minor	Facial skin abrasion	Air bag-DR side
1=Minor	Facial skin abrasion	Air bag-DR side
1=Minor	Upper extremity skin abrasion	Belt webb/buckle
1=Minor	Thoracic skin abrasion	Belt webb/buckle
1=Minor	Thoracic skin abrasion	Belt webb/buckle
1=Minor	Upper extremity skin abrasion	Air bag-DR side

89 Case 1999-9-31

Summary:

Vehicle 1 (1994 Ford Explorer) was traveling west on a six lane highway(at an interchange) in lane number three. Vehicle two(1994 Geo Prizm) was traveling in the same direction and in the same lane. For unknown reasons, vehicle one strikes the back plane of vehicle two with it's front plane. Vehicle one rides up and over top of vehicle two. Vehicle one starts to rollover, left side leading. Vehicle one rolls 1 complete turn and comes to rest on it's wheels facing north. Vehicle two loses control and comes to rest in lane number two facing north. Both vehicles are towed due to damage. The driver and sole occupant of vehicle one is ejected and killed. The driver and sole occupant of vehicle two is transported to a medical facility with incapacitating injuries. Researcher note: Vehicle two may have been backing or up in order to gain access to an interchange off ramp. However, there is conflicting eyewitness statements as to vehicle two's pre-event movement. Also, the post impact vehicle dynamics are estimated due to the inaccessability of the crash scene and it's scene evidence.



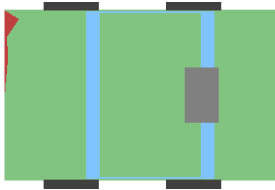
Vehicle	Body type	Make	Model	Year	Occ. Age	Occupant's sex	Maximum known occupant ais
1	COMPACT UTILITY	Ford	Bronco II	1994	51	FEMALE-NOT PREG	5=Critical
2	4-DR SEDAN/HDTOP	Chevrolet	Nova/Geo Prizm	1994	36	FEMALE-NOT PREG	4=Severe

Occupant: 1999-9-31-1-1



Fire Information

Fire Occurrence	No fire
Fire Origin	No fire
Location of Fuel Leakage	No fuel leakage
Type of Fuel Tank	Metallic
Fuel Tank Location	Forward of rear axle, left side
Fuel Cap Location	Left side, behind rear axle
Fuel Tank Damage	No damage
Fuel Type	Gasoline



Pre-Crash Environment

Traffic Flow	DVDED/W/BARRIER
Number of Travel Lanes	SIX
Roadway Alignment	STRAIGHT
Roadway Profile	LEVEL
Roadway Surface Type	CONCRETE
Roadway Surface Condition	DRY
Light Conditions	DARK/LIGHTED
Atmospheric Conditions	No ADVERSE COND
Relation to Intersection	INTERCHANGE REL
Traffic Control Device	
Police Reported Alcohol Presence	No ALCOHOL
Alcohol Test (< 95 indicates BAC 0.xx)	0

Crash Severity

Nr. Quarter Turns	4 QUARTER TURNS
Impact Speed	< 0.5KMPH
Total, Longitudal, and Lateral δV	< 0.5 KMPH < 0.5 KMPH < 0.5 KMPH
Est. δV with sequence number	MODERATE 1
CDC	12 F Z E W 1
Damage (C1-C6)	0 0 3 6 3 20
Crush (L and D)	160 33
Object Contacted 1	VEHICLE NO. 2
Object Contacted 2	ROLLOVER-OVERTURN

NASS Weighting Factor

Weighting factor	22.518451138
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Rollover Characteristics

Number of Events	2
Rollover Initiation Type	COLLISION W/VEH
Location of Rollover Initiation	ON ROADWAY
Rollover Initiation Object Contacted	VEHICLE NO. 2
Location on Vehicle where Principal Tripping Force was Applied	END PLANE
Direction of Initial Roll	ROLL LEFT

Vehicle Factors

Make-Model	Ford Bronco II
Year	1994
Class	PASSENGER CAR
Body Type	COMPACT UTILITY
Weight	184

Pre-Crash Driver Data

Accident Type	33
Pre-event Movement	GOING STRAIGHT
Critical Pre-crash Event	Unk DIR OTH VEH
Attempted Avoidance Manuever	No DRIVER
Pre-impact Stability	No DRIVER
Pre-impact Location	STAYED IN LANE

DRIVER Factors

Age	51	Height	163	Weight	82
Gender					FEMALE-NOT PREG
Ejection					COMPLETE EJECT
Ejection Area					Right FRONT
Entrapment					Not ENTRAPPED

Restraint Factors

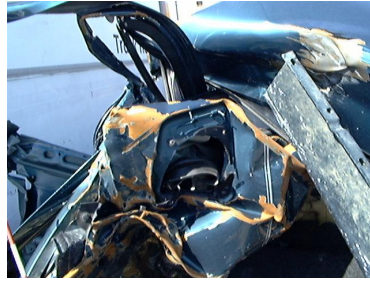
Restrain	None used/avail
AOPS	NO
Airbag Deployment	Not EQUIP/AVAIL
Airbag Deployment - 1 st Seat	Not EQUIP/AVAIL
Airbag Deployment - Oth Seat	Not EQUIP W/ OTH

Injuries

Occupant	1999-9-31-1-1
MAIS	5=Critical
Seat Position	Front left side

AIS Level	Injury Description	Contacts
1=Minor	Facial skin abrasion	Ground
1=Minor	Facial skin abrasion	Ground
1=Minor	Facial skin laceration, minor	Ground
1=Minor	Scalp contusion	Ground
2=Moderate	Skull fracture, vault, NFS	Ground
3=Serious	Basilar skull fracture, NFS	Ground
3=Serious	Cerebral subarachnoid hemorrhage	Ground
3=Serious	Cerebral subarachnoid hemorrhage	Ground
3=Serious	Cerebellar subarachnoid hemorrhage	Ground
5=Critical	Brain stem hemorrhage	Ground
4=Severe	Cerebral laceration	Ground
4=Severe	Cerebral laceration	Ground
4=Severe	Cerebral intraventricular hemorrhage	Ground
4=Severe	Cerebral subdural hematoma, small (<50ccs)	Ground
1=Minor	Nose fracture NFS	Ground
1=Minor	Leg skin abrasion	Right interior
3=Serious	Symphysis pubis separation or fracture	Ground
3=Serious	Sacroiliac fracture	Ground
2=Moderate	Bladder laceration NFS	Ground
2=Moderate	Hepatic laceration, minor (<3cms deep, EBL<202=Moderate)	Splenic laceration, minor (tear<3cms deep, no major vessel)
Ground		
1=Minor	Upper extremity skin abrasion	Ground
1=Minor	Upper extremity skin contusion	Steering rim
2=Moderate	Ulnar fracture NFS	Steering rim
1=Minor	Upper extremity skin abrasion	Ground
1=Minor	Leg skin abrasion	Left apnel
1=Minor	Leg skin laceration, minor	Left apnel

Occupant: 1999-9-31-2-1



Fire Information

Fire Occurrence	No fire
Fire Origin	No fire
Location of Fuel Leakage	Cap
Type of Fuel Tank	Metallic
Fuel Tank Location	Forward of rear axle, centered
Fuel Cap Location	Left side, behind rear axle
Fuel Tank Damage	Deformed
Fuel Type	Gasoline



Pre-Crash Environment

Traffic Flow	DVDED/W/BARRIER
Number of Travel Lanes	SIX
Roadway Alignment	STRAIGHT
Roadway Profile	LEVEL
Roadway Surface Type	CONCRETE
Roadway Surface Condition	DRY
Light Conditions	DARK/LIGHTED
Atmospheric Conditions	No ADVERSE COND
Relation to Intersection	INTERCHANGE REL
Traffic Control Device	
Police Reported Alcohol Presence	No ALCOHOL
Alcohol Test (< 95 indicates BAC 0.xx)	0

Vehicle Factors

Make-Model	Chevrolet Nova/Geo Prism
Year	1994
Class	PASSENGER CAR
Body Type	4-DR SEDAN/HDTOP
Weight	106

Crash Severity

Nr. Quarter Turns	No rollover
Impact Speed	< 0.5KMPH
Total, Longitudal, and Lateral δV	< 0.5 KMPH < 0.5 KMPH < 0.5 KMPH
Est. δV with sequence number	SEVERE 1
CDC	46 B Y A W 8
Damage (C1-C6)	94 95 94 94 100 64
Crush (L and D)	150 0
Object Contacted 1	VEHICLE NO. 1
Object Contacted 2	0

Pre-Crash Driver Data

Accident Type	33
Pre-event Movement	No DRIVER
Critical Pre-crash Event	Same DIR-HISPEED
Attempted Avoidance Manuever	No DRIVER
Pre-impact Stability	No DRIVER
Pre-impact Location	STAYED IN LANE

NASS Weighting Factor

Weighting factor	22.518451138
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DRIVER Factors

Rollover Characteristics

Number of Events	2
Rollover Initiation Type	No rollover
Location of Rollover Initiation	No rollover
Rollover Initiation Object Contacted	No rollover
Location on Vehicle where Principal Tripping Force was Applied	No rollover
Direction of Initial Roll	No rollover

Age	36	Height	170	Weight	73
Gender					FEMALE-NOT PREG
Ejection					No EJECTION
Ejection Area					No EJECTION
Entrapment					Not ENTRAPPED

Restraint Factors

Restrain	Lap and shoulder
AOPS	YES-RES DET
Airbag Deployment	NONDEPLOYED
Airbag Deployment - 1 st Seat	NONDEPLOYED
Airbag Deployment - Oth Seat	Not EQUIP W/ OTH

Injuries

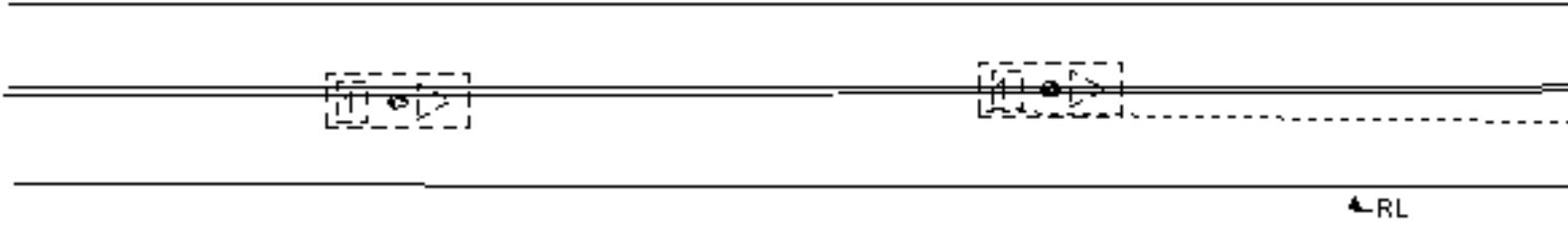
Occupant	1999-9-31-2-1
MAIS	4=Severe
Seat Position	Front left side

AIS Level	Injury Description	Contacts
1=Minor	Upper extremity skin contusion	Left B pillar
1=Minor	Facial skin contusion	Left B pillar
1=Minor	Upper extremity skin abrasion	Left B pillar
4=Severe	Lung laceration, bilateral NFS	Seat, back
3=Serious	Lung contusion, unilateral	Seat, back
2=Moderate	Lumbar fracture of transverse process without cord injury	Seat, back
2=Moderate	Lumbar fracture of transverse process without cord injury	Seat, back
1=Minor	Single rib fracture	Seat, back
1=Minor	Awake on admission, NFS	Head restraint

90 Case 1999-9-63

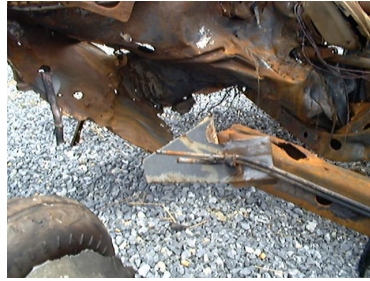
Summary:

VEHICLE ONE WAS TRAVELLING SOUTHBOUND ON A TWO LANE UNDIVIDED ROADWAY AT A HIGH RATE OF SPEED. UPON APPROACH TO A LEFT HAND CURVE VEHICLE ONE ENCOUNTERED A SLOWER MOVING VEHICLE AHEAD TRAVELLING IN THE SAME DIRECTION AND IN THE SAME LANE. THE DRIVER APPLIED THE BRAKES AND BEGAN TO SKID. THE SKID MARKS ORIGINATE WITH VEHICLE ONE STRADDLING THE DOUBLE YELLOW LINES. THE DRIVER WAS PROBABLY SETTING UP ON THE INSIDE OF THE CURVE FOR A HIGH SPEED TURN BEFORE HE SAW THE OTHER VEHICLE. VEHICLE ONE BEGAN TO SKID LONGITUDINALLY THEN ROTATED CLOCKWISE, MOST LIKELY DUE TO OVER CORRECTION TO THE RIGHT TO COMPENSATE FOR DRIFT TO THE LEFT. THE VEHICLE EXITED THE ROADWAY OVER THE RIGHT SHOULDER. FIRST, THE VEHICLE CLIPPED A TREE WITH ITS FRONT END WHICH ADDED TO THE CLOCKWISE ROTATION. FOLLOWING THAT IMPACT THE VEHICLE SLID SIDEWAYS INTO A LARGE (60cm.) TREE. CONTACT OCCURRED AT THE LEFT FRONT FENDER, ALMOST DIRECTLY IN LINE WITH THE LEFT FRONT WHEEL. THIS IMPACT EJECTED THE SOLE, UNBELTED OCCUPANT FATALY INJURING HIM. THE EXTREME SPEED AND FORCE OF THE IMPACT RIPPED THE VEHICLE IN HALF FROM A-PILLAR TO A-PILLAR. THE FRONT HALF OF THE VEHICLE REMAINED ENTANGLED WITH THE TREE AND BEGAN TO BURN, WITH THE FIRE ORIGINATING IN THE ENGINE COMPARTMENT. THE REAR HALF OF THE VEHICLE CONTINUED TO ROTATE CLOCKWISE AND STRUCK TWO MORE TREES ON THE RIGHT SIDE OF THE VEHICLE BEFORE COMING TO REST. THE VIOLENCE OF THE CRASH RESULTED IN TOTAL INTEGRITY LOSS TO THE VEHICLE. THE PASSENGER COMPARTMENT WAS RIPPED IN HALF, ALL GLAZING WAS DESTROYED AND ALL SEATS FAILED. INTERVIEW AND INSPECTION REVEALED THAT ONLY ONE SEAT TRACK ANCHOR BOLT OF FOUR WAS PRESENT IN EACH OF THE TWO FRONT SEATS . THE PROBABLE CAUSE OF THE VEHICLE BEING TORN IN HALF, RATHER THAN ROTATING AROUND THE TREE, WAS THE SHAPE OF THE TREE. THE BASE OF THE TREE HAS ONE MAIN TRUNK THAT BRANCHES INTO SEVERAL SMALLER LEADER TRUNKS VERY NEAR THE GROUND, THIS GIVES THE TRUNK OF TREE THE SHAPE OF AN INVERTED CONE. UPON FIRST CONTACTING THE TREE THE LEFT FRONT OF THE VEHICLE DEFORMED AROUND THE TREE BUT THE FLARED SHAPE OF THE TREE PROBABLY RESTRICTED ANY ROTATION OR ROLL OF THE VEHICLE. CONSEQUENTLY, THE MOMENTUM OF THE VEHICLE SERVED TO WHIP THE REAR OF THE VEHICLE AROUND SHEARING IT FROM THE FRONT OF THE VEHICLE, WHICH REMAINED ENTANGLED WITH THE TREE. AFTER INSPECTING THE VEHICLE I FOUND NO SIGNIFICANT EVIDENCE OF PREEXISTING STRUCTURAL WEAKNESS. THERE WAS SOME SURFACE RUST ON THE FLOOR PAN BELOW THE CARPETING AND ON THE SEAT TRACK ANCHORS, BUT THIS IS TO BE EXPECTED IN A VEHICLE OF THIS AGE AND THE RUST WAS NOT PRESENT IN A DEGREE TO CAUSE STRUCTURAL WEAKNESS.



Vehicle#	Body type	Make	Model	Year	Occ.#	Age	Occupant's sex	Maximum known occupant ais
1	2DR SEDAN/HT/CPE	Pontiac	Firebird/Trans AM	1978	1	25	MALE	6=Maximum

Occupant: 1999-9-63-1-1



Fire Information

Fire Occurrence	Major fire
Fire Origin	Engine compart
Location of Fuel Leakage	No fuel leakage
Type of Fuel Tank	Metallic
Fuel Tank Location	Behind rear axle, centered
Fuel Cap Location	On back plane
Fuel Tank Damage	No damage
Fuel Type	Gasoline



Pre-Crash Environment

Traffic Flow	Not DIVIDED
Number of Travel Lanes	TWO
Roadway Alignment	CURVE LEFT
Roadway Profile	DOWNHILL GRADE
Roadway Surface Type	ASPHALT
Roadway Surface Condition	DRY
Light Conditions	DARK
Atmospheric Conditions	No ADVERSE COND
Relation to Intersection	NONINTER/NONJUNC
Traffic Control Device	
Police Reported Alcohol Presence	ALCOHOL PRESENT
Alcohol Test (< 95 indicates BAC 0.xx)	9

Crash Severity

Nr. Quarter Turns	No rollover
Impact Speed	< 0.5KMPH
Total, Longitudal, and Lateral δV	< 0.5 KMPH < 0.5 KMPH < 0.5 KMPH
Est. δV with sequence number	0.5 KMPH
CDC	SEVERE 2
Damage (C1-C6)	69 L F E W 3
Crush (L and D)	0 45 48 42 20 0
Object Contacted 1	115 138
Object Contacted 2	LARGE TREE
	LARGE TREE

NASS Weighting Factor

Weighting factor	90.841364529
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Rollover Characteristics

Number of Events	5
Rollover Initiation Type	No rollover
Location of Rollover Initiation	No rollover
Rollover Initiation Object Contacted	No rollover
Location on Vehicle where Principal Tripping Force was Applied	No rollover
Direction of Initial Roll	No rollover

Vehicle Factors

Make-Model	Pontiac Firebird/Trans AM
Year	1978
Class	PASSENGER CAR
Body Type	2DR SEDAN/HT/CPE
Weight	158

Pre-Crash Driver Data

Accident Type	3
Pre-event Movement	NEGOTIATE CURVE
Critical Pre-crash Event	Same DIR-LOSPEED
Attempted Avoidance Maneuver	BRAKE+STEER RT
Pre-impact Stability	LATERAL SKID-CLK
Pre-impact Location	DEPARTED ROADWAY

DRIVER Factors

Age	25	Height	178	Weight	64
Gender			MALE		
Ejection			COMPLETE EJECT		
Ejection Area			Left FRONT		
Entrapment			Not ENTRAPPED		

Restraint Factors

Restrain	None used/avail
AOPS	NO
Airbag Deployment	Not EQUIP/AVAIL
Airbag Deployment - 1 st Seat	Not EQUIP/AVAIL
Airbag Deployment - Oth Seat	Not EQUIP W/ OTH

Injuries

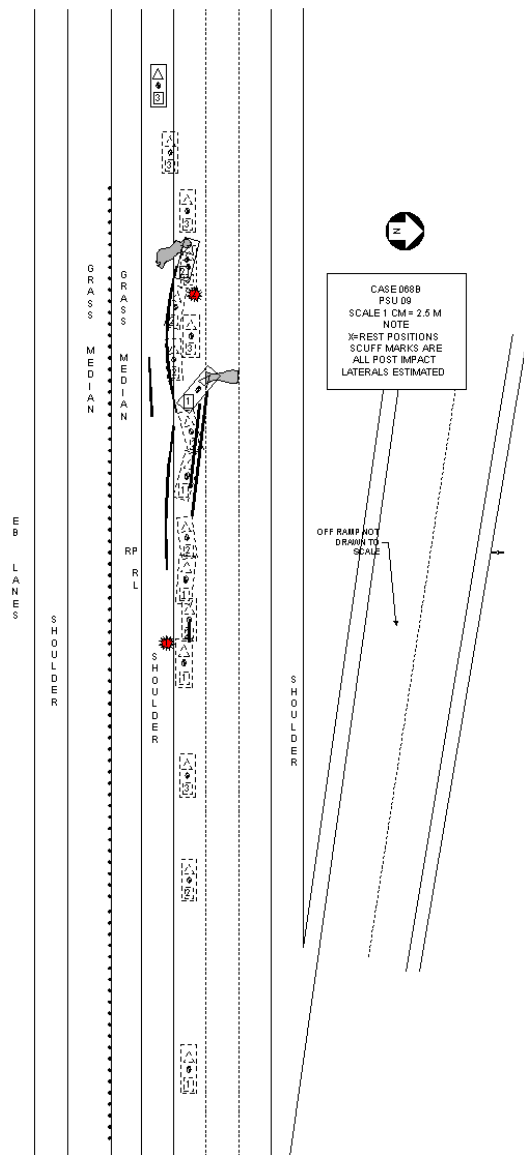
Occupant	1999-9-63-1-1
MAIS	6=Maximum
Seat Position	Front left side

AIS Level	Injury Description	Contacts
1=Minor	Facial skin laceration, minor	Ground
2=Moderate	Arm, forearm, hand fracture NFS	Ground
6=Maximum	Cord laceration, complete, C3 or above, with fx&dislocation	Ground
1=Minor	Facial skin laceration, minor	Ground
1=Minor	Facial skin abrasion	Ground
1=Minor	Thoracic skin abrasion	Ground
1=Minor	Upper extremity skin abrasion	Ground
1=Minor	Abdominal skin abrasion	Ground
1=Minor	Upper extremity skin contusion	Ground
1=Minor	690202	Ground
1=Minor	Leg skin abrasion	Ground
1=Minor	Leg skin contusion (hematoma)	Ground
1=Minor	Nose fracture NFS	Ground

91 Case 1999-9-68

Summary:

Vehicles three, two and one were traveling west bound in lane three of three lane divided highway(positive barrier) within an interchange area. Vehicle three, a 1986 Ford Mustang and vehicle two, a 1988 Subaru GL station wagon were slowing or stopped in lane three due to traffic congestion. Vehicle one, a 1997 Chevrolet S-10 pick-up strikes vehicle two in the back plane with it's front plane. Vehicle two is pushed forward into vehicle three. Vehicle two's front plane strikes vehicle three's back plane. Vehicles one and two come to rest. Vehicle three comes to a controlled stop off on the left shoulder. Vehicles one and two are towed due to damage. Vehicle three is towed, but, not due to damage. The driver and sole occupant of vehicle three is transported, treated and released. The driver of vehicle two is killed at the scene. The right front occupant of vehicle two is transported with reported incapacitating injuries. The driver and sole occupant of vehicle one is transported with incapacitating injuries.



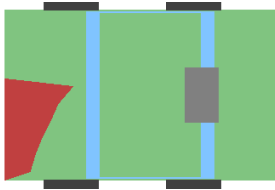
Vehicle #	Body type	Make	Model	Year	Occ. #	Age	Occupant's sex	Maximum known
1	COMPACT PICKUP	Chevrolet	S-10	1997	1	53	MALE	2=Moderate
2	STATION WAGON	Subaru	DL/FE/G/GF/GL/GLF/STD/Loyale	1988	1	84	FEMALE-NOT PREG	5=Critical
2	STATION WAGON	Subaru	DL/FE/G/GF/GL/GLF/STD/Loyale	1988	2	24	FEMALE-NOT PREG	7=Unk. sev.

Occupant: 1999-9-68-1-1



Fire Information

Fire Occurrence	No fire
Fire Origin	No fire
Location of Fuel Leakage	No fuel leakage
Type of Fuel Tank	Metallic
Fuel Tank Location	Forward of rear axle, left side
Fuel Cap Location	Left side, forward rear axle
Fuel Tank Damage	No damage
Fuel Type	Gasoline



Crash Severity

Nr. Quarter Turns	No rollover
Impact Speed	998
Total, Longitudal, and Lateral δV	66 -65 -12
Est. δV with sequence number	DELTA V CODED 1
CDC	12 F D E W 5
Damage (C1-C6)	38 45 56 68 79 101
Crush (L and D)	150 0
Object Contacted 1	VEHICLE NO. 2
Object Contacted 2	0

NASS Weighting Factor

Weighting factor	48.204690084
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Rollover Characteristics

Number of Events	2
Rollover Initiation Type	No rollover
Location of Rollover Initiation	No rollover
Rollover Initiation Object Contacted	No rollover
Location on Vehicle where Principal Tripping Force was Applied	No rollover
Direction of Initial Roll	No rollover

Pre-Crash Environment

Traffic Flow	DVDED/W/BARRIER
Number of Travel Lanes	THREE
Roadway Alignment	STRAIGHT
Roadway Profile	UPHILL GRADE
Roadway Surface Type	CONCRETE
Roadway Surface Condition	DRY
Light Conditions	DAYLIGHT
Atmospheric Conditions	No ADVERSE COND
Relation to Intersection	INTERCHANGE REL
Traffic Control Device	
Police Reported Alcohol Presence	No ALCOHOL
Alcohol Test (< 95 indicates BAC 0.xx)	0

Vehicle Factors

Make-Model	Chevrolet S-10
Year	1997
Class	TRUCK
Body Type	COMPACT PICKUP
Weight	140

Pre-Crash Driver Data

Accident Type	28
Pre-event Movement	GOING STRAIGHT
Critical Pre-crash Event	Same DIR-DECELER
Attempted Avoidance Manuever	No DRIVER
Pre-impact Stability	TRACKING
Pre-impact Location	STAYED IN LANE

DRIVER Factors

Age	53	Height	173	Weight	82
Gender					MALE
Ejection					No EJECTION
Ejection Area					No EJECTION
Entrapment					Not ENTRAPPED

Restraint Factors

Restrain	Lap and shoulder
AOPS	YES-RES DET
Airbag Deployment	BAG DEPLOYED
Airbag Deployment - 1 st Seat	DR BAG DEPLOYED
Airbag Deployment - Oth Seat	Not EQUIP W/ OTH

Injuries

Occupant	1999-9-68-1-1
MAIS	2=Moderate
Seat Position	Front left side

AIS Level	Injury Description	Contacts
1=Minor	Upper extremity skin contusion	Mirror
2=Moderate	Awake on admission, prior unconscious, length NFS	Left window glas
1=Minor	Leg skin contusion (hematoma)	Left apnel

Occupant: 1999-9-68-2-1



Fire Information

Fire Occurrence	No fire
Fire Origin	No fire
Location of Fuel Leakage	Line/pump/filter
Type of Fuel Tank	Metallic
Fuel Tank Location	Behind rear axle, centered
Fuel Cap Location	Right side, behind rear axle
Fuel Tank Damage	Deformed
Fuel Type	Gasoline



Crash Severity

Nr. Quarter Turns	No rollover
Impact Speed	998
Total, Longitudal, and Lateral δV	82 80 14
Est. δV with sequence number	DELTA V CODED 1
CDC	6 B D E W 6
Damage (C1-C6)	130 117 118 115 102 72
Crush (L and D)	150 0
Object Contacted 1	VEHICLE NO. 1
Object Contacted 2	VEHICLE NO. 3

NASS Weighting Factor

Weighting factor	48.204690084
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Rollover Characteristics

Number of Events	2
Rollover Initiation Type	No rollover
Location of Rollover Initiation	No rollover
Rollover Initiation Object Contacted	No rollover
Location on Vehicle where Principal Tripping Force was Applied	No rollover
Direction of Initial Roll	No rollover

Pre-Crash Environment

Traffic Flow	DVDED/W/BARRIER
Number of Travel Lanes	THREE
Roadway Alignment	STRAIGHT
Roadway Profile	UPHILL GRADE
Roadway Surface Type	CONCRETE
Roadway Surface Condition	DRY
Light Conditions	DAYLIGHT
Atmospheric Conditions	No ADVERSE COND
Relation to Intersection	INTERCHANGE REL
Traffic Control Device	
Police Reported Alcohol Presence	No ALCOHOL
Alcohol Test (< 95 indicates BAC 0.xx)	0

Vehicle Factors

Make-Model	Subaru DL/FE/G/GF/GL/GLF/STD/Loyale
Year	1988
Class	PASSENGER CAR
Body Type	STATION WAGON
Weight	114

Pre-Crash Driver Data

Accident Type	29
Pre-event Movement	DECELER IN LANE
Critical Pre-crash Event	Same DIR-HISPEED
Attempted Avoidance Manuever	No AVOIDANCE
Pre-impact Stability	TRACKING
Pre-impact Location	STAYED IN LANE

DRIVER Factors

Age	84	Height	163	Weight	68
Gender					FEMALE-NOT PREG
Ejection					No EJECTION
Ejection Area					No EJECTION
Entrapment					Not ENTRAPPED

Restraint Factors

Restrain	Lap and shoulder
AOPS	NO
Airbag Deployment	Not EQUIP/AVAIL
Airbag Deployment - 1 st Seat	Not EQUIP/AVAIL
Airbag Deployment - Oth Seat	Not EQUIP W/ OTH

Injuries

Occupant	1999-9-68-2-1
MAIS	5=Critical
Seat Position	Front left side

AIS Level	Injury Description	Contacts
1=Minor	Scalp laceration, minor	Belt B pill atch
1=Minor	Upper extremity skin laceration NFS	Flying glass
1=Minor	Upper extremity skin laceration, minor	Mirror
2=Moderate	Arm, forearm, hand fracture NFS	Seat, back
2=Moderate	Arm, forearm, hand fracture NFS	Unknown SOURCE
2=Moderate	Skull fracture, NFS	Left B pillar
3=Serious	Cerebral subarachnoid hemorrhage	Left B pillar
3=Serious	Cerebral subarachnoid hemorrhage	Left B pillar
3=Serious	Lung contusion NFS	Seat, back
5=Critical	Abdominal aorta laceration, major (complete, EBL>204=Severe	>3 rib fxs on each side, stable chest
	Seat, back	

Occupant: 1999-9-68-2-2



Fire Information

Fire Occurrence	No fire
Fire Origin	No fire
Location of Fuel Leakage	Line/pump/filter
Type of Fuel Tank	Metallic
Fuel Tank Location	Behind rear axle, centered
Fuel Cap Location	Right side, behind rear axle
Fuel Tank Damage	Deformed
Fuel Type	Gasoline



Pre-Crash Environment

Traffic Flow	DVDED/W/BARRIER
Number of Travel Lanes	THREE
Roadway Alignment	STRAIGHT
Roadway Profile	UPHILL GRADE
Roadway Surface Type	CONCRETE
Roadway Surface Condition	DRY
Light Conditions	DAYLIGHT
Atmospheric Conditions	No ADVERSE COND
Relation to Intersection	INTERCHANGE REL
Traffic Control Device	
Police Reported Alcohol Presence	No ALCOHOL
Alcohol Test (< 95 indicates BAC 0.xx)	0

Crash Severity

Nr. Quarter Turns	No rollover
Impact Speed	998
Total, Longitudal, and Lateral δV	82 80 14
Est. δV with sequence number	DELTA V CODED 1
CDC	6 B D E W 6
Damage (C1-C6)	130 117 118 115 102 72
Crush (L and D)	150 0
Object Contacted 1	VEHICLE NO. 1
Object Contacted 2	VEHICLE NO. 3

NASS Weighting Factor

Weighting factor	48.204690084
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Rollover Characteristics

Number of Events	2
Rollover Initiation Type	No rollover
Location of Rollover Initiation	No rollover
Rollover Initiation Object Contacted	No rollover
Location on Vehicle where Principal Tripping Force was Applied	No rollover
Direction of Initial Roll	No rollover

Vehicle Factors

Make-Model	Subaru DL/FE/G/GF/GL/GLF/STD/Loyale
Year	1988
Class	PASSENGER CAR
Body Type	STATION WAGON
Weight	114

Pre-Crash Driver Data

Accident Type	29
Pre-event Movement	DECELER IN LANE
Critical Pre-crash Event	Same DIR-HISPEED
Attempted Avoidance Manuever	No AVOIDANCE
Pre-impact Stability	TRACKING
Pre-impact Location	STAYED IN LANE

PASSENGER Factors

Age	24	Height	0	Weight	0
Gender					FEMALE-NOT PREG
Ejection					No EJECTION
Ejection Area					No EJECTION
Entrapment					Not ENTRAPPED

Restraint Factors

Restrain	None used/avail
AOPS	NO
Airbag Deployment	Not EQUIP/AVAIL
Airbag Deployment - 1 st Seat	Not EQUIP/AVAIL
Airbag Deployment - Oth Seat	Not EQUIP W/ OTH

Injuries

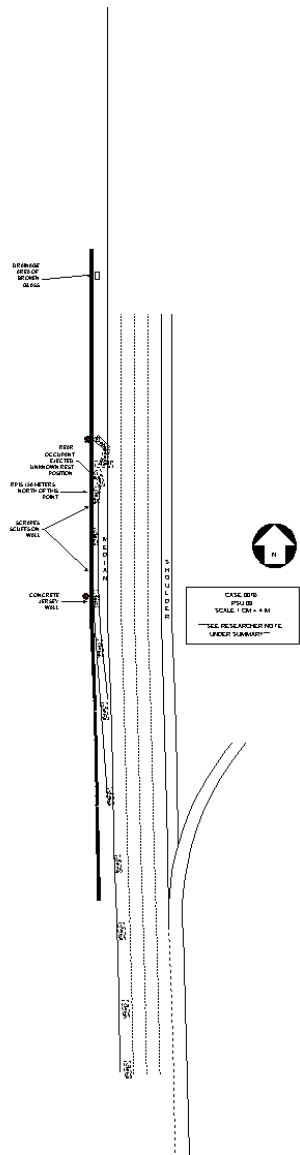
Occupant	1999-9-68-2-2
MAIS	7=Unk. sev.
Seat Position	Front right side

AIS Level	Injury Description	Contacts
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92 Case 1999-9-7

Summary:

Vehicle one(4dr 1992 volkswagen jetta) was traveling north on a four lane highway (positive barriers), in lane number four. The driver loses control and vehicle one departs the roadway to the left. Vehicle one strikes a concrete jersey wall (see footnote) with it's left side plane. Vehicle one rotates counter-clockwise and strikes the jersey wall again with it's right rear corner and comes to rest. The passenger in the 2nd row is fully ejected after the first impact and comes to rest in the roadway. The driver and right front passenger are transported. The driver is treated and released. The right front occupant is hospitalized for observations. FOOTNOTE: The damage to vehicle one was severe. The first impact pulled the c-post/left rear door and sill areas apart. This caused a massive opening that included the left rear door area, left rear window, c-post area and back light. It is believed that the rear occupant was ejected thru the opening that comprised the left rear door and c-post. Also, the police report, driver and family of deceased all give different accounts and locations as to what section of the jersey wall was contacted. Based upon the damage, the researcher believes the vehicle struck an end portion of the jersey wall typical of areas used by emergency vehicles to cross over into opposite lanes of travel. This end portion of the jersey wall appears to have engaged the left rear c-post area as well as the left rear wheel/axle. However, no opening in the jersey wall was found in the location the police report stated. The scene depicted is of the area listed on the police report and scene evidence was found. The scene trafficway is representative of this vehicles environment. The scene diagram is based upon the area given in the police report, however, no crossover was found or noted. However, the scene(at this date) is representative of the roadway that vehicle one was traveling.



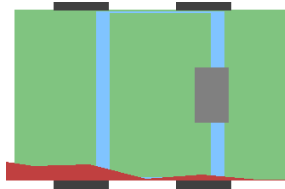
Vehicle	Body type	Make	Model	Year	Occ.#	Age	Occupant's sex	Maximum known occupant ais
1	4-DR SEDAN/HDTOP	VW	Jetta	1992	1	18	MALE	2=Moderate
1	4-DR SEDAN/HDTOP	VW	Jetta	1992	2	18	FEMALE-NOT PREG	1=Minor
1	4-DR SEDAN/HDTOP	VW	Jetta	1992	3	16	FEMALE-NOT PREG	4=Severe

Occupant: 1999-9-7-1-1



Fire Information

Fire Occurrence	No fire
Fire Origin	No fire
Location of Fuel Leakage	Tank
Type of Fuel Tank	Non-metallic
Fuel Tank Location	Forward of rear axle, centered
Fuel Cap Location	Right side, behind rear axle
Fuel Tank Damage	Punctured
Fuel Type	Gasoline



Pre-Crash Environment

Traffic Flow	DVDED/W/BARRIER
Number of Travel Lanes	FOUR
Roadway Alignment	CURVE RIGHT
Roadway Profile	DOWNHILL GRADE
Roadway Surface Type	ASPHALT
Roadway Surface Condition	DRY
Light Conditions	DARK/LIGHTED
Atmospheric Conditions	No ADVERSE COND
Relation to Intersection	INTERCHANGE REL
Traffic Control Device	
Police Reported Alcohol Presence	No ALCOHOL
Alcohol Test (< 95 indicates BAC 0.xx)	0

Vehicle Factors

Make-Model	VW Jetta
Year	1992
Class	PASSENGER CAR
Body Type	4-DR SEDAN/HDTOP
Weight	106

Crash Severity

Nr. Quarter Turns	No rollover
Impact Speed	998
Total, Longitudal, and Lateral δV	37 -36 6
Est. δV with sequence number	DELTA V CODED 1
CDC	72 L D A W 3
Damage (C1-C6)	33 20 23 2 8 0
Crush (L and D)	496 0
Object Contacted 1	CONCRETE BARRIER
Object Contacted 2	CONCRETE BARRIER

Pre-Crash Driver Data

Accident Type	7
Pre-event Movement	NEGOTIATE CURVE
Critical Pre-crash Event	Oth CRIT EVENT
Attempted Avoidance Manuever	No DRIVER
Pre-impact Stability	No DRIVER
Pre-impact Location	DEPARTED ROADWAY

NASS Weighting Factor

Weighting factor	18.318853885
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DRIVER Factors

Age	18	Height	183	Weight	77
Gender			MALE		
Ejection			No EJECTION		
Ejection Area			No EJECTION		
Entrapment			Not ENTRAPPED		

Rollover Characteristics

Number of Events	2
Rollover Initiation Type	No rollover
Location of Rollover Initiation	No rollover
Rollover Initiation Object Contacted	No rollover
Location on Vehicle where Principal Tripping Force was Applied	No rollover
Direction of Initial Roll	No rollover

Restraint Factors

Restrain	Lap belt
AOPS	YES-RES DET
Airbag Deployment	Not EQUIP/AVAIL
Airbag Deployment - 1 st Seat	Not EQUIP/AVAIL
Airbag Deployment - Oth Seat	Not EQUIP W/ OTH

Injuries

Occupant	1999-9-7-1-1
MAIS	2=Moderate
Seat Position	Front left side

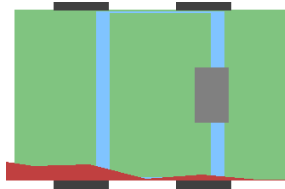
AIS Level	Injury Description	Contacts
1=Minor	Upper extremity skin abrasion	Belt webb/buckle
2=Moderate	Ulnar fracture, closed	Left hardware

Occupant: 1999-9-7-1-2



Fire Information

Fire Occurrence	No fire
Fire Origin	No fire
Location of Fuel Leakage	Tank
Type of Fuel Tank	Non-metallic
Fuel Tank Location	Forward of rear axle, centered
Fuel Cap Location	Right side, behind rear axle
Fuel Tank Damage	Punctured
Fuel Type	Gasoline



Pre-Crash Environment

Traffic Flow	DVDED/W/BARRIER
Number of Travel Lanes	FOUR
Roadway Alignment	CURVE RIGHT
Roadway Profile	DOWNHILL GRADE
Roadway Surface Type	ASPHALT
Roadway Surface Condition	DRY
Light Conditions	DARK/LIGHTED
Atmospheric Conditions	No ADVERSE COND
Relation to Intersection	INTERCHANGE REL
Traffic Control Device	
Police Reported Alcohol Presence	No ALCOHOL
Alcohol Test (< 95 indicates BAC 0.xx)	0

Vehicle Factors

Make-Model	VW Jetta
Year	1992
Class	PASSENGER CAR
Body Type	4-DR SEDAN/HDTOP
Weight	106

Crash Severity

Nr. Quarter Turns	No rollover
Impact Speed	998
Total, Longitudal, and Lateral δV	37 -36 6
Est. δV with sequence number	DELTA V CODED 1
CDC	72 L D A W 3
Damage (C1-C6)	33 20 23 2 8 0
Crush (L and D)	496 0
Object Contacted 1	CONCRETE BARRIER
Object Contacted 2	CONCRETE BARRIER

Pre-Crash Driver Data

Accident Type	7
Pre-event Movement	NEGOTIATE CURVE
Critical Pre-crash Event	Oth CRIT EVENT
Attempted Avoidance Manuever	No DRIVER
Pre-impact Stability	No DRIVER
Pre-impact Location	DEPARTED ROADWAY

NASS Weighting Factor

Weighting factor	18.318853885
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PASSENGER Factors

Rollover Characteristics

Number of Events	2
Rollover Initiation Type	No rollover
Location of Rollover Initiation	No rollover
Rollover Initiation Object Contacted	No rollover
Location on Vehicle where Principal Tripping Force was Applied	No rollover
Direction of Initial Roll	No rollover

Age	18	Height	158	Weight	64
Gender					FEMALE-NOT PREG
Ejection					No EJECTION
Ejection Area					No EJECTION
Entrapment					Not ENTRAPPED

Restraint Factors

Restrain	Lap belt
AOPS	YES-RES DET
Airbag Deployment	Not EQUIP/AVAIL
Airbag Deployment - 1 st Seat	Not EQUIP/AVAIL
Airbag Deployment - Oth Seat	Not EQUIP W/ OTH

Injuries

Occupant	1999-9-7-1-2
MAIS	1=Minor
Seat Position	Front right side

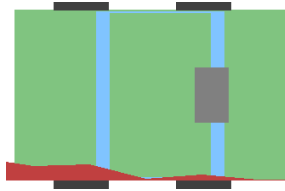
AIS Level	Injury Description	Contacts
1=Minor	Facial skin contusion	Right B pillar
1=Minor	Thoracic skin contusion	Belt webb/buckle
1=Minor	Abdominal skin contusion	Belt webb/buckle
1=Minor	Leg skin contusion (hematoma)	Belt webb/buckle
1=Minor	Leg skin contusion (hematoma)	Transmiss lever
1=Minor	Leg skin contusion (hematoma)	Right panel
1=Minor	Facial skin contusion	Center panel
1=Minor	Leg skin abrasion	Belt webb/buckle
1=Minor	Leg skin abrasion	Center panel
1=Minor	Leg skin abrasion	Right panel

Occupant: 1999-9-7-1-3



Fire Information

Fire Occurrence	No fire
Fire Origin	No fire
Location of Fuel Leakage	Tank
Type of Fuel Tank	Non-metallic
Fuel Tank Location	Forward of rear axle, centered
Fuel Cap Location	Right side, behind rear axle
Fuel Tank Damage	Punctured
Fuel Type	Gasoline



Pre-Crash Environment

Traffic Flow	DVDED/W/BARRIER
Number of Travel Lanes	FOUR
Roadway Alignment	CURVE RIGHT
Roadway Profile	DOWNHILL GRADE
Roadway Surface Type	ASPHALT
Roadway Surface Condition	DRY
Light Conditions	DARK/LIGHTED
Atmospheric Conditions	No ADVERSE COND
Relation to Intersection	INTERCHANGE REL
Traffic Control Device	
Police Reported Alcohol Presence	No ALCOHOL
Alcohol Test (< 95 indicates BAC 0.xx)	0

Vehicle Factors

Make-Model	VW Jetta
Year	1992
Class	PASSENGER CAR
Body Type	4-DR SEDAN/HDTOP
Weight	106

Crash Severity

Nr. Quarter Turns	No rollover
Impact Speed	998
Total, Longitudal, and Lateral δV	37 -36 6
Est. δV with sequence number	DELTA V CODED 1
CDC	72 L D A W 3
Damage (C1-C6)	33 20 23 2 8 0
Crush (L and D)	496 0
Object Contacted 1	CONCRETE BARRIER
Object Contacted 2	CONCRETE BARRIER

Pre-Crash Driver Data

Accident Type	7
Pre-event Movement	NEGOTIATE CURVE
Critical Pre-crash Event	Oth CRIT EVENT
Attempted Avoidance Manuever	No DRIVER
Pre-impact Stability	No DRIVER
Pre-impact Location	DEPARTED ROADWAY

NASS Weighting Factor

Weighting factor	18.318853885
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PASSENGER Factors

Rollover Characteristics

Number of Events	2
Rollover Initiation Type	No rollover
Location of Rollover Initiation	No rollover
Rollover Initiation Object Contacted	No rollover
Location on Vehicle where Principal Tripping Force was Applied	No rollover
Direction of Initial Roll	No rollover

Age	16	Height	173	Weight	75
Gender					FEMALE-NOT PREG
Ejection					COMPLETE EJECT
Ejection Area					Left REAR
Entrapment					Not ENTRAPPED

Restraint Factors

Restrain	None used/avail
AOPS	YES-RES DET
Airbag Deployment	Not EQUIP/AVAIL
Airbag Deployment - 1 st Seat	Not EQUIP/AVAIL
Airbag Deployment - Oth Seat	Not EQUIP W/ OTH

Injuries

Occupant	1999-9-7-1-3
MAIS	4=Severe
Seat Position	Second left

AIS Level	Injury Description	Contacts
1=Minor	Facial skin abrasion	Ground
1=Minor	Facial skin contusion	Ground
1=Minor	Facial skin abrasion	Ground
1=Minor	Facial skin abrasion	Ground
1=Minor	Scalp contusion	Ground
3=Serious	Cerebral subarachnoid hemorrhage	Ground
1=Minor	690402	Seat, back
1=Minor	Neck skin contusion (hematoma)	Ground
3=Serious	>3 rib fractures one side & <3 other side, with stable chest	Ground
4=Severe	Lung laceration, bilateral NFS	Ground
4=Severe	Hepatic laceration, major (<504=Severe	Splenic laceration, major (segmental injury, no hilar injury
Ground		
1=Minor	Upper extremity skin laceration, minor	Left interior
1=Minor	Upper extremity skin abrasion	Ground
1=Minor	Leg skin abrasion	Seat, back
1=Minor	Facial skin laceration NFS	Ground
3=Serious	Diaphragm laceration or rupture	Ground