
Accident Data Analysis and Investigation Tools

NASS Case Summaries (2001)

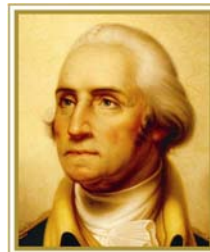
Prepared by:

*FHWA/NHTSA National Crash Analysis Center
The George Washington University*

Prepared for:

Motor Vehicle Fire Research Institute

April 6, 2004



THE GEORGE
WASHINGTON
UNIVERSITY
WASHINGTON DC

Contents

1 Case 2001-11-111	3
2 Case 2001-11-149	10
3 Case 2001-11-186	21
4 Case 2001-11-195	30
5 Case 2001-11-46	33
6 Case 2001-11-62	36
7 Case 2001-11-85	39
8 Case 2001-12-100	42
9 Case 2001-12-108	45
10 Case 2001-12-117	48
11 Case 2001-12-143	51
12 Case 2001-12-20	58
13 Case 2001-12-30	61
14 Case 2001-12-72	64
15 Case 2001-12-81	73
16 Case 2001-13-17	76
17 Case 2001-13-186	83
18 Case 2001-13-28	88
19 Case 2001-13-47	101
20 Case 2001-13-58	104
21 Case 2001-13-99	109
22 Case 2001-2-21	122
23 Case 2001-4-33	129
24 Case 2001-4-502	136
25 Case 2001-4-503	143
26 Case 2001-4-504	146
27 Case 2001-41-31	155
28 Case 2001-41-501	160

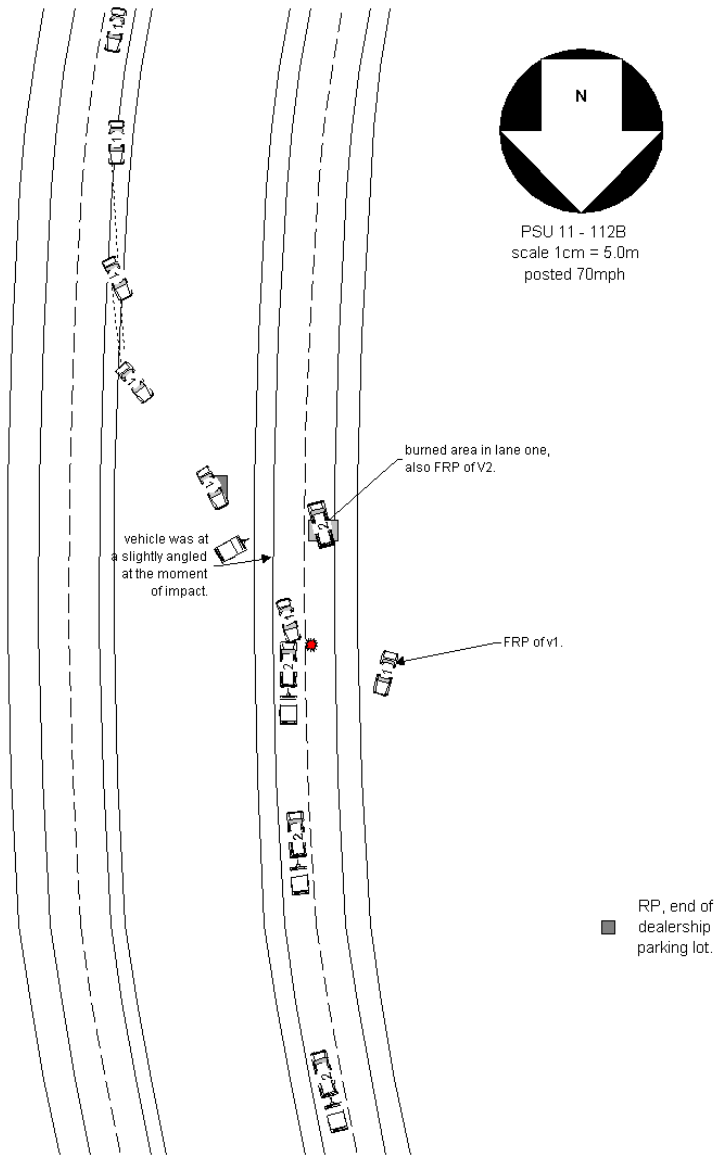
29 Case 2001-41-91	165
30 Case 2001-43-110	168
31 Case 2001-43-173	173
32 Case 2001-43-40	176
33 Case 2001-43-501	191
34 Case 2001-43-59	194
35 Case 2001-45-100	199
36 Case 2001-45-124	202
37 Case 2001-45-132	211
38 Case 2001-45-195	214
39 Case 2001-45-197	228
40 Case 2001-45-201	236
41 Case 2001-45-93	241
42 Case 2001-48-102	246
43 Case 2001-48-136	251
44 Case 2001-48-186	258
45 Case 2001-48-22	261
46 Case 2001-48-25	266
47 Case 2001-48-71	269
48 Case 2001-49-145	274
49 Case 2001-49-180	277
50 Case 2001-49-19	280
51 Case 2001-49-191	289
52 Case 2001-49-193	300
53 Case 2001-49-245	303
54 Case 2001-49-96	306
55 Case 2001-72-20	313
56 Case 2001-72-208	322
57 Case 2001-72-28	325

58 Case 2001-73-137	332
59 Case 2001-73-152	335
60 Case 2001-73-21	346
61 Case 2001-73-39	349
62 Case 2001-73-81	354
63 Case 2001-73-99	359
64 Case 2001-75-54	362
65 Case 2001-75-61	365
66 Case 2001-75-69	370
67 Case 2001-76-105	375
68 Case 2001-78-22	379
69 Case 2001-78-24	384
70 Case 2001-78-38	389
71 Case 2001-78-53	399
72 Case 2001-79-125	402
73 Case 2001-79-22	405
74 Case 2001-8-179	414
75 Case 2001-8-501	417
76 Case 2001-8-502	422
77 Case 2001-81-124	427
78 Case 2001-81-27	432
79 Case 2001-81-502	437
80 Case 2001-81-98	440
81 Case 2001-82-11	447
82 Case 2001-82-14	450
83 Case 2001-82-60	459
84 Case 2001-9-135	467
85 Case 2001-9-176	470
86 Case 2001-9-177	475
87 Case 2001-9-63	480

1 Case 2001-11-111

Summary:

Vehicle one, 1992 Mercury Marquis, was traveling north on a two lane divided, without a positive barrier, expressway. Vehicle two, 1992 Dodge Ram Van, was traveling south in lane two of the same two lane, divided without a positive barrier, express way. Vehicle one, departed the roadway on the left side of the road. V1 traveled through the 17 meter wide median and entered the south bound roadway. Vehicle one, front, contacted the front of vehicle two in lane two of the south bound lanes. V1 rebounded and came to rest on the west side of the south bound lanes. Vehicle two came to rest in lane one of the south bound lane, still facing south. Vehicle two caught fire immediately after the crash. The fire originated in the engine compartment which had been pushed into the passenger compartment. Both vehicles were towed due to damage. The driver and passenger of vehicle one were both fatally injured. The driver of vehicle two was transported and hospitalized in a trauma / burn center for 11 days and transferred to rehab for 18 days.



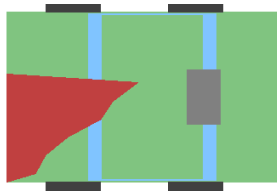
Vehicle	Body type	Make	Model	Year	Occ. #	Age	Occupant's sex	Maximum known occupant AIS
1	4-DR SEDAN/HDTOP	Mercury	Marquis/Monterey	1992	2	80	MALE	5=Critical
1	4-DR SEDAN/HDTOP	Mercury	Marquis/Monterey	1992	2	70	FEMALE-NOT PREG	6=Maximum
2	LARGE VAN	Dodge	Van derivative	1992	2	61	MALE	5=Critical

Occupant: 2001-11-111-1-1



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	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 < 0.5 KMPH
Est. δV with sequence number	SEVERE 1
CDC	1 F D A W 6
Damage (C1-C6)	43 58 90 139 157 193
Crush (L and D)	160 0
Object Contacted 1	VEHICLE NO. 2
Object Contacted 2	0

NASS Weighting Factor

Weighting factor 44.617

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	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 BAC 0.xx)	0

Vehicle Factors

Make-Model	Mercury Marquis/Monterey
Year	1992
Class	PASSENGER CAR
Body Type	4-DR SEDAN/HDTOP
Weight	171

Pre-Crash Driver Data

Accident Type	50
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	80	Height	178	Weight	73
Gender			MALE		
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 BAG DEPLOYED
Airbag Deployment - Oth Seat	Not EQUIP W/ OTH

Injuries

Occupant	2001-11-111-1-1
MAIS	5=Critical
Seat Position	Front left side

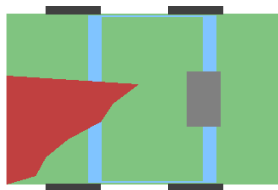
AIS Level	Injury Description	Contacts
1=Minor	Facial skin laceration NFS	Front header
5=Critical	Flail chest, bilateral	Steering comb
2=Moderate	Sclera laceration involving globe (in- cludes rupture)	Front header
1=Minor	Upper extremity skin abrasion	Front header
1=Minor	Leg skin abrasion	Left interior
2=Moderate	751900	Center panel
3=Serious	Femur fracture NFS	Knee bolster
4=Severe	Hepatic laceration, major (<501=Minor	Leg skin laceration, minor
	Center panel	

Occupant: 2001-11-111-1-2



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	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 < 0.5 KMPH
Est. δV with sequence number	SEVERE 1
CDC	1 F D A W 6
Damage (C1-C6)	43 58 90 139 157 193
Crush (L and D)	160 0
Object Contacted 1	VEHICLE NO. 2
Object Contacted 2	0

NASS Weighting Factor

Weighting factor 44.617

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	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 BAC 0.xx)	0

Vehicle Factors

Make-Model	Mercury Marquis/Monterey
Year	1992
Class	PASSENGER CAR
Body Type	4-DR SEDAN/HDTOP
Weight	171

Pre-Crash Driver Data

Accident Type	50
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

PASSENGER Factors

Age	70	Height	163	Weight	100
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	Not EQUIP/AVAIL
Airbag Deployment - 1 st Seat	DR BAG DEPLOYED
Airbag Deployment - Oth Seat	Not EQUIP W/ OTH

Injuries

Occupant	2001-11-111-1-2
MAIS	6=Maximum
Seat Position	Front right side

AIS Level	Injury Description	Contacts
6=Maximum	Thoracic crush (bi-lateral obliteration of chest cavity)	Right panel
6=Maximum	Hepatic avulsion (total separation of all vasculature)	Right panel
1=Minor	Neck skin laceration NFS	Unknown SOURCE
1=Minor	Facial skin laceration NFS	Right A pillar
1=Minor	Facial bone fracture NFS	Right A pillar
2=Moderate	Abdominal skin avulsion, major (>100cms ² , but EBL<202=Moderate)	Foot fracture NFS
Floor 2=Moderate	852002	Right panel

Occupant: 2001-11-111-2-1



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	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 < 0.5 KMPH
Est. δV with sequence number	SEVERE 1
CDC	12 F D E W 7
Damage (C1-C6)	48 63 80 104 140 165
Crush (L and D)	160 0
Object Contacted 1	VEHICLE NO. 1
Object Contacted 2	0

NASS Weighting Factor

Weighting factor	44.617
------------------	--------

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	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	Dodge Van derivative
Year	1992
Class	TRUCK
Body Type	LARGE VAN
Weight	173

Pre-Crash Driver Data

Accident Type	51
Pre-event Movement	NEGOTIATE CURVE
Critical Pre-crash Event	OPP DIR-OVR LEFT
Attempted Avoidance Manue- ver	No AVOIDANCE
Pre-impact Stability	TRACKING
Pre-impact Location	STAYED IN LANE

DRIVER Factors

Age	61	Height	185	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 Seat

Injuries

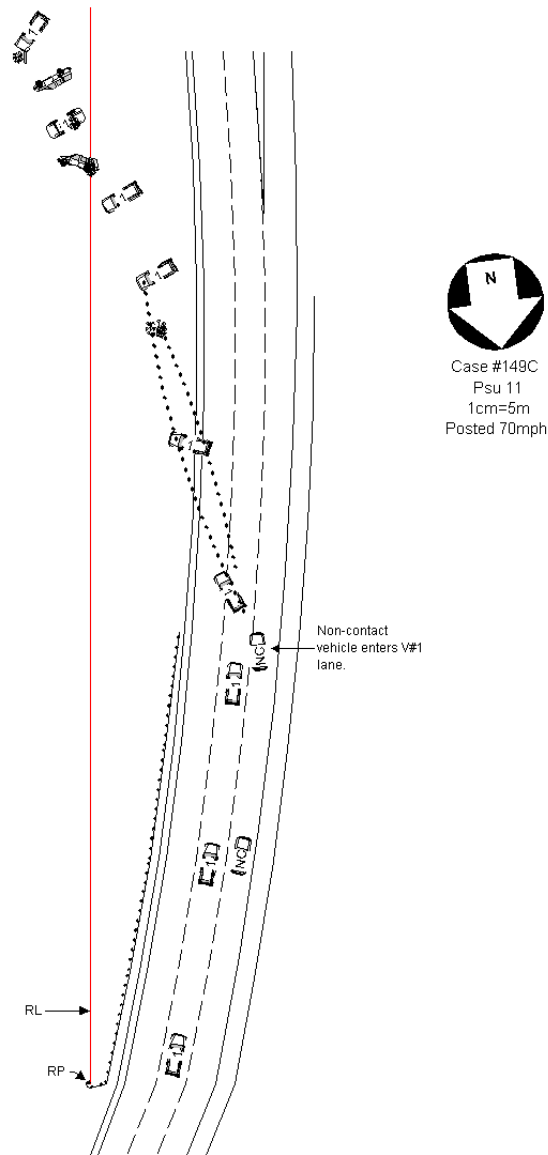
Occupant	2001-11-111-2-1
MAIS	5=Critical
Seat Position	Front left side

AIS Level	Injury Description	Contacts
3=Serious	Burn, 2nd or 3rd degree, 102=Moderate	Clavicle fracture
Belt webb/buckle 2=Moderate 5=Critical	Sternal fracture Flail chest, bilateral	Belt webb/buckle Belt webb/buckle
2=Moderate	Scalp avulsion, major (>100 cms2, blood loss <201=Minor	Scalp contusion
Unknown SOURCE 2=Moderate	Metatarsal or tarsal fracture	Foot controls
2=Moderate	Pelvic fracture, closed	Left apnel
1=Minor	Toe fracture	Foot controls

2 Case 2001-11-149

Summary:

Vehicle one, a 2002 Oldsmobile Bravada, was traveling south-west in lane two on a highway. A non-contact vehicle started to come into vehicle one's lane, from the right. Vehicle one's driver braked and steered left to avoid the car. Vehicle one departed the roadway on the left side of travel. Vehicle one rolled over four quarter turns coming to rest on a four tires facing northbound in the grassy median. The front right engine compartment caught on fire (minor) during the crash. Vehicle one was towed due to vehicle damage. The driver and four occupants of vehicle one were transported and released due to injuries they sustained during the crash.



Vehicle #	Body type	Make	Model	Year	Occ.#	Age	Occupant's sex	Maximum known occupant ais
1	COMPACT UTILITY	Oldsmobile	Bravada	2002	1	39	MALE	1=Minor
1	COMPACT UTILITY	Oldsmobile	Bravada	2002	2	39	FEMALE-NOT PREG	0=None
1	COMPACT UTILITY	Oldsmobile	Bravada	2002	3	10	FEMALE-NOT PREG	1=Minor
1	COMPACT UTILITY	Oldsmobile	Bravada	2002	4	10	FEMALE-NOT PREG	1=Minor
1	COMPACT UTILITY	Oldsmobile	Bravada	2002	5	14	FEMALE-NOT PREG	1=Minor

Occupant: 2001-11-149-1-1



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, behind rear axle
Fuel Tank Damage	No damage
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-OVERTRN
Object Contacted 2	0

NASS Weighting Factor

Weighting factor	45.653
------------------	--------

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 RIGHT

Pre-Crash Environment

Traffic Flow	DVDED/NO BARRIER
Number of Travel Lanes	THREE
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	INTERCHANGE REL
Traffic Control Device	
Police Reported Alcohol Presence	No ALCOHOL
Alcohol Test (< 95 indicates BAC 0.xx)	0

Vehicle Factors

Make-Model	Oldsmobile Bravada
Year	2002
Class	TRUCK
Body Type	COMPACT UTILITY
Weight	188

Pre-Crash Driver Data

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

DRIVER Factors

Age	39	Height	183	Weight	82
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	NONDEPLOYED
Airbag Deployment - Oth Seat	NONDEPLOYED

Injuries

Occupant	2001-11-149-1-1
MAIS	1=Minor
Seat Position	Front left side

AIS Level	Injury Description	Contacts
1=Minor	Upper extremity skin contusion	Belt webb/buckle
1=Minor	Thoracic skin contusion	Belt webb/buckle
1=Minor	Upper extremity skin laceration, minor	Roof
1=Minor	Scalp laceration, minor	Roof
1=Minor	Upper extremity skin abrasion	Roof
1=Minor	Digital nerve injury	Roof
	NFS	

Occupant: 2001-11-149-1-2



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, 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	< 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-OVERTRN
Object Contacted 2	0

NASS Weighting Factor

Weighting factor	45.653
------------------	--------

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 RIGHT

Pre-Crash Environment

Traffic Flow	DVDED/NO BARRIER
Number of Travel Lanes	THREE
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	INTERCHANGE REL
Traffic Control Device	
Police Reported Alcohol Presence	No ALCOHOL
Alcohol Test (< 95 indicates BAC 0.xx)	0

Vehicle Factors

Make-Model	Oldsmobile Bravada
Year	2002
Class	TRUCK
Body Type	COMPACT UTILITY
Weight	188

Pre-Crash Driver Data

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

PASSENGER Factors

Age	39	Height	155	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	NONDEPLOYED
Airbag Deployment - 1 st Seat	NONDEPLOYED
Airbag Deployment - Oth Seat	NONDEPLOYED

Injuries

Occupant	2001-11-149-1-2
MAIS	0=None
Seat Position	Front right side

AIS Level	Injury Description	Contacts
-----------	--------------------	----------

Occupant: 2001-11-149-1-3



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, behind rear axle
Fuel Tank Damage	No damage
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-OVERTRN
Object Contacted 2	0

NASS Weighting Factor

Weighting factor	45.653
------------------	--------

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 RIGHT

Pre-Crash Environment

Traffic Flow	DVDED/NO BARRIER
Number of Travel Lanes	THREE
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	INTERCHANGE REL
Traffic Control Device	
Police Reported Alcohol Presence	No ALCOHOL
Alcohol Test (< 95 indicates BAC 0.xx)	0

Vehicle Factors

Make-Model	Oldsmobile Bravada
Year	2002
Class	TRUCK
Body Type	COMPACT UTILITY
Weight	188

Pre-Crash Driver Data

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

PASSENGER Factors

Age	10	Height	132	Weight	32
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	NONDEPLOYED

Injuries

Occupant	2001-11-149-1-3
MAIS	1=Minor
Seat Position	Second left

AIS Level	Injury Description	Contacts
1=Minor	Facial skin contusion	Left window fram
1=Minor	Acute cervical spine strain without fracture or dislocation	Left window fram

Occupant: 2001-11-149-1-4



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, behind rear axle
Fuel Tank Damage	No damage
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-OVERTRN
Object Contacted 2	0

NASS Weighting Factor

Weighting factor	45.653
------------------	--------

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 RIGHT

Pre-Crash Environment

Traffic Flow	DVDED/NO BARRIER
Number of Travel Lanes	THREE
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	INTERCHANGE REL
Traffic Control Device	
Police Reported Alcohol Presence	No ALCOHOL
Alcohol Test (< 95 indicates BAC 0.xx)	0

Vehicle Factors

Make-Model	Oldsmobile Bravada
Year	2002
Class	TRUCK
Body Type	COMPACT UTILITY
Weight	188

Pre-Crash Driver Data

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

PASSENGER Factors

Age	10	Height	132	Weight	32
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	NONDEPLOYED

Injuries

Occupant	2001-11-149-1-4
MAIS	1=Minor
Seat Position	Second middle

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

Occupant: 2001-11-149-1-5



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, behind rear axle
Fuel Tank Damage	No damage
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-OVERTRN
Object Contacted 2	0

NASS Weighting Factor

Weighting factor	45.653
------------------	--------

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 RIGHT

Pre-Crash Environment

Traffic Flow	DVDED/NO BARRIER
Number of Travel Lanes	THREE
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	INTERCHANGE REL
Traffic Control Device	
Police Reported Alcohol Presence	No ALCOHOL
Alcohol Test (< 95 indicates BAC 0.xx)	0

Vehicle Factors

Make-Model	Oldsmobile Bravada
Year	2002
Class	TRUCK
Body Type	COMPACT UTILITY
Weight	188

Pre-Crash Driver Data

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

PASSENGER Factors

Age	14	Height	163	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	NONDEPLOYED

Injuries

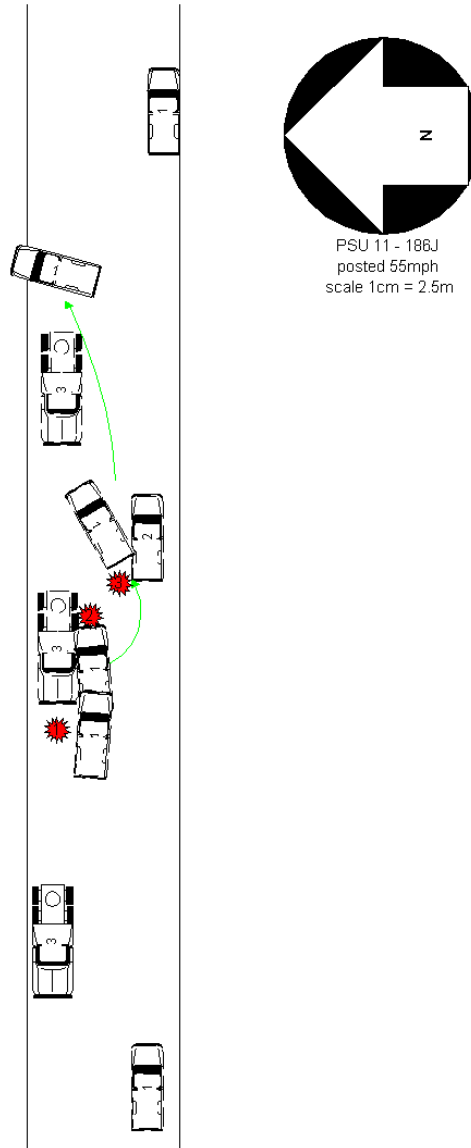
Occupant	2001-11-149-1-5
MAIS	1=Minor
Seat Position	Second right

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

3 Case 2001-11-186

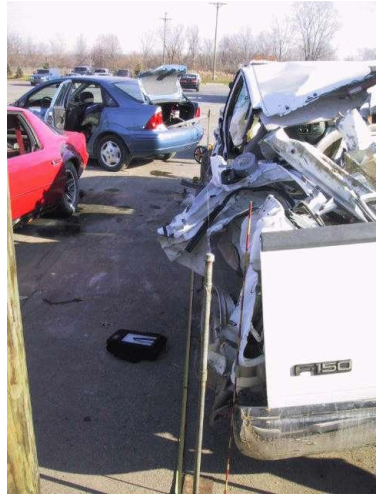
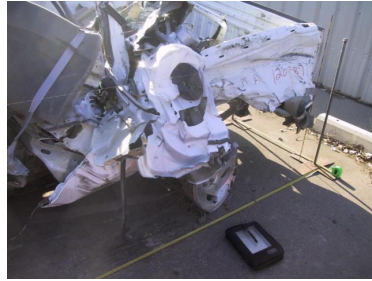
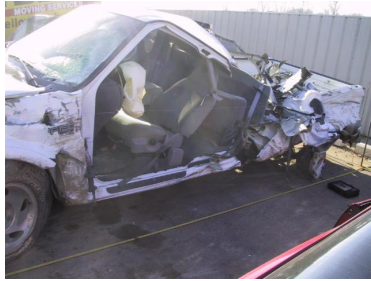
Summary:

Vehicle one, 2000 Ford F-150, was traveling east in lane one of two lane rural roadway. It should be noted that V1 was being tracked by a County Sheriff at the time of the crash. V3, 1994 Ford F-450 Dump Truck (Non-CDS), was traveling west in lane one of the same roadway. Vehicle 2, 1983 Chevy PU, was also traveling east in lane one, though, ahead of V1. Vehicle one, left, contacted vehicle 3, front, in the west bound lane. Vehicle one redirected to the south east and struck V2. V1, right, to V2 left. V1 redirected again this time to the north east and came to rest on the roadside. V2 and V3 came to controlled stops. The driver of vehicle one was MedFlighted to a local trauma center and hospitalized for 6 days. The passenger of V1 was transported and hospitalized for 3 days. The two occupants of V2 were transported and released from a local trauma center. All three vehicles were towed due to damage.



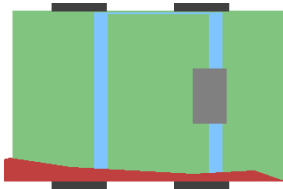
Vehicle	Body type	Make	Model	Year	Occ.#	Age	Occupant's sex	Maximum known occupant ais
1	LARGE PICKUP	Ford	F-series P/U	2000	1	18	MALE	2=Moderate
1	LARGE PICKUP	Ford	F-series P/U	2000	2	23	MALE	3=Serious
2	LARGE PICKUP	Chevrolet	C/K-series Pickup	1983	1	21	MALE	1=Minor
2	LARGE PICKUP	Chevrolet	C/K-series Pickup	1983	2	24	MALE	1=Minor

Occupant: 2001-11-186-1-1



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	< 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	11 L D E W 3
Damage (C1-C6)	9 34 21 16 11 16
Crush (L and D)	540 0
Object Contacted 1	VEHICLE NO. 3
Object Contacted 2	VEHICLE NO. 2

NASS Weighting Factor

Weighting factor	45.653
------------------	--------

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	DIRT
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

Vehicle Factors

Make-Model	Ford F-series P/U
Year	2000
Class	TRUCK
Body Type	LARGE PICKUP
Weight	209

Pre-Crash Driver Data

Accident Type	64
Pre-event Movement	GOING STRAIGHT
Critical Pre-crash Event	OVER LINE-LEFT
Attempted Avoidance Manue- ver	Other ACTION
Pre-impact Stability	LONGITUDINAL SKID
Pre-impact Location	Left TRAVEL LANE

DRIVER Factors

Age	18	Height	178	Weight	73
Gender			MALE		
Ejection			No EJECTION		
Ejection Area			No EJECTION		
Entrapment			ENTRAPPED		

Restraint Factors

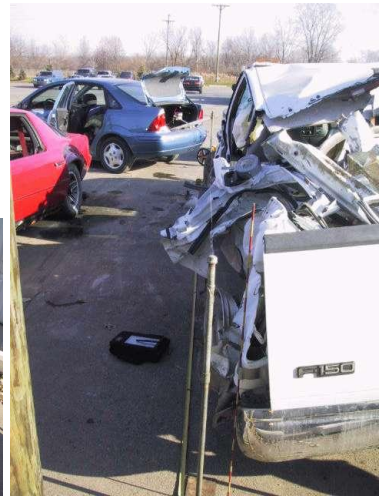
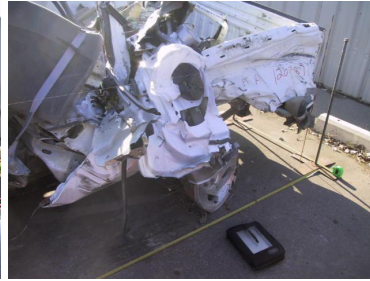
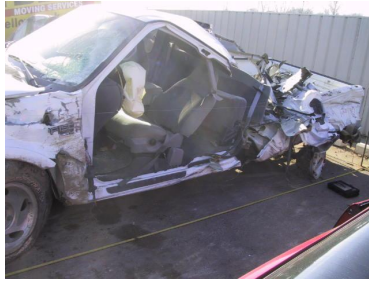
Restrain	Lap and shoulder
AOPS	YES-RES DET
Airbag Deployment	BAG DEPLOYED
Airbag Deployment - 1 st Seat	DR
PAS BAG DEPLY	
Airbag Deployment - Oth Seat	Not EQUIP W/ OTH

Injuries

Occupant	2001-11-186-1-1
MAIS	2=Moderate
Seat Position	Front left side

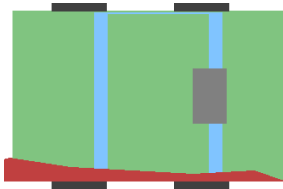
AIS Level	Injury Description	Contacts
1=Minor	Corneal laceration	Flying glass
1=Minor	Facial skin contusion	Left interior
1=Minor	Upper extremity skin laceration NFS	Left interior
1=Minor	Leg skin laceration NFS	Left interior
2=Moderate	Patellar fracture	Left interior
1=Minor	Iris laceration	Flying glass

Occupant: 2001-11-186-1-2



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, 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	11 L D E W 3
Damage (C1-C6)	9 34 21 16 11 16
Crush (L and D)	540 0
Object Contacted 1	VEHICLE NO. 3
Object Contacted 2	VEHICLE NO. 2

NASS Weighting Factor

Weighting factor	45.653
------------------	--------

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	DIRT
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

Vehicle Factors

Make-Model	Ford F-series P/U
Year	2000
Class	TRUCK
Body Type	LARGE PICKUP
Weight	209

Pre-Crash Driver Data

Accident Type	64
Pre-event Movement	GOING STRAIGHT
Critical Pre-crash Event	OVER LINE-LEFT
Attempted Avoidance Manue- ver	Other ACTION
Pre-impact Stability	LONGITUDINAL SKID
Pre-impact Location	Left TRAVEL LANE

PASSENGER Factors

Age	23	Height	178	Weight	82
Gender			MALE		
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	2001-11-186-1-2
MAIS	3=Serious
Seat Position	Front right side

AIS Level	Injury Description	Contacts
1=Minor	Upper extremity skin laceration, minor	Right hardware
1=Minor	Upper extremity skin laceration, minor	Flying glass
1=Minor	Thoracic skin abrasion	Oth interior obj
3=Serious	Cerebral contusion, single, small (<30ccs)	Right B pillar
1=Minor	Upper extremity skin abrasion	Belt webb/buckle
1=Minor	Facial skin laceration, minor	Air bag-PS side
1=Minor	Facial skin laceration, minor	Right B pillar
1=Minor	Upper extremity skin laceration, minor	Belt webb/buckle

Occupant: 2001-11-186-2-1

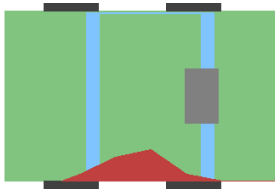


Fire Information

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

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



Crash Severity

Nr. Quarter Turns	No rollover
Impact Speed	998
Total, Longitudal, and Lateral δV	22 19 11
Est. δV with sequence number	DELTA V CODED 3
CDC	7 L Z E W 3
Damage (C1-C6)	11 35 47 11 0 0
Crush (L and D)	316 -50
Object Contacted 1	VEHICLE NO. 1
Object Contacted 2	0

Pre-Crash Environment

Traffic Flow	Not DIVIDED
Number of Travel Lanes	TWO
Roadway Alignment	STRAIGHT
Roadway Profile	LEVEL
Roadway Surface Type	DIRT
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	1983
Class	TRUCK
Body Type	LARGE PICKUP
Weight	157

NASS Weighting Factor

Weighting factor	45.653
------------------	--------

Pre-Crash Driver Data

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

DRIVER Factors

Age	21	Height	160	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 Seat

Injuries

Occupant	2001-11-186-2-1
MAIS	1=Minor
Seat Position	Front left side

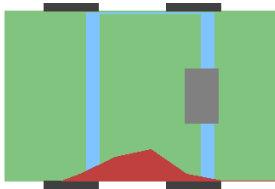
AIS Level	Injury Description	Contacts
1=Minor	Lumbar spine acute strain without fracture or dislocation	Other noncontact

Occupant: 2001-11-186-2-2



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, forward rear axle
Fuel Tank Damage	Punctured
Fuel Type	Gasoline



Crash Severity

Nr. Quarter Turns	No rollover
Impact Speed	998
Total, Longitudal, and Lateral δV	22 19 11
Est. δV with sequence number	DELTA V CODED 3
CDC	7 L Z E W 3
Damage (C1-C6)	11 35 47 11 0 0
Crush (L and D)	316 -50
Object Contacted 1	VEHICLE NO. 1
Object Contacted 2	0

NASS Weighting Factor

Weighting factor	45.653
------------------	--------

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	DIRT
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	1983
Class	TRUCK
Body Type	LARGE PICKUP
Weight	157

Pre-Crash Driver Data

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

PASSENGER Factors

Age	24	Height	180	Weight	79
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 Seat

Injuries

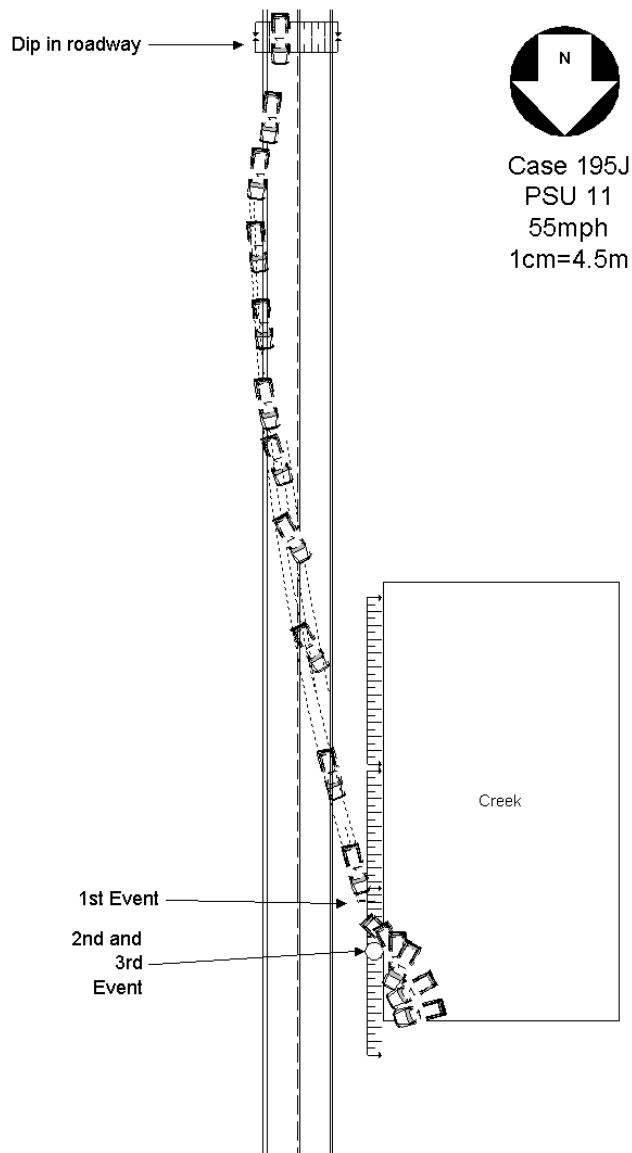
Occupant	2001-11-186-2-2
MAIS	1=Minor
Seat Position	Front right side

AIS Level	Injury Description	Contacts
1=Minor	Lumbar spine acute strain without fracture or dislocation	Other noncontact

4 Case 2001-11-195

Summary:

V1, a 2002 GMC Envoy was traveling north on a two lane non-physically divided, bituminous rural roadway. V1 left the right side of the roadway for an unknown reason, overcorrected, went into a counterclockwise yaw across the road, went off road and struck a road sign with its front. V1 then continued in a counterclockwise yaw and struck a large tree on V1's right side B pillar area. V1 then rotated clockwise, struck an unknown object with the left back side and came to a rest in a pond. V1 was towed due to severe disabling damage. Driver of V1 was transported and hospitalized due to injuries received during crash.



Vehicle#	Body type	Make	Model	Year	Occ.#	Age	Occupant's sex	Maximum known occupant AIS
1	COMPACT UTILITY	GMC	Jimmy/S-15 based	2002	1	52	MALE	3=Serious

Occupant: 2001-11-195-1-1



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, centered
Fuel Cap Location	Left side, behind 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 2
CDC	0 R P A W 5
Damage (C1-C6)	48 80 92 84 64 28
Crush (L and D)	158 -127
Object Contacted 1	LARGE TREE
Object Contacted 2	SMALL POLE

NASS Weighting Factor

Weighting factor	45.653
------------------	--------

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
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)	22

Vehicle Factors

Make-Model	GMC Jimmy/S-15 based
Year	2002
Class	TRUCK
Body Type	COMPACT UTILITY
Weight	290

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	LAT SKID-CTR CLK
Pre-impact Location	DEPARTED ROADWAY

DRIVER Factors

Age	52	Height	183	Weight	84
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	BAG DEPLOYED

Injuries

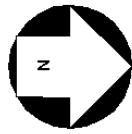
Occupant	2001-11-195-1-1
MAIS	3=Serious
Seat Position	Front left side

AIS Level	Injury Description	Contacts
1=Minor	Scalp laceration, minor	Right interior
1=Minor	Facial skin laceration, minor	Right panel
1=Minor	Facial skin laceration, minor	Right panel
1=Minor	Upper extremity skin contusion	Seat, back
1=Minor	Leg skin abrasion	Center panel
1=Minor	Leg skin abrasion	Knee bolster
1=Minor	Scalp contusion	Right interior
1=Minor	Thoracic skin abrasion	Belt webb/buckle
1=Minor	Abdominal skin abrasion	Belt webb/buckle
3=Serious	Cerebral contusion, NFS	Center panel
2=Moderate	Lumbar fracture of transverse process without cord injury	Seat, back
1=Minor	Rib cage fracture NFS	Steering comb
1=Minor	Facial skin contusion	Center panel
1=Minor	690402	Seat, back
1=Minor	Mandible body fracture, closed, +/- ramus involvement	Center panel
1=Minor	Upper extremity skin laceration NFS	Left apnel
1=Minor	Facial skin abrasion	Air bag-DR side
1=Minor	Upper extremity skin laceration NFS	Center panel
2=Moderate	Lumbar fracture of transverse process without cord injury	Seat, back
2=Moderate	Lumbar fracture of transverse process without cord injury	Seat, back

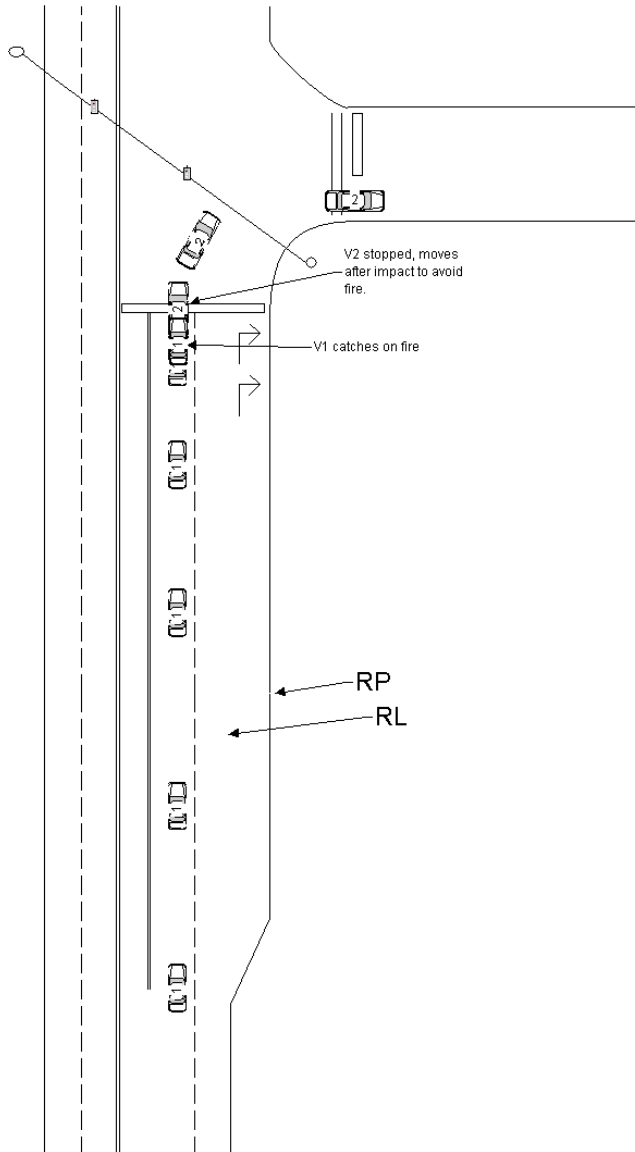
5 Case 2001-11-46

Summary:

V1, a 1999 Volkswagen Jetta, was traveling westbound on a 6 lane, with rightturn and center left turn lane, non-physically divided, bituminous, urban roadway. V2, a 2000 Lincoln, was traveling in the same direction on the same roadway but stopped for traffic. V1's front contacted V2's rear, consequently V1 caught on fire and entire engine compartment was burned. No occupants of either vehicle were injured. V1 was towed for disabling damage.



CASE 046G
PSU 11
40mph
1cm=4m



Vehicle	Body type	Make	Model	Year	Occ.#	Age	Occupant's sex	Maximum known occupant ais
1	4-DR SEDAN/HDTOP	VW	Jetta III	1999	1	20	FEMALE-NOT PREG	0=None

Occupant: 2001-11-46-1-1



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	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	29 -29 < 0.5 KMPH
Est. δV with sequence number	DELTA V CODED 1
CDC	12 F D E W 1
Damage (C1-C6)	1 11 12 12 9 0
Crush (L and D)	160 24
Object Contacted 1	VEHICLE NO. 2
Object Contacted 2	0

NASS Weighting Factor

Weighting factor	357.802
------------------	---------

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	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	INTERSECTION REL
Traffic Control Device	
Police Reported Alcohol Presence	No ALCOHOL
Alcohol Test (< 95 indicates BAC 0.xx)	0

Vehicle Factors

Make-Model	VW Jetta III
Year	1999
Class	PASSENGER CAR
Body Type	4-DR SEDAN/HDTOP
Weight	128

Pre-Crash Driver Data

Accident Type	20
Pre-event Movement	GOING STRAIGHT
Critical Pre-crash Event	STOPPED
Attempted Avoidance Manuever	BRAKE W/O LOCKUP
Pre-impact Stability	TRACKING
Pre-impact Location	STAYED IN LANE

DRIVER Factors

Age	20	Height	163	Weight	57
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	NONDEPLOYED

Injuries

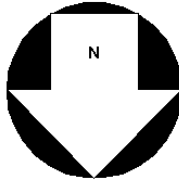
Occupant	2001-11-46-1-1
MAIS	0=None
Seat Position	Front left side

AIS Level	Injury Description	Contacts
-----------	--------------------	----------

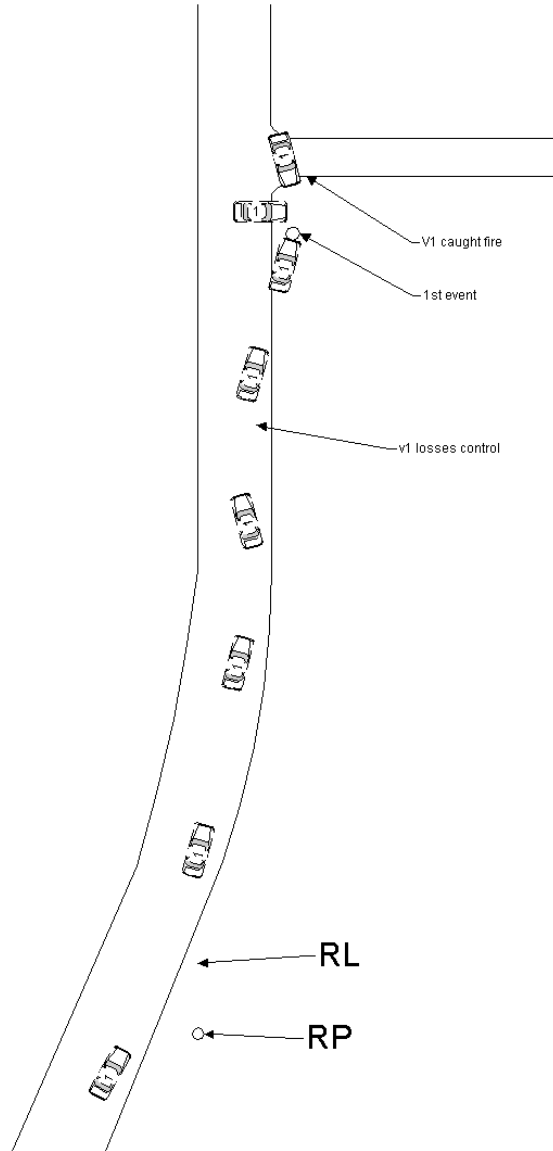
6 Case 2001-11-62

Summary:

V1, a 1999 Plymouth Neon, was traveling south on a two lane, non-physically divided, gravel roadway., V1 lost control and went off the road to the right. V1's front contacted a tree then vehicle 1 caught fire. V1 was totaled due to disabling damage. The single occupant was transported to local trauma center, treated for injuries received and released.

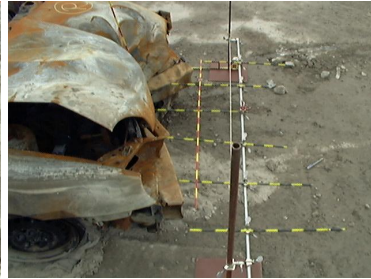


Case 062E
 PSU 11
 1cm=3.5m
 50mph



Vehicle	Body type	Make	Model	Year	Occ.#	Age	Occupant's sex	Maximum known occupant ais
1	2DR SEDAN/HT/CPE	Plymouth	20	1999	1	16	FEMALE-NOT PREG	1=Minor

Occupant: 2001-11-62-1-1



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	Not DIVIDED
Number of Travel Lanes	TWO
Roadway Alignment	CURVE LEFT
Roadway Profile	LEVEL
Roadway Surface Type	SLAG/GRAVL/STONE
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	37 -36 6
Est. δV with sequence number	DELTA V CODED 1
CDC	12 F D E W 3
Damage (C1-C6)	5 30 47 30 17 5
Crush (L and D)	140 -7
Object Contacted 1	LARGE TREE
Object Contacted 2	0

NASS Weighting Factor

Weighting factor	99.202
------------------	--------

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	Plymouth 20
Year	1999
Class	PASSENGER CAR
Body Type	2DR SEDAN/HT/CPE
Weight	112

Pre-Crash Driver Data

Accident Type	2
Pre-event Movement	NEGOTIATE CURVE
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	16	Height	160	Weight	57
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

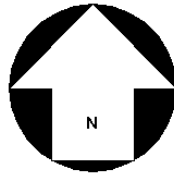
Occupant	2001-11-62-1-1
MAIS	1=Minor
Seat Position	Front left side

AIS Level	Injury Description	Contacts
1=Minor	Facial skin laceration, minor	Other noncontact
1=Minor	Acute cervical spine strain without fracture or dislocation	Other noncontact
1=Minor	Leg skin contusion (hematoma)	Knee bolster
1=Minor	Thoracic skin contusion	Belt webb/buckle
1=Minor	Abdominal skin contusion	Belt webb/buckle

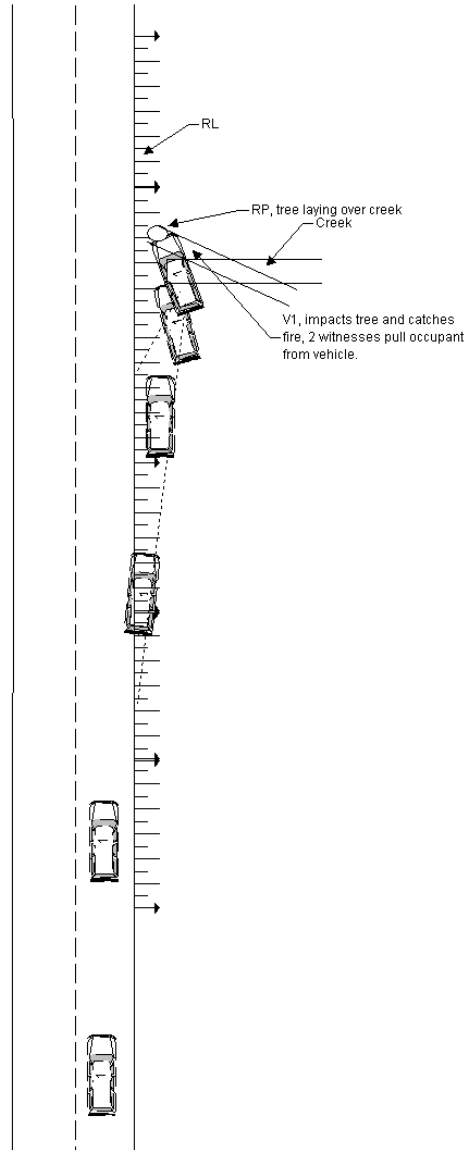
7 Case 2001-11-85

Summary:

V1, a 1995 GMC Jimmy was traveling north on a two lane bituminous rural roadway. V1 went off road to the right, traveled down embankment, contacted a tree, and subsequently caught fire. Two witness removed occupant from vehicle while he was unconscious before he was consumed by fire. Occupant was transported and hospitalized for multiple injuries received during crash. Vehicle was towed for disabling damage and severe fire damage.



CASE 085K
 PSU 11
 45MPH
 1CM=2.5M



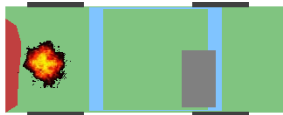
Vehicle#	Body type	Make	Model	Year	Occ.#	Age	Occupant's sex	Maximum known occupant AIS
1	COMPACT UTILITY	GMC	Jimmy/S-15 based	1995	1	64	MALE	4=Severe

Occupant: 2001-11-85-1-1



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	Deformed
Fuel Type	Gasoline



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 D A W 1
Damage (C1-C6)	20 19 21 24 24 17
Crush (L and D)	154 0
Object Contacted 1	LARGE TREE
Object Contacted 2	0

NASS Weighting Factor

Weighting factor	41.23
------------------	-------

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)	25

Vehicle Factors

Make-Model	GMC Jimmy/S-15 based
Year	1995
Class	TRUCK
Body Type	COMPACT UTILITY
Weight	182

Pre-Crash Driver Data

Accident Type	1
Pre-event Movement	GOING STRAIGHT
Critical Pre-crash Event	Unk CONTROL LOSS
Attempted Avoidance Manuever	No DRIVER
Pre-impact Stability	TRACKING
Pre-impact Location	DEPARTED ROADWAY

DRIVER Factors

Age	64	Height	180	Weight	113
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

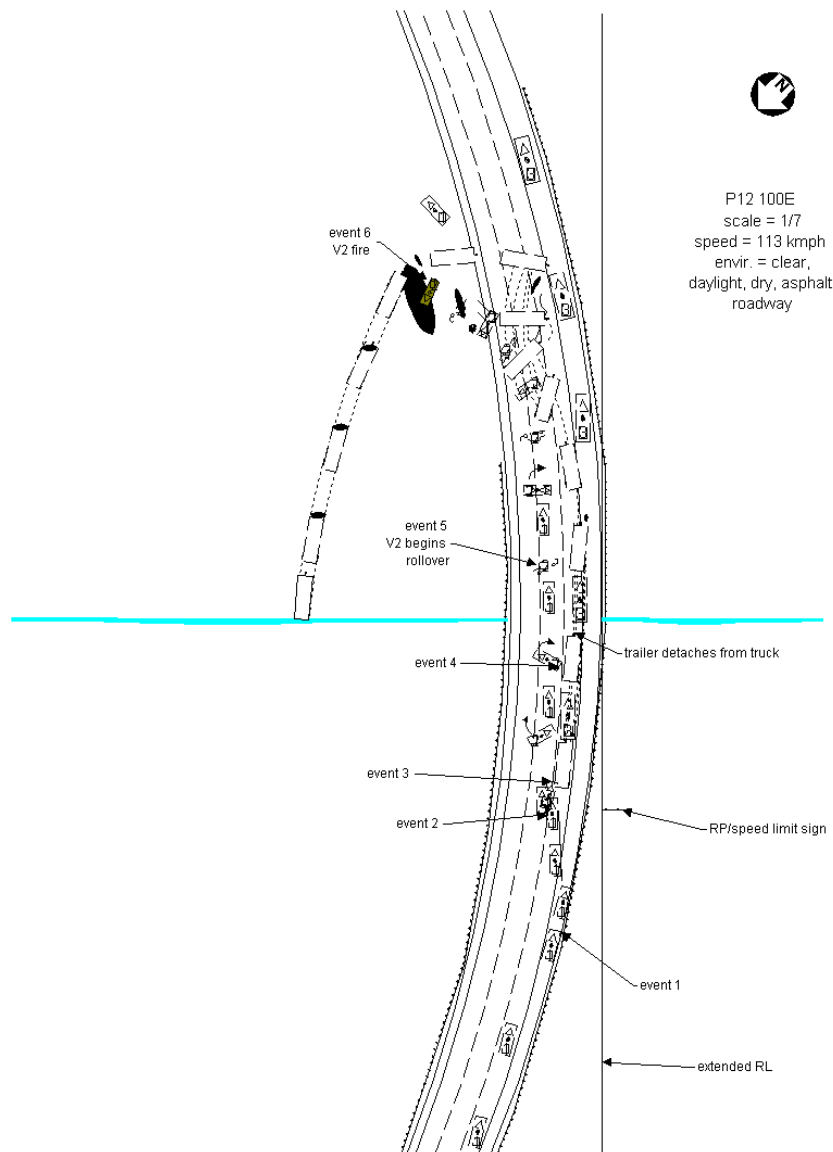
Occupant	2001-11-85-1-1
MAIS	4=Severe
Seat Position	Front left side

AIS Level	Injury Description	Contacts
1=Minor	Facial skin abrasion	Unknown SOURCE
1=Minor	Facial skin abrasion	Unknown SOURCE
4=Severe	Flail chest NFS	Unknown SOURCE
2=Moderate	Sternal fracture	Unknown SOURCE
2=Moderate	Hepatic laceration, minor (<3cms deep, EBL<203=Serious	Splenic laceration, moderate (>3 cms deep, no hilar injury)
Unknown SOURCE		
1=Minor	Leg skin contusion (hematoma)	Unknown SOURCE
1=Minor	Thoracic skin contusion	Unknown SOURCE
2=Moderate	Colonic laceration without perforation (partial thickness)	Unknown SOURCE
2=Moderate	Omental laceration NFS	Unknown SOURCE
2=Moderate	Colonic contusion (hematoma)	Unknown SOURCE

8 Case 2001-12-100

Summary:

Vehicles 1, 2, 3 were heading south down a 3 lane, 1 way, divided expressway without positive barrier. It was a clear day and the asphalt road was dry. Vehicle 1 was in the first lane and went off the road on the right side contacting a guardrail causing moderate damage to the vehicle. Vehicle 1 reentered the roadway and the left side contacted the right side of vehicle 2, which was travelling in the second lane, causing minor damage to both vehicles. Vehicle 2 then contacted the back of a trailer that vehicle 3 was towing, and began to rotate clockwise. After this impact to the trailer, the trailer came loose from vehicle 3 and started rotating clockwise. The back of vehicle 2 contacted the left side of the trailer and began to rollover. Vehicle 2 rolled left 8 quarter turns before final rest in the median facing in a north westerly direction and caught on fire. Vehicle 1 went off the road on the left side as well facing north easterly just south of vehicle 2 at final rest. The trailer, after rotating 90 degrees, began to roll backwards and rolled, off road, between vehicles 1 & 2 before final rest down an embankment by a creek. Vehicle 1 was towed due to damage. The trailer that vehicle 3 was towing was also towed. Occupant 1 of vehicle 2 was transported to a local trauma center for treatment of his injuries.



Vehicle	Body type	Make	Model	Year	Occ.#	Age	Occupant's sex	Maximum known occupant ais
2	COMPACT UTILITY	Chevrolet	S-10 Blazer	2000	1	42	MALE	1=Minor

Occupant: 2001-12-100-2-1



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, left side
Fuel Cap Location	Left side, behind rear axle
Fuel Tank Damage	No damage
Fuel Type	Gasoline



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	SEVERE 5
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	VEHICLE NO. 3

NASS Weighting Factor

Weighting factor	269.159
------------------	---------

Rollover Characteristics

Number of Events	6
Rollover Initiation Type	TRIP-OVER
Location of Rollover Initiation	ON ROADWAY
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	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	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	2000
Class	TRUCK
Body Type	COMPACT UTILITY
Weight	187

Pre-Crash Driver Data

Accident Type	98
Pre-event Movement	NEGOTIATE CURVE
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	175	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	NONDEPLOYED
Airbag Deployment - 1 st Seat	NONDEPLOYED
Airbag Deployment - Oth Seat	Not EQUIP W/ OTH

Injuries

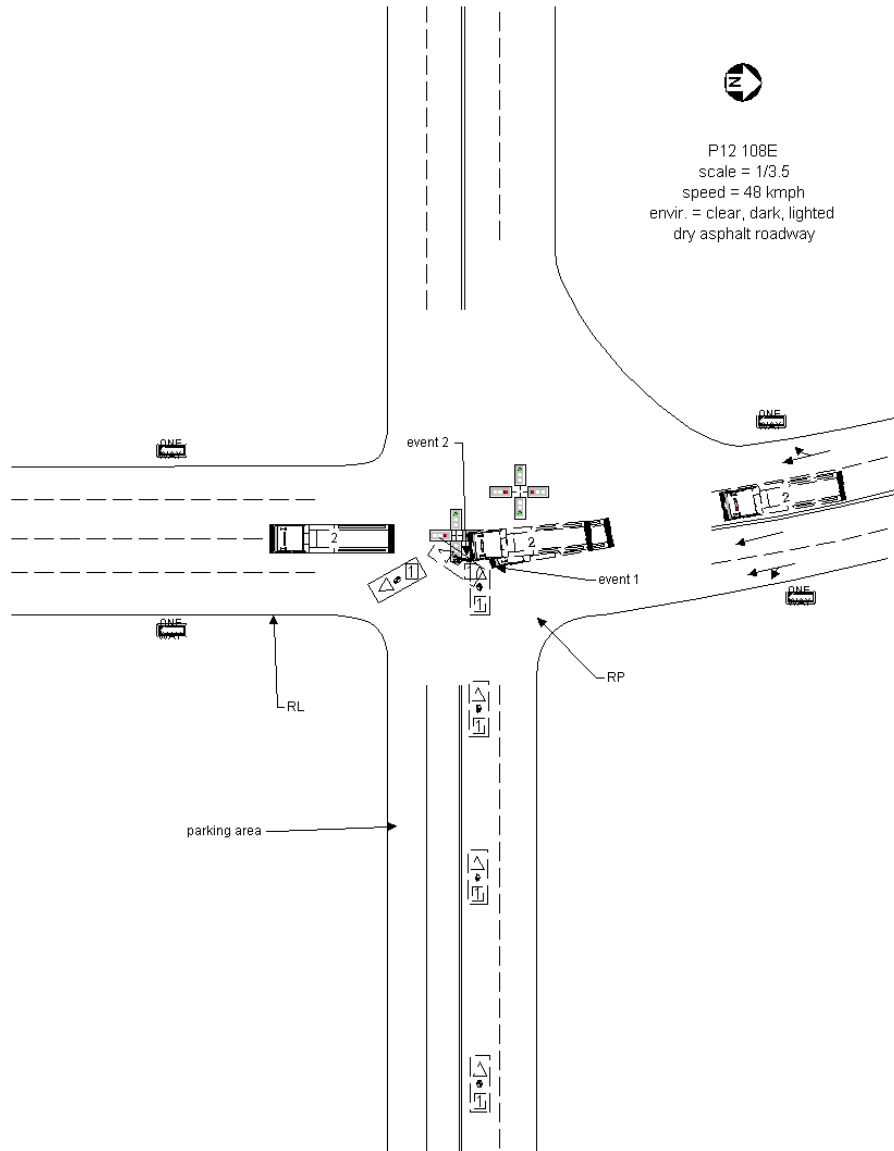
Occupant	2001-12-100-2-1
MAIS	1=Minor
Seat Position	Front left side

AIS Level	Injury Description	Contacts
1=Minor	690202	Unknown SOURCE
1=Minor	690402	Unknown SOURCE
1=Minor	Acute cervical spine strain without fracture or dislocation	Roof
1=Minor	Thoracic spine strain, acute without fracture or dislocation	Other noncontact
1=Minor	Scalp abrasion	Roof
1=Minor	Upper extremity skin abrasion	Belt webb/buckle

9 Case 2001-12-108

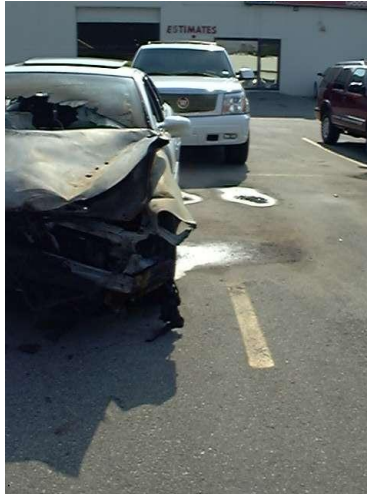
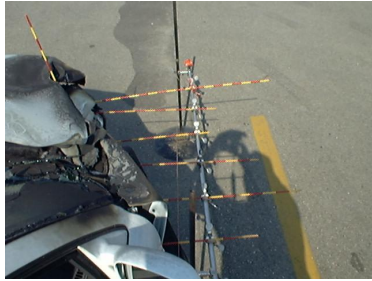
Summary:

Vehicle 1 was heading west in the 2nd lane of a 4 lane, 2 way, dry asphalt roadway, during dark, lighted conditions. Vehicle 2, a fire truck with lights activated, was heading south in the 3rd lane of a 4 lane, 1 way, asphalt roadway, during the same conditions as vehicle 1. The front of vehicle 2 contacted the right side of vehicle 1 causing vehicle 1 to rotate counterclockwise and hit vehicle 2 again with its right side. Vehicle 1 then caught on fire causing moderate damage to the vehicle. Vehicle 1 was towed due to damage. The only occupant of vehicle 1 was transported to a local trauma center for treatment of her injuries. Vehicle 1's occupant was protected by an airbag that did deploy and she was wearing her lap shoulder belt.



Vehicle #	Body type	Make	Model	Year	Occ.#	Age	Occupant's sex	Maximum known occupant ais
1	4-DR SEDAN/HDTOP	Pontiac	Grand AM	2000	1	32	FEMALE-NOT PREG	1=Minor

Occupant: 2001-12-108-1-1



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



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	2 R F E W 3
Damage (C1-C6)	4 13 23 46 36 48
Crush (L and D)	112 173
Object Contacted 1	VEHICLE NO. 2
Object Contacted 2	VEHICLE NO. 2

NASS Weighting Factor

Weighting factor	115.993
------------------	---------

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	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	Pontiac Grand AM
Year	2000
Class	PASSENGER CAR
Body Type	4-DR SEDAN/HDTOP
Weight	144

Pre-Crash Driver Data

Accident Type	87
Pre-event Movement	GOING STRAIGHT
Critical Pre-crash Event	XING ST-X PATH
Attempted Avoidance Manue- ver	No DRIVER
Pre-impact Stability	TRACKING
Pre-impact Location	STAYED IN LANE

DRIVER Factors

Age	32	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

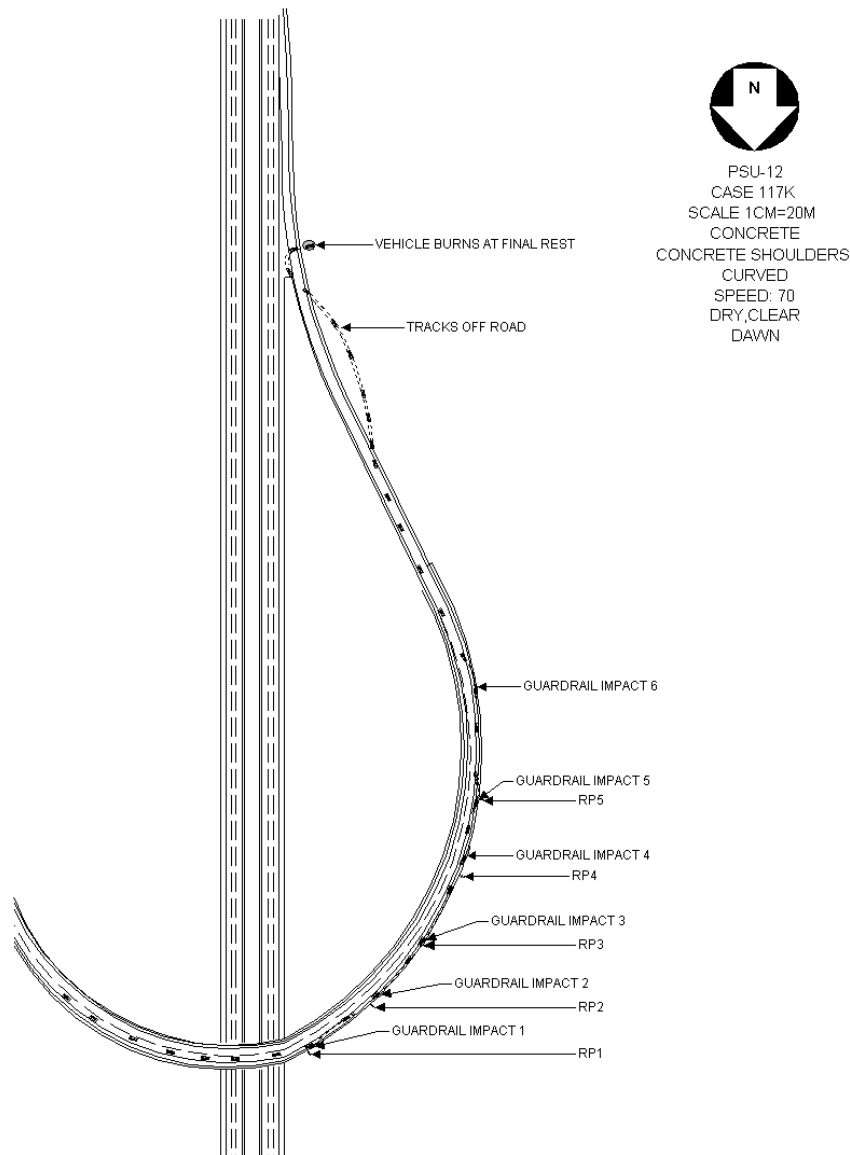
Occupant	2001-12-108-1-1
MAIS	1=Minor
Seat Position	Front left side

AIS Level	Injury Description	Contacts
1=Minor	Acute cervical spine strain without fracture or dislocation	Other noncontact
1=Minor	Thoracic spine strain, acute without fracture or dislocation	Other noncontact
1=Minor	Lumbar spine acute strain without fracture or dislocation	Other noncontact
1=Minor	Abdominal skin contusion	Belt webb/buckle
1=Minor	Upper extremity skin contusion	Air bag-DR side
1=Minor	Leg skin contusion (hematoma)	Transmiss lever

10 Case 2001-12-117

Summary:

Vehicle #1 was traveling north on a 3-lane concrete roadway, then took a ramp to a southbound 3-lane concrete roadway. The ramp begins as 2-lanes/one way and ends as a 1 lane/one way concrete roadway which curves from the northbound traffic to the southbound traffic. It was dawn, the sky was clear and the roadway was dry. The vehicle left the roadway to the right 6 times striking the guardrail with its front right side as the damage continued down the entire right side of the vehicle. The vehicle then left the roadway on the left side and came back onto the roadway. Then the vehicle left the roadway on the right and went down into a ditch. The vehicle made its way back up and onto the roadway making a sharp right turn back into the ditch on the right side of the roadway where it came to final rest. At this point the vehicle had caught fire and burned out of control. The driver was helped out by witnesses at the scene. The vehicle was towed due to damage caused by the fire. The vehicle was not equipped with airbags. The driver was reported as having incapacitating injuries and was transported to a local trauma center where she was admitted.



Vehicle #	Body type	Make	Model	Year	Occ.#	Age	Occupant's sex	Maximum known occupant AIS
1	4-DR SEDAN/HDTOP	Oldsmobile	Delta 88	1988	1	23	FEMALE-NOT PREG	3=Serious

Occupant: 2001-12-117-1-1



Fire Information

Fire Occurrence	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	Left side, behind rear axle
Fuel Tank Damage	No fuel tank
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	CONCRETE
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 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	12 F R E S 9
Damage (C1-C6)	0 0 0 0 0 8
Crush (L and D)	160 71
Object Contacted 1	Other BARRIER
Object Contacted 2	Other BARRIER

Vehicle Factors

Make-Model	Oldsmobile Delta 88
Year	1988
Class	PASSENGER CAR
Body Type	4-DR SEDAN/HDTOP
Weight	147

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

NASS Weighting Factor

Weighting factor	26.896
------------------	--------

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	23	Height	165	Weight	64
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	Not EQUIP/AVAIL
Airbag Deployment - Oth Seat	Not EQUIP W/ OTH

Injuries

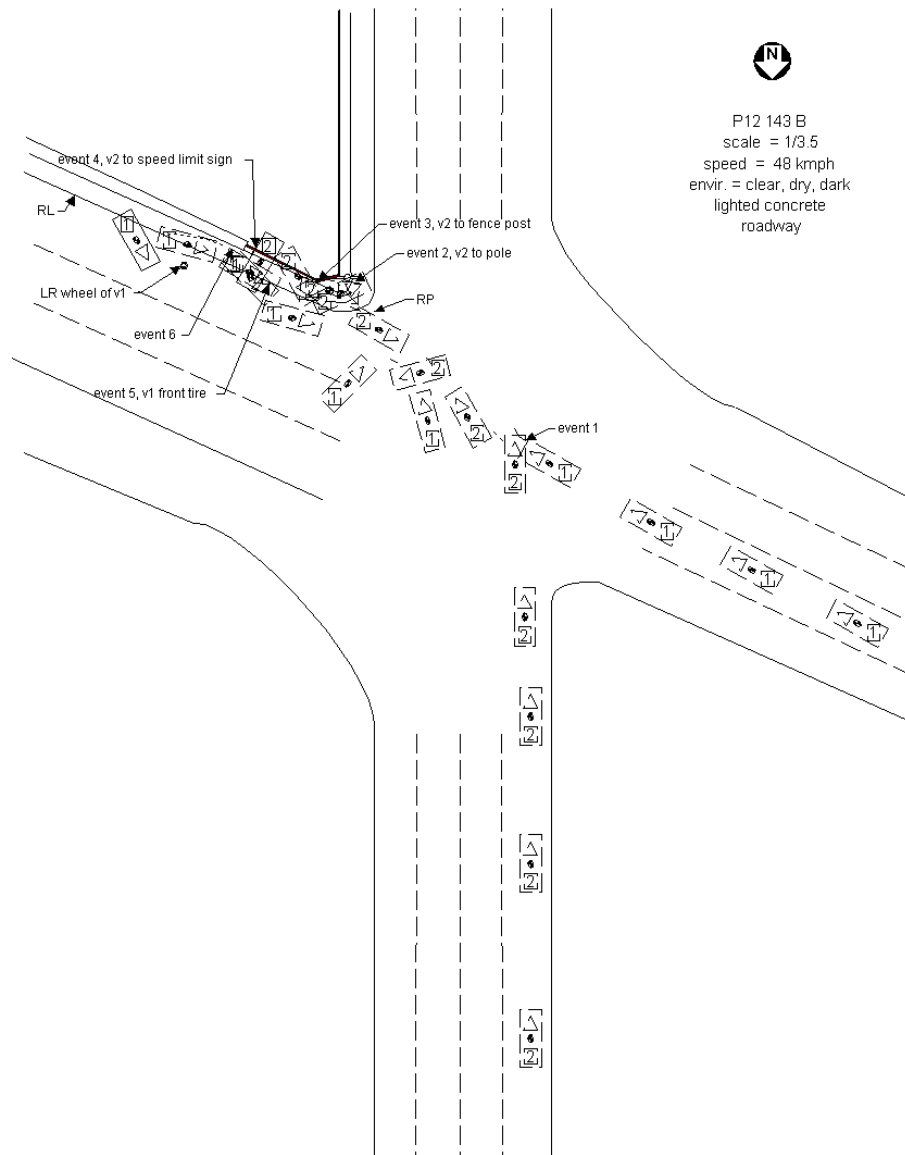
Occupant	2001-12-117-1-1
MAIS	3=Serious
Seat Position	Front left side

AIS Level	Injury Description	Contacts
1=Minor	Scalp contusion	Unknown SOURCE
1=Minor	Upper extremity skin laceration, minor	Unknown SOURCE
2=Moderate	Awake on admission, prior unconscious, length NFS	Unknown SOURCE
1=Minor	Upper extremity skin contusion	Unknown SOURCE
2=Moderate	Humeral fracture, closed	Unknown SOURCE
3=Serious	794006	Unknown SOURCE
1=Minor	Carpal-metacarpal or MCP joint dislocation	Unknown SOURCE
2=Moderate	Carpus or metacarpus fracture	Unknown SOURCE
1=Minor	Finger fracture	Unknown SOURCE
1=Minor	792000	Fire in vehicle

11 Case 2001-12-143

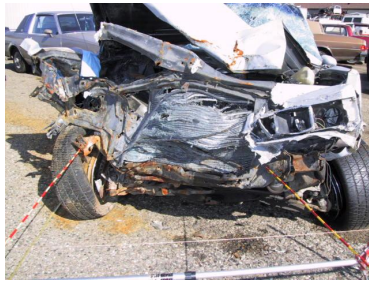
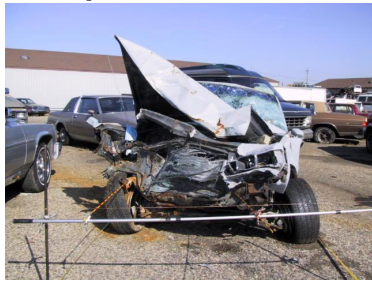
Summary:

Vehicle 1 was heading east in the 2nd lane of a 4 lane, 1 way concrete roadway. Vehicle 2 was heading south in the 1st lane of a 4 lane, 1 way concrete roadway. It was a clear, dark, lighted roadway with no adverse weather conditions. The front of vehicle 1 contacted the right side of vehicle 2 causing vehicle 2 to go off road on the south east corner of the intersection. Vehicle 2 then hit a light pole on the left side of the vehicle and rotated off the pole in a clockwise rotation and the back right of the vehicle contacted a chain link fence. Vehicle 2 continued to rotate and the right rear door contacted a speed limit sign before final rest. Vehicle 1 went off road on the south side of the road where the left rear of the vehicle contacted a bridge. Vehicle 1 had final rest in the west lane of east bound traffic. Both vehicles were towed due to damage. All occupants were transported to a local trauma center for treatment. Occupant 2 of vehicle 1 and occupant 1 of vehicle 2 were killed in the crash. The driver of vehicle 1 was hospitalized for injuries. None of the occupants were wearing lap shoulder belts. Vehicle 2 had driver passenger airbags that did deploy.



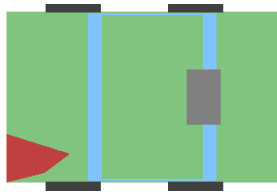
Vehicle	Body type	Make	Model	Year	Occ.#	Age	Occupant's sex	Maximum known occupant ais
1	2DR SEDAN/HT/CPE	Buick	Regal	1981	1	25	MALE	3=Serious
1	2DR SEDAN/HT/CPE	Buick	Regal	1981	2	23	MALE	6=Maximum
2	4-DR SEDAN/HDTOP	Pontiac	Grand Prix	1995	1	43	MALE	5=Critical

Occupant: 2001-12-143-1-1



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	51 -39 33
Est. δV with sequence number	DELTA V CODED 1
CDC	71 F D E W 3
Damage (C1-C6)	56 92 0 0 0 0
Crush (L and D)	168 0
Object Contacted 1	VEHICLE NO. 2
Object Contacted 2	BRIDGE

NASS Weighting Factor

Weighting factor	33.915
------------------	--------

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	ONE WAY
Number of Travel Lanes	FOUR
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)	24

Vehicle Factors

Make-Model	Buick Regal
Year	1981
Class	PASSENGER CAR
Body Type	2DR SEDAN/HT/CPE
Weight	149

Pre-Crash Driver Data

Accident Type	86
Pre-event Movement	GOING STRAIGHT
Critical Pre-crash Event	CROSS OVER INTER
Attempted Avoidance Manuever	No DRIVER
Pre-impact Stability	TRACKING
Pre-impact Location	STAYED IN LANE

DRIVER Factors

Age	25	Height	152	Weight	77
Gender			MALE		
Ejection			No EJECTION		
Ejection Area			No EJECTION		
Entrapment			Not ENTRAPPED		

Restraint Factors

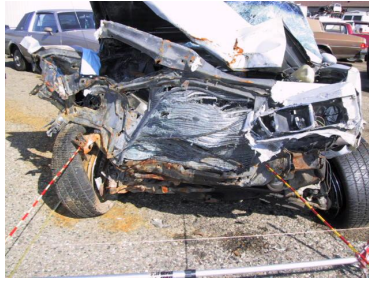
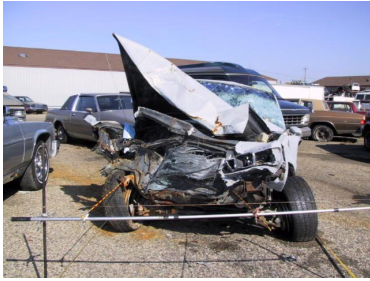
Restrain	None used/avail
AOPS	NO
Airbag Deployment	Not EQUIP/AVAIL
Airbag Deployment - 1 st Seat	Not EQUIP/AVAIL
Airbag Deployment - Oth Seat	Not EQUIP W/ OTH

Injuries

Occupant	2001-12-143-1-1
MAIS	3=Serious
Seat Position	Front left side

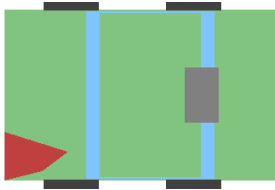
AIS Level	Injury Description	Contacts
1=Minor	Scalp laceration, NFS	Windshield
1=Minor	Upper extremity skin laceration NFS	Windshield
1=Minor	Facial skin abrasion	Left A pillar
1=Minor	Facial skin abrasion	Left A pillar
2=Moderate	Ankle joint dislocation NFS	Foot controls
3=Serious	Tibial shaft fracture, open/displaced/comminuted	Left apnel
2=Moderate	Fibular head, neck, or shaft fracture	Left apnel
1=Minor	Awake on admission, never unconscious	Windshield

Occupant: 2001-12-143-1-2



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	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	51 -39 33
Est. δV with sequence number	DELTA V CODED 1
CDC	71 F D E W 3
Damage (C1-C6)	56 92 0 0 0 0
Crush (L and D)	168 0
Object Contacted 1	VEHICLE NO. 2
Object Contacted 2	BRIDGE

NASS Weighting Factor

Weighting factor	33.915
------------------	--------

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	ONE WAY
Number of Travel Lanes	FOUR
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)	24

Vehicle Factors

Make-Model	Buick Regal
Year	1981
Class	PASSENGER CAR
Body Type	2DR SEDAN/HT/CPE
Weight	149

Pre-Crash Driver Data

Accident Type	86
Pre-event Movement	GOING STRAIGHT
Critical Pre-crash Event	CROSS OVER INTER
Attempted Avoidance Manuever	No DRIVER
Pre-impact Stability	TRACKING
Pre-impact Location	STAYED IN LANE

PASSENGER Factors

Age	23	Height	185	Weight	86
Gender			MALE		
Ejection			No EJECTION		
Ejection Area			No EJECTION		
Entrapment			Not ENTRAPPED		

Restraint Factors

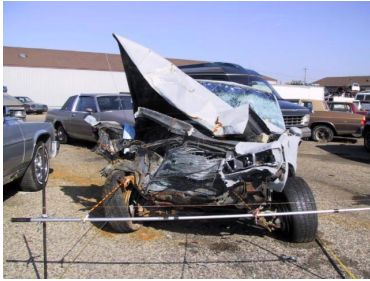
Restrain	None used/avail
AOPS	NO
Airbag Deployment	Not EQUIP/AVAIL
Airbag Deployment - 1 st Seat	Not EQUIP/AVAIL
Airbag Deployment - Oth Seat	Not EQUIP W/ OTH

Injuries

Occupant	2001-12-143-1-2
MAIS	6=Maximum
Seat Position	Front right side

AIS Level	Injury Description	Contacts
6=Maximum	Thoracic aortic laceration, and extramedastinal bleeding	Right panel
1=Minor	Facial skin laceration, minor	Windshield
1=Minor	Facial skin abrasion	Windshield
1=Minor	Upper extremity skin abrasion	Right panel
2=Moderate	Metatarsal or tarsal fracture	Floor
1=Minor	Leg skin abrasion	Right panel
3=Serious	Lung contusion, unilateral	Right panel

Occupant: 2001-12-143-2-1



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

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



Crash Severity

Nr. Quarter Turns	No rollover
Impact Speed	998
Total, Longitudal, and Lateral δV	51 -17 -48
Est. δV with sequence number	DELTA V CODED 1
CDC	62 R Y A W 5
Damage (C1-C6)	13 50 95 87 42 0
Crush (L and D)	230 39
Object Contacted 1	VEHICLE NO. 1
Object Contacted 2	MEDIUM POLE

NASS Weighting Factor

Weighting factor	33.915
------------------	--------

Pre-Crash Environment

Traffic Flow	ONE WAY
Number of Travel Lanes	FOUR
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	Pontiac Grand Prix
Year	1995
Class	PASSENGER CAR
Body Type	4-DR SEDAN/HDTOP
Weight	150

Pre-Crash Driver Data

Accident Type 87
 Pre-event Movement GOING STRAIGHT
 Critical Pre-crash Event XING ST-X PATH
 Attempted Avoidance Maneuver No DRIVER
 Pre-impact Stability TRACKING
 Pre-impact Location STAYED IN LANE

DRIVER Factors

Age 43 Height 176 Weight 100
 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 - 1st Seat DR
 PAS BAG DEPLY
 Airbag Deployment - Oth Not EQUIP W/ OTH
 Seat

Injuries

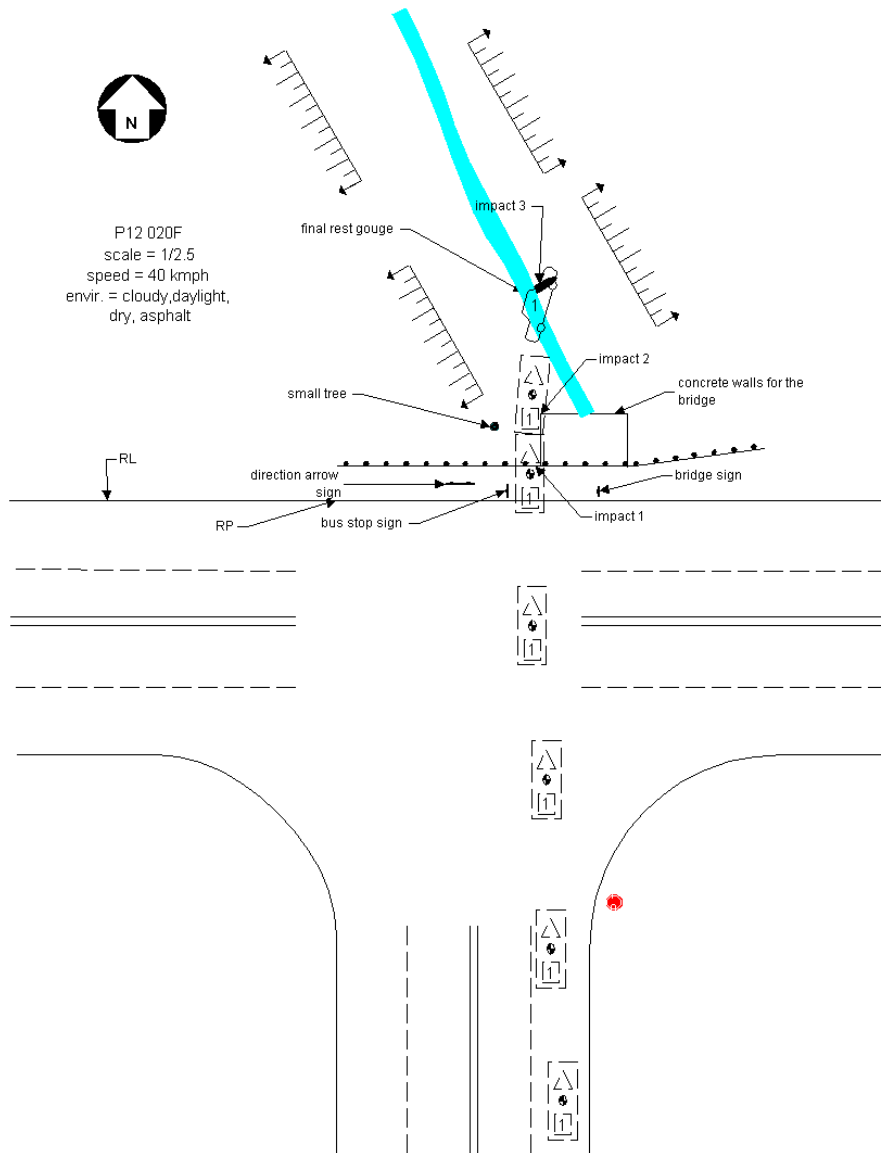
Occupant 2001-12-143-2-1
 MAIS 5=Critical
 Seat Position Front left side

AIS Level	Injury Description	Contacts
5=Critical	Thoracic aortic laceration, major NFS	Right interior
1=Minor	Thoracic skin abrasion	Steering rim
1=Minor	Abdominal skin abrasion	Steering rim
1=Minor	Thoracic skin abrasion	Right interior
1=Minor	Upper extremity skin abrasion	Right interior
1=Minor	Leg skin abrasion	Center panel
1=Minor	Leg skin laceration, minor	Center panel
1=Minor	Abdominal skin abrasion	Right interior
4=Severe	>3 rib fxs on each side, stable chest	Right interior
3=Serious	Lung laceration, unilateral NFS	Right interior
2=Moderate	Pericardial laceration (puncture)	Right interior
5=Critical	Thoracic cord laceration, complete NFS	Right interior
3=Serious	Pancreatic contusion, major (duct involvement, large)	Right interior
4=Severe	Hepatic laceration, major (<504=Severe)	Cerebral subdural hematoma, small (<50ccs)
Other noncontact		
3=Serious	Myocardial contusion NFS	Right interior

12 Case 2001-12-20

Summary:

Vehicle 1 was in the 1st lane of a 4 lane, 2 way, dry, asphalt roadway, during cloudy, daylight conditions. The vehicle went straight through a "T" intersection and departed the road. The undercarriage of the vehicle contacted a guardrail where the gas tank was holed, before the vehicle went airborne. As the vehicle was in the air, the undercarriage scraped a concrete wall which rolled the vehicle slightly to the left and then into a creek. The vehicle rolled a 1/4 turn and was resting on its left side at final rest. The vehicle was towed due to damage. The only occupant of this crash was hospitalized for a sugar problem. No injuries were reported because of the crash. This occupant was wearing an automatic lap shoulder belt that attached to the door.



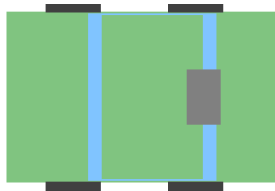
Vehicle #	Body type	Make	Model	Year	Occ.#	Age	Occupant's sex	Maximum known occupant AIS
1	4-DR SEDAN/HDTOP	Pontiac	Grand AM	1993	1	48	FEMALE-NOT PREG	0=None

Occupant: 2001-12-20-1-1



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	Punctured
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 1
CDC	0 U D D W 0
Damage (C1-C6)	0 0 0 0 0 0
Crush (L and D)	0 0
Object Contacted 1	Other BARRIER
Object Contacted 2	ROLLOVER-OVERTRN

NASS Weighting Factor

Weighting factor 1095.924

Rollover Characteristics

Number of Events	4
Rollover Initiation Type	CLIMB-OVER
Location of Rollover Initiation	ROADSIDE/MEDIAN
Rollover Initiation Object Contacted	BRIDGE
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	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	Pontiac Grand AM
Year	1993
Class	PASSENGER CAR
Body Type	4-DR SEDAN/HDTOP
Weight	127

Pre-Crash Driver Data

Accident Type	14
Pre-event Movement	GOING STRAIGHT
Critical Pre-crash Event	END DEPARTURE
Attempted Avoidance Manuever	No DRIVER
Pre-impact Stability	TRACKING
Pre-impact Location	STAYED IN LANE

DRIVER Factors

Age	48	Height	163	Weight	63
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	Not EQUIP/AVAIL
Airbag Deployment - Oth Seat	Not EQUIP W/ OTH

Injuries

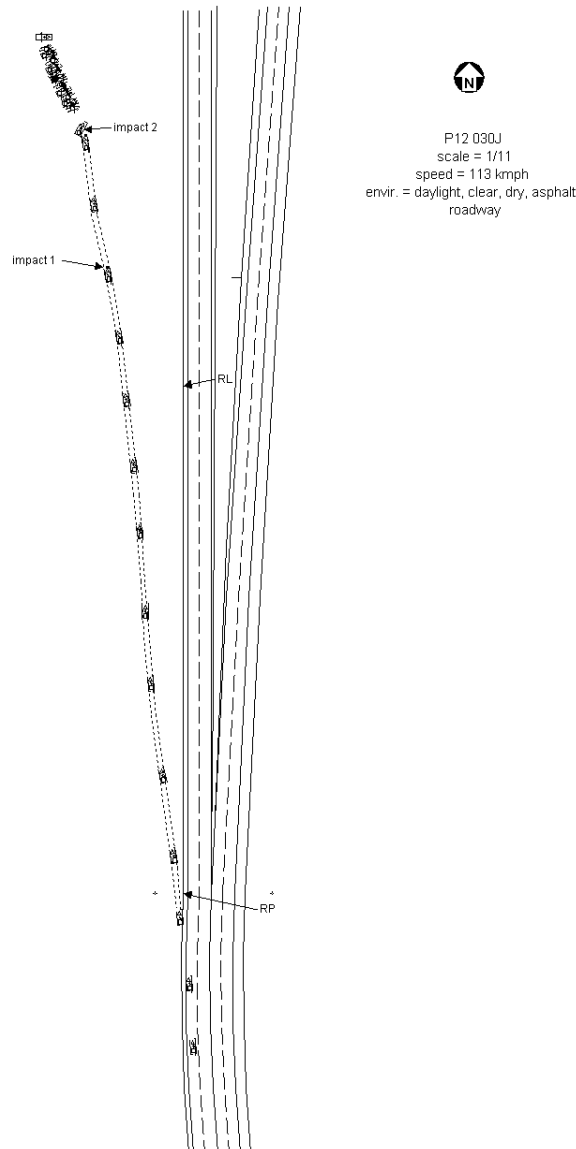
Occupant	2001-12-20-1-1
MAIS	0=None
Seat Position	Front left side

AIS Level	Injury Description	Contacts
-----------	--------------------	----------

13 Case 2001-12-30

Summary:

Vehicle 1 was heading north on a 4 lane, 1 way, dry, divided, without positive barrier, asphalt roadway, during daylight conditions. The vehicle departed the road on the left side. This vehicle travelled several meters through the median before the front of the vehicle contacted a small tree. After the vehicle drove through the first tree it travelled several meters again before the front contacted a bigger tree. This tree was sheared at the base of the tree and the roots were pulled up out of the ground. The vehicle started to rotate clockwise after this impact and began to rollover. After rolling 12 quarter turns the vehicle had final rest on its wheels. The vehicle was towed due to damage. The only occupant was transported to a local trauma center where he was hospitalized for his injuries. This occupant was wearing a lap shoulder belt and was protected by a driver's side airbag that deployed from the steering wheel.



Vehicle	Body type	Make	Model	Year	Occ.#	Age	Occupant's sex	Maximum known occupant ais
1	2DR SEDAN/HT/CPE	Pontiac	Grand AM	1999	1	29	MALE	2=Moderate

Occupant: 2001-12-30-1-1



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	ONE WAY
Number of Travel Lanes	FOUR
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	INTERCHANGE REL
Traffic Control Device	
Police Reported Alcohol Presence	No ALCOHOL
Alcohol Test (< 95 indicates BAC 0.xx)	0

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	DELTA V CODED 2
CDC	12 F Z E N 4
Damage (C1-C6)	4 20 41 60 77 44
Crush (L and D)	152 32
Object Contacted 1	LARGE TREE
Object Contacted 2	ROLLOVER-OVERTRN

NASS Weighting Factor

Weighting factor	70.078
------------------	--------

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 LEFT

Vehicle Factors

Make-Model	Pontiac Grand AM
Year	1999
Class	PASSENGER CAR
Body Type	2DR SEDAN/HT/CPE
Weight	139

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	29	Height	183	Weight	127
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

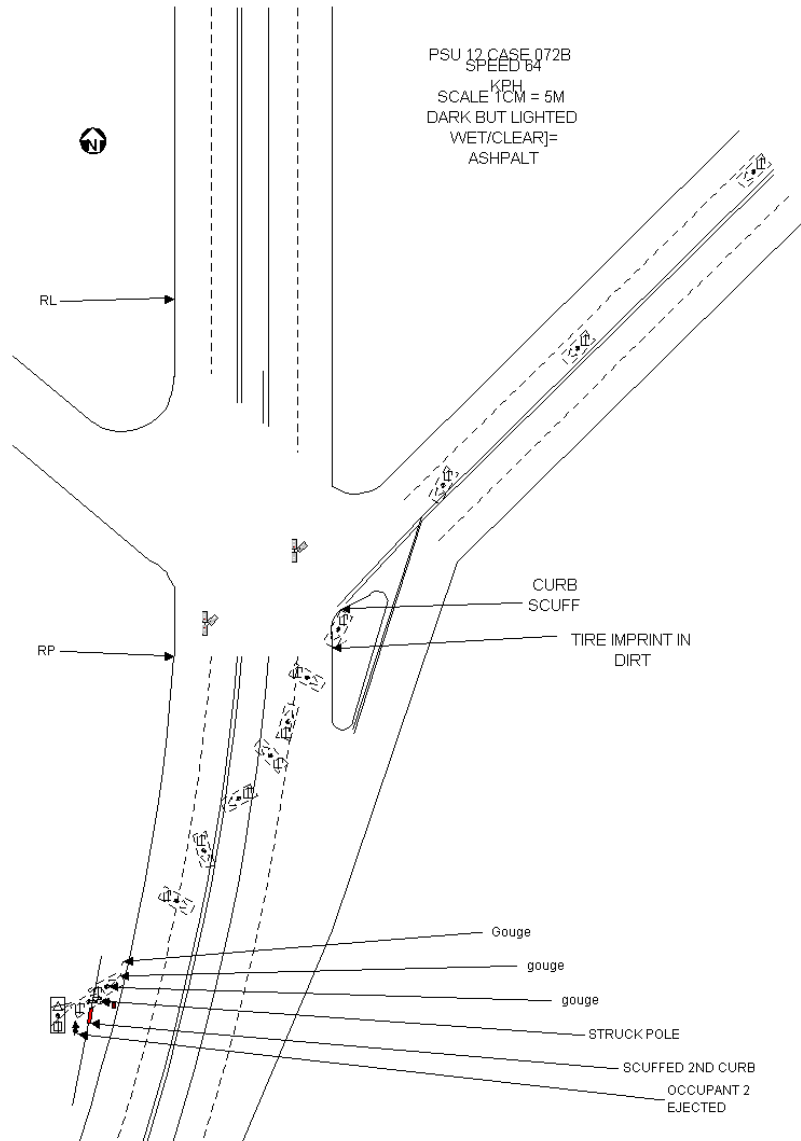
Occupant	2001-12-30-1-1
MAIS	2=Moderate
Seat Position	Front left side

AIS Level	Injury Description	Contacts
1=Minor	851203	Center panel
2=Moderate	Fibular head, neck, or shaft fracture	Center panel
2=Moderate	Tibial fracture medial malleolus, open/displaced/comminuted	Center panel
1=Minor	Scalp laceration, NFS	Left B pillar
1=Minor	Upper extremity skin laceration NFS	Flying glass
1=Minor	Upper extremity skin abrasion	Flying glass
1=Minor	297402	Air bag-DR side
1=Minor	297402	Air bag-DR side

14 Case 2001-12-72

Summary:

Vehicle 1 was headed southwest on a 4 lane, wet, asphalt roadway after dark and during a rain storm. At a high rate of speed, vehicle 1 approached an angled intersection, struck the curb of an asphalt, raised island, lost control and began skidding in a counter-clockwise motion. He then left the roadway to the right and slid into a telephone pole backward. The pole penetrated the vehicle beginning on the right side toward the rear of the vehicle until the vehicle had rotated around the pole and continued rearward enough for the pole to strike the front right instrument panel prior to final rest off road. Occupant 2, a pregnant female in the 2nd trimester of her pregnancy, was ejected through the breached roof. Occupant 4 was trapped between the rear side panel and the rear seatback where he died of his injuries. All other occupants were transported to a medical facility due to their injuries and the vehicle was towed due to damages sustained in the crash. None of the occupants were wearing their seatbelts during the crash.



Vehicle	Body type	Make	Model	Year	Occ.#	Age	Occupant's sex	Maximum known occupant ais
1	4-DR SEDAN/HDTOP	Honda	Accord	1994	1	25	MALE	3=Serious
1	4-DR SEDAN/HDTOP	Honda	Accord	1994	2	22	FEMALE-NOT PREG	3=Serious
1	4-DR SEDAN/HDTOP	Honda	Accord	1994	3	22	FEM-PREG 2ND TRI	1=Minor
1	4-DR SEDAN/HDTOP	Honda	Accord	1994	4	32	MALE	5=Critical

Occupant: 2001-12-72-1-1

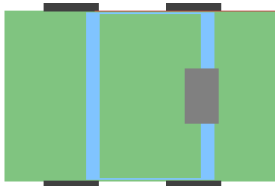


Fire Information

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

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



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	65 R Z A W 5
Damage (C1-C6)	0 0 0 0 0 0
Crush (L and D)	0 0
Object Contacted 1	LARGE POLE
Object Contacted 2	CURB

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	ALCOHOL PRESENT
Alcohol Test (< 95 indicates BAC 0.xx)	19

Vehicle Factors

Make-Model	Honda Accord
Year	1994
Class	PASSENGER CAR
Body Type	4-DR SEDAN/HDTOP
Weight	105

NASS Weighting Factor

Weighting factor	33.915
------------------	--------

Pre-Crash Driver Data

Accident Type	7
Pre-event Movement	GOING STRAIGHT
Critical Pre-crash Event	OVER LINE-LEFT
Attempted Avoidance Maneuver	No DRIVER
Pre-impact Stability	LAT SKID-CTR CLK
Pre-impact Location	DEPARTED ROADWAY

DRIVER Factors

Age	25	Height	173	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	NONDEPLOYED
Airbag Deployment - 1 st Seat	NONDEPLOYED
Airbag Deployment - Oth Seat	Not EQUIP W/ OTH Seat

Injuries

Occupant	2001-12-72-1-1
MAIS	3=Serious
Seat Position	Front left side

AIS Level	Injury Description	Contacts
1=Minor	Upper extremity skin contusion	Seat, back
1=Minor	Facial skin abrasion	Other occupants
1=Minor	Scalp abrasion	Other occupants
2=Moderate	Clavicle fracture	Seat, back
3=Serious	Lung contusion, uni-lateral	Seat, back
1=Minor	Awake on admission, NFS	Other occupants
1=Minor	Facial skin abrasion	Other occupants
1=Minor	Facial skin laceration	Other occupants
	NFS	

Occupant: 2001-12-72-1-2

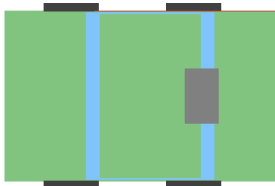


Fire Information

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	Deform+seam fail
Fuel Type	Gasoline

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



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	65 R Z A W 5
Damage (C1-C6)	0 0 0 0 0 0
Crush (L and D)	0 0
Object Contacted 1	LARGE POLE
Object Contacted 2	CURB

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	ALCOHOL PRESENT
Alcohol Test (< 95 indicates BAC 0.xx)	19

Vehicle Factors

Make-Model	Honda Accord
Year	1994
Class	PASSENGER CAR
Body Type	4-DR SEDAN/HDTOP
Weight	105

NASS Weighting Factor

Weighting factor	33.915
------------------	--------

Pre-Crash Driver Data

Accident Type	7
Pre-event Movement	GOING STRAIGHT
Critical Pre-crash Event	OVER LINE-LEFT
Attempted Avoidance Manue- ver	No DRIVER
Pre-impact Stability	LAT SKID-CTR CLK
Pre-impact Location	DEPARTED ROADWAY

PASSENGER Factors

Age	22	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	YES-RES DET
Airbag Deployment	NONDEPLOYED
Airbag Deployment - 1 st Seat	NONDEPLOYED
Airbag Deployment - Oth Seat	Not EQUIP W/ OTH Seat

Injuries

Occupant	2001-12-72-1-2
MAIS	3=Serious
Seat Position	Front right side

AIS Level	Injury Description	Contacts
1=Minor	Tongue laceration, su- perficial	Other noncontact
1=Minor	Leg skin contusion (hematoma)	Transmiss lever
3=Serious	Femoral shaft fracture	Seat, back
1=Minor	Facial skin abrasion	Roof
2=Moderate	Pelvic fracture, closed	Transmiss lever
2=Moderate	Pelvic fracture, closed	Transmiss lever
1=Minor	297402	Ground
1=Minor	Upper extremity skin abrasion	Ground
1=Minor	Awake on admission, never unconscious	Ground
1=Minor	Leg skin abrasion	Ground
1=Minor	Leg skin laceration, minor	Ground
1=Minor	Leg skin contusion (hematoma)	Ground

Occupant: 2001-12-72-1-3

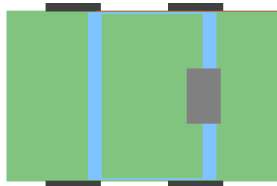


Fire Information

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	Deform+seam fail
Fuel Type	Gasoline

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



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	65 R Z A W 5
Damage (C1-C6)	0 0 0 0 0 0
Crush (L and D)	0 0
Object Contacted 1	LARGE POLE
Object Contacted 2	CURB

NASS Weighting Factor

Weighting factor	33.915
------------------	--------

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	ALCOHOL PRESENT
Alcohol Test (< 95 indicates BAC 0.xx)	19

Vehicle Factors

Make-Model	Honda Accord
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	OVER LINE-LEFT
Attempted Avoidance Manue- ver	No DRIVER
Pre-impact Stability	LAT SKID-CTR CLK
Pre-impact Location	DEPARTED ROADWAY

PASSENGER Factors

Age	22	Height	165	Weight	59
Gender	FEM-PREG 2ND TRI				
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	NONDEPLOYED
Airbag Deployment - Oth Seat	Not EQUIP W/ OTH Seat

Injuries

Occupant	2001-12-72-1-3
MAIS	1=Minor
Seat Position	Second left

AIS Level	Injury Description	Contacts
1=Minor	Upper extremity skin contusion	Other occupants
1=Minor	Leg skin contusion (hematoma)	Other occupants
1=Minor	Facial skin contusion	Seat, back
1=Minor	Leg skin laceration, minor	Seat, back
1=Minor	Facial skin laceration NFS	Other occupants

Occupant: 2001-12-72-1-4

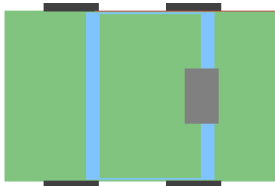


Fire Information

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	Deform+seam fail
Fuel Type	Gasoline

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



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	65 R Z A W 5
Damage (C1-C6)	0 0 0 0 0 0
Crush (L and D)	0 0
Object Contacted 1	LARGE POLE
Object Contacted 2	CURB

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	ALCOHOL PRESENT
Alcohol Test (< 95 indicates BAC 0.xx)	19

Vehicle Factors

Make-Model	Honda Accord
Year	1994
Class	PASSENGER CAR
Body Type	4-DR SEDAN/HDTOP
Weight	105

NASS Weighting Factor

Weighting factor	33.915
------------------	--------

Pre-Crash Driver Data

Accident Type	7
Pre-event Movement	GOING STRAIGHT
Critical Pre-crash Event	OVER LINE-LEFT
Attempted Avoidance Manue- ver	No DRIVER
Pre-impact Stability	LAT SKID-CTR CLK
Pre-impact Location	DEPARTED ROADWAY

PASSENGER Factors

Age	32	Height	173	Weight	91
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	NONDEPLOYED
Airbag Deployment - Oth Seat	Not EQUIP W/ OTH Seat

Injuries

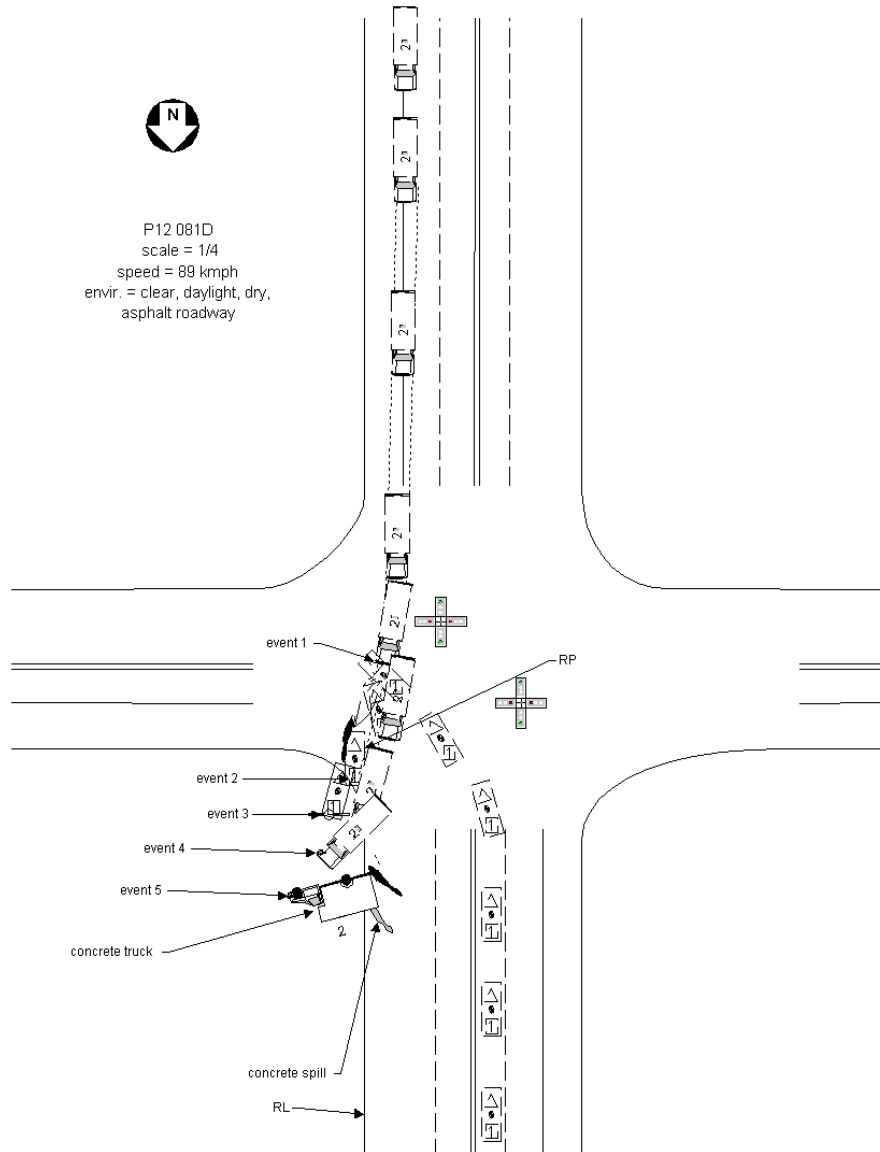
Occupant	2001-12-72-1-4
MAIS	5=Critical
Seat Position	Second right

AIS Level	Injury Description	Contacts
3=Serious	Upper extremity am- putation (any point ex- cept finger)	Other exterior
1=Minor	Scalp laceration, mi- nor	Oth right pillar
1=Minor	Facial skin laceration, minor	Right interior
3=Serious	Femur fracture NFS	Seat, back
2=Moderate	Tibial fracture NFS	Floor
2=Moderate	851605	Floor
1=Minor	Leg skin laceration NFS	Floor
2=Moderate	Sternoclavicular joint dislocation	Seat, back
3=Serious	>3 rib fractures one side & <3 other side, with stable chest	Seat, back
3=Serious	Lung laceration, uni- lateral NFS	Seat, back
4=Severe	Lung contusion, bilat- eral	Seat, back
2=Moderate	Hepatic laceration, minor (<3cms deep, EBL<202=Moderate	Splenic laceration, mi- nor (tear<3cms deep, no major vessel)
Seat, back		
5=Critical	Brain stem hemor- rhage	Oth right pillar
3=Serious	Cerebellar subarach- noid hemorrhage	Oth right pillar
4=Severe	Cerebral hematoma, NFS	Oth right pillar

15 Case 2001-12-81

Summary:

Vehicle 1 was heading south in the 3rd lane of a 5 lane, 2 way, road, attempting to turn left. Vehicle 2 was heading north in the 2nd lane of the same roadway. It was a clear, dry, day. The front of vehicle 2 contacted the right side of vehicle 1 causing vehicle 2 to push vehicle 1 off the road on the north east corner of the intersection. Vehicle 1's left rear tire contacted the curb causing moderate damage. Vehicle 1's back then made contact with a utility pole before final rest against the pole. Vehicle 2 went off the road in the same area that vehicle 1 did and rolled over 1 quarter turn before final rest on its left side. Both vehicles were towed due to damage. Occupant 1 of vehicle 1 was transported to a local trauma center where she was treated and released for her injuries. The driver of vehicle 1 was wearing a lap-shoulder belt and the front airbags did deploy. Occupant 1 of vehicle 2 was not injured.



Vehicle	Body type	Make	Model	Year	Occ. #	Age	Occupant's sex	Maximum known occupant ais
1	4-DR SEDAN/HDTOP	Cadillac	Deville/Fleetwood	1994	1	63	FEMALE-NOT PREG	1=Minor

Occupant: 2001-12-81-1-1

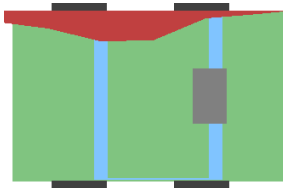


Fire Information

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	Left side, behind rear axle
Fuel Tank Damage	Punctured
Fuel Type	Gasoline

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



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	61 R D A W 4
Damage (C1-C6)	14 25 43 42 10 3
Crush (L and D)	465 -13
Object Contacted 1	VEHICLE NO. 2
Object Contacted 2	MEDIUM POLE

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

Vehicle Factors

Make-Model	Cadillac Deville/Fleetwood
Year	1994
Class	PASSENGER CAR
Body Type	4-DR SEDAN/HDTOP
Weight	170

NASS Weighting Factor

Weighting factor	88.756
------------------	--------

Pre-Crash Driver Data

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

DRIVER Factors

Age	63	Height	160	Weight	58
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

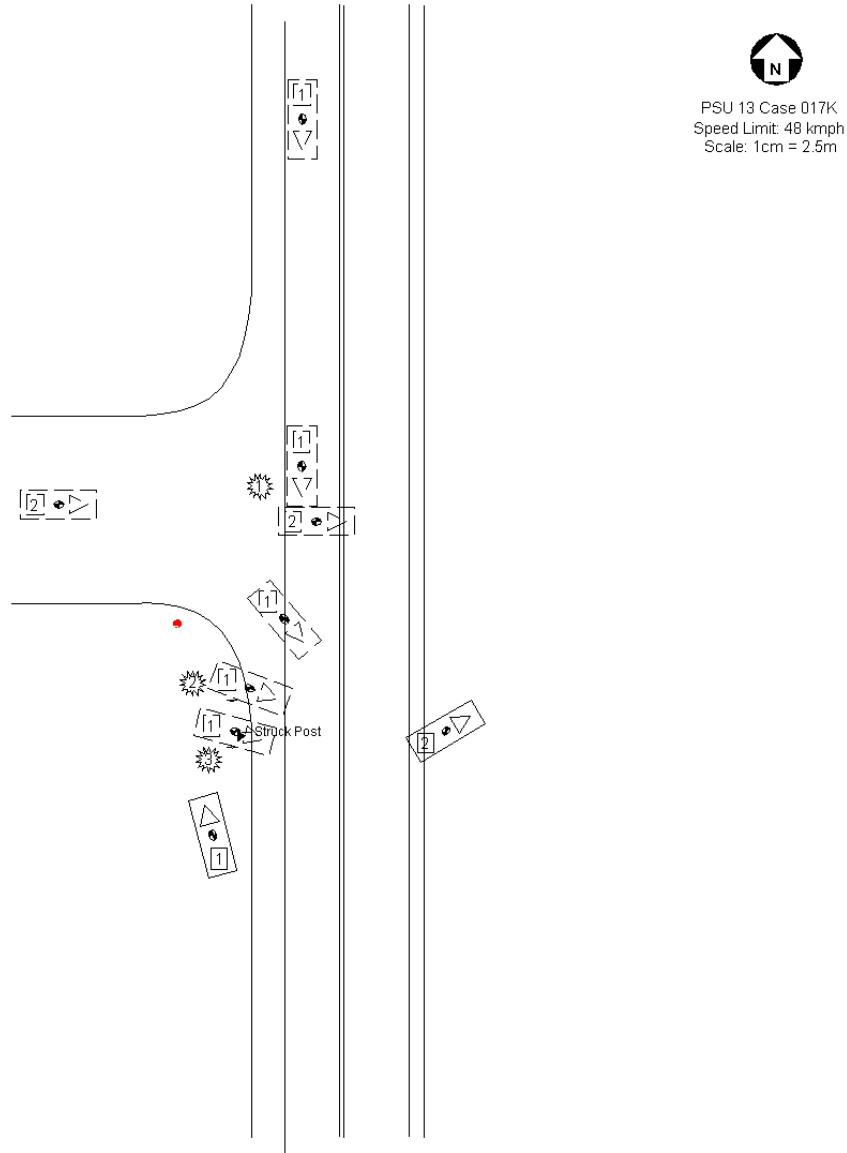
Occupant	2001-12-81-1-1
MAIS	1=Minor
Seat Position	Front left side

AIS Level	Injury Description	Contacts
1=Minor	Facial skin contusion	Air bag-DR side
1=Minor	Leg skin laceration, minor	Knee bolster
1=Minor	Thoracic skin abrasion	Belt webb/buckle
1=Minor	Facial skin abrasion	Air bag-DR side
1=Minor	Upper extremity skin abrasion	Air bag-DR side
1=Minor	Thoracic skin lacera- tion, minor	Seat, back

16 Case 2001-13-17

Summary:

V1 was southbound on roadway, V2 was turning northbound onto same roadway. The front of V1 contacted the left side of V2. V1 then contacted a speed limit sign and a light standard with it's right side located on the southwest corner of the T intersection. Both vehicles were towed due to damage. All occupants of both vehicles were transported due to injuries.



Vehicle	Body type	Make	Model	Year	Occ.#	Age	Occupant's sex	Maximum known occupant ais
1	4-DR SEDAN/HDTOP	Pontiac	Grand Prix	1994	1	19	MALE	1=Minor
1	4-DR SEDAN/HDTOP	Pontiac	Grand Prix	1994	2	20	MALE	2=Moderate
2	4-DR SEDAN/HDTOP	Mazda	626	1996	1	28	MALE	3=Serious

Occupant: 2001-13-17-1-1



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	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	44 -43 -8
Est. δV with sequence number	DELTA V CODED 1
CDC	12 F D E W 1
Damage (C1-C6)	0 10 22 20 0 0
Crush (L and D)	156 0
Object Contacted 1	VEHICLE NO. 2
Object Contacted 2	SMALL POLE

NASS Weighting Factor

Weighting factor	72.176
------------------	--------

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	DOWNHILL GRADE
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)	0

Vehicle Factors

Make-Model	Pontiac Grand Prix
Year	1994
Class	PASSENGER CAR
Body Type	4-DR SEDAN/HDTOP
Weight	153

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	TRACKING
Pre-impact Location	STAYED IN LANE

DRIVER Factors

Age	19	Height	178	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	2001-13-17-1-1
MAIS	1=Minor
Seat Position	Front left side

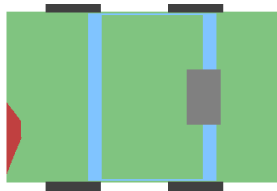
AIS Level	Injury Description	Contacts
1=Minor	Facial skin laceration NFS	Flying glass
1=Minor	Facial skin laceration NFS	Flying glass
1=Minor	Facial skin laceration NFS	Flying glass
1=Minor	Wrist (carpus) joint sprain	Steering rim
1=Minor	Upper extremity skin abrasion	Steering rim

Occupant: 2001-13-17-1-2



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	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	DOWNHILL GRADE
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)	0

Vehicle Factors

Make-Model	Pontiac Grand Prix
Year	1994
Class	PASSENGER CAR
Body Type	4-DR SEDAN/HDTOP
Weight	153

Crash Severity

Nr. Quarter Turns	No rollover
Impact Speed	998
Total, Longitudal, and Lateral δV	44 -43 -8
Est. δV with sequence number	DELTA V CODED 1
CDC	12 F D E W 1
Damage (C1-C6)	0 10 22 20 0 0
Crush (L and D)	156 0
Object Contacted 1	VEHICLE NO. 2
Object Contacted 2	SMALL POLE

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	TRACKING
Pre-impact Location	STAYED IN LANE

NASS Weighting Factor

Weighting factor	72.176
------------------	--------

PASSENGER Factors

Age	20	Height	191	Weight	89
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

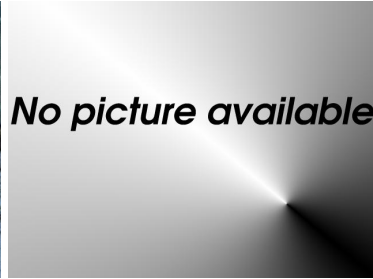
Restrain	Lap and shoulder
AOPS	YES-RES DET
Airbag Deployment	BAG DEPLOYED
Airbag Deployment - 1 st Seat	DR
PAS BAG DEPLY	
Airbag Deployment - Oth Seat	Not EQUIP W/ OTH

Injuries

Occupant	2001-13-17-1-2
MAIS	2=Moderate
Seat Position	Front right side

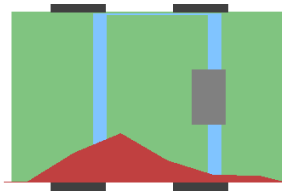
AIS Level	Injury Description	Contacts
1=Minor	Facial skin laceration NFS	Flying glass
1=Minor	Leg skin laceration NFS	Glove door
2=Moderate	Radial fracture, closed	Right hardware
1=Minor	Leg skin abrasion	Glove door

Occupant: 2001-13-17-2-1



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	Lacerated
Fuel Type	Gasoline



Crash Severity

Nr. Quarter Turns	No rollover
Impact Speed	998
Total, Longitudal, and Lateral δV	56 -10 56
Est. δV with sequence number	DELTA V CODED 1
CDC	9 L Z A W 7
Damage (C1-C6)	1 43 72 32 11 9
Crush (L and D)	411 -39
Object Contacted 1	VEHICLE NO. 1
Object Contacted 2	0

NASS Weighting Factor

Weighting factor	72.176
------------------	--------

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	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)	13

Vehicle Factors

Make-Model	Mazda 626
Year	1996
Class	PASSENGER CAR
Body Type	4-DR SEDAN/HDTOP
Weight	124

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	28	Height	178	Weight	93
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

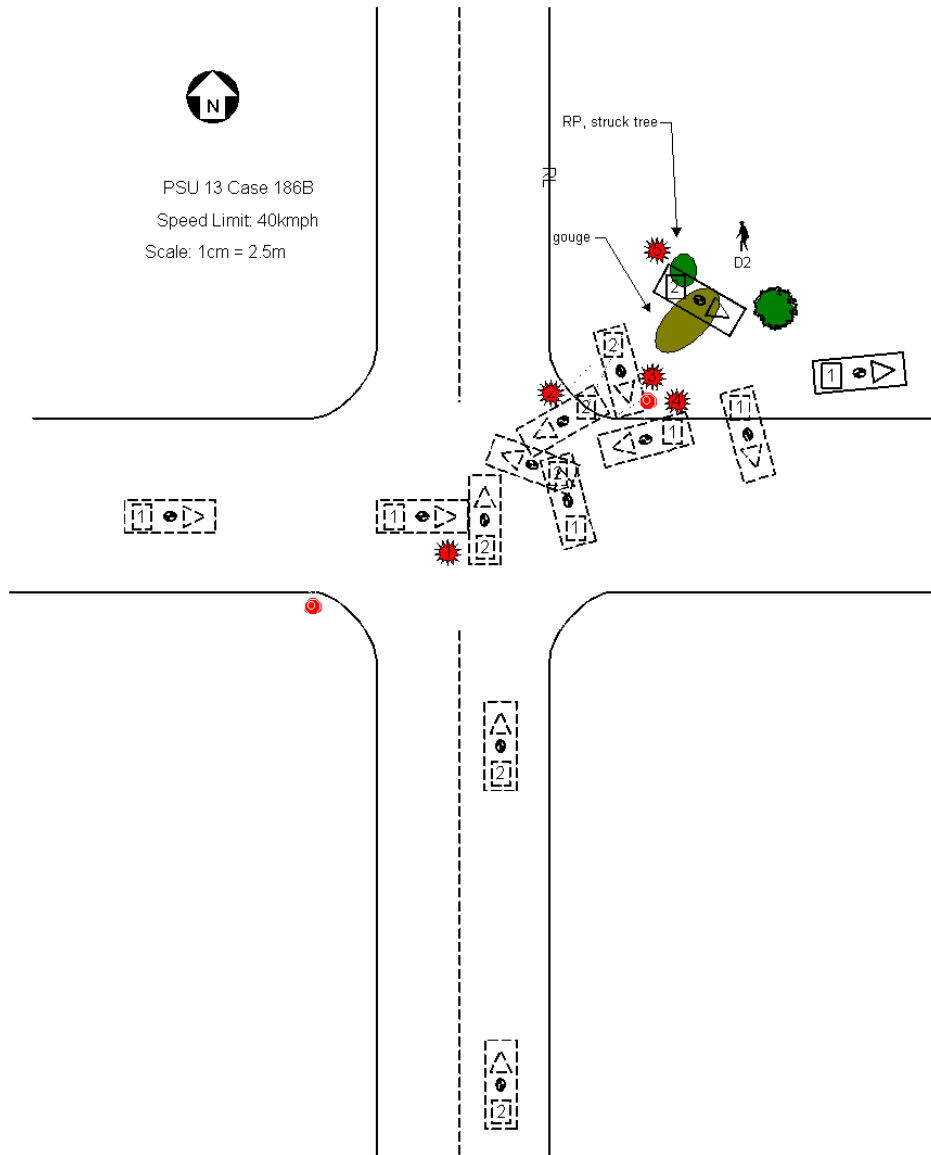
Occupant	2001-13-17-2-1
MAIS	3=Serious
Seat Position	Front left side

AIS Level	Injury Description	Contacts
2=Moderate	Kidney laceration, minor (<1cm, no urinary extravasation)	Transmiss lever
3=Serious	450211	Left interior
2=Moderate	Lumbar fracture of transverse process without cord injury	Left interior
2=Moderate	Lumbar fracture of transverse process without cord injury	Left interior
2=Moderate	Lumbar fracture of transverse process without cord injury	Left interior
2=Moderate	Lumbar fracture of transverse process without cord injury	Left interior
1=Minor	Abdominal skin abrasion	Left interior
1=Minor	Leg skin contusion (hematoma)	Left interior
2=Moderate	Ankle collateral or cruciate ligament laceration	Left interior
3=Serious	Lumbar fracture of facet without cord injury	Left interior

17 Case 2001-13-186

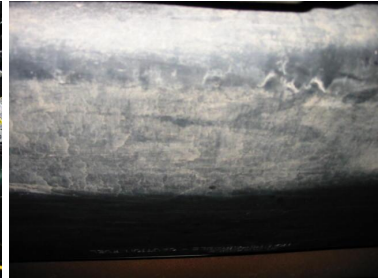
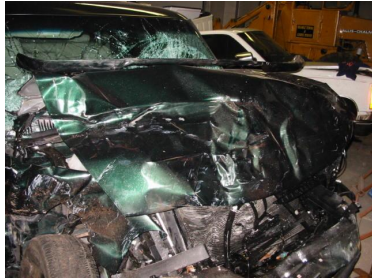
Summary:

V1 was traveling eastbound at a high rate of speed, fleeing from police on a two-way, two lane roadway, passing through an intersection. V2 was traveling northbound through the same intersection. V1 collided with V2 at the intersection. V2 rotated counterclockwise and struck a sign post and a tree. V1 rotated counterclockwise and its right rear wheel struck a curb. Both vehicles were severely damaged and towed. The driver of V2 was fully ejected from the left front window and was fatal at the scene. The driver of V1 sustained injuries and was transported.



Vehicle #	Body type	Make	Model	Year	Occ.#	Age	Occupant's sex	Maximum known occupant AIS
1	LARGE UTILITY	GMC	Jimmy fullsize	2001	1	20	MALE	3=Serious
2	LARGE PICKUP	GMC	"C,K,R,V-series P/U"	1990	1	50	FEMALE-NOT PREG	5=Critical

Occupant: 2001-13-186-1-1



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	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	42 -36 -21
Est. δV with sequence number	DELTA V CODED 1
CDC	1 F D A A 6
Damage (C1-C6)	93 74 78 75 77 90
Crush (L and D)	182 0
Object Contacted 1	VEHICLE NO. 2
Object Contacted 2	CURB

NASS Weighting Factor

Weighting factor	78.106
------------------	--------

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	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	GMC Jimmy fullsize
Year	2001
Class	TRUCK
Body Type	LARGE UTILITY
Weight	242

Pre-Crash Driver Data

Accident Type	88
Pre-event Movement	GOING STRAIGHT
Critical Pre-crash Event	CROSS OVER INTER
Attempted Avoidance Manuever	No DRIVER
Pre-impact Stability	TRACKING
Pre-impact Location	STAYED IN LANE

DRIVER Factors

Age	20	Height	0	Weight	72
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	2001-13-186-1-1
MAIS	3=Serious
Seat Position	Front left side

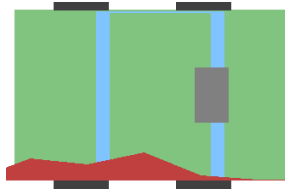
AIS Level	Injury Description	Contacts
1=Minor	Leg skin laceration NFS	Center panel
3=Serious	Femoral shaft fracture	Center panel

Occupant: 2001-13-186-2-1



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, right side
Fuel Cap Location	Left side, forward rear axle
Fuel Tank Damage	Deform+seam fail
Fuel Type	Diesel



Crash Severity

Nr. Quarter Turns	No rollover
Impact Speed	998
Total, Longitudal, and Lateral δV	46 -23 40
Est. δV with sequence number	DELTA V CODED 1
CDC	90 L Z E W 3
Damage (C1-C6)	0 32 23 41 7 0
Crush (L and D)	502 -113
Object Contacted 1	VEHICLE NO. 1
Object Contacted 2	LARGE TREE

NASS Weighting Factor

Weighting factor	78.106
------------------	--------

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	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	GMC "C,K,R,V-series P/U"
Year	1990
Class	TRUCK
Body Type	LARGE PICKUP
Weight	220

Pre-Crash Driver Data

Accident Type	89
Pre-event Movement	GOING STRAIGHT
Critical Pre-crash Event	XING ST-X PATH
Attempted Avoidance Manuever	No DRIVER
Pre-impact Stability	TRACKING
Pre-impact Location	STAYED IN LANE

DRIVER Factors

Age	50	Height	163	Weight	75
Gender					FEMALE-NOT PREG
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

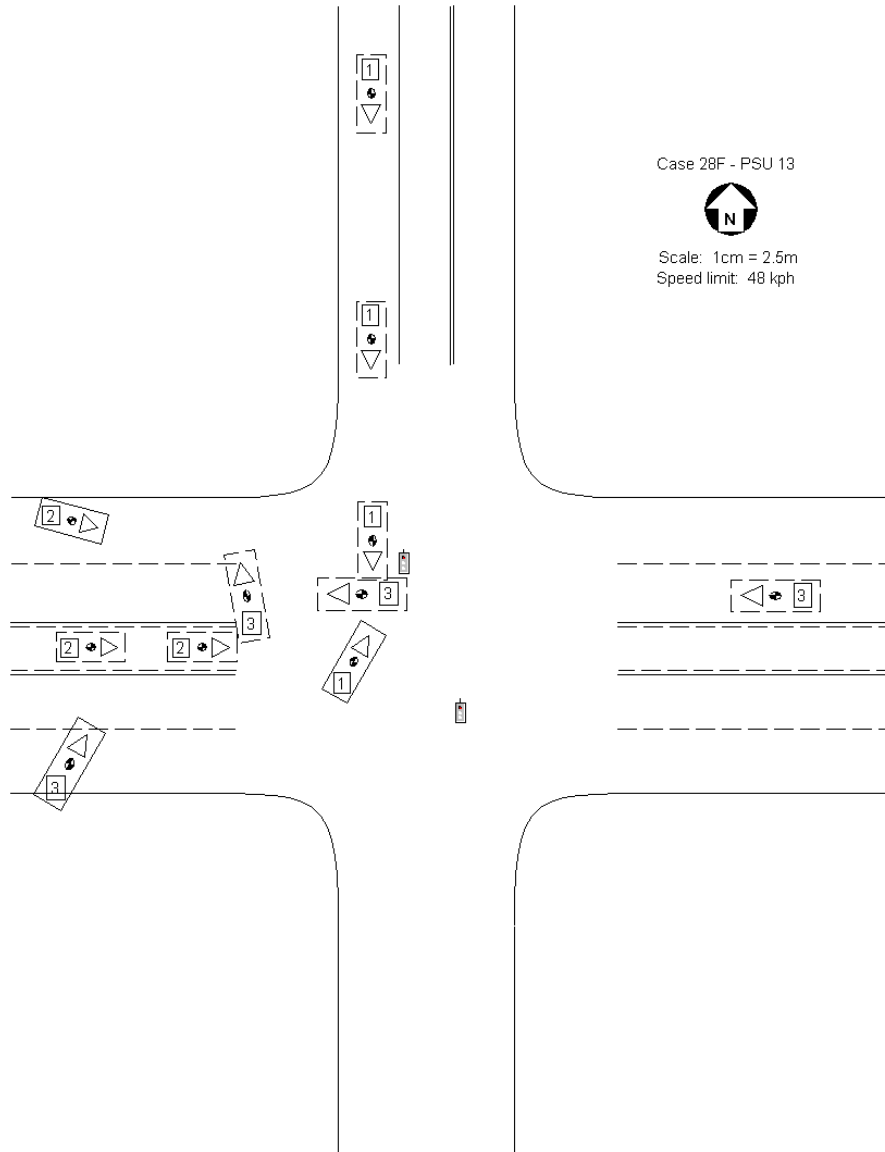
Occupant	2001-13-186-2-1
MAIS	5=Critical
Seat Position	Front left side

AIS Level	Injury Description	Contacts
1=Minor	Facial skin abrasion	Ground
1=Minor	Abdominal skin abrasion	Ground
1=Minor	Scalp contusion	Ground
1=Minor	Scalp contusion	Left B pillar
1=Minor	Thoracic skin abrasion	Left interior
1=Minor	Leg skin abrasion	Steering rim
1=Minor	Leg skin abrasion	Floor
5=Critical	Flail chest, bilateral	Left interior
5=Critical	Thoracic cord laceration, complete, with dislocation	Ground
4=Severe	Lung laceration, bilateral NFS	Left interior
2=Moderate	Pericardial laceration (puncture)	Left interior
5=Critical	Myocardial laceration with perforation (+/- tamponade)	Left interior
2=Moderate	Hepatic laceration, minor (<3cms deep, EBL<203=Serious)	Other abdominal vein laceration NFS
Ground		
2=Moderate	Pelvic fracture NFS	Left hardware
3=Serious	Cerebral subarachnoid hemorrhage	Ground
3=Serious	Cerebral subarachnoid hemorrhage	Left B pillar
4=Severe	Intracerebral hematoma, small petechial hemorrhage	Left B pillar
1=Minor	Leg skin abrasion	Seat, back

18 Case 2001-13-28

Summary:

V1 (car) was travelling southbound on a 2-lane, 2-way road and entered an intersection at the same time as V3 (truck), which was westbound on a 5-lane, 2-way road. The front of V1 impacted the right side of V3. V3 then spun around and impacted the front of V2 (uv), which was stopped eastbound, with the left side of the vehicle. All 3 vehicles were towed and moderately damaged. All occupants involved received medical treatment.



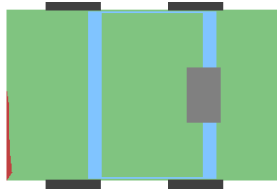
Vehicle #	Body type	Make	Model	Year	Occ.#	Age	Occupant's sex	Maximum known occupant injury
1	4-DR SEDAN/HDTOP	Oldsmobile	24	2000	1	19	FEMALE-NOT PREG	1=Minor
2	COMPACT UTILITY	Jeep	Cherokee84-	1989	1	19	FEM-PREG 1ST TRI	1=Minor
2	COMPACT UTILITY	Jeep	Cherokee84-	1989	2	23	MALE	1=Minor
3	LARGE PICKUP	GMC	"C,K,R,V-series P/U"	1995	1	41	MALE	2=Moderate
3	LARGE PICKUP	GMC	"C,K,R,V-series P/U"	1995	2	43	MALE	1=Minor
3	LARGE PICKUP	GMC	"C,K,R,V-series P/U"	1995	3	48	MALE	1=Minor

Occupant: 2001-13-28-1-1



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



Crash Severity

Nr. Quarter Turns	No rollover
Impact Speed	998
Total, Longitudal, and Lateral δV	13 -7 11
Est. δV with sequence number	DELTA V CODED 1
CDC	70 F D E W 1
Damage (C1-C6)	8 6 4 3 4 1
Crush (L and D)	143 0
Object Contacted 1	VEHICLE NO. 3
Object Contacted 2	0

NASS Weighting Factor

Weighting factor	315.449
------------------	---------

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	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	Oldsmobile 24
Year	2000
Class	PASSENGER CAR
Body Type	4-DR SEDAN/HDTOP
Weight	141

Pre-Crash Driver Data

Accident Type	86
Pre-event Movement	GOING STRAIGHT
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	19	Height	163	Weight	67
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	2001-13-28-1-1
MAIS	1=Minor
Seat Position	Front left side

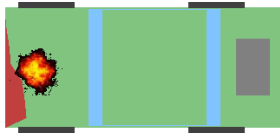
AIS Level	Injury Description	Contacts
1=Minor	Leg skin abrasion	Knee bolster
1=Minor	Upper extremity skin contusion	Air bag-DR side

Occupant: 2001-13-28-2-1



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	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	17 -17 -3
Est. δV with sequence number	DELTA V CODED 2
CDC	12 F Y E W 2
Damage (C1-C6)	31 29 24 7 5 1
Crush (L and D)	162 -38
Object Contacted 1	VEHICLE NO. 3
Object Contacted 2	0

NASS Weighting Factor

Weighting factor	315.449
------------------	---------

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	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

Vehicle Factors

Make-Model	Jeep Cherokee84-
Year	1989
Class	TRUCK
Body Type	COMPACT UTILITY
Weight	140

Pre-Crash Driver Data

Accident Type	98
Pre-event Movement	STOPPED 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	19	Height	173	Weight	59
Gender					FEM-PREG 1ST TRI
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	2001-13-28-2-1
MAIS	1=Minor
Seat Position	Front left side

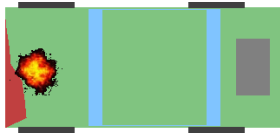
AIS Level	Injury Description	Contacts
1=Minor	Acute cervical spine strain without fracture or dislocation	Other noncontact
1=Minor	Upper extremity skin contusion	Steering rim

Occupant: 2001-13-28-2-2



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	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	17 -17 -3
Est. δV with sequence number	DELTA V CODED 2
CDC	12 F Y E W 2
Damage (C1-C6)	31 29 24 7 5 1
Crush (L and D)	162 -38
Object Contacted 1	VEHICLE NO. 3
Object Contacted 2	0

NASS Weighting Factor

Weighting factor	315.449
------------------	---------

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	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

Vehicle Factors

Make-Model	Jeep Cherokee84-
Year	1989
Class	TRUCK
Body Type	COMPACT UTILITY
Weight	140

Pre-Crash Driver Data

Accident Type	98
Pre-event Movement	STOPPED 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	23	Height	175	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	2001-13-28-2-2
MAIS	1=Minor
Seat Position	Front right side

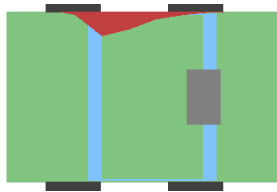
AIS Level	Injury Description	Contacts
1=Minor	Acute cervical spine strain without fracture or dislocation	Other noncontact
1=Minor	Leg skin contusion (hematoma)	Right panel
1=Minor	Leg skin abrasion	Right panel
1=Minor	Thoracic skin contusion	Belt webb/buckle

Occupant: 2001-13-28-3-1



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, 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	10 -9 -5
Est. δV with sequence number	DELTA V CODED 1
CDC	1 R P E W 3
Damage (C1-C6)	3 34 24 10 3 0
Crush (L and D)	240 -62
Object Contacted 1	VEHICLE NO. 1
Object Contacted 2	VEHICLE NO. 2

NASS Weighting Factor

Weighting factor 315.449

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	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	ALCOHOL PRESENT
Alcohol Test (< 95 indicates BAC 0.xx)	15

Vehicle Factors

Make-Model	GMC "C,K,R,V-series P/U"
Year	1995
Class	TRUCK
Body Type	LARGE PICKUP
Weight	178

Pre-Crash Driver Data

Accident Type	87
Pre-event Movement	GOING STRAIGHT
Critical Pre-crash Event	CROSS OVER INTER
Attempted Avoidance Manuever	No DRIVER
Pre-impact Stability	TRACKING
Pre-impact Location	STAYED IN LANE

DRIVER Factors

Age	41	Height	0	Weight	113
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	2001-13-28-3-1
MAIS	2=Moderate
Seat Position	Front left side

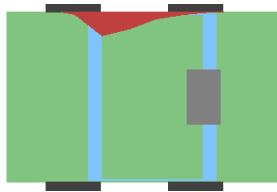
AIS Level	Injury Description	Contacts
1=Minor	Scalp contusion	Left window fram
1=Minor	297402	Left window fram
1=Minor	297602	Flying glass
1=Minor	Facial skin laceration, minor	Flying glass
1=Minor	Upper extremity skin abrasion	Center panel
1=Minor	Facial skin abrasion	Flying glass
1=Minor	Facial skin abrasion	Flying glass
2=Moderate	Awake on admission, prior unconscious, length NFS	Left window fram

Occupant: 2001-13-28-3-2



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, 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	10 -9 -5
Est. δV with sequence number	DELTA V CODED 1
CDC	1 R P E W 3
Damage (C1-C6)	3 34 24 10 3 0
Crush (L and D)	240 -62
Object Contacted 1	VEHICLE NO. 1
Object Contacted 2	VEHICLE NO. 2

NASS Weighting Factor

Weighting factor 315.449

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	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	ALCOHOL PRESENT
Alcohol Test (< 95 indicates BAC 0.xx)	15

Vehicle Factors

Make-Model	GMC "C,K,R,V-series P/U"
Year	1995
Class	TRUCK
Body Type	LARGE PICKUP
Weight	178

Pre-Crash Driver Data

Accident Type	87
Pre-event Movement	GOING STRAIGHT
Critical Pre-crash Event	CROSS OVER INTER
Attempted Avoidance Manuever	No DRIVER
Pre-impact Stability	TRACKING
Pre-impact Location	STAYED IN LANE

PASSENGER Factors

Age	43	Height	185	Weight	77
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	NONDEPLOYED
Airbag Deployment - Oth Seat	Not EQUIP W/ OTH

Injuries

Occupant	2001-13-28-3-2
MAIS	1=Minor
Seat Position	Front middle

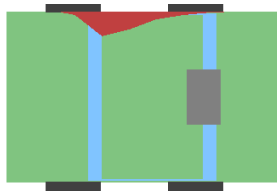
AIS Level	Injury Description	Contacts
1=Minor	Thoracic skin contusion	Steering rim
1=Minor	Upper extremity skin laceration, minor	Windshield
1=Minor	Upper extremity skin contusion	Windshield
1=Minor	Leg skin laceration, minor	Center panel

Occupant: 2001-13-28-3-3



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, 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	10 -9 -5
Est. δV with sequence number	DELTA V CODED 1
CDC	1 R P E W 3
Damage (C1-C6)	3 34 24 10 3 0
Crush (L and D)	240 -62
Object Contacted 1	VEHICLE NO. 1
Object Contacted 2	VEHICLE NO. 2

NASS Weighting Factor

Weighting factor 315.449

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	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	ALCOHOL PRESENT
Alcohol Test (< 95 indicates BAC 0.xx)	15

Vehicle Factors

Make-Model	GMC "C,K,R,V-series P/U"
Year	1995
Class	TRUCK
Body Type	LARGE PICKUP
Weight	178

Pre-Crash Driver Data

Accident Type	87
Pre-event Movement	GOING STRAIGHT
Critical Pre-crash Event	CROSS OVER INTER
Attempted Avoidance Manuever	No DRIVER
Pre-impact Stability	TRACKING
Pre-impact Location	STAYED IN LANE

PASSENGER Factors

Age	48	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	NONDEPLOYED
Airbag Deployment - 1 st Seat	NONDEPLOYED
Airbag Deployment - Oth Seat	Not EQUIP W/ OTH

Injuries

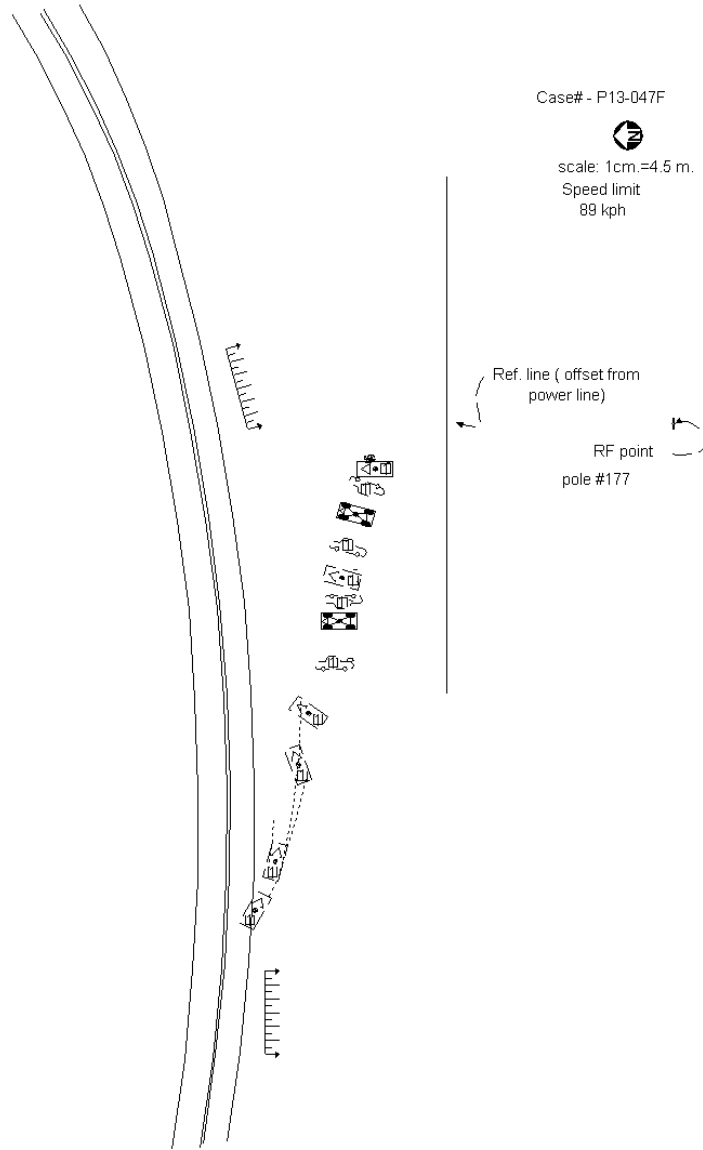
Occupant	2001-13-28-3-3
MAIS	1=Minor
Seat Position	Front right side

AIS Level	Injury Description	Contacts
1=Minor	Acute cervical spine strain without fracture or dislocation	Other noncontact
1=Minor	Thoracic skin contusion	Right interior
1=Minor	Teeth injury NFS	Right B pillar

19 Case 2001-13-47

Summary:

Driver was eastbound on a dry, 2 lane rural roadway during daylight hours when he looked to his left and drifted over the centerline. He steered abruptly to the right, and went off the right shoulder where he tried to correct but tripped and rolled over 2 complete rolls, coming to rest on its wheels. The restrained driver was injured mostly by loose objects in the vehicle. He was transported, treated and released.



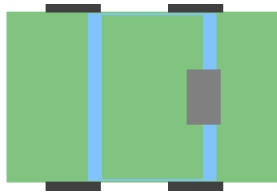
Vehicle #	Body type	Make	Model	Year	Occ. #	Age	Occupant's sex	Maximum known occupant
1	4-DR SEDAN/HDTOP	Subaru	DL/FE/G/GF/GL/GLF/STD/Loyale	1986	1	16	MALE	1=Minor

Occupant: 2001-13-47-1-1



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	Other (will specify)
Fuel Cap Location	Other
Fuel Tank Damage	Other 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 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	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-OVERTRN
Object Contacted 2	0

NASS Weighting Factor

Weighting factor	225.321
------------------	---------

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

Vehicle Factors

Make-Model	Subaru DL/FE/G/GF/GL/GLF/STD/Loyale
Year	1986
Class	PASSENGER CAR
Body Type	4-DR SEDAN/HDTOP
Weight	100

Pre-Crash Driver Data

Accident Type	1
Pre-event Movement	NEGOTIATE CURVE
Critical Pre-crash Event	OFF EDGE-RIGHT
Attempted Avoidance Manuever	STEERING RIGHT
Pre-impact Stability	TRACKING
Pre-impact Location	DEPARTED ROADWAY

DRIVER Factors

Age	16	Height	180	Weight	68
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

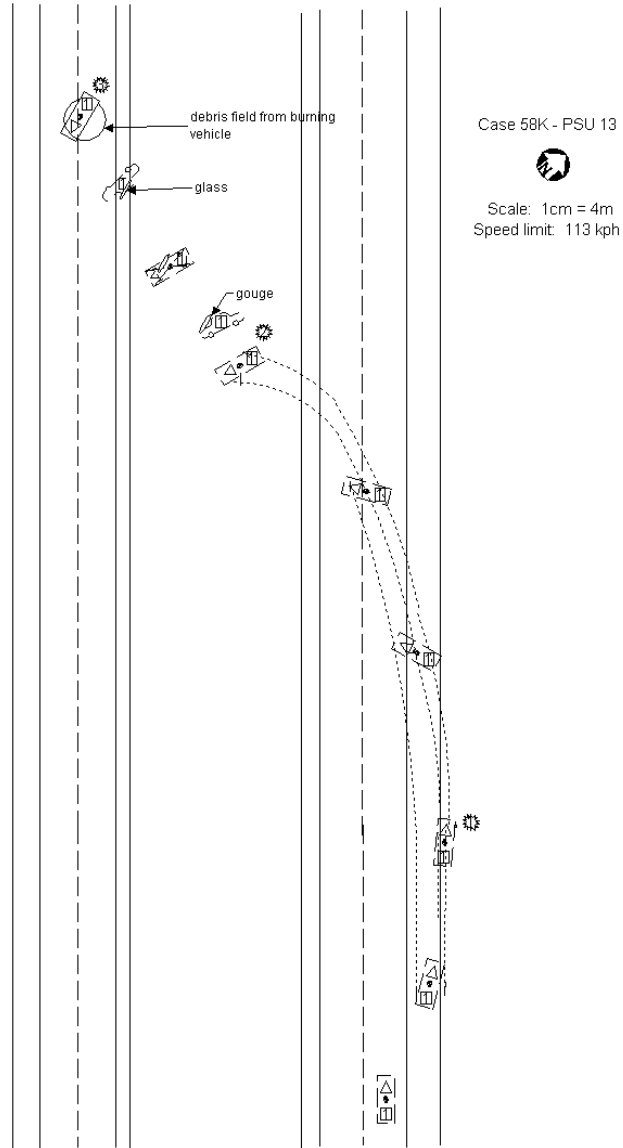
Occupant	2001-13-47-1-1
MAIS	1=Minor
Seat Position	Front left side

AIS Level	Injury Description	Contacts
1=Minor	Facial skin laceration, minor	Int loose obj
1=Minor	Scalp abrasion	Int loose obj
1=Minor	Scalp contusion	Left B pillar
1=Minor	Facial skin laceration, minor	Other noncontact
1=Minor	297402	Int loose obj
1=Minor	Thoracic skin laceration, minor	Flying glass
1=Minor	Neck skin abrasion	Belt webb/buckle
1=Minor	Upper extremity skin abrasion	Belt webb/buckle
1=Minor	Upper extremity skin abrasion	Center panel
1=Minor	Upper extremity skin laceration, minor	Flying glass
1=Minor	Leg skin contusion (hematoma)	Belt webb/buckle
1=Minor	Facial skin contusion	Left B pillar

20 Case 2001-13-58

Summary:

V1 was travelling westbound on a 2-lane, 1-way highway. V1 went off the road to the right, contacted a reflector marker with the right side, steered left, then went off the road to the left. V1 rolled over 1 complete turn to the right of the vehicle, landing on its wheels. V1 then caught fire under the hood. V1 was towed from the scene and severely damaged. Both occupants were transported for treatment.



Vehicle #	Body type	Make	Model	Year	Occ.#	Age	Occupant's sex	Maximum known occupant AIS
1	COMPACT UTILITY	Chevrolet	S-10 Blazer	1995	1	33	FEMALE-NOT PREG	2=Moderate
1	COMPACT UTILITY	Chevrolet	S-10 Blazer	1995	2	10	FEMALE-NOT PREG	1=Minor

Occupant: 2001-13-58-1-1



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, 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	< 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 O 3
Damage (C1-C6)	0 0 0 0 0 0
Crush (L and D)	0 0
Object Contacted 1	ROLLOVER-OVERTRN
Object Contacted 2	MEDIUM POLE

NASS Weighting Factor

Weighting factor	72.176
------------------	--------

Rollover Characteristics

Number of Events	3
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	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	Chevrolet S-10 Blazer
Year	1995
Class	TRUCK
Body Type	COMPACT UTILITY
Weight	182

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	TRACKING
Pre-impact Location	DEPARTED ROADWAY

DRIVER Factors

Age	33	Height	185	Weight	94
Gender					FEMALE-NOT PREG
Ejection					No EJECTION
Ejection Area					No EJECTION
Entrapment					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	2001-13-58-1-1
MAIS	2=Moderate
Seat Position	Front left side

AIS Level	Injury Description	Contacts
1=Minor	Facial skin contusion	Roof
1=Minor	Scalp laceration, minor	Roof
1=Minor	Facial skin laceration, minor	Roof
1=Minor	Facial skin abrasion	Roof
1=Minor	Acute cervical spine strain without fracture or dislocation	Roof
1=Minor	Thoracic skin contusion	Steering comb
2=Moderate	Awake on admission, prior unconscious, length NFS	Roof
1=Minor	Conjunctiva injury	Roof
1=Minor	690402	Roof

Occupant: 2001-13-58-1-2



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, 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	< 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 O 3
Damage (C1-C6)	0 0 0 0 0 0
Crush (L and D)	0 0
Object Contacted 1	ROLLOVER-OVERTRN
Object Contacted 2	MEDIUM POLE

NASS Weighting Factor

Weighting factor	72.176
------------------	--------

Rollover Characteristics

Number of Events	3
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	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	Chevrolet S-10 Blazer
Year	1995
Class	TRUCK
Body Type	COMPACT UTILITY
Weight	182

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	TRACKING
Pre-impact Location	DEPARTED ROADWAY

PASSENGER Factors

Age	10	Height	160	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	NONDEPLOYED
Airbag Deployment - 1 st Seat	NONDEPLOYED
Airbag Deployment - Oth Seat	Not EQUIP W/ OTH

Injuries

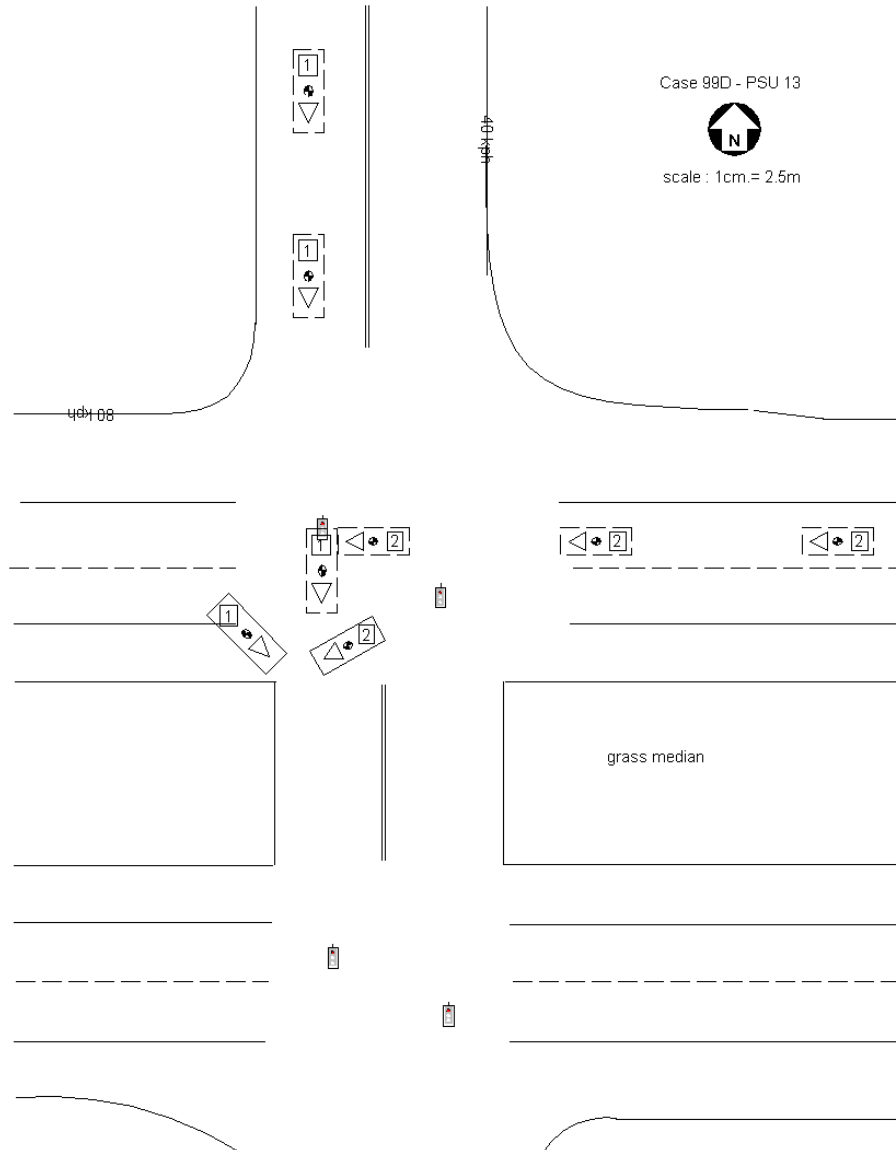
Occupant	2001-13-58-1-2
MAIS	1=Minor
Seat Position	Front right side

AIS Level	Injury Description	Contacts
1=Minor	Scalp contusion	Right B pillar
1=Minor	Neck skin abrasion	Belt webb/buckle
1=Minor	Upper extremity skin abrasion	Roof
1=Minor	Leg skin abrasion	Right panel
1=Minor	Leg skin abrasion	Floor
1=Minor	Acute cervical spine strain without fracture or dislocation	Belt webb/buckle
1=Minor	Neck skin contusion (hematoma)	Belt webb/buckle
1=Minor	Upper extremity skin abrasion	Belt webb/buckle
1=Minor	Upper extremity skin contusion	Belt webb/buckle

21 Case 2001-13-99

Summary:

V1 was southbound on a 2-lane, 2-way road and entered an intersection at the same time as V2, which was westbound on a 2-lane, 1-way road. The front of V2 impacted the left back of V1. Both vehicles were towed and moderately damaged. The driver of V2 was not injured. The occupants of V1 sustained minor injuries.



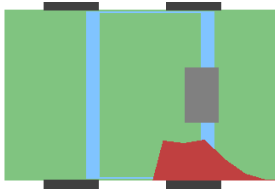
Vehicle #	Body type	Make	Model	Year	Occ. #	Age	Occupant's sex	Maximum known occupant AIS
1	2DR SEDAN/HT/CPE	Oldsmobile	Cutlass RWD	1986	1	22	FEMALE-NOT PREG	1=Minor
1	2DR SEDAN/HT/CPE	Oldsmobile	Cutlass RWD	1986	2	26	FEMALE-NOT PREG	1=Minor
1	2DR SEDAN/HT/CPE	Oldsmobile	Cutlass RWD	1986	3	7	MALE	3=Serious
1	2DR SEDAN/HT/CPE	Oldsmobile	Cutlass RWD	1986	4	5	FEMALE-NOT PREG	0=None
1	2DR SEDAN/HT/CPE	Oldsmobile	Cutlass RWD	1986	5	5	MALE	1=Minor
2	3DR/2DR HATCHBAK	Ford	Escort/EXP	1990	1	16	MALE	1=Minor

Occupant: 2001-13-99-1-1



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	Deform+seam fail
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	69 L B E W 4
Damage (C1-C6)	58 54 59 30 9 0
Crush (L and D)	182 -207
Object Contacted 1	VEHICLE NO. 2
Object Contacted 2	0

NASS Weighting Factor

Weighting factor	72.176
------------------	--------

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	Oldsmobile Cutlass RWD
Year	1986
Class	PASSENGER CAR
Body Type	2DR SEDAN/HT/CPE
Weight	144

Pre-Crash Driver Data

Accident Type	89
Pre-event Movement	GOING STRAIGHT
Critical Pre-crash Event	CROSS OVER INTER
Attempted Avoidance Manuever	No DRIVER
Pre-impact Stability	TRACKING
Pre-impact Location	STAYED IN LANE

DRIVER Factors

Age	22	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	2001-13-99-1-1
MAIS	1=Minor
Seat Position	Front left side

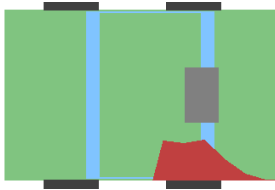
AIS Level	Injury Description	Contacts
1=Minor	Facial skin laceration, minor	Left window glas
1=Minor	297602	Left window glas
1=Minor	297402	Left window glas
1=Minor	Abdominal skin contusion	Left hardware
1=Minor	Leg skin contusion (hematoma)	Left interior

Occupant: 2001-13-99-1-2



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	Deform+seam fail
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	69 L B E W 4
Damage (C1-C6)	58 54 59 30 9 0
Crush (L and D)	182 -207
Object Contacted 1	VEHICLE NO. 2
Object Contacted 2	0

NASS Weighting Factor

Weighting factor 72.176

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	Oldsmobile Cutlass RWD
Year	1986
Class	PASSENGER CAR
Body Type	2DR SEDAN/HT/CPE
Weight	144

Pre-Crash Driver Data

Accident Type	89
Pre-event Movement	GOING STRAIGHT
Critical Pre-crash Event	CROSS OVER INTER
Attempted Avoidance Manuever	No DRIVER
Pre-impact Stability	TRACKING
Pre-impact Location	STAYED IN LANE

PASSENGER Factors

Age	26	Height	168	Weight	91
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	2001-13-99-1-2
MAIS	1=Minor
Seat Position	Front right side

AIS Level	Injury Description	Contacts
1=Minor	Facial skin contusion	Seat, back
1=Minor	Facial skin laceration	Seat, back
	NFS	

Occupant: 2001-13-99-1-3



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	Deform+seam fail
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	69 L B E W 4
Damage (C1-C6)	58 54 59 30 9 0
Crush (L and D)	182 -207
Object Contacted 1	VEHICLE NO. 2
Object Contacted 2	0

NASS Weighting Factor

Weighting factor	72.176
------------------	--------

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	Oldsmobile Cutlass RWD
Year	1986
Class	PASSENGER CAR
Body Type	2DR SEDAN/HT/CPE
Weight	144

Pre-Crash Driver Data

Accident Type	89
Pre-event Movement	GOING STRAIGHT
Critical Pre-crash Event	CROSS OVER INTER
Attempted Avoidance Manuever	No DRIVER
Pre-impact Stability	TRACKING
Pre-impact Location	STAYED IN LANE

PASSENGER Factors

Age	7	Height	122	Weight	23
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	2001-13-99-1-3
MAIS	3=Serious
Seat Position	Second left

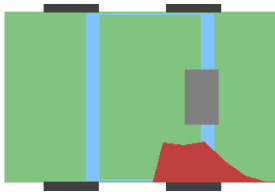
AIS Level	Injury Description	Contacts
1=Minor	Facial skin laceration, minor	Oth left pillar
3=Serious	Unconscious on admission (GCS<=8) NFS	Oth left pillar

Occupant: 2001-13-99-1-4



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	Deform+seam fail
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	69 L B E W 4
Damage (C1-C6)	58 54 59 30 9 0
Crush (L and D)	182 -207
Object Contacted 1	VEHICLE NO. 2
Object Contacted 2	0

NASS Weighting Factor

Weighting factor 72.176

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	Oldsmobile Cutlass RWD
Year	1986
Class	PASSENGER CAR
Body Type	2DR SEDAN/HT/CPE
Weight	144

Pre-Crash Driver Data

Accident Type	89
Pre-event Movement	GOING STRAIGHT
Critical Pre-crash Event	CROSS OVER INTER
Attempted Avoidance Manuever	No DRIVER
Pre-impact Stability	TRACKING
Pre-impact Location	STAYED IN LANE

PASSENGER Factors

Age	5	Height	107	Weight	18
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	2001-13-99-1-4
MAIS	0=None
Seat Position	Second middle

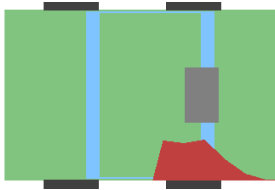
AIS Level	Injury Description	Contacts
-----------	--------------------	----------

Occupant: 2001-13-99-1-5



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	Deform+seam fail
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	69 L B E W 4
Damage (C1-C6)	58 54 59 30 9 0
Crush (L and D)	182 -207
Object Contacted 1	VEHICLE NO. 2
Object Contacted 2	0

NASS Weighting Factor

Weighting factor 72.176

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	Oldsmobile Cutlass RWD
Year	1986
Class	PASSENGER CAR
Body Type	2DR SEDAN/HT/CPE
Weight	144

Pre-Crash Driver Data

Accident Type	89
Pre-event Movement	GOING STRAIGHT
Critical Pre-crash Event	CROSS OVER INTER
Attempted Avoidance Manuever	No DRIVER
Pre-impact Stability	TRACKING
Pre-impact Location	STAYED IN LANE

PASSENGER Factors

Age	5	Height	107	Weight	20
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	2001-13-99-1-5
MAIS	1=Minor
Seat Position	Second right

AIS Level	Injury Description	Contacts
1=Minor	Scalp laceration, minor	Oth right pillar
1=Minor	690402	Seat, back

Occupant: 2001-13-99-2-1



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	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	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	35 -35 -6
Est. δV with sequence number	DELTA V CODED 1
CDC	12 F D E W 2
Damage (C1-C6)	17 17 23 30 25 0
Crush (L and D)	156 0
Object Contacted 1	VEHICLE NO. 1
Object Contacted 2	0

NASS Weighting Factor

Weighting factor	72.176
------------------	--------

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 Escort/EXP
Year	1990
Class	PASSENGER CAR
Body Type	3DR/2DR HATCHBAK
Weight	105

Pre-Crash Driver Data

Accident Type	88
Pre-event Movement	GOING STRAIGHT
Critical Pre-crash Event	XING ST-X PATH
Attempted Avoidance Manuever	BRAKE+STEER RT
Pre-impact Stability	TRACKING
Pre-impact Location	STAYED IN LANE

DRIVER Factors

Age	16	Height	180	Weight	82
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

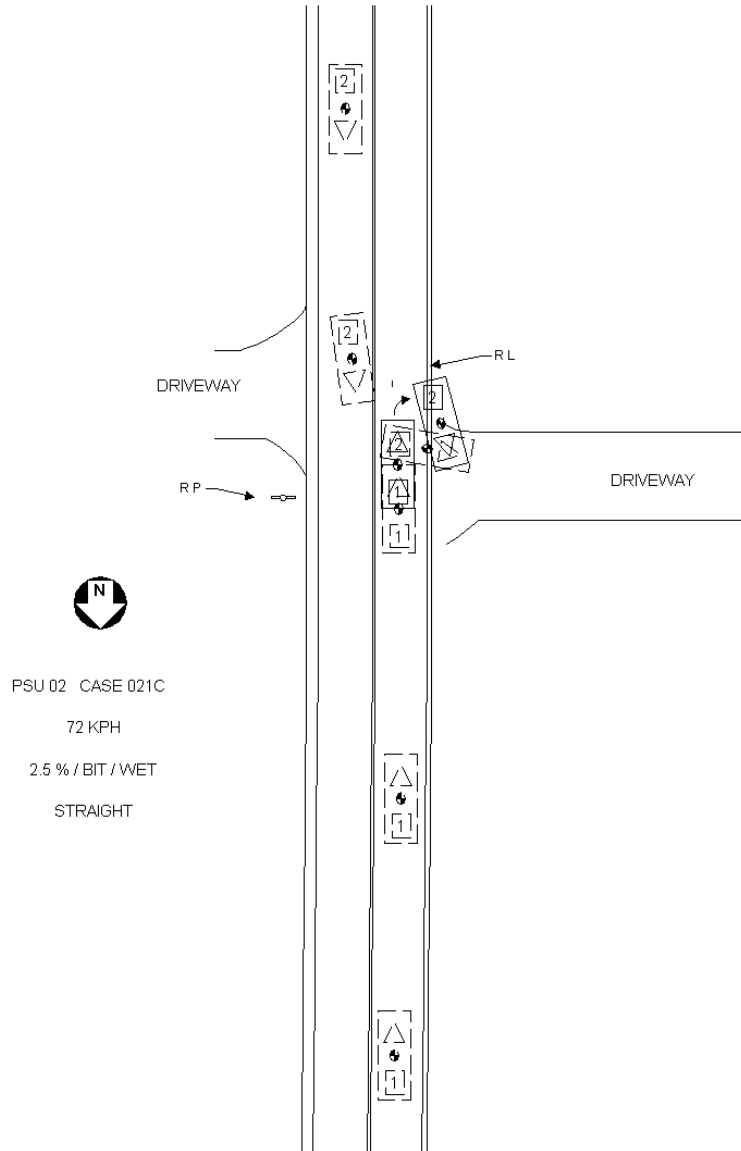
Occupant	2001-13-99-2-1
MAIS	1=Minor
Seat Position	Front left side

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

22 Case 2001-2-21

Summary:

Vehicle 1, a 1998 Ford Crown Victoria police car with emergency lights in operation, was traveling South on an undivided two lane road. Vehicle 2 was traveling North on the same undivided two lane road. Vehicle 2 attempted to make a left turn into a driveway. The front of vehicle 1 struck the right side of vehicle 2. Vehicle 2 was rotated clockwise and came to rest partially off the West side of the road. Both vehicles were towed due to damage. It was cloudy, the road was wet and it was daylight at the time of the collision. The front driver and passenger airbags deployed in vehicle 1. The driver of vehicle 1 was transported by police car to the ER. He was treated for a dislocated great toe sustained during braking/crash avoidance maneuvers.



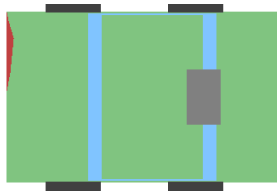
Vehicle	Body type	Make	Model	Year	Occ.#	Age	Occupant's sex	Maximum known occupant ais
1	4-DR SEDAN/HDTOP	Ford	Crown Victoria	1998	1	38	MALE	1=Minor
2	LARGE PICKUP	Ford	F-series P/U	1992	1	40	MALE	0=None
2	LARGE PICKUP	Ford	F-series P/U	1992	2	26	MALE	0=None

Occupant: 2001-2-21-1-1



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	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	10 -10 < 0.5 KMPH
Est. δV with sequence number	DELTA V CODED 1
CDC	12 F Z E W 1
Damage (C1-C6)	0 1 5 8 10 3
Crush (L and D)	152 46
Object Contacted 1	VEHICLE NO. 2
Object Contacted 2	0

NASS Weighting Factor

Weighting factor 83.508

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	DOWNHILL GRADE
Roadway Surface Type	ASPHALT
Roadway Surface Condition	WET
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	Ford Crown Victoria
Year	1998
Class	PASSENGER CAR
Body Type	4-DR SEDAN/HDTOP
Weight	175

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	No DRIVER
Pre-impact Location	STAYED IN LANE

DRIVER Factors

Age	38	Height	173	Weight	91
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	2001-2-21-1-1
MAIS	1=Minor
Seat Position	Front left side

AIS Level	Injury Description	Contacts
1=Minor	Metatarsal, phalangeal or interphalangeal dislocation	Foot controls

Occupant: 2001-2-21-2-1



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



Crash Severity

Nr. Quarter Turns	No rollover
Impact Speed	998
Total, Longitudal, and Lateral δV	8 -1 -8
Est. δV with sequence number	DELTA V CODED 1
CDC	3 R B E W 2
Damage (C1-C6)	0 7 19 0 0 0
Crush (L and D)	204 -191
Object Contacted 1	VEHICLE NO. 1
Object Contacted 2	0

NASS Weighting Factor

Weighting factor 83.508

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	UPHILL GRADE
Roadway Surface Type	ASPHALT
Roadway Surface Condition	WET
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	Ford F-series P/U
Year	1992
Class	TRUCK
Body Type	LARGE PICKUP
Weight	220

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	STAYED IN LANE

DRIVER Factors

Age	40	Height	191	Weight	0
Gender			MALE		
Ejection			No EJECTION		
Ejection Area			No EJECTION		
Entrapment			Not ENTRAPPED		

Restraint Factors

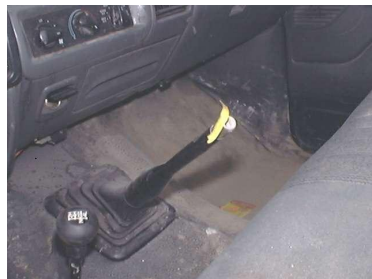
Restrain	Lap and shoulder
AOPS	NO
Airbag Deployment	Not EQUIP/AVAIL
Airbag Deployment - 1 st Seat	Not EQUIP/AVAIL
Airbag Deployment - Oth Seat	Not EQUIP W/ OTH

Injuries

Occupant	2001-2-21-2-1
MAIS	0=None
Seat Position	Front left side

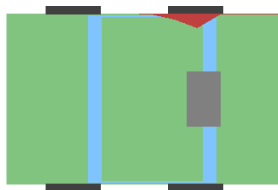
AIS Level	Injury Description	Contacts
-----------	--------------------	----------

Occupant: 2001-2-21-2-2



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, left side
Fuel Cap Location	Left side, forward rear axle
Fuel Tank Damage	No damage
Fuel Type	Diesel



Crash Severity

Nr. Quarter Turns	No rollover
Impact Speed	998
Total, Longitudal, and Lateral δV	8 -1 -8
Est. δV with sequence number	DELTA V CODED 1
CDC	3 R B E W 2
Damage (C1-C6)	0 7 19 0 0 0
Crush (L and D)	204 -191
Object Contacted 1	VEHICLE NO. 1
Object Contacted 2	0

NASS Weighting Factor

Weighting factor 83.508

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	UPHILL GRADE
Roadway Surface Type	ASPHALT
Roadway Surface Condition	WET
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	Ford F-series P/U
Year	1992
Class	TRUCK
Body Type	LARGE PICKUP
Weight	220

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	STAYED IN LANE

PASSENGER 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	NO
Airbag Deployment	Not EQUIP/AVAIL
Airbag Deployment - 1 st Seat	Not EQUIP/AVAIL
Airbag Deployment - Oth Seat	Not EQUIP W/ OTH

Injuries

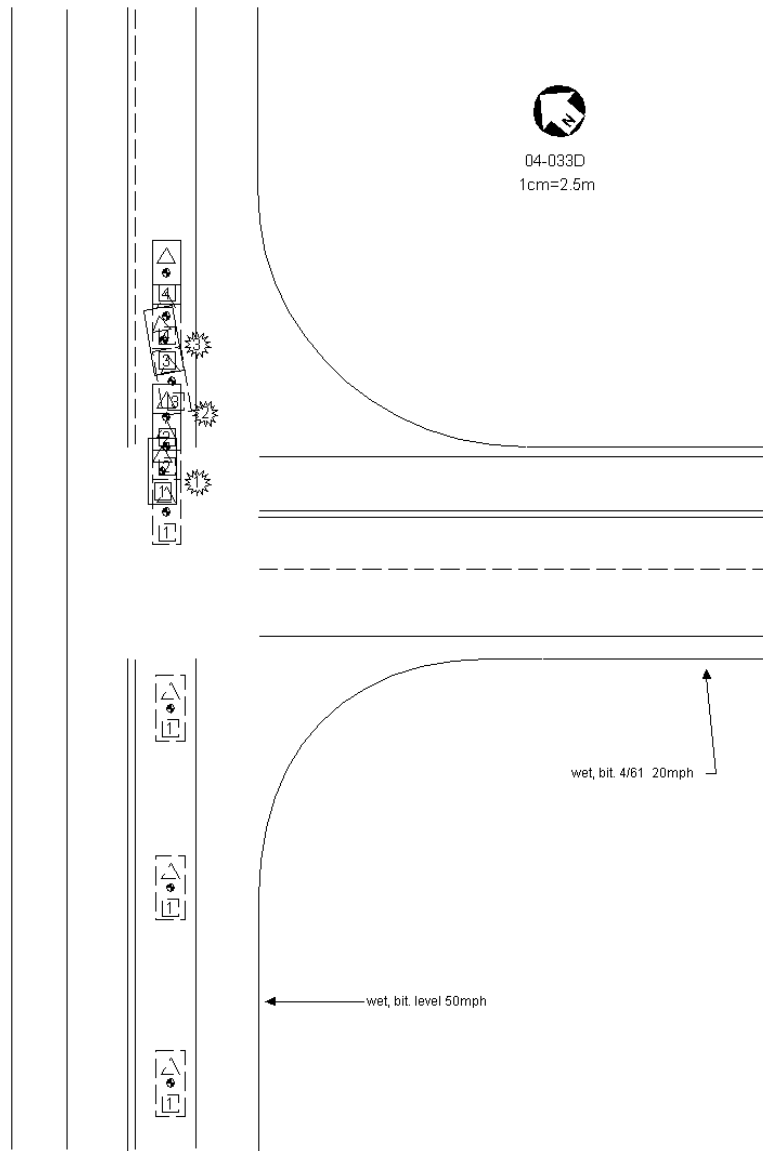
Occupant	2001-2-21-2-2
MAIS	0=None
Seat Position	Front right side

AIS Level	Injury Description	Contacts
-----------	--------------------	----------

23 Case 2001-4-33

Summary:

Vehicles 1,2,3, and 4 were heading northbound on a two lane roadway. Vehicles 2,3, and 4 were traveling very slowly. V1 was traveling in the same direction with a higher rate of speed when the front of v1 made contact with the back of v2. Then the front of v2 made contact with the back of v3. The front of v3 then made contact with the back of v4. Vehicles 1,2, and 3 were towed due to vehicle damage. V4 was driven from the scene. Driver one was transported with "A" injuries. Vehicle 2 had "B" injuries, transport unknown. The driver of v3 had no injuries nor did the driver or passenger in v4.



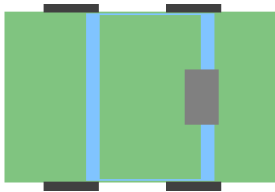
Vehicle	Body type	Make	Model	Year	Occ #	Occupant's sex	Maximum known occupant ais
1	COMPACT UTILITY	Toyota	4-Runner	1988	20	MALE	1=Minor
2	COMPACT UTILITY	GMC	Jimmy/S-15 based	1997	30	FEMALE-NOT PREG	1=Minor
3	2DR SEDAN/HT/CPE	Chevrolet	Cavalier	1990	41	MALE	0=None

Occupant: 2001-4-33-1-1



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	30 -30 < 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	44.228
------------------	--------

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	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	Toyota 4-Runner
Year	1988
Class	TRUCK
Body Type	COMPACT UTILITY
Weight	230

Pre-Crash Driver Data

Accident Type	24
Pre-event Movement	GOING STRAIGHT
Critical Pre-crash Event	CROSS OVER INTER
Attempted Avoidance Maneuver	No DRIVER
Pre-impact Stability	TRACKING
Pre-impact Location	STAYED IN LANE

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	2001-4-33-1-1
MAIS	1=Minor
Seat Position	Front left side

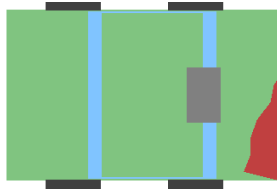
AIS Level	Injury Description	Contacts
1=Minor	Facial skin contusion	Unknown SOURCE

Occupant: 2001-4-33-2-1



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	Punctured
Fuel Type	Gasoline



Crash Severity

Nr. Quarter Turns	No rollover
Impact Speed	998
Total, Longitudal, and Lateral δV	38 37 7
Est. δV with sequence number	DELTA V CODED 1
CDC	6 B D A W 2
Damage (C1-C6)	51 41 41 32 12 7
Crush (L and D)	152 0
Object Contacted 1	VEHICLE NO. 1
Object Contacted 2	VEHICLE NO. 3

NASS Weighting Factor

Weighting factor 44.228

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	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	GMC Jimmy/S-15 based
Year	1997
Class	TRUCK
Body Type	COMPACT UTILITY
Weight	179

Pre-Crash Driver Data

Accident Type	25
Pre-event Movement	GOING STRAIGHT
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	30	Height	168	Weight	88
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	2001-4-33-2-1
MAIS	1=Minor
Seat Position	Front left side

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

Occupant: 2001-4-33-3-1



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	27 27 < 0.5 KMPH
Est. δV with sequence number	DELTA V CODED 2
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	44.228
------------------	--------

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	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	Chevrolet Cavalier
Year	1990
Class	PASSENGER CAR
Body Type	2DR SEDAN/HT/CPE
Weight	110

Pre-Crash Driver Data

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

DRIVER Factors

Age	41	Height	0	Weight	0
Gender			MALE		
Ejection			No EJECTION		
Ejection Area			No EJECTION		
Entrapment			Not ENTRAPPED		

Restraint Factors

Restrain		None used/avail
AOPS		VIN DET AUT BELT
Airbag Deployment		Not EQUIP/AVAIL
Airbag Deployment - 1 st Seat		Not EQUIP/AVAIL
Airbag Deployment - Oth Seat		Not EQUIP W/ OTH

Injuries

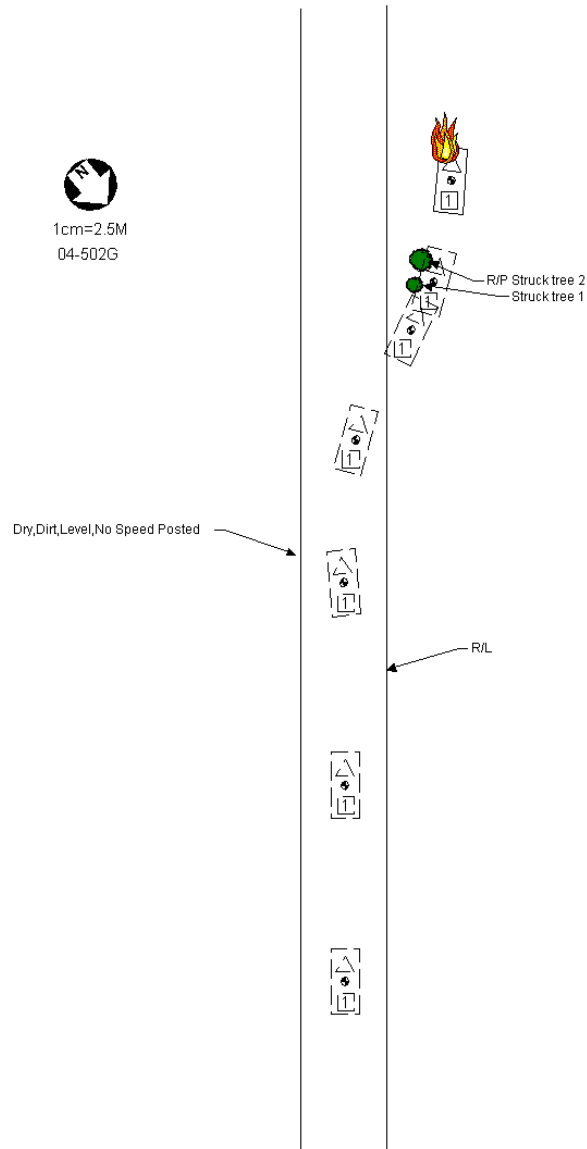
Occupant	2001-4-33-3-1
MAIS	0=None
Seat Position	Front left side

AIS Level	Injury Description	Contacts
-----------	--------------------	----------

24 Case 2001-4-502

Summary:

V1 was traveling South on a two way Dirt road. V1 exited the roadway to the right where the front of the vehicle contacted two small trees. After initial impact the vehicle caught fire. V1 was towed due to damage and no injuries were reported at the scene.



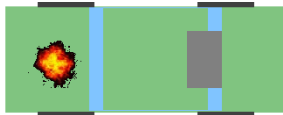
Vehicle	Body type	Make	Model	Year	Occ.#	Age	Occupant's sex	Maximum known occupant ais
1	4-DR SEDAN/HDTOP	Pontiac	J-2000	2001	1	18	FEMALE-NOT PREG	1=Minor
1	4-DR SEDAN/HDTOP	Pontiac	J-2000	2001	2	22	FEMALE-NOT PREG	7=Unk. sev.
1	4-DR SEDAN/HDTOP	Pontiac	J-2000	2001	3	18	MALE	0=None

Occupant: 2001-4-502-1-1



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	Forward of rear axle, centered
Fuel Cap Location	Right 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	DIRT
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	MINOR 2
CDC	11 F L E E 1
Damage (C1-C6)	0 0 0 0 0 0
Crush (L and D)	0 0
Object Contacted 1	SMALL TREE
Object Contacted 2	SMALL TREE

NASS Weighting Factor

Weighting factor 0

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 J-2000
Year	2001
Class	PASSENGER CAR
Body Type	4-DR SEDAN/HDTOP
Weight	120

Pre-Crash Driver Data

Accident Type	2
Pre-event Movement	GOING STRAIGHT
Critical Pre-crash Event	TRAVEL TOO FAST
Attempted Avoidance Manuever	STEERING LEFT
Pre-impact Stability	LONGITUDINAL SKID
Pre-impact Location	DEPARTED ROADWAY

DRIVER Factors

Age	18	Height	165	Weight	50
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	2001-4-502-1-1
MAIS	1=Minor
Seat Position	Front left side

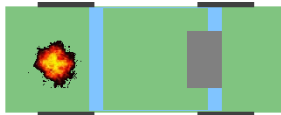
AIS Level	Injury Description	Contacts
1=Minor	Upper extremity skin laceration, minor	Belt webb/buckle
1=Minor	Leg skin contusion (hematoma)	Left apnel

Occupant: 2001-4-502-1-2



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	Forward of rear axle, centered
Fuel Cap Location	Right 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	DIRT
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	MINOR 2
CDC	11 F L E E 1
Damage (C1-C6)	0 0 0 0 0 0
Crush (L and D)	0 0
Object Contacted 1	SMALL TREE
Object Contacted 2	SMALL TREE

NASS Weighting Factor

Weighting factor	0
------------------	---

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 J-2000
Year	2001
Class	PASSENGER CAR
Body Type	4-DR SEDAN/HDTOP
Weight	120

Pre-Crash Driver Data

Accident Type	2
Pre-event Movement	GOING STRAIGHT
Critical Pre-crash Event	TRAVEL TOO FAST
Attempted Avoidance Manuever	STEERING LEFT
Pre-impact Stability	LONGITUDINAL SKID
Pre-impact Location	DEPARTED ROADWAY

PASSENGER Factors

Age	22	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	NONDEPLOYED
Airbag Deployment - 1 st Seat	NONDEPLOYED
Airbag Deployment - Oth Seat	Not EQUIP W/ OTH

Injuries

Occupant	2001-4-502-1-2
MAIS	7=Unk. sev.
Seat Position	Front right side

AIS Level	Injury Description	Contacts
-----------	--------------------	----------

Occupant: 2001-4-502-1-3



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	Forward of rear axle, centered
Fuel Cap Location	Right 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	DIRT
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	MINOR 2
CDC	11 F L E E 1
Damage (C1-C6)	0 0 0 0 0 0
Crush (L and D)	0 0
Object Contacted 1	SMALL TREE
Object Contacted 2	SMALL TREE

NASS Weighting Factor

Weighting factor 0

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 J-2000
Year	2001
Class	PASSENGER CAR
Body Type	4-DR SEDAN/HDTOP
Weight	120

Pre-Crash Driver Data

Accident Type	2
Pre-event Movement	GOING STRAIGHT
Critical Pre-crash Event	TRAVEL TOO FAST
Attempted Avoidance Manuever	STEERING LEFT
Pre-impact Stability	LONGITUDINAL SKID
Pre-impact Location	DEPARTED ROADWAY

PASSENGER Factors

Age	18	Height	178	Weight	68
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	NONDEPLOYED
Airbag Deployment - Oth Seat	Not EQUIP W/ OTH

Injuries

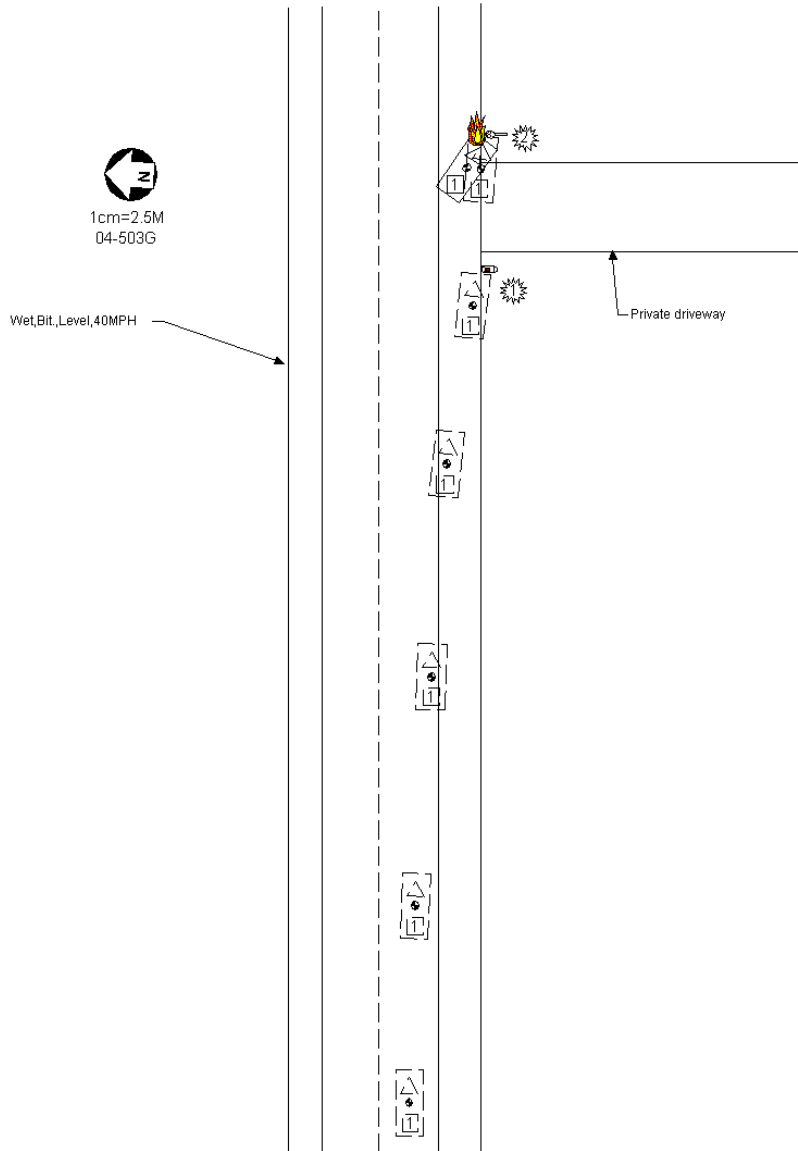
Occupant	2001-4-502-1-3
MAIS	0=None
Seat Position	Second right

AIS Level	Injury Description	Contacts
-----------	--------------------	----------

25 Case 2001-4-503

Summary:

V1 was traveling East on a two way two lane roadway. V1 exited the road to the right where the front of the vehicle contacted a mailbox and then a utility pole. V1 then caught on fire at some point after the collision. V1 was towed due to damage and the driver sustained "C" injuries but was not transported.



Vehicle	Body type	Make	Model	Year	Occ.#	Age	Occupant's sex	Maximum known occupant ais
1	4-DR SEDAN/HDTOP	Dodge	Stratus	2000	1	31	MALE	0=None

Occupant: 2001-4-503-1-1



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	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	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 2
CDC	12 F R E N 2
Damage (C1-C6)	0 0 5 16 18 9
Crush (L and D)	160 37
Object Contacted 1	MEDIUM POLE
Object Contacted 2	MEDIUM POLE

NASS Weighting Factor

Weighting factor	0
------------------	---

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	2000
Class	PASSENGER CAR
Body Type	4-DR SEDAN/HDTOP
Weight	133

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	31	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

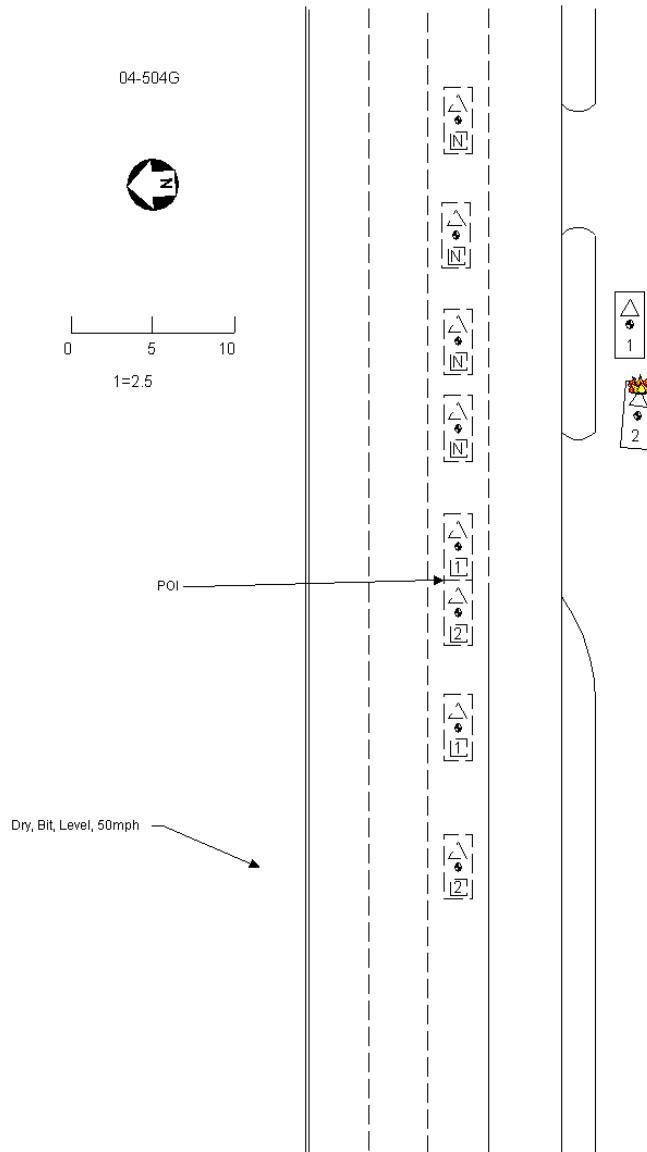
Occupant	2001-4-503-1-1
MAIS	0=None
Seat Position	Front left side

AIS Level	Injury Description	Contacts
-----------	--------------------	----------

26 Case 2001-4-504

Summary:

V1 was traveling east on a six lane roadway divided by a curbed median. V1 was traveling in the center lane and slowed for traffic. V2 was traveling behind V1 and the front of V2 impacted the back of V1. Both vehicles were lightly damaged, so the drivers pulled to the side of the road to exchange information. As V2 pulled to the side of the road, the vehicle caught fire. V2 had to be towed due to the fire damage, but no occupants in the crash were reported as injured or transported.



Vehicle	Body type	Make	Model	Year	Occ.#	Age	Occupant's sex	Maximum known occupant ais
2	MINIVAN	Dodge	Caravan	2000	1	29	MALE	0=None
2	MINIVAN	Dodge	Caravan	2000	2	34	FEMALE-NOT PREG	0=None
2	MINIVAN	Dodge	Caravan	2000	3	4	MALE	0=None
2	MINIVAN	Dodge	Caravan	2000	4	1	MALE	0=None

Occupant: 2001-4-504-2-1



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	12 F Y E W 1
Damage (C1-C6)	3 2 1 0 0 0
Crush (L and D)	153 -35
Object Contacted 1	VEHICLE NO. 1
Object Contacted 2	0

NASS Weighting Factor

Weighting factor	0
------------------	---

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	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	Dodge Caravan
Year	2000
Class	Unknown
Body Type	MINIVAN
Weight	175

Pre-Crash Driver Data

Accident Type	24
Pre-event Movement	GOING STRAIGHT
Critical Pre-crash Event	Same DIR-DECELER
Attempted Avoidance Manuever	BRAKE W/O LOCKUP
Pre-impact Stability	TRACKING
Pre-impact Location	STAYED IN LANE

DRIVER Factors

Age	29	Height	168	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	2001-4-504-2-1
MAIS	0=None
Seat Position	Front left side

AIS Level	Injury Description	Contacts
-----------	--------------------	----------

Occupant: 2001-4-504-2-2



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, 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	12 F Y E W 1
Damage (C1-C6)	3 2 1 0 0 0
Crush (L and D)	153 -35
Object Contacted 1	VEHICLE NO. 1
Object Contacted 2	0

NASS Weighting Factor

Weighting factor 0

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	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	Dodge Caravan
Year	2000
Class	Unknown
Body Type	MINIVAN
Weight	175

Pre-Crash Driver Data

Accident Type	24
Pre-event Movement	GOING STRAIGHT
Critical Pre-crash Event	Same DIR-DECELER
Attempted Avoidance Manuever	BRAKE W/O LOCKUP
Pre-impact Stability	TRACKING
Pre-impact Location	STAYED IN LANE

PASSENGER Factors

Age	34	Height	152	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	2001-4-504-2-2
MAIS	0=None
Seat Position	Front right side

AIS Level	Injury Description	Contacts
-----------	--------------------	----------

Occupant: 2001-4-504-2-3



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	12 F Y E W 1
Damage (C1-C6)	3 2 1 0 0 0
Crush (L and D)	153 -35
Object Contacted 1	VEHICLE NO. 1
Object Contacted 2	0

NASS Weighting Factor

Weighting factor	0
------------------	---

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	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	Dodge Caravan
Year	2000
Class	Unknown
Body Type	MINIVAN
Weight	175

Pre-Crash Driver Data

Accident Type	24
Pre-event Movement	GOING STRAIGHT
Critical Pre-crash Event	Same DIR-DECELER
Attempted Avoidance Manuever	BRAKE W/O LOCKUP
Pre-impact Stability	TRACKING
Pre-impact Location	STAYED IN LANE

PASSENGER Factors

Age	4	Height	97	Weight	15
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	NONDEPLOYED
Airbag Deployment - Oth Seat	Not EQUIP W/ OTH

Injuries

Occupant	2001-4-504-2-3
MAIS	0=None
Seat Position	Second left

AIS Level	Injury Description	Contacts
-----------	--------------------	----------

Occupant: 2001-4-504-2-4



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	12 F Y E W 1
Damage (C1-C6)	3 2 1 0 0 0
Crush (L and D)	153 -35
Object Contacted 1	VEHICLE NO. 1
Object Contacted 2	0

NASS Weighting Factor

Weighting factor	0
------------------	---

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	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	Dodge Caravan
Year	2000
Class	Unknown
Body Type	MINIVAN
Weight	175

Pre-Crash Driver Data

Accident Type	24
Pre-event Movement	GOING STRAIGHT
Critical Pre-crash Event	Same DIR-DECELER
Attempted Avoidance Manuever	BRAKE W/O LOCKUP
Pre-impact Stability	TRACKING
Pre-impact Location	STAYED IN LANE

PASSENGER Factors

Age	1	Height	76	Weight	10
Gender			MALE		
Ejection			No EJECTION		
Ejection Area			No EJECTION		
Entrapment			Not ENTRAPPED		

Restraint Factors

Restrain	Lap+sh w/ch seat
AOPS	YES-RES DET
Airbag Deployment	Not EQUIP/AVAIL
Airbag Deployment - 1 st Seat	NONDEPLOYED
Airbag Deployment - Oth Seat	Not EQUIP W/ OTH

Injuries

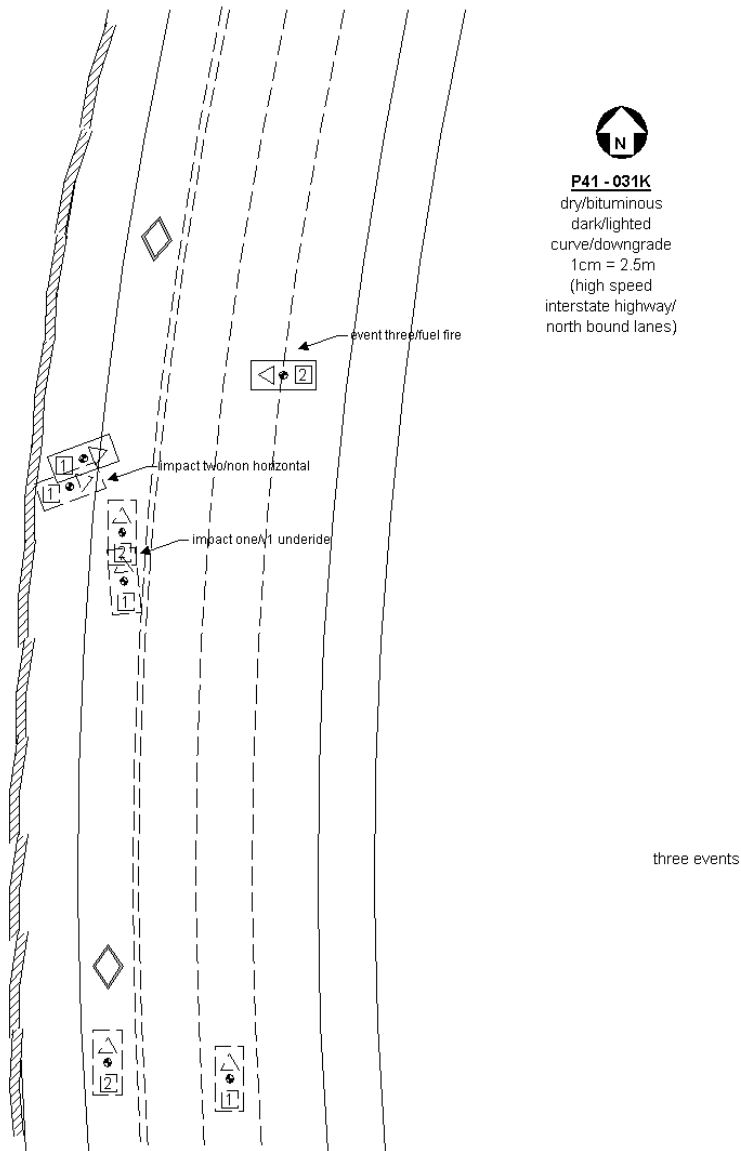
Occupant	2001-4-504-2-4
MAIS	0=None
Seat Position	Second middle

AIS Level	Injury Description	Contacts
-----------	--------------------	----------

27 Case 2001-41-31

Summary:

Vehicle one was traveling north in the second lane of a four lane, dry, bituminous, high speed interstate highway, at night with street lights. Vehicle two was north in the fourth lane of the same roadway. Vehicle two slowed for traffic ahead. Vehicle one travelled over the left lane lines, attempting to avoid an object in the road ahead. Vehicle one's front impacted Vehicle two's back. Upon impact Vehicle one rotated clockwise, striking the concrete median wall in a non-horizontal position. Upon impact, Vehicle two's fuel system caught on fire. Both driver's received 'A' injuries and were transported. The driver of Vehicle one was hospitalized.



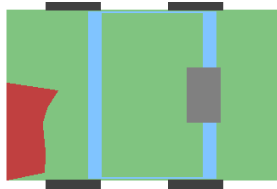
Vehicle #	Body type	Make	Model	Year	Occ.#	Age	Occupant's sex	Maximum known occupant ais
1	4-DR SEDAN/HDTOP	Honda	Accord	1986	1	24	MALE	1=Minor
2	4-DR SEDAN/HDTOP	Lincoln	TownCar/Continental	1995	1	37	MALE	0=None

Occupant: 2001-41-31-1-1



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, 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	82 -82 < 0.5 KMPH
Est. δV with sequence number	DELTA V CODED 1
CDC	12 F D E W 3
Damage (C1-C6)	56 58 56 53 60 76
Crush (L and D)	144 0
Object Contacted 1	VEHICLE NO. 2
Object Contacted 2	CONCRETE BARRIER

NASS Weighting Factor

Weighting factor 20.95

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/W/BARRIER
Number of Travel Lanes	FOUR
Roadway Alignment	CURVE RIGHT
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	No ALCOHOL
Alcohol Test (< 95 indicates BAC 0.xx)	14

Vehicle Factors

Make-Model	Honda Accord
Year	1986
Class	PASSENGER CAR
Body Type	4-DR SEDAN/HDTOP
Weight	110

Pre-Crash Driver Data

Accident Type	32
Pre-event Movement	CHANGING LANES
Critical Pre-crash Event	OVER LINE-LEFT
Attempted Avoidance Manuever	No DRIVER
Pre-impact Stability	No DRIVER
Pre-impact Location	Unk IF LEFT LANE

DRIVER Factors

Age	24	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	2001-41-31-1-1
MAIS	1=Minor
Seat Position	Front left side

AIS Level	Injury Description	Contacts
1=Minor	Facial skin laceration, minor	Windshield
1=Minor	Neck skin laceration, minor	Windshield
1=Minor	297602	Windshield
1=Minor	Upper extremity skin laceration, minor	Steering comb
1=Minor	Leg skin laceration, minor	Left apnel
1=Minor	Nose fracture, closed	Windshield
1=Minor	Facial skin abrasion	Windshield
1=Minor	690202	Windshield
1=Minor	Single rib fracture	Steering rim
1=Minor	Leg skin abrasion	Left apnel

Occupant: 2001-41-31-2-1



Fire Information

Fire Occurrence	Major fire
Fire Origin	Fuel tank
Location of Fuel Leakage	Filler neck
Type of Fuel Tank	Metallic
Fuel Tank Location	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	No rollover
Impact Speed	998
Total, Longitudal, and Lateral δV	50 50 < 0.5 KMPH
Est. δV with sequence number	DELTA V CODED 1
CDC	6 B D E W 6
Damage (C1-C6)	45 110 106 109 103 109
Crush (L and D)	156 0
Object Contacted 1	VEHICLE NO. 1
Object Contacted 2	0

NASS Weighting Factor

Weighting factor	20.95
------------------	-------

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/W/BARRIER
Number of Travel Lanes	FOUR
Roadway Alignment	CURVE RIGHT
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	No ALCOHOL
Alcohol Test (< 95 indicates BAC 0.xx)	0

Vehicle Factors

Make-Model	Lincoln TownCar/Continental
Year	1995
Class	PASSENGER CAR
Body Type	4-DR SEDAN/HDTOP
Weight	183

Pre-Crash Driver Data

Accident Type	32
Pre-event Movement	NEGOTIATE CURVE
Critical Pre-crash Event	Same DIR-OV LEFT
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	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

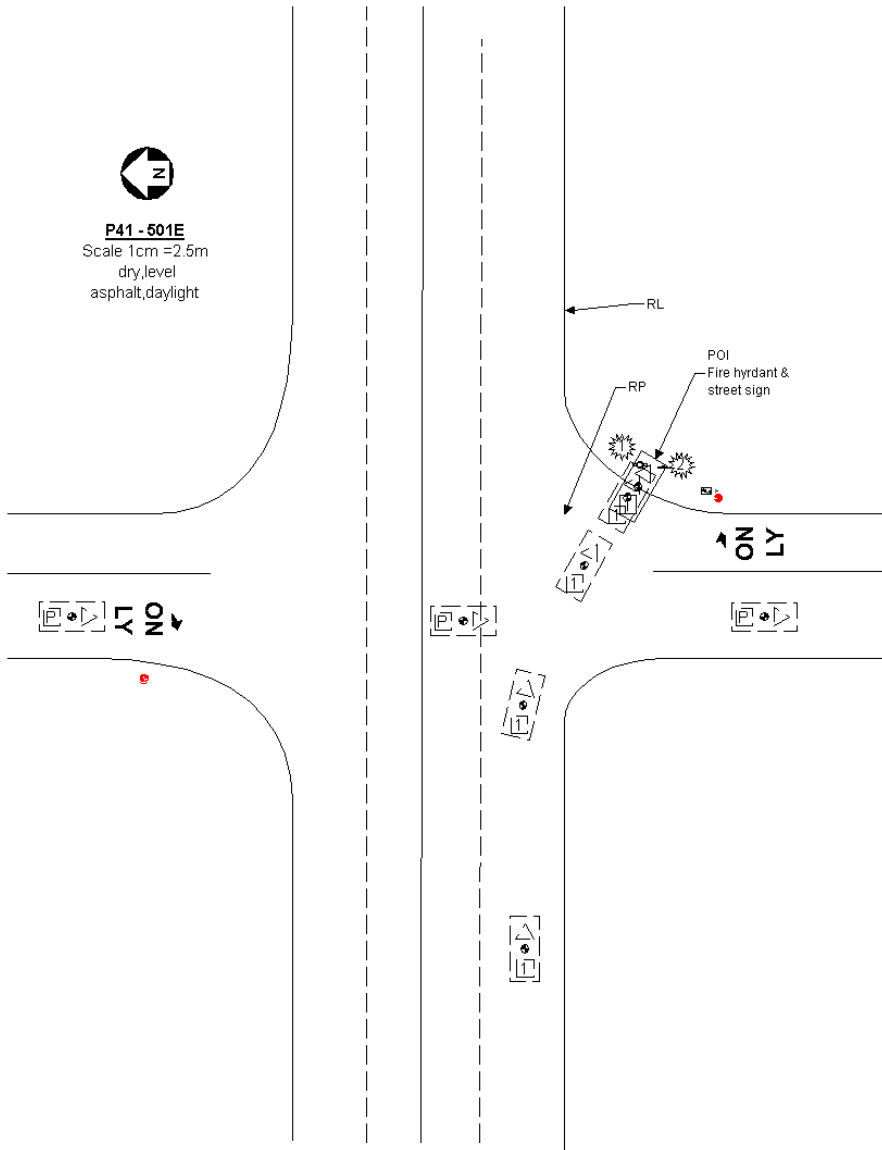
Occupant	2001-41-31-2-1
MAIS	0=None
Seat Position	Front left side

AIS Level	Injury Description	Contacts
-----------	--------------------	----------

28 Case 2001-41-501

Summary:

V1 was EB on level 4 lane city street, dry, daylight. As V1 approached a crossstreet a phantom car came out from the left attempting to cross through the intersection. D1 braked hard and veered to the right to avoid impact with phantom. V1 went over the curb on the southeast corner and struck a firehydrant and signpost. V1's engine compartment burst into flames. Car was towed and pass of V1 was transported and released.



Vehicle	Body type	Make	Model	Year	Occ.#	Age	Occupant's sex	Maximum known occupant ais
1	CONVERTIBLE	BMW	3-series	2001	1	35	MALE	1=Minor
1	CONVERTIBLE	BMW	3-series	2001	2	64	FEMALE-NOT PREG	0=None

Occupant: 2001-41-501-1-1



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	Behind rear axle, right side
Fuel Cap Location	Right 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	20 -20 -4
Est. δV with sequence number	DELTA V CODED 1
CDC	12 F D E W 2
Damage (C1-C6)	8 4 7 9 11 34
Crush (L and D)	160 0
Object Contacted 1	FIRE HYDRANT
Object Contacted 2	MEDIUM POLE

NASS Weighting Factor

Weighting factor 0

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	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	BMW 3-series
Year	2001
Class	PASSENGER CAR
Body Type	CONVERTIBLE
Weight	148

Pre-Crash Driver Data

Accident Type	3
Pre-event Movement	GOING STRAIGHT
Critical Pre-crash Event	XING ST-X PATH
Attempted Avoidance Manuever	BRAKE+STEER RT
Pre-impact Stability	TRACKING
Pre-impact Location	DEPARTED ROADWAY

DRIVER Factors

Age	35	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	BAG DEPLOYED
Airbag Deployment - 1 st Seat	DR
PAS BAG DEPLY	
Airbag Deployment - Oth Seat	NONDEPLOYED

Injuries

Occupant	2001-41-501-1-1
MAIS	1=Minor
Seat Position	Front left side

AIS Level	Injury Description	Contacts
1=Minor	Thoracic skin abrasion	Air bag-DR side
1=Minor	Thoracic skin contusion	Air bag-DR side

Occupant: 2001-41-501-1-2



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	Behind rear axle, right side
Fuel Cap Location	Right 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	20 -20 -4
Est. δV with sequence number	DELTA V CODED 1
CDC	12 F D E W 2
Damage (C1-C6)	8 4 7 9 11 34
Crush (L and D)	160 0
Object Contacted 1	FIRE HYDRANT
Object Contacted 2	MEDIUM POLE

NASS Weighting Factor

Weighting factor 0

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	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	BMW 3-series
Year	2001
Class	PASSENGER CAR
Body Type	CONVERTIBLE
Weight	148

Pre-Crash Driver Data

Accident Type	3
Pre-event Movement	GOING STRAIGHT
Critical Pre-crash Event	XING ST-X PATH
Attempted Avoidance Manuever	BRAKE+STEER RT
Pre-impact Stability	TRACKING
Pre-impact Location	DEPARTED ROADWAY

PASSENGER Factors

Age	64	Height	163	Weight	57
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	NONDEPLOYED

Injuries

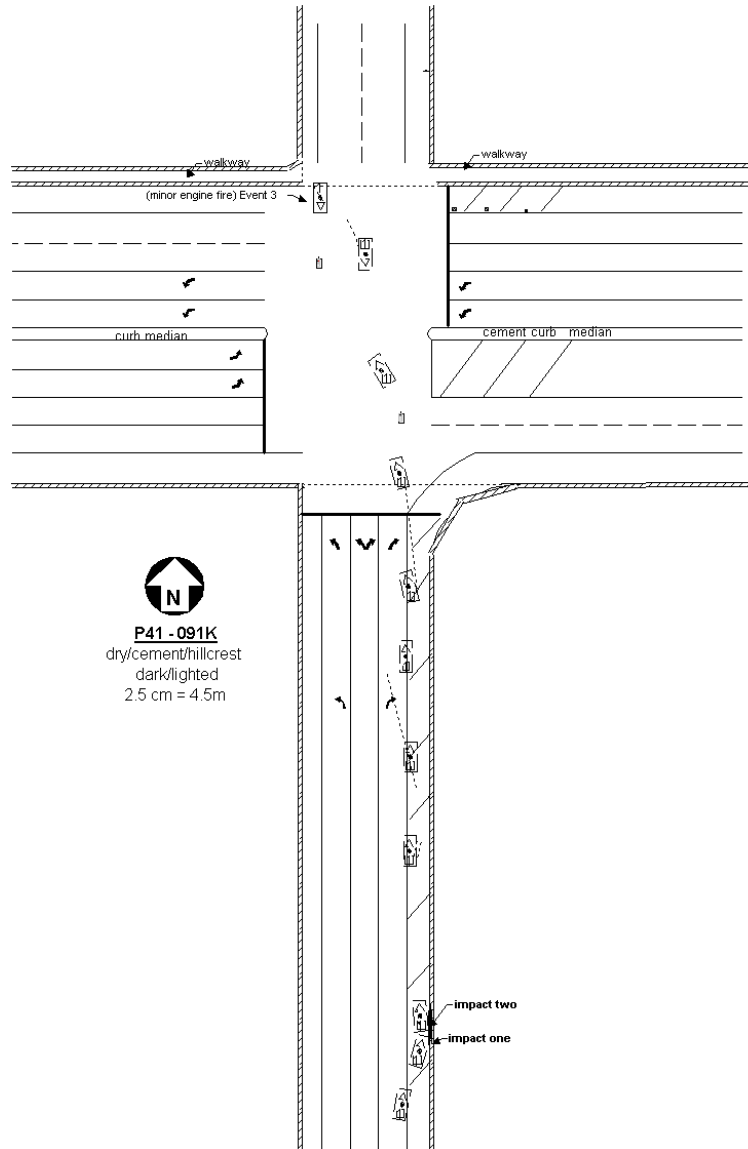
Occupant	2001-41-501-1-2
MAIS	0=None
Seat Position	Front right side

AIS Level	Injury Description	Contacts
-----------	--------------------	----------

29 Case 2001-41-91

Summary:

Vehicle one was traveling north on a three lane, one way, dry, cement, exit ramp from a highway interstate, on a hillcrest, during daylight approaching a fourleg intersection. Vehicle one travelled off the right side of the roadway. Vehicle one's front impacted the cement barrier wall. Upon impact, while continuing north, Vehicle one's right side swiped the cement barrier wall. Vehicle one's right rear wheel was torn away during the impacts. Vehicle one continued traveling north entering the intersection. Vehicle one rotated clockwise 180 degrees, coming to rest facing south in the intersection. Vehicle one's engine produced a minor fire. Vehicle one was towed due to damage. The driver of Vehicle one received 'A' injuries and was hospitalized.



Vehicle	Body type	Make	Model	Year	Occ.#	Age	Occupant's sex	Maximum known occupant ais
1	4-DR SEDAN/HDTOP	Toyota	Corolla	1997	1	32	MALE	1=Minor

Occupant: 2001-41-91-1-1



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	ONE WAY
Number of Travel Lanes	THREE
Roadway Alignment	STRAIGHT
Roadway Profile	HILL CREST
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	16 -14 -8
Est. δV with sequence number	DELTA V CODED 1
CDC	1 F D E W 1
Damage (C1-C6)	1 5 9 12 14 13
Crush (L and D)	140 0
Object Contacted 1	WALL
Object Contacted 2	WALL

NASS Weighting Factor

Weighting factor	29.166
------------------	--------

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 Corolla
Year	1997
Class	PASSENGER CAR
Body Type	4-DR SEDAN/HDTOP
Weight	106

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	TRACKING
Pre-impact Location	DEPARTED ROADWAY

DRIVER Factors

Age	32	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

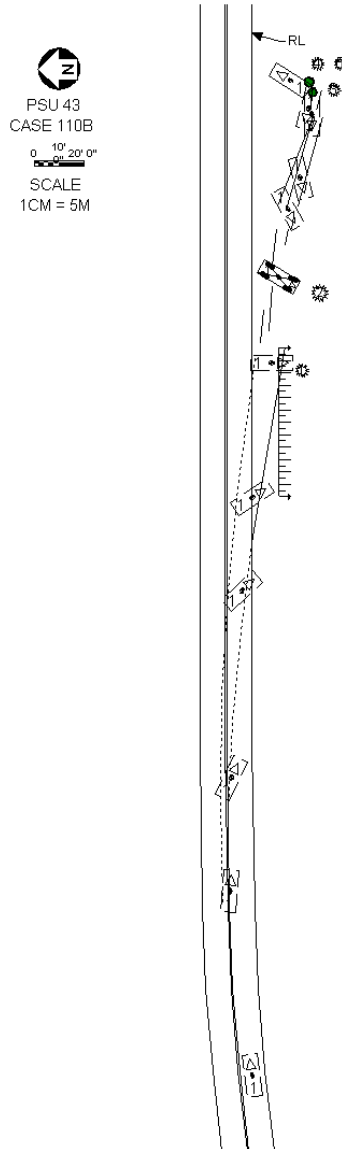
Occupant	2001-41-91-1-1
MAIS	1=Minor
Seat Position	Front left side

AIS Level	Injury Description	Contacts
1=Minor	Facial skin abrasion	Air bag-DR side

30 Case 2001-43-110

Summary:

V1, a 1995 Oldsmobile Aurora, was traveling east negotiating a curve to the right on a dry, bituminous two lane roadway. Weather was clear and lighting condition was dark. V1 lost control and rotated clockwise on the roadway. V1 departed the roadway to the right. The front undercarriage of V1 struck a ditch. V1 then rolled over to the left and contacted three trees - one with its rear and two with its right side before coming to rest off the roadway. The first tree contacted was uprooted and broke in half. The second and third trees did not move. The driver of V1 sustained "K" injuries at the scene. The front passenger of V1 sustained "B" injuries and was transported to a trauma center.



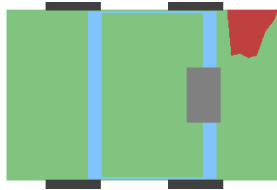
Vehicle	Body type	Make	Model	Year	Occ.#	Age	Occupant's sex	Maximum known occupant ais
1	4-DR SEDAN/HDTOP	Oldsmobile	Aurora	1995	1	20	MALE	1=Minor
1	4-DR SEDAN/HDTOP	Oldsmobile	Aurora	1995	2	20	MALE	3=Serious

Occupant: 2001-43-110-1-1



Fire Information

Fire Occurrence	No fire
Fire Origin	No fire
Location of Fuel Leakage	Other
Type of Fuel Tank	Non-metallic
Fuel Tank Location	Behind rear axle, centered
Fuel Cap Location	Left side, on the 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	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)	8

Crash Severity

Nr. Quarter Turns	4 QUARTER TURNS
Impact Speed	998
Total, Longitudal, and Lateral δV	30 19 -23
Est. δV with sequence number	DELTA V CODED 4
CDC	4 R B A W 4
Damage (C1-C6)	66 63 70 66 31 14
Crush (L and D)	76 -158
Object Contacted 1	LARGE TREE
Object Contacted 2	SMALL TREE

NASS Weighting Factor

Weighting factor	40.863
------------------	--------

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

Vehicle Factors

Make-Model	Oldsmobile Aurora
Year	1995
Class	PASSENGER CAR
Body Type	4-DR SEDAN/HDTOP
Weight	179

Pre-Crash Driver Data

Accident Type	2
Pre-event Movement	NEGOTIATE CURVE
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	20	Height	185	Weight	84
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	2001-43-110-1-1
MAIS	1=Minor
Seat Position	Front left side

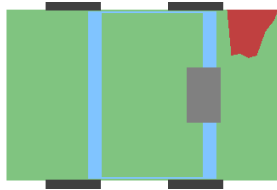
AIS Level	Injury Description	Contacts
1=Minor	Scalp laceration, minor	Rear header
1=Minor	Facial skin laceration, minor	Roof
1=Minor	Nose fracture NFS	Oth right pillar
1=Minor	Mandible injury NFS	Oth right pillar
1=Minor	Facial skin laceration, minor	Oth right pillar
1=Minor	Thoracic skin laceration, minor	Seat, back
1=Minor	Thoracic skin abrasion	Transmiss lever
1=Minor	Abdominal skin abrasion	Transmiss lever
1=Minor	690202	Seat, back
1=Minor	Leg skin abrasion	Transmiss lever
7=Unk. sev.	115999	Rear header

Occupant: 2001-43-110-1-2



Fire Information

Fire Occurrence	No fire
Fire Origin	No fire
Location of Fuel Leakage	Other
Type of Fuel Tank	Non-metallic
Fuel Tank Location	Behind rear axle, centered
Fuel Cap Location	Left side, on the 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	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)	8

Crash Severity

Nr. Quarter Turns	4 QUARTER TURNS
Impact Speed	998
Total, Longitudal, and Lateral δV	30 19 -23
Est. δV with sequence number	DELTA V CODED 4
CDC	4 R B A W 4
Damage (C1-C6)	66 63 70 66 31 14
Crush (L and D)	76 -158
Object Contacted 1	LARGE TREE
Object Contacted 2	SMALL TREE

NASS Weighting Factor

Weighting factor 40.863

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

Vehicle Factors

Make-Model	Oldsmobile Aurora
Year	1995
Class	PASSENGER CAR
Body Type	4-DR SEDAN/HDTOP
Weight	179

Pre-Crash Driver Data

Accident Type	2
Pre-event Movement	NEGOTIATE CURVE
Critical Pre-crash Event	TRAVEL TOO FAST
Attempted Avoidance Manuever	No DRIVER
Pre-impact Stability	LATERAL SKID-CLK
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	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

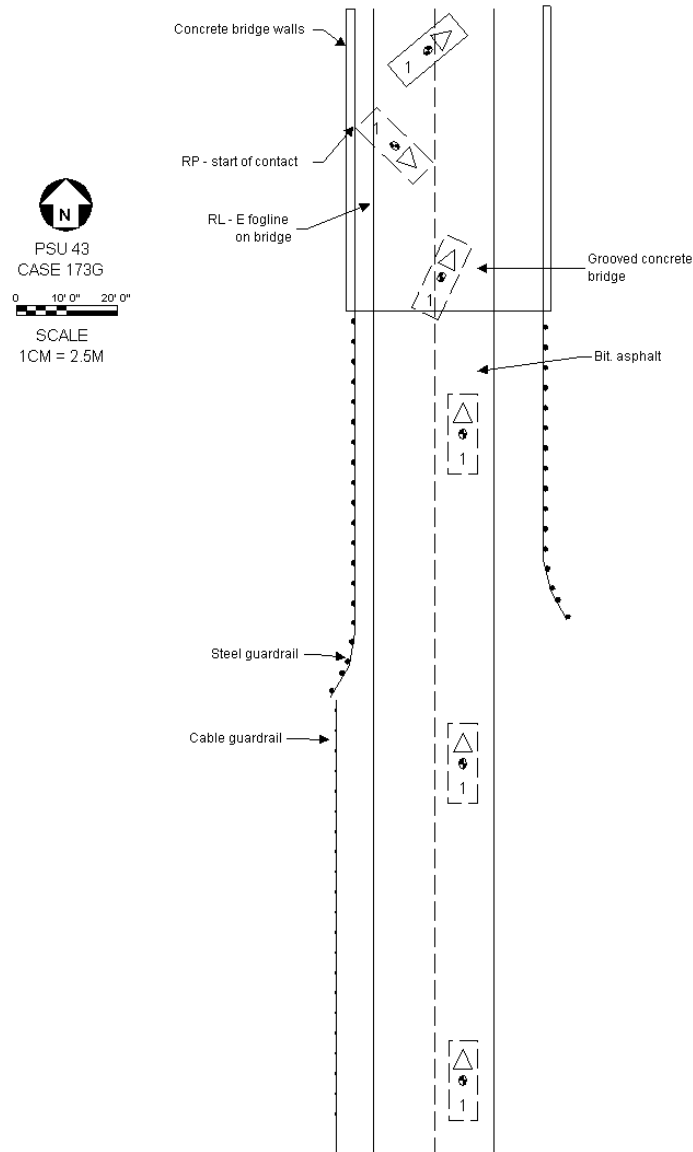
Occupant	2001-43-110-1-2
MAIS	3=Serious
Seat Position	Front right side

AIS Level	Injury Description	Contacts
1=Minor	Facial skin laceration, minor	Right B pillar
1=Minor	Facial skin abrasion	Flying glass
1=Minor	Abdominal skin abrasion	Belt webb/buckle
1=Minor	Leg skin abrasion	Right interior
1=Minor	Penile contusion (hematoma)	Belt webb/buckle
3=Serious	Upper extremity amputation (any point except finger)	Other exterior
1=Minor	Neck skin contusion (hematoma)	Belt webb/buckle
2=Moderate	Acromioclavicular joint dislocation	Right interior

31 Case 2001-43-173

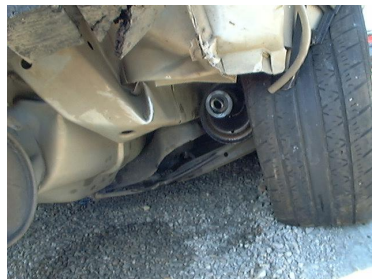
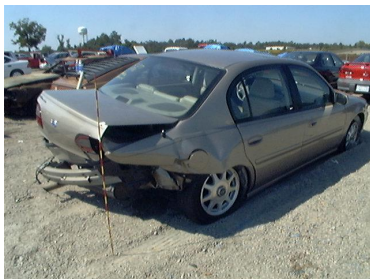
Summary:

V1, a 1998 Chevrolet Malibu, was traveling north in lane 1 of a wet, bituminous, two-lane, divided highway. The weather was rainy with lightning, and it was during daylight. V1 traveled onto a grooved concrete bridge and hydroplaned. V1 rotated right and departed the roadway to the left. The back of V1 contacted the left bridge rail. V1 came to rest across lane #2 partially facing oncoming traffic. V1 was towed due to damage. The driver of V1 reported no injuries at the time, but sought treatment later at a doctor's office.



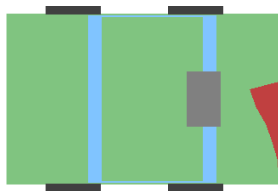
Vehicle	Body type	Make	Model	Year	Occ.#	Age	Occupant's sex	Maximum known occupant ais
1	4-DR SEDAN/HDTOP	Chevrolet	37	1998	1	16	FEMALE-NOT PREG	0=None

Occupant: 2001-43-173-1-1



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, 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	21 20 7
Est. δV with sequence number	DELTA V CODED 1
CDC	7 B D E W 4
Damage (C1-C6)	0 2 9 18 33 42
Crush (L and D)	152 0
Object Contacted 1	BRIDGE
Object Contacted 2	0

NASS Weighting Factor

Weighting factor	613.598
------------------	---------

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/W/BARRIER
Number of Travel Lanes	TWO
Roadway Alignment	STRAIGHT
Roadway Profile	LEVEL
Roadway Surface Type	Other
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

Vehicle Factors

Make-Model	Chevrolet 37
Year	1998
Class	PASSENGER CAR
Body Type	4-DR SEDAN/HDTOP
Weight	141

Pre-Crash Driver Data

Accident Type	7
Pre-event Movement	GOING STRAIGHT
Critical Pre-crash Event	POOR ROAD CONDIT
Attempted Avoidance Manuever	No AVOIDANCE
Pre-impact Stability	LATERAL SKID-CLK
Pre-impact Location	DEPARTED ROADWAY

DRIVER Factors

Age	16	Height	160	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	NONDEPLOYED
Airbag Deployment - 1 st Seat	NONDEPLOYED
Airbag Deployment - Oth Seat	Not EQUIP W/ OTH

Injuries

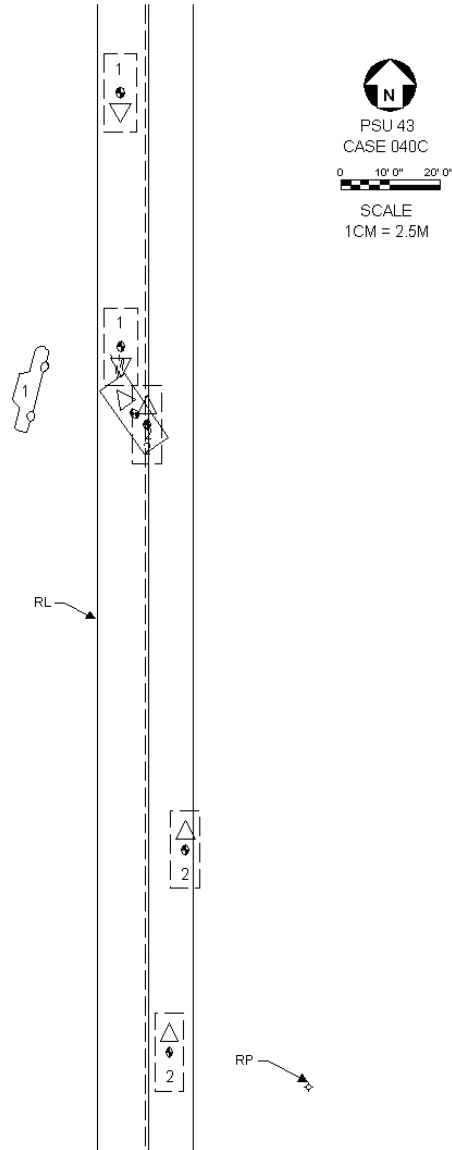
Occupant	2001-43-173-1-1
MAIS	0=None
Seat Position	Front left side

AIS Level	Injury Description	Contacts
-----------	--------------------	----------

32 Case 2001-43-40

Summary:

V1 was traveling south on a dry, bituminous two-lane roadway. V2 was traveling north on a dry, bituminous two lane roadway. Weather was clear and lighting condition was daylight. The front of V1 contacted the front of V2. V1 continued off road and overturned onto its right side. V1 then experienced a minor fire of items in the bed of the truck. Both vehicles were towed due to damage. The drivers of both vehicles sustained "A" injuries and were transported to a trauma center. The front passenger of V1 and the rear center passenger of V2 sustained "B" injuries and were transported to a trauma center. The front passenger of V2 sustained "C" injuries but was not transported. The back right and left passengers of V2 reported no injuries at the time but were transported to a trauma center.



Vehicle ID	Vehicle type	Make	Model	Year	Age	Occupant's sex	Maximum known occupant AIS
1	LARGE PICKUP	Chevrolet	C/K-series Pickup	1980	35	MALE	7=Unk. sev.
1	LARGE PICKUP	Chevrolet	C/K-series Pickup	1980	32	FEMALE-NOT PREG	1=Minor
2	4-DR SEDAN/HDTOP	Pontiac	Grand AM	2001	21	FEMALE-NOT PREG	7=Unk. sev.
2	4-DR SEDAN/HDTOP	Pontiac	Grand AM	2002	3	MALE	0=None
2	4-DR SEDAN/HDTOP	Pontiac	Grand AM	2003	3	LESS THAN ONE YEAR	0=None
2	4-DR SEDAN/HDTOP	Pontiac	Grand AM	2004	23	FEMALE-NOT PREG	7=Unk. sev.
2	4-DR SEDAN/HDTOP	Pontiac	Grand AM	2005	55	FEMALE-NOT PREG	7=Unk. sev.

Occupant: 2001-43-40-1-1



Fire Information

Fire Occurrence	Minor fire
Fire Origin	Other location
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	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 1
CDC	12 F Y E W 7
Damage (C1-C6)	0 0 0 0 0 0
Crush (L and D)	0 0
Object Contacted 1	VEHICLE NO. 2
Object Contacted 2	ROLLOVER-OVERTRN

NASS Weighting Factor

Weighting factor 45.52

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 C/K-series Pickup
Year	1980
Class	TRUCK
Body Type	LARGE PICKUP
Weight	162

Pre-Crash Driver Data

Accident Type	51
Pre-event Movement	GOING STRAIGHT
Critical Pre-crash Event	OPP DIR-OVR LEFT
Attempted Avoidance Manuever	No DRIVER
Pre-impact Stability	TRACKING
Pre-impact Location	STAYED IN LANE

DRIVER Factors

Age	35	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	2001-43-40-1-1
MAIS	7=Unk. sev.
Seat Position	Front left side

AIS Level	Injury Description	Contacts
-----------	--------------------	----------

Occupant: 2001-43-40-1-2



Fire Information

Fire Occurrence	Minor fire
Fire Origin	Other location
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	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	1980
Class	TRUCK
Body Type	LARGE PICKUP
Weight	162

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 Y E W 7
Damage (C1-C6)	0 0 0 0 0 0
Crush (L and D)	0 0
Object Contacted 1	VEHICLE NO. 2
Object Contacted 2	ROLLOVER-OVERTRN

Pre-Crash Driver Data

Accident Type	51
Pre-event Movement	GOING STRAIGHT
Critical Pre-crash Event	OPP DIR-OVR LEFT
Attempted Avoidance Manuever	No DRIVER
Pre-impact Stability	TRACKING
Pre-impact Location	STAYED IN LANE

NASS Weighting Factor

Weighting factor	45.52
------------------	-------

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

PASSENGER Factors

Age	32	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	NO
Airbag Deployment	Not EQUIP/AVAIL
Airbag Deployment - 1 st Seat	Not EQUIP/AVAIL
Airbag Deployment - Oth Seat	Not EQUIP W/ OTH

Injuries

Occupant	2001-43-40-1-2
MAIS	1=Minor
Seat Position	Front right side

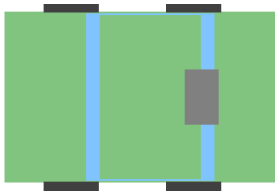
AIS Level	Injury Description	Contacts
1=Minor	Facial skin abrasion	Right panel
1=Minor	Thoracic skin contusion	Belt webb/buckle
1=Minor	Leg skin contusion (hematoma)	Belt webb/buckle
1=Minor	Leg skin contusion (hematoma)	Floor

Occupant: 2001-43-40-2-1



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	45.52
------------------	-------

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	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	Pontiac Grand AM
Year	2001
Class	PASSENGER CAR
Body Type	4-DR SEDAN/HDTOP
Weight	139

Pre-Crash Driver Data

Accident Type	50
Pre-event Movement	GOING STRAIGHT
Critical Pre-crash Event	OVER LINE-LEFT
Attempted Avoidance Manuever	No DRIVER
Pre-impact Stability	No DRIVER
Pre-impact Location	Left TRAVEL LANE

DRIVER Factors

Age	21	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		Not EQUIP/AVAIL
Airbag Deployment - Oth Seat		Not EQUIP W/ OTH

Injuries

Occupant	2001-43-40-2-1
MAIS	7=Unk. sev.
Seat Position	Front left side

AIS Level	Injury Description	Contacts
-----------	--------------------	----------

Occupant: 2001-43-40-2-2



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	< 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	45.52
------------------	-------

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	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	Pontiac Grand AM
Year	2001
Class	PASSENGER CAR
Body Type	4-DR SEDAN/HDTOP
Weight	139

Pre-Crash Driver Data

Accident Type	50
Pre-event Movement	GOING STRAIGHT
Critical Pre-crash Event	OVER LINE-LEFT
Attempted Avoidance Manuever	No DRIVER
Pre-impact Stability	No DRIVER
Pre-impact Location	Left TRAVEL LANE

PASSENGER Factors

Age	3	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		Not EQUIP/AVAIL
Airbag Deployment - Oth Seat		Not EQUIP W/ OTH

Injuries

Occupant	2001-43-40-2-2
MAIS	0=None
Seat Position	Second left

AIS Level	Injury Description	Contacts
-----------	--------------------	----------

Occupant: 2001-43-40-2-3



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	45.52
------------------	-------

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	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	Pontiac Grand AM
Year	2001
Class	PASSENGER CAR
Body Type	4-DR SEDAN/HDTOP
Weight	139

Pre-Crash Driver Data

Accident Type	50
Pre-event Movement	GOING STRAIGHT
Critical Pre-crash Event	OVER LINE-LEFT
Attempted Avoidance Maneuver	No DRIVER
Pre-impact Stability	No DRIVER
Pre-impact Location	Left TRAVEL LANE

PASSENGER Factors

Age	LESS THAN ONE YR	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	Not EQUIP/AVAIL
Airbag Deployment - Oth Seat	Not EQUIP W/ OTH

Injuries

Occupant	2001-43-40-2-3
MAIS	0=None
Seat Position	Second right

AIS Level	Injury Description	Contacts
-----------	--------------------	----------

Occupant: 2001-43-40-2-4



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	45.52
------------------	-------

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	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	Pontiac Grand AM
Year	2001
Class	PASSENGER CAR
Body Type	4-DR SEDAN/HDTOP
Weight	139

Pre-Crash Driver Data

Accident Type	50
Pre-event Movement	GOING STRAIGHT
Critical Pre-crash Event	OVER LINE-LEFT
Attempted Avoidance Manuever	No DRIVER
Pre-impact Stability	No DRIVER
Pre-impact Location	Left TRAVEL LANE

PASSENGER Factors

Age	23	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		Not EQUIP/AVAIL
Airbag Deployment - Oth Seat		Not EQUIP W/ OTH

Injuries

Occupant	2001-43-40-2-4
MAIS	7=Unk. sev.
Seat Position	Second middle

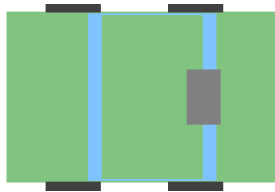
AIS Level	Injury Description	Contacts
-----------	--------------------	----------

Occupant: 2001-43-40-2-5



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	45.52
------------------	-------

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	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	Pontiac Grand AM
Year	2001
Class	PASSENGER CAR
Body Type	4-DR SEDAN/HDTOP
Weight	139

Pre-Crash Driver Data

Accident Type	50
Pre-event Movement	GOING STRAIGHT
Critical Pre-crash Event	OVER LINE-LEFT
Attempted Avoidance Maneuver	No DRIVER
Pre-impact Stability	No DRIVER
Pre-impact Location	Left TRAVEL LANE

PASSENGER Factors

Age	55	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		Not EQUIP/AVAIL
Airbag Deployment - Oth Seat		Not EQUIP W/ OTH

Injuries

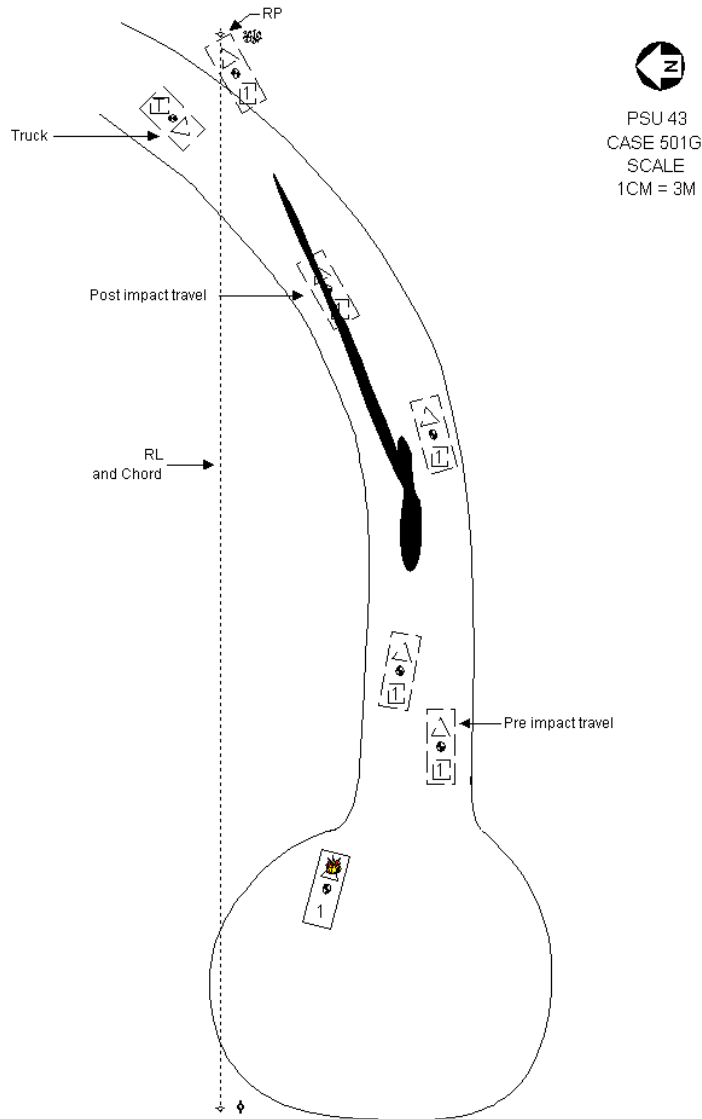
Occupant	2001-43-40-2-5
MAIS	7=Unk. sev.
Seat Position	Front right side

AIS Level	Injury Description	Contacts
-----------	--------------------	----------

33 Case 2001-43-501

Summary:

V1 was traveling east on a dry, bituminous two lane roadway. Weather was clear and lighting condition was dark but lighted. V1 departed the roadway to the right. The front of V1 contacted a street light pole. The light from the pole then fell and contacted the windshield of V1. V1 then rolled backwards, came to a stop, and caught fire. V1 was towed due to damage. The driver of V1 sustained "C" injuries and was not transported.



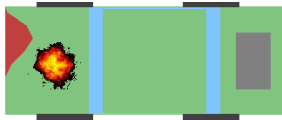
Vehicle ID	Body type	Make	Model	Year Occurred	Age	Occupant's sex	Maximum known occupant AIS
1	3DR/2DR HATCHBACK	Pontiac	Firebird/Trans AM	1998	27	FEMALE-NOT PREG	0=None

Occupant: 2001-43-501-1-1



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	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	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	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	32 -32 < 0.5 KMPH
Est. δV with sequence number	DELTA V CODED 1
CDC	12 F Z E N 2
Damage (C1-C6)	0 11 35 48 37 4
Crush (L and D)	132 15
Object Contacted 1	MEDIUM POLE
Object Contacted 2	Oth NONFIXED OBJ

NASS Weighting Factor

Weighting factor 0

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 Firebird/Trans AM
Year	1998
Class	PASSENGER CAR
Body Type	3DR/2DR HATCHBAK
Weight	152

Pre-Crash Driver Data

Accident Type	1
Pre-event Movement	NEGOTIATE CURVE
Critical Pre-crash Event	OFF EDGE-RIGHT
Attempted Avoidance Manuever	No AVOIDANCE
Pre-impact Stability	TRACKING
Pre-impact Location	DEPARTED ROADWAY

DRIVER Factors

Age	27	Height	160	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

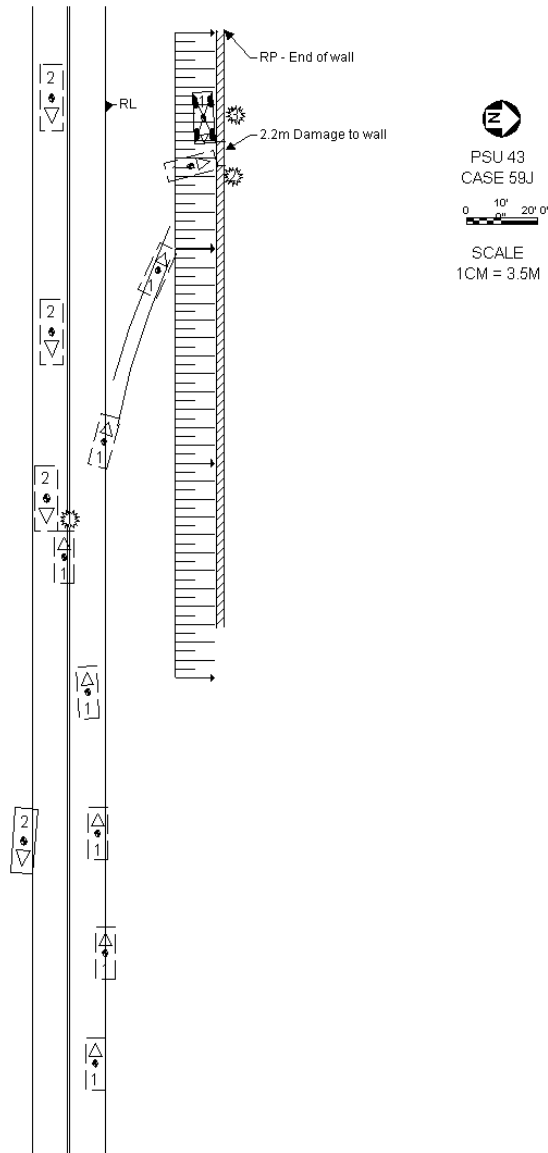
Occupant	2001-43-501-1-1
MAIS	0=None
Seat Position	Front left side

AIS Level	Injury Description	Contacts
-----------	--------------------	----------

34 Case 2001-43-59

Summary:

V1 was traveling west on a dry, bituminous two-lane roadway. V2 was traveling east on a dry, bituminous two-lane roadway. Weather was clear and lighting condition was daylight. The front of V1 contacted the front of V2. V1 continued forward, departing the roadway and contacting a cinderblock wall with its front. V1 then rolled over to the left and came to rest on its roof. Both vehicles were towed due to damage. The driver of V1 sustained "A" injuries and was transported to a trauma center and admitted. The driver of V2 reported no injuries at the time.



Vehicle	Body type	Make	Model	Year	Occ.#	Age	Occupant's sex	Maximum known occupant AIS
1	4-DR SEDAN/HDTOP	Toyota	Corolla	2001	1	66	FEMALE-NOT PREG	4=Severe
2	LARGE PICKUP	Ford	F-series P/U	1997	1	48	FEMALE-NOT PREG	0=None

Occupant: 2001-43-59-1-1



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	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	NONINTER/NONJUNC
Traffic Control Device	
Police Reported Alcohol Presence	No ALCOHOL
Alcohol Test (< 95 indicates BAC 0.xx)	0

Vehicle Factors

Make-Model	Toyota Corolla
Year	2001
Class	PASSENGER CAR
Body Type	4-DR SEDAN/HDTOP
Weight	114

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 2
CDC	0 T Z Y O 3
Damage (C1-C6)	0 0 0 0 0 0
Crush (L and D)	0 0
Object Contacted 1	ROLLOVER-OVERTRN
Object Contacted 2	WALL

Pre-Crash Driver Data

Accident Type	64
Pre-event Movement	GOING STRAIGHT
Critical Pre-crash Event	OFF EDGE-RIGHT
Attempted Avoidance Manuever	No AVOIDANCE
Pre-impact Stability	TRACKING
Pre-impact Location	Left TRAVEL LANE

NASS Weighting Factor

Weighting factor 45.52

DRIVER Factors

Age	66	Height	168	Weight	86
Gender					FEMALE-NOT PREG
Ejection					No EJECTION
Ejection Area					No EJECTION
Entrapment					Not ENTRAPPED

Rollover Characteristics

Number of Events	3
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

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
MAIS
Seat Position

2001-43-59-1-1
4=Severe
Front left side

AIS Level

Injury Description

Contacts

1=Minor

Facial skin abrasion

Air bag-DR side

1=Minor

297402

Air bag-DR side

1=Minor

297402

Air bag-DR side

1=Minor

Thoracic skin contusion

Air bag-DR side

1=Minor

Upper extremity skin abrasion

Roof

1=Minor

Upper extremity skin contusion

Roof

4=Severe

Hepatic laceration, major (<504=Severe

Burn, 2nd or 3rd degree, 301=Minor

Upper extremity skin contusion

Belt webb/buckle

1=Minor

Leg skin contusion (hematoma)

Belt webb/buckle

2=Moderate

Splenic laceration, minor (tear<3cms deep, no major vessel)

Belt webb/buckle

1=Minor

Abdominal skin contusion

Belt webb/buckle

1=Minor

Upper extremity skin laceration

Roof

1=Minor

NFS Leg skin contusion (hematoma)

Knee bolster

1=Minor

Facial skin laceration

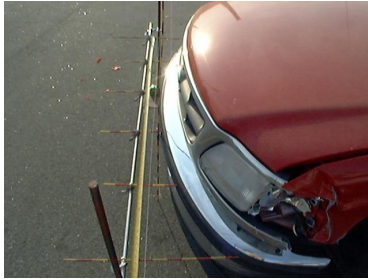
Roof left rail

1=Minor

NFS Facial skin contusion

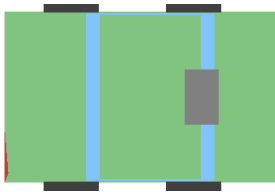
Roof left rail

Occupant: 2001-43-59-2-1



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	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 1
CDC	12 F L E S 7
Damage (C1-C6)	6 3 1 0 0 0
Crush (L and D)	174 -82
Object Contacted 1	VEHICLE NO. 1
Object Contacted 2	0

NASS Weighting Factor

Weighting factor 45.52

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	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 F-series P/U
Year	1997
Class	TRUCK
Body Type	LARGE PICKUP
Weight	191

Pre-Crash Driver Data

Accident Type	65
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	STAYED IN LANE

DRIVER Factors

Age	48	Height	168	Weight	79
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

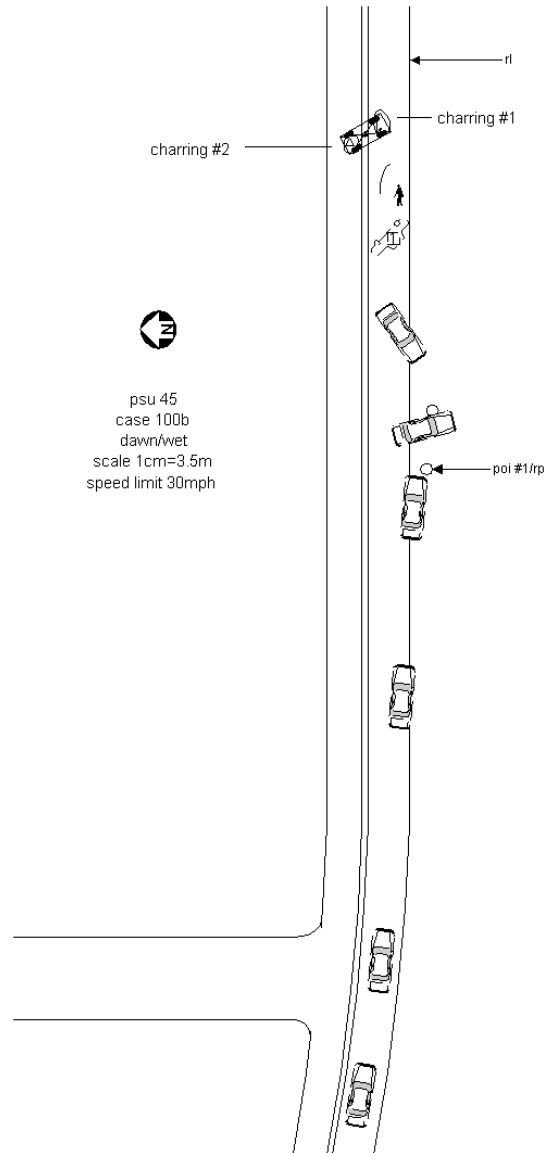
Occupant	2001-43-59-2-1
MAIS	0=None
Seat Position	Front left side

AIS Level	Injury Description	Contacts
-----------	--------------------	----------

35 Case 2001-45-100

Summary:

V1 was eastbound on a two lane rural roadway under wet/dawn conditions with a speed limit of 30mph. As V1 exited a left curve, V1 right side left roadway. Front of V1 impacted a tree, V1 began a clockwise yaw, impacted a tree with the left side, rolled two quarter turns, and came to rest facing north in the roadway. V1 then caught on fire. Unbelted driver was ejected, and was fatal at scene.



Vehicle	Body type	Make	Model	Year	Occ.#	Age	Occupant's sex	Maximum known occupant ais
1	2DR SEDAN/HT/CPE	BMW	3-series	1988	1	18	MALE	1=Minor

Occupant: 2001-45-100-1-1



Fire Information

Fire Occurrence	Major fire
Fire Origin	Fuel tank
Location of Fuel Leakage	Tank
Type of Fuel Tank	Metallic
Fuel Tank Location	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	UPHILL GRADE
Roadway Surface Type	ASPHALT
Roadway Surface Condition	WET
Light Conditions	DAWN
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	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	SEVERE 1
CDC	0 9 9 9 9 0
Damage (C1-C6)	0 0 0 0 0 0
Crush (L and D)	0 0
Object Contacted 1	LARGE TREE
Object Contacted 2	LARGE TREE

NASS Weighting Factor

Weighting factor	61.65
------------------	-------

Rollover Characteristics

Number of Events	4
Rollover Initiation Type	TRIP-OVER
Location of Rollover Initiation	ON ROADWAY
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	BMW 3-series
Year	1988
Class	PASSENGER CAR
Body Type	2DR SEDAN/HT/CPE
Weight	125

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	No DRIVER
Pre-impact Location	DEPARTED ROADWAY

DRIVER Factors

Age	18	Height	0	Weight	53
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

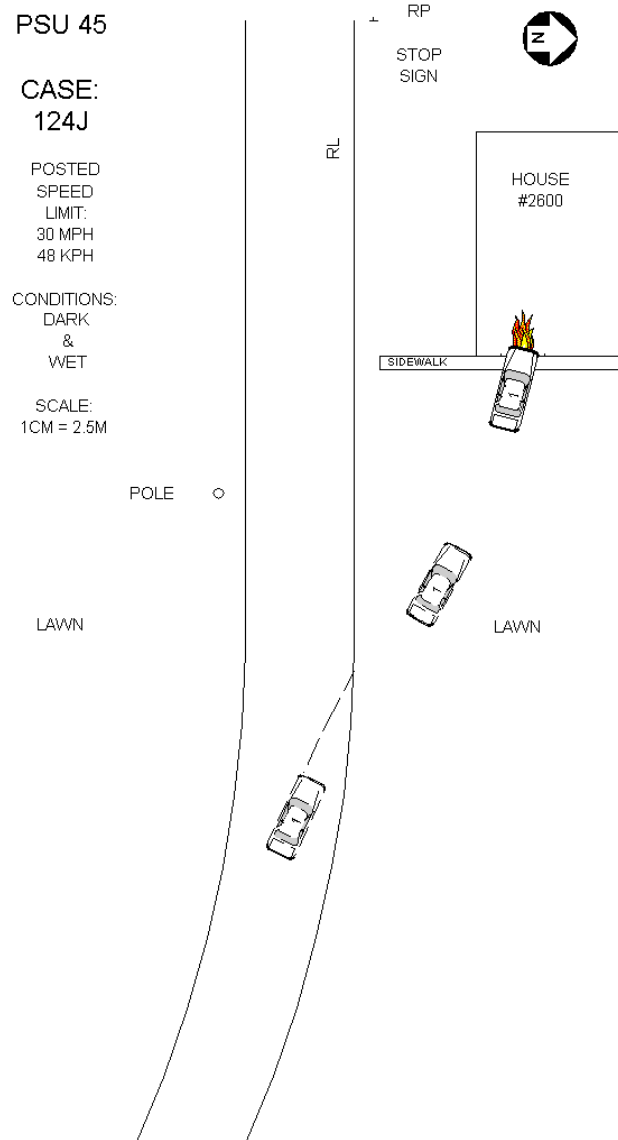
Occupant	2001-45-100-1-1
MAIS	1=Minor
Seat Position	Front left side

AIS Level	Injury Description	Contacts
1=Minor	Facial skin laceration NFS	Other exterior
1=Minor	Facial skin laceration NFS	Other exterior
1=Minor	Facial skin abrasion	Other exterior
1=Minor	Facial skin abrasion	Other exterior
1=Minor	Scalp laceration, NFS	Ground
1=Minor	Scalp laceration, NFS	Other exterior
1=Minor	392000	Other exterior
1=Minor	292000	Other exterior
1=Minor	Neck skin avulsion, superficial (<100cms ²)	Other exterior
1=Minor	Facial skin laceration, minor	Other exterior
1=Minor	Neck skin contusion (hematoma)	Ground
1=Minor	Facial skin abrasion	Other exterior
1=Minor	Upper extremity skin abrasion	Ground
1=Minor	Arm skin avulsion, superficial (<25cms ² hand or <100cms ² arm)	Ground
1=Minor	Abdominal skin abrasion	Ground
1=Minor	Leg skin abrasion	Ground
1=Minor	692000	Other exterior

36 Case 2001-45-124

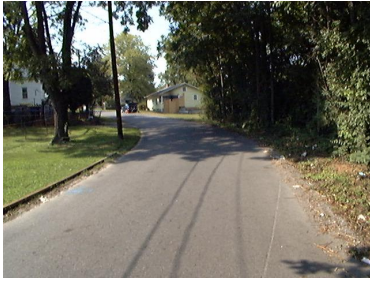
Summary:

Vehicle #1 was traveling west on a two lane roadway in dark and wet conditions. The roadway curves to the left, there are houses and lawns on both sides of the roadway. Vehicle went off of the roadway on the right side, traveled through a lawn and struck a house with its front. The vehicle experienced a fire, which also burned the house. The unbelted driver of the airbag deployed vehicle fled the scene. The belted front seat passenger of the airbag deployed vehicle was transported to a medical facility. Two belted back seat passengers were transported to a medical facility. The burned vehicle was towed from the scene.



Vehicle	Body type	Make	Model	Year	Occ.#	Age	Occupant's sex	Maximum known occupant ais
1	4-DR SEDAN/HDTOP	Chrysler	Cirrus	2000	1	45	MALE	7=Unk. sev.
1	4-DR SEDAN/HDTOP	Chrysler	Cirrus	2000	2	9	MALE	1=Minor
1	4-DR SEDAN/HDTOP	Chrysler	Cirrus	2000	3	15	MALE	2=Moderate
1	4-DR SEDAN/HDTOP	Chrysler	Cirrus	2000	4	8	MALE	1=Minor

Occupant: 2001-45-124-1-1



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	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	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)	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	11 F D E W 2
Damage (C1-C6)	0 15 40 36 25 13
Crush (L and D)	140 0
Object Contacted 1	BUILDING
Object Contacted 2	0

NASS Weighting Factor

Weighting factor	74.287
------------------	--------

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	Chrysler Cirrus
Year	2000
Class	PASSENGER CAR
Body Type	4-DR SEDAN/HDTOP
Weight	136

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	45	Height	165	Weight	68
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	2001-45-124-1-1
MAIS	7=Unk. sev.
Seat Position	Front left side

AIS Level	Injury Description	Contacts
-----------	--------------------	----------

Occupant: 2001-45-124-1-2



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	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	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)	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	11 F D E W 2
Damage (C1-C6)	0 15 40 36 25 13
Crush (L and D)	140 0
Object Contacted 1	BUILDING
Object Contacted 2	0

NASS Weighting Factor

Weighting factor	74.287
------------------	--------

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	Chrysler Cirrus
Year	2000
Class	PASSENGER CAR
Body Type	4-DR SEDAN/HDTOP
Weight	136

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

PASSENGER Factors

Age	9	Height	152	Weight	32
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	2001-45-124-1-2
MAIS	1=Minor
Seat Position	Front right side

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

Occupant: 2001-45-124-1-3



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	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	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	DELTA V CODED 1
CDC	11 F D E W 2
Damage (C1-C6)	0 15 40 36 25 13
Crush (L and D)	140 0
Object Contacted 1	BUILDING
Object Contacted 2	0

NASS Weighting Factor

Weighting factor	74.287
------------------	--------

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	Chrysler Cirrus
Year	2000
Class	PASSENGER CAR
Body Type	4-DR SEDAN/HDTOP
Weight	136

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

PASSENGER Factors

Age	15	Height	183	Weight	59
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	2001-45-124-1-3
MAIS	2=Moderate
Seat Position	Second left

AIS Level	Injury Description	Contacts
1=Minor	Upper extremity skin abrasion	Belt webb/buckle
1=Minor	Abdominal skin abrasion	Belt webb/buckle
2=Moderate	Hepatic contusion (hematoma) NFS	Belt webb/buckle
2=Moderate	Pancreatic contusion NFS	Belt webb/buckle
2=Moderate	Kidney contusion (hematoma) NFS	Belt webb/buckle

Occupant: 2001-45-124-1-4



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	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	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	DELTA V CODED 1
CDC	11 F D E W 2
Damage (C1-C6)	0 15 40 36 25 13
Crush (L and D)	140 0
Object Contacted 1	BUILDING
Object Contacted 2	0

NASS Weighting Factor

Weighting factor	74.287
------------------	--------

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	Chrysler Cirrus
Year	2000
Class	PASSENGER CAR
Body Type	4-DR SEDAN/HDTOP
Weight	136

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

PASSENGER Factors

Age	8	Height	152	Weight	27
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	2001-45-124-1-4
MAIS	1=Minor
Seat Position	Second right

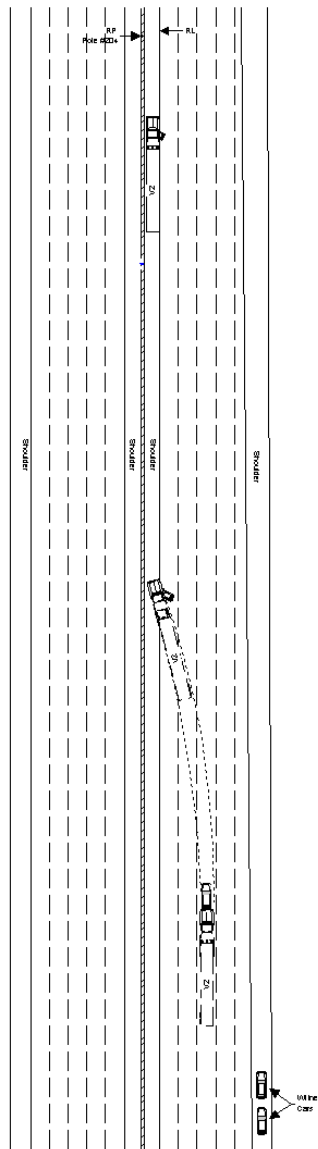
AIS Level	Injury Description	Contacts
1=Minor	Acute cervical spine strain without fracture or dislocation	Other noncontact
1=Minor	Tongue laceration, superficial	Other noncontact

37 Case 2001-45-132

Summary:

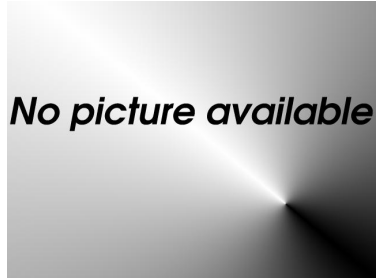
The crash occurred on a median divided east-west urban interstate with five lanes in each direction and shoulders on each side. Conditions at the time of the crash were dark and dry. Street lights are intermittently present, but the area is generally dark. V1 was a compact automobile traveling east in the third or middle lane. V2 was a tractor with semi trailer traveling east in the same lane behind V1. For unknown reasons V1 slowed to a near stop in the travel lane and V2's front struck V1's back. V2 overrode V1 and the car became lodged under the cab of the tractor. The vehicles then veered left and traveled 60m before striking the median wall. The vehicles continued east to final rest in the left emergency lane 150m east of initial impact with V1 remaining underneath V2. During the crash sequence the vehicles caught on fire and were severely burned. The sole occupant of the car was a fatality. The driver and occupant of the truck which was in the sleeper berth were able to escape the fire through the left door with no injuries. Two witness vehicles were stopped on the right shoulder approximately 75m west of impact due to mechanical problems. They reported seeing V1 driving past them in the middle lane at 5mph with its right blinker on. The witness' are unsure if any other lights were on besides the right blinker. V2 had negotiated a flyover ramp where interstates merge 300m prior to the collision and the driver states that he saw the witness' vehicles lights on the shoulder from a distance and changed lanes from the 2nd to the 3rd lane. He reports that he was looking straight ahead but didn't see V1 because it had no lights on until only a few feet before impact which is supported by the fact that there were no pre impact skids from the truck.

**PSU 45
132B**
Dry / Dark
Speed Limit: 55mph
89kph
Scale: 1cm = 8m



Vehicle	Body type	Make	Model	Year	Occ.#	Age	Occupant's sex	Maximum known occupant ais
1	2DR SEDAN/HT/CPE	Chevrolet	Camaro	1986	1	42	MALE	6=Maximum

Occupant: 2001-45-132-1-1



Fire Information

Fire Occurrence	Major 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	DVDED/W/BARRIER
Number of Travel Lanes	FIVE
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

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	6 B D A W 7
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	75.564
------------------	--------

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 Camaro
Year	1986
Class	PASSENGER CAR
Body Type	2DR SEDAN/HT/CPE
Weight	130

Pre-Crash Driver Data

Accident Type	29
Pre-event Movement	DECELER IN LANE
Critical Pre-crash Event	DECELERATING
Attempted Avoidance Manuever	No AVOIDANCE
Pre-impact Stability	TRACKING
Pre-impact Location	STAYED IN LANE

DRIVER Factors

Age	42	Height	163	Weight	70
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

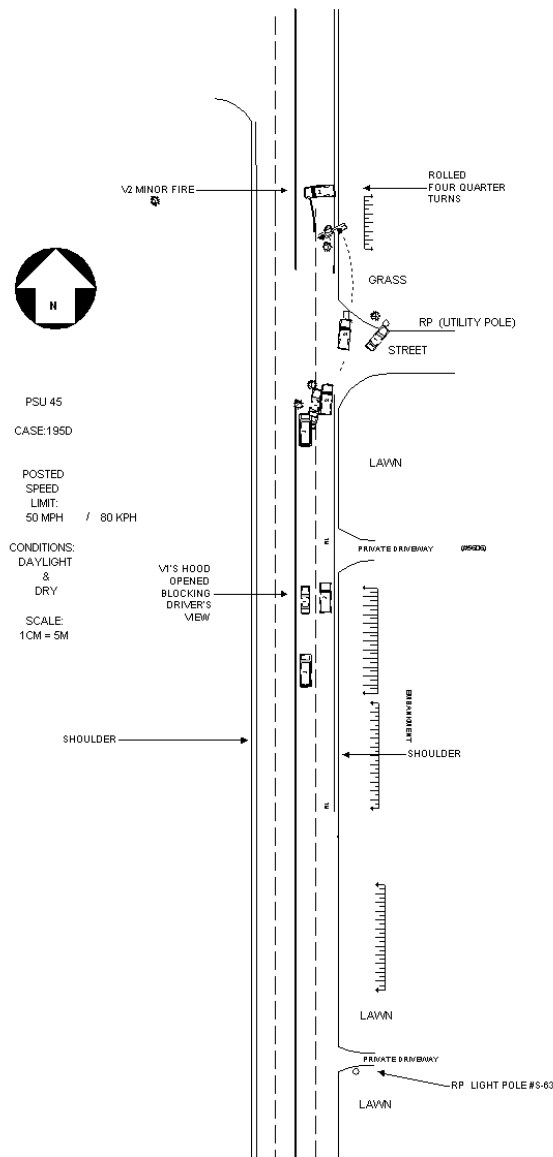
Occupant	2001-45-132-1-1
MAIS	6=Maximum
Seat Position	Front left side

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

38 Case 2001-45-195

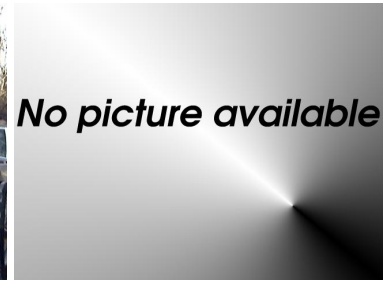
Summary:

Vehicle #1 was traveling north on a four lane roadway in the center travel lane. Vehicle #2 was traveling north on the same four lane roadway in the outside travel lane. Vehicle #3 was traveling behind Vehicle #1 in the inside travel lane. It was daylight and dry. Vehicle #1's hood opened, Vehicle #1 encroached over to the right lane line and struck the left side of Vehicle #2 with it's front right. Vehicle #1 was then struck in the back by the front of Vehicle #3, Vehicle #3 came to immediate rest near the point of impact facing north. Vehicle #2 began to rotate counterclockwise and went off of the roadway on the right side and began to roll over as it descended into a ditch and then back onto the roadway. Vehicle #2 then rolled over four quarter turns and came to rest facing west in the center of the roadway. Vehicle #1 then struck a pole on the right side of the roadway with it's front and came to rest facing northeast. Vehicle #3 then had a minor fire which was quickly extinguished. In Vehicle #1, the unbelted driver was not injured, the unbelted front seat passenger was transported to a medical facility, two belted children in child restraints in the second seating area were not injured, an unbelted passenger in the second seating area was not injured. In Vehicle #2, the belted driver was transported to a medical facility. Vehicle #3 was a non-towed vehicle.



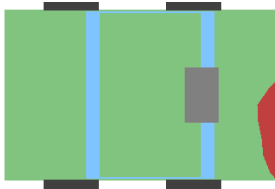
Vehicle #	Body type	Make	Model	Year	Occ.#	Age	Occupant's sex	Maximum known occupant ais
1	4-DR SEDAN/HDTOP	Honda	Accord	1987	1	20	FEMALE-NOT PREG	1=Minor
1	4-DR SEDAN/HDTOP	Honda	Accord	1987	2	17	MALE	1=Minor
1	4-DR SEDAN/HDTOP	Honda	Accord	1987	3	LESS THAN ONE YR	MALE	0=None
1	4-DR SEDAN/HDTOP	Honda	Accord	1987	4	LESS THAN ONE YR	MALE	0=None
1	4-DR SEDAN/HDTOP	Honda	Accord	1987	5	22	FEMALE-NOT PREG	0=None
2	LARGE PICKUP	Ford	F-series P/U	1994	1	40	MALE	1=Minor

Occupant: 2001-45-195-1-1



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	26 26 < 0.5 KMPH
Est. δV with sequence number	DELTA V CODED 2
CDC	6 B D E W 3
Damage (C1-C6)	10 19 22 27 28 11
Crush (L and D)	148 0
Object Contacted 1	VEHICLE NO. 3
Object Contacted 2	VEHICLE NO. 2

NASS Weighting Factor

Weighting factor	480.037
------------------	---------

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	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	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	1987
Class	PASSENGER CAR
Body Type	4-DR SEDAN/HDTOP
Weight	110

Pre-Crash Driver Data

Accident Type	46
Pre-event Movement	CHANGING LANES
Critical Pre-crash Event	OVER LINE-RIGHT
Attempted Avoidance Manuever	No AVOIDANCE
Pre-impact Stability	TRACKING
Pre-impact Location	Left TRAVEL LANE

DRIVER Factors

Age	20	Height	152	Weight	69
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

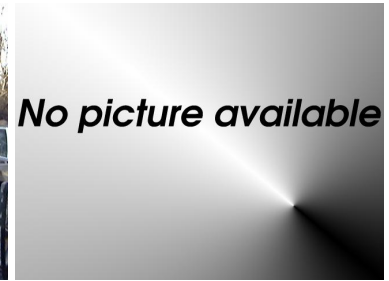
Injuries

Occupant	2001-45-195-1-1
MAIS	1=Minor
Seat Position	Front left side

AIS Level	Injury Description	Contacts
------------------	---------------------------	-----------------

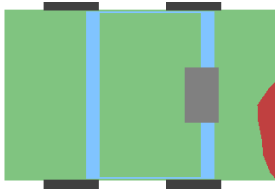
1=Minor	Leg skin contusion (hematoma)	Left apnel
---------	-------------------------------	------------

Occupant: 2001-45-195-1-2



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	26 26 < 0.5 KMPH
Est. δV with sequence number	DELTA V CODED 2
CDC	6 B D E W 3
Damage (C1-C6)	10 19 22 27 28 11
Crush (L and D)	148 0
Object Contacted 1	VEHICLE NO. 3
Object Contacted 2	VEHICLE NO. 2

NASS Weighting Factor

Weighting factor	480.037
------------------	---------

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	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	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	1987
Class	PASSENGER CAR
Body Type	4-DR SEDAN/HDTOP
Weight	110

Pre-Crash Driver Data

Accident Type	46
Pre-event Movement	CHANGING LANES
Critical Pre-crash Event	OVER LINE-RIGHT
Attempted Avoidance Manuever	No AVOIDANCE
Pre-impact Stability	TRACKING
Pre-impact Location	Left TRAVEL LANE

PASSENGER Factors

Age	17	Height	188	Weight	98
Gender			MALE		
Ejection			No EJECTION		
Ejection Area			No EJECTION		
Entrapment			Not ENTRAPPED		

Restraint Factors

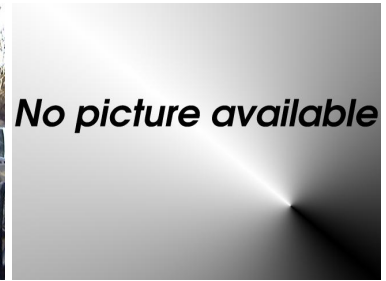
Restrain	None used/avail
AOPS	NO
Airbag Deployment	Not EQUIP/AVAIL
Airbag Deployment - 1 st Seat	Not EQUIP/AVAIL
Airbag Deployment - Oth Seat	Not EQUIP W/ OTH

Injuries

Occupant	2001-45-195-1-2
MAIS	1=Minor
Seat Position	Front right side

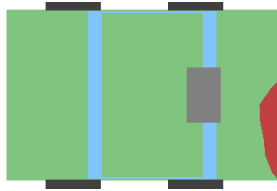
AIS Level	Injury Description	Contacts
1=Minor	Leg skin contusion (hematoma)	Right panel

Occupant: 2001-45-195-1-3



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



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 2
CDC	6 B D E W 3
Damage (C1-C6)	10 19 22 27 28 11
Crush (L and D)	148 0
Object Contacted 1	VEHICLE NO. 3
Object Contacted 2	VEHICLE NO. 2

NASS Weighting Factor

Weighting factor 480.037

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	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	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	1987
Class	PASSENGER CAR
Body Type	4-DR SEDAN/HDTOP
Weight	110

Pre-Crash Driver Data

Accident Type	46
Pre-event Movement	CHANGING LANES
Critical Pre-crash Event	OVER LINE-RIGHT
Attempted Avoidance Manuever	No AVOIDANCE
Pre-impact Stability	TRACKING
Pre-impact Location	Left TRAVEL LANE

PASSENGER Factors

Age	LESS THAN ONE YR	Height	0	Weight	8
Gender		Ejection		Ejection Area	
		Entrapment			
				MALE	
				No EJECTION	
				No EJECTION	
				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	2001-45-195-1-3
MAIS	0=None
Seat Position	Second left

AIS Level	Injury Description	Contacts
-----------	--------------------	----------

Restraint Factors

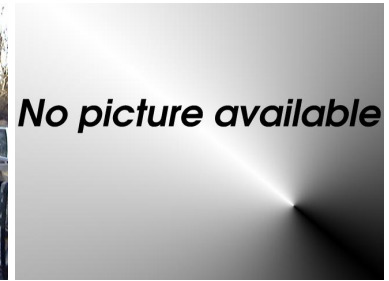
Restrain	Lap w/ch/seat
AOPS	NO
Airbag Deployment	Not EQUIP/AVAIL
Airbag Deployment - 1 st Seat	Not EQUIP/AVAIL
Airbag Deployment - Oth Seat	Not EQUIP W/ OTH

Injuries

Occupant	2001-45-195-1-4
MAIS	0=None
Seat Position	Second middle

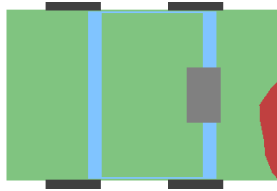
AIS Level	Injury Description	Contacts
-----------	--------------------	----------

Occupant: 2001-45-195-1-5



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	26 26 < 0.5 KMPH
Est. δV with sequence number	DELTA V CODED 2
CDC	6 B D E W 3
Damage (C1-C6)	10 19 22 27 28 11
Crush (L and D)	148 0
Object Contacted 1	VEHICLE NO. 3
Object Contacted 2	VEHICLE NO. 2

NASS Weighting Factor

Weighting factor	480.037
------------------	---------

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	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	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	1987
Class	PASSENGER CAR
Body Type	4-DR SEDAN/HDTOP
Weight	110

Pre-Crash Driver Data

Accident Type	46
Pre-event Movement	CHANGING LANES
Critical Pre-crash Event	OVER LINE-RIGHT
Attempted Avoidance Manuever	No AVOIDANCE
Pre-impact Stability	TRACKING
Pre-impact Location	Left TRAVEL LANE

PASSENGER Factors

Age	22	Height	168	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	2001-45-195-1-5
MAIS	0=None
Seat Position	Second right

AIS Level	Injury Description	Contacts
-----------	--------------------	----------

Occupant: 2001-45-195-2-1



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	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	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 3
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-OVERTRN
Object Contacted 2	VEHICLE NO. 1

NASS Weighting Factor

Weighting factor	480.037
------------------	---------

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

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	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	1994
Class	TRUCK
Body Type	LARGE PICKUP
Weight	201

Pre-Crash Driver Data

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

DRIVER Factors

Age	40	Height	178	Weight	75
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	2001-45-195-2-1
MAIS	1=Minor
Seat Position	Front left side

AIS Level	Injury Description	Contacts
1=Minor	Scalp laceration, minor	Roof left rail
1=Minor	Scalp laceration, minor	Roof left rail
1=Minor	Awake on admission, never unconscious	Roof left rail

39 Case 2001-45-197

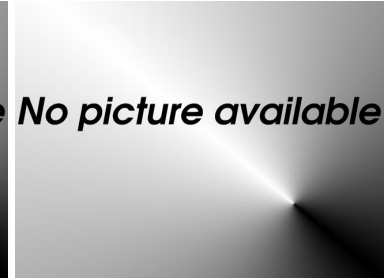
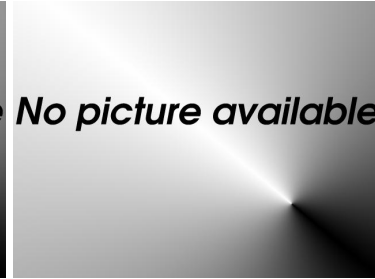
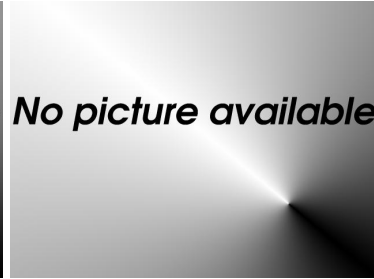
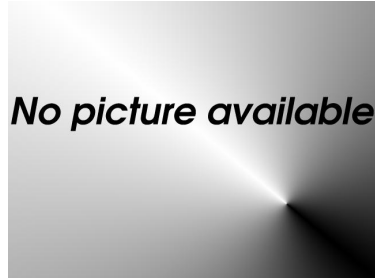
Summary:

The crash location was an east/west urban interstate with three lanes in each direction divided by concrete traffic barriers on each side. The area has an interchange entrance ramp and is the beginning of a construction zone where there are no shoulders or emergency lanes for two miles. In the construction area two lanes are being added in each direction and it has been the site of 78 crashes in a six month time span. Conditions at the time of this crash were dry and dark just after midnight. V1 was a 1985 Cadillac Deville traveling east in the left lane. The vehicle stalled as it approached the interchange construction area and came to a stop in the travel lane. V2, a 1996 Plymouth Neon, was also eastbound in the left lane and stopped in the travel lane behind V1. V3 which was a 1998 Freightliner Conventional XL series tractor pulling a 48ft Utility semi trailer was traveling east in the middle lane. Traffic entering from the shortened entrance ramp forced vehicles ahead to slow dramatically in the 45mph zone. In an attempt to avoid traffic ahead V3 swerved left into the left lane and struck V2 in the rear. V2's front struck V1 in the back pushing it into a pedestrian that had been driving V1. V3's front then struck V1's rear knocking V1 58m east where it came to rest facing south in the left and middle lanes. After impact, V2 contacted the center divider wall with its front left corner and rolled over to its right side. V3 also struck the wall and V2 became lodged between the truck and the wall. The vehicles continued east in the left lane where they came to rest 62m east of impact with V2 on its right side between the wall and V3's left front cab in the left lane. During the crash V2 caught on fire and both V2 and V3's tractor burned. After V1 became disabled in the left lane, the 20 year old male driver put the vehicle in neutral, turned on his emergency hazard lights, and attempted to restart the car. He had purchased the vehicle only a few days before and had been experiencing problems with the battery cable and electrical system. When the vehicle would not restart, he got out of the vehicle leaving a 20 year old male passenger inside the vehicle. The driver then walked around to the front and was preparing to open the hood when the collision occurred. The impact catapulted the driver turned pedestrian across the barrier wall and into a construction area for westbound lanes. V1's passenger was uninjured and after the crash he assisted the driver and the two fled the scene. They walked to a convenience store and called for a friend to come and pick them up. The friend transported them home and the driver was subsequently taken to a hospital where he was treated and released with head lacerations. The two were located and questioned by police the following evening. V2 was being driven by a 19 year old male traveling with his wife a 18 year old female that was 8 months pregnant. The driver was forced to stop behind the disabled vehicle and had been stopped between 30 seconds and one minute when the crash occurred. He reportedly was waiting for the heavy traffic to clear in the middle lane so he could go around V1. Initial impact from the truck caused 108cm crush to the rear of the vehicle and the vehicle then contacted V1 and the wall and rolled onto its right side before becoming lodged between the truck and the wall. During the crash V2 fuel system caught on fire and the vehicle began to burn. V2's driver was able to climb out of the vehicle, but along with assistance from bystanders, was unable to get the occupant out of the car before flames consumed the vehicle. The driver was treated and released from the hospital with burns to his hands. The pregnant passenger was dead on the scene. The tractor with semi trailer, V3, was loaded with 49,500 lbs. of broccoli. The driver was a 39 year old male that spoke very little English was driving for a small carrier based in the northeast. He was traveling from California to Philadelphia, Pennsylvania and had left on the 2900 mile trip the preceding Wednesday and was scheduled to arrive with the load on Monday which would be within acceptable hour limits without unforeseen delays. The driver stated he took a break 7 hours before the crash and had been driving since. He apparently saw traffic coming to an abrupt stop ahead and initially started to change lanes to the right but saw vehicles in that lane and then moved from the middle over into the left lane where V1 and V2 were stopped causing the collision. The driver stated that a car cut in front of him which forced him to change lanes. He estimated his speed at 60mph in the 45mph zone. After the crash the tractor was at rest against the burning car and the driver attempted to put the vehicle in reverse to move it away from the car where bystanders were attempting to rescue the V2 passenger. Although he was not injured in the crash, his attempts to move the truck were unsuccessful and he was forced to exit the vehicle because the truck also caught on fire. Upon inspection of the truck the right axle 2 and right axle 4 brakes were out of adjustment along with the air tank on the trailer being loose. In depth brake inspection found V3 to have a total braking efficiency of 60

No picture available

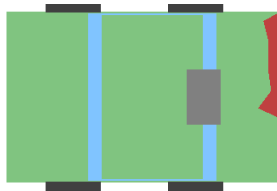
Vehicle #	Body type	Make	Model	Year	Occ.#	Occupant's sex	Maximum known occupant ais
1	4-DR SEDAN/HD TOP	Cadillac	Deville/Fleetwood	1985	20	MALE	1=Minor
2	4-DR SEDAN/HD TOP	Plymouth	20	1996	19	MALE	1=Minor
2	4-DR SEDAN/HD TOP	Plymouth	20	1996	18	FEM-PREG 3RD TRI	6=Maximum

Occupant: 2001-45-197-1-1



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/W/BARRIER
Number of Travel Lanes	THREE
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	INTERCHANGE REL
Traffic Control Device	
Police Reported Alcohol Presence	No DRIVER
Alcohol Test (< 95 indicates BAC 0.xx)	0

Vehicle Factors

Make-Model	Cadillac Deville/Fleetwood
Year	1985
Class	PASSENGER CAR
Body Type	4-DR SEDAN/HDTOP
Weight	146

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 3
CDC	5 B Z E W 0
Damage (C1-C6)	29 11 15 15 16 22
Crush (L and D)	154 36
Object Contacted 1	VEHICLE NO. 3
Object Contacted 2	VEHICLE NO. 2

Pre-Crash Driver Data

Accident Type	98
Pre-event Movement	No DRIVER
Critical Pre-crash Event	0
Attempted Avoidance Manuever	No DRIVER
Pre-impact Stability	No DRIVER
Pre-impact Location	No DRIVER

NASS Weighting Factor

Weighting factor	73.618
------------------	--------

PASSENGER Factors

Age	20	Height	185	Weight	91
Gender			MALE		
Ejection			No EJECTION		
Ejection Area			No EJECTION		
Entrapment			Not ENTRAPPED		

Rollover Characteristics

Number of Events	11
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

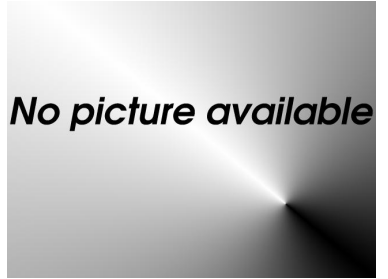
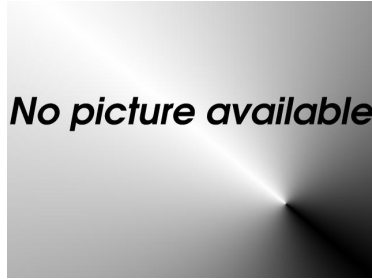
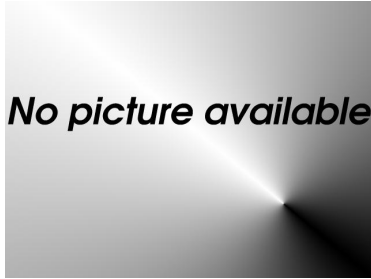
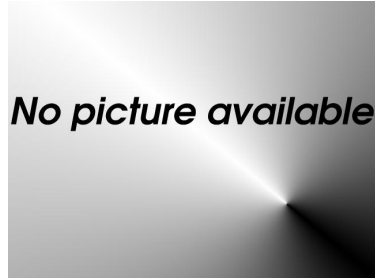
Restrain	None used/avail
AOPS	NO
Airbag Deployment	Not EQUIP/AVAIL
Airbag Deployment - 1 st Seat	Not EQUIP/AVAIL
Airbag Deployment - Oth Seat	Not EQUIP W/ OTH

Injuries

Occupant	2001-45-197-1-1
MAIS	1=Minor
Seat Position	Front right side

AIS Level	Injury Description	Contacts
1=Minor	Facial skin laceration, minor	Right panel
1=Minor	Scalp laceration, minor	Oth interior obj

Occupant: 2001-45-197-2-1



Fire Information

Fire Occurrence	Major fire
Fire Origin	Fuel tank
Location of Fuel Leakage	Tank
Type of Fuel Tank	Metallic
Fuel Tank Location	Forward of rear axle, centered
Fuel Cap Location	Right side, forward rear axle
Fuel Tank Damage	Abraded
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	DARK
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	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	DELTA V CODED 1
CDC	5 B D A W 7
Damage (C1-C6)	2 22 37 53 75 108
Crush (L and D)	148 22
Object Contacted 1	VEHICLE NO. 3
Object Contacted 2	ROLLOVER-OVERTRN

NASS Weighting Factor

Weighting factor 73.618

Rollover Characteristics

Number of Events	11
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	Plymouth 20
Year	1996
Class	PASSENGER CAR
Body Type	4-DR SEDAN/HDTOP
Weight	110

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

Restraint Factors

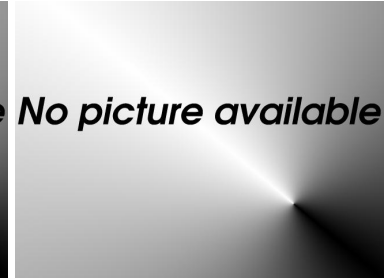
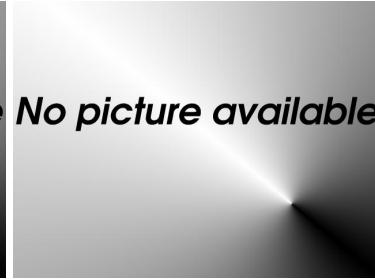
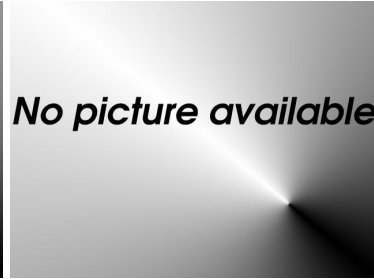
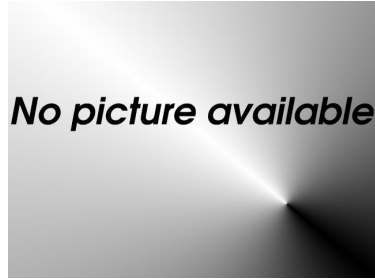
Restrain	Lap and shoulder
AOPS	YES-RES DET
Airbag Deployment	Unk IF DEPLOYED
Airbag Deployment - 1 st Seat	DR
PAS UNK DEPLY	
Airbag Deployment - Oth Seat	Not EQUIP W/ OTH

Injuries

Occupant	2001-45-197-2-1
MAIS	1=Minor
Seat Position	Front left side

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

Occupant: 2001-45-197-2-2



Fire Information

Fire Occurrence	Major fire
Fire Origin	Fuel tank
Location of Fuel Leakage	Tank
Type of Fuel Tank	Metallic
Fuel Tank Location	Forward of rear axle, centered
Fuel Cap Location	Right side, forward rear axle
Fuel Tank Damage	Abraded
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	DARK
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	Plymouth 20
Year	1996
Class	PASSENGER CAR
Body Type	4-DR SEDAN/HDTOP
Weight	110

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	DELTA V CODED 1
CDC	5 B D A W 7
Damage (C1-C6)	2 22 37 53 75 108
Crush (L and D)	148 22
Object Contacted 1	VEHICLE NO. 3
Object Contacted 2	ROLLOVER-OVERTRN

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	73.618
------------------	--------

PASSENGER Factors

Age	18	Height	160	Weight	57
Gender					FEM-PREG 3RD TRI
Ejection					No EJECTION
Ejection Area					No EJECTION
Entrapment					JAMMED DOOR/FIRE

Rollover Characteristics

Number of Events	11
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

Restraint Factors

Restrain	Lap and shoulder
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

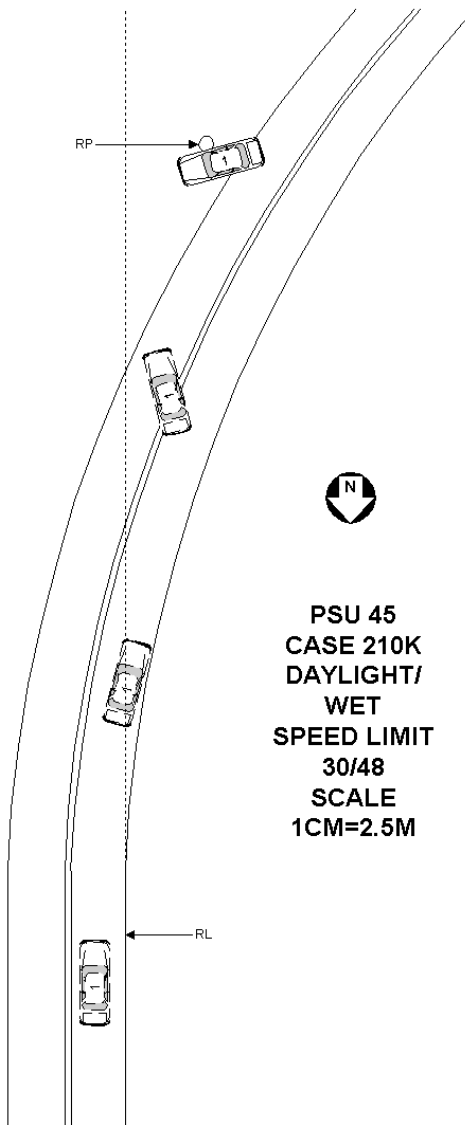
Occupant	2001-45-197-2-2
MAIS	6=Maximum
Seat Position	Front right side

AIS Level	Injury Description	Contacts
4=Severe	Inhalation injury, moderate (CO level 20-40 mg2=Moderate)	Skull fracture, vault, NFS
Unknown SOURCE 6=Maximum	Burn, 2nd or 3rd degree, >90	

40 Case 2001-45-201

Summary:

V1 was southbound on a two lane rural roadway under daylight/wet conditions with a speed limit of 30mph. As V1 was negotiating a right curve, V1 began to yaw to the left. V1 crossed over the center line, departed the road to the left, and impacted a tree with the right side. After impact, a fire began under the hood. Both occupants were belted. Driver was transported to medical facility and admitted, passenger was uninjured.



Vehicle	Body type	Make	Model	Year	Occ.#	Age	Occupant's sex	Maximum known occupant ais
1	2DR SEDAN/HT/CPE	Chevrolet	Lumina	1992	1	17	MALE	2=Moderate
1	2DR SEDAN/HT/CPE	Chevrolet	Lumina	1992	2	17	MALE	1=Minor

Occupant: 2001-45-201-1-1



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	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	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	DELTA V CODED 1
CDC	3 R P A W 4
Damage (C1-C6)	0 12 54 49 19 0
Crush (L and D)	190 35
Object Contacted 1	LARGE TREE
Object Contacted 2	0

Vehicle Factors

Make-Model	Chevrolet Lumina
Year	1992
Class	PASSENGER CAR
Body Type	2DR SEDAN/HT/CPE
Weight	142

Pre-Crash Driver Data

Accident Type	7
Pre-event Movement	NEGOTIATE CURVE
Critical Pre-crash Event	OFF EDGE-LEFT
Attempted Avoidance Manuever	BRAKE W/ LOCKUP
Pre-impact Stability	LATERAL SKID-CLK
Pre-impact Location	DEPARTED ROADWAY

NASS Weighting Factor

Weighting factor	117.801
------------------	---------

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

DRIVER Factors

Age	17	Height	180	Weight	66
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	2001-45-201-1-1
MAIS	2=Moderate
Seat Position	Front left side

AIS Level	Injury Description	Contacts
2=Moderate	Lumbar fracture of vertebral body <202=Moderate	Lumbar fracture of vertebral body NFS, without cord injury
Other noncontact 1=Minor	690402	Transmiss lever

Occupant: 2001-45-201-1-2



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	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	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	DELTA V CODED 1
CDC	3 R P A W 4
Damage (C1-C6)	0 12 54 49 19 0
Crush (L and D)	190 35
Object Contacted 1	LARGE TREE
Object Contacted 2	0

NASS Weighting Factor

Weighting factor	117.801
------------------	---------

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 Lumina
Year	1992
Class	PASSENGER CAR
Body Type	2DR SEDAN/HT/CPE
Weight	142

Pre-Crash Driver Data

Accident Type	7
Pre-event Movement	NEGOTIATE CURVE
Critical Pre-crash Event	OFF EDGE-LEFT
Attempted Avoidance Manuever	BRAKE W/ LOCKUP
Pre-impact Stability	LATERAL SKID-CLK
Pre-impact Location	DEPARTED ROADWAY

PASSENGER Factors

Age	17	Height	178	Weight	100
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	2001-45-201-1-2
MAIS	1=Minor
Seat Position	Front right side

AIS Level	Injury Description	Contacts
1=Minor	Leg skin contusion (hematoma)	Left ankle

41 Case 2001-45-93

Summary:

Vehicle #1 was traveling west on a four lane roadway that curves to the left during dark and dry conditions. Vehicle #1 left the roadway on the right side and traveled through a slightly declining grass area, then cross a narrow paved roadway, then struck an embankment with it's front. After striking the embankment the vehicle came to rest at the base of the embankment facing east. The base of the embankment was filled with brush. The vehicle burned at it's final rest position. The belted driver and the unbelted passenger of the airbag deployed vehicle were transported to a medical facility.

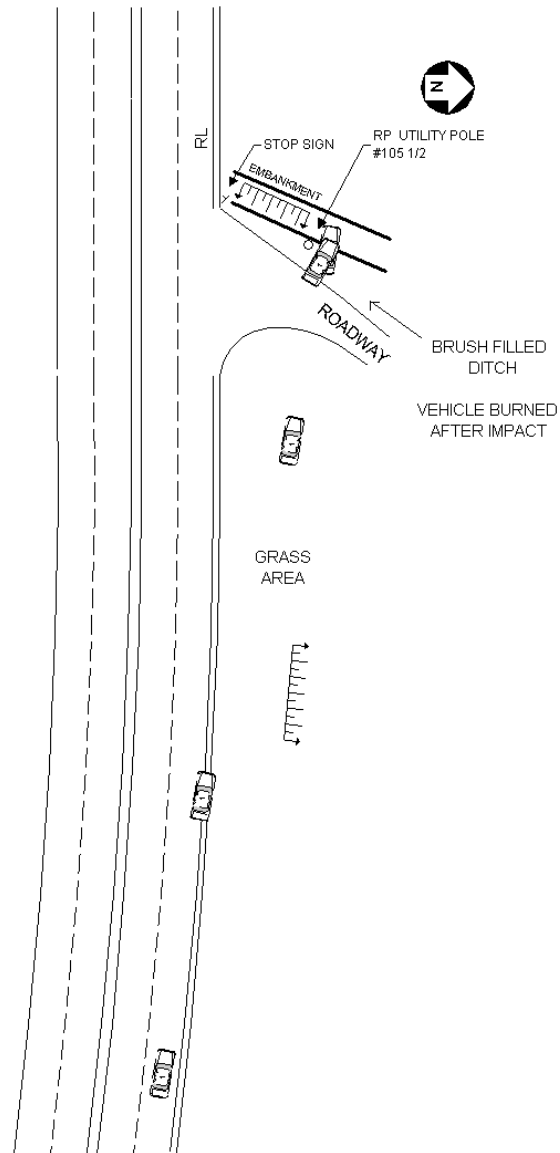
PSU45

CASE:
093K

POSTED
SPEED
LIMIT:
50 MPH
80 KPH

CONDITIONS:
DARK
&
DRY

SCALE:
1CM = 4M



Vehicle	Body type	Make	Model	Year	Occ.#	Age	Occupant's sex	Maximum known occupant ais
1	4-DR SEDAN/HDTOP	Dodge	20	1995	1	34	FEMALE-NOT PREG	5=Critical
1	4-DR SEDAN/HDTOP	Dodge	20	1995	2	41	FEMALE-NOT PREG	3=Serious

Occupant: 2001-45-93-1-1



Fire Information

Fire Occurrence	Minor fire
Fire Origin	Exhaust system
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	FOUR
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)	0

Crash Severity

Nr. Quarter Turns	No rollover
Impact Speed	998
Total, Longitudal, and Lateral δV	45 -45 < 0.5 KMPH
Est. δV with sequence number	DELTA V CODED 1
CDC	12 F D E W 3
Damage (C1-C6)	35 35 34 38 47 51
Crush (L and D)	146 0
Object Contacted 1	EMBANKMENT
Object Contacted 2	DITCH/CULVERT

Vehicle Factors

Make-Model	Dodge 20
Year	1995
Class	PASSENGER CAR
Body Type	4-DR SEDAN/HDTOP
Weight	105

Pre-Crash Driver Data

Accident Type	1
Pre-event Movement	NEGOTIATE CURVE
Critical Pre-crash Event	OFF EDGE-RIGHT
Attempted Avoidance Manuever	No AVOIDANCE
Pre-impact Stability	TRACKING
Pre-impact Location	DEPARTED ROADWAY

NASS Weighting Factor

Weighting factor	66.31
------------------	-------

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

DRIVER Factors

Age	34	Height	155	Weight	50
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	2001-45-93-1-1
MAIS	5=Critical
Seat Position	Front left side

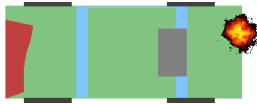
AIS Level	Injury Description	Contacts
1=Minor	892006	Fire in vehicle
1=Minor	Facial skin laceration, minor	Air bag-DR side
1=Minor	Thoracic skin abrasion	Air bag-DR side
3=Serious	Radial fracture, open/displaced/comminuted	Sterring hub
2=Moderate	Ulnar fracture, closed	Sterring hub
3=Serious	>3 rib fractures one side & <3 other side, with stable chest	Belt webb/buckle
5=Critical	Massive splenic injury (hilar disruption, tissue loss)	Belt webb/buckle
3=Serious	Splenic contusion, major (>502=Moderate)	Kidney laceration NFS
Belt webb/buckle		
2=Moderate	Pancreatic laceration, minor (no duct involvement)	Belt webb/buckle
1=Minor	Leg skin contusion (hematoma)	Knee bolster
1=Minor	Leg skin abrasion	Knee bolster

Occupant: 2001-45-93-1-2



Fire Information

Fire Occurrence	Minor fire
Fire Origin	Exhaust system
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	FOUR
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)	0

Crash Severity

Nr. Quarter Turns	No rollover
Impact Speed	998
Total, Longitudal, and Lateral δV	45 -45 < 0.5 KMPH
Est. δV with sequence number	DELTA V CODED 1
CDC	12 F D E W 3
Damage (C1-C6)	35 35 34 38 47 51
Crush (L and D)	146 0
Object Contacted 1	EMBANKMENT
Object Contacted 2	DITCH/CULVERT

Vehicle Factors

Make-Model	Dodge 20
Year	1995
Class	PASSENGER CAR
Body Type	4-DR SEDAN/HDTOP
Weight	105

Pre-Crash Driver Data

Accident Type	1
Pre-event Movement	NEGOTIATE CURVE
Critical Pre-crash Event	OFF EDGE-RIGHT
Attempted Avoidance Manuever	No AVOIDANCE
Pre-impact Stability	TRACKING
Pre-impact Location	DEPARTED ROADWAY

NASS Weighting Factor

Weighting factor	66.31
------------------	-------

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

PASSENGER Factors

Age	41	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	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

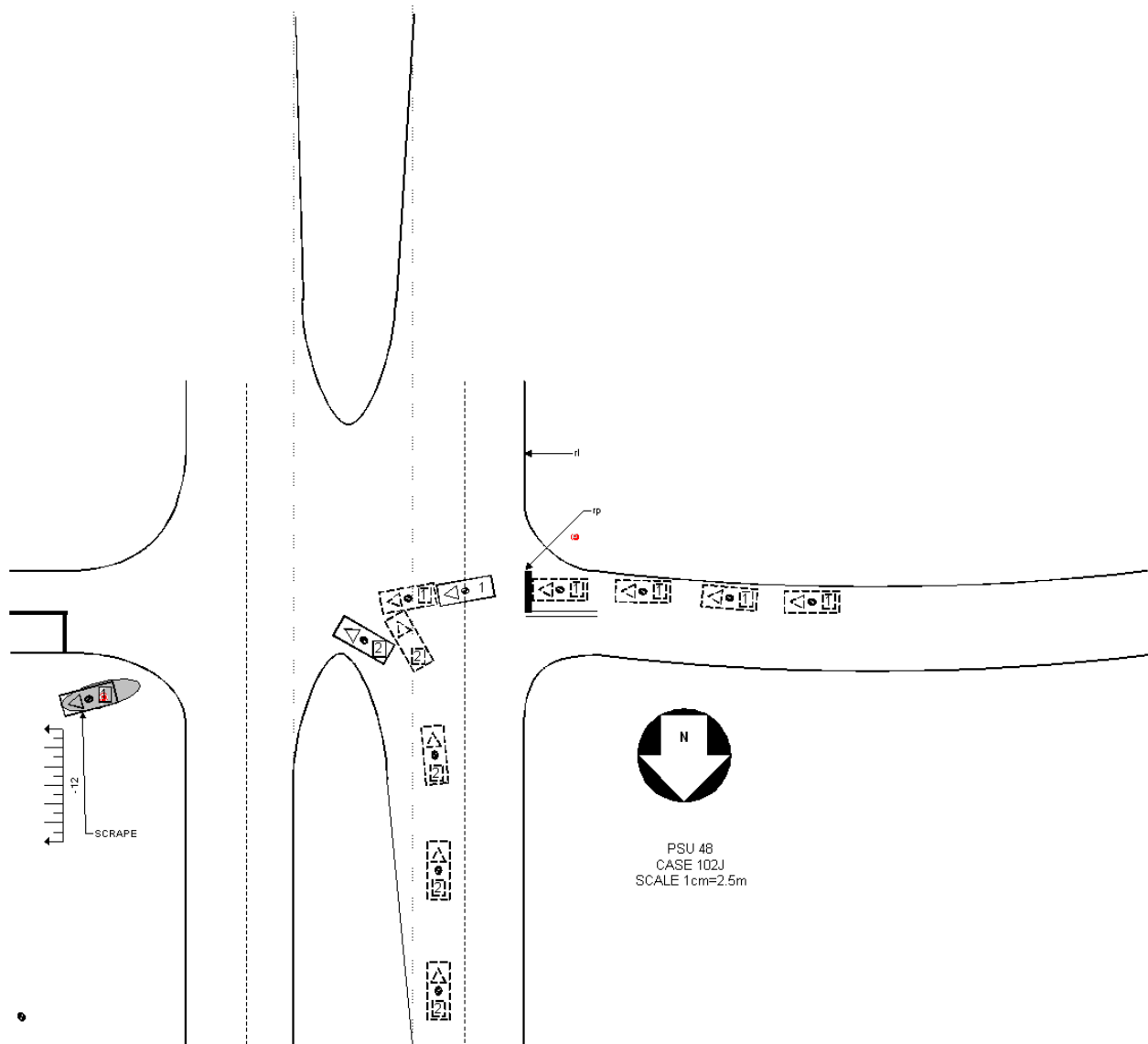
Occupant	2001-45-93-1-2	
MAIS	3=Serious	
Seat Position	Front right side	

AIS Level	Injury Description	Contacts
2=Moderate	Lumbar fracture of vertebral body <201=Minor	297402
Windshield		
1=Minor	297402	Windshield
1=Minor	297602	Windshield
1=Minor	Facial skin laceration, minor	Windshield
1=Minor	Leg skin abrasion	Right panel
1=Minor	Abdominal skin abrasion	Right panel
2=Moderate	Lumbar fracture of vertebral body <202=Moderate	Lumbar fracture of spinous 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
2=Moderate	Lumbar fracture of transverse process without cord injury	Seat, back
2=Moderate	2-3 rib fractures with stable chest	Seat, back
3=Serious	Lung contusion, unilateral	Seat, back
3=Serious	Maxillary fracture, LeFort III	Windshield
3=Serious	Basilar skull fracture, NFS	Windshield
1=Minor	Facial skin laceration, minor	Windshield
1=Minor	Gingival laceration	Windshield

42 Case 2001-48-102

Summary:

Vehicle one was traveling east on a two lane (not divided) road, turning left at an intersection controlled by a stop sign. Vehicle two was traveling south on a four lane road divided by a median, approaching the same intersection. Vehicle one was turning left at the intersection when the front of vehicle two contacted the left side of vehicle one. Vehicle one slightly rotated counter-clock-wise and rolled forward to a final rest position facing east, where it possibly contacted a stop sign and an embankment. Vehicle two slightly rotated counter-clock-wise and rolled forward to a final rest position facing south. The restrained driver (non-deployed air bags) of vehicle one was hospitalized for lung contusions and pelvic fracture. The restrained driver (w/deployed air bags) of vehicle two was treated, and released with minor abrasions and contusions. Both vehicles were towed due to disabling damage.



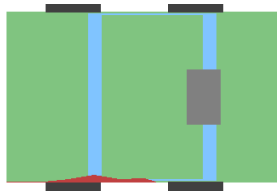
Vehicle	Body type	Make	Model	Year	Occ.#	Age	Occupant's sex	Maximum known occupant ais
1	4-DR SEDAN/HDTOP	Nissan	Altima	1998	1	70	FEMALE-NOT PREG	4=Severe
2	4-DR SEDAN/HDTOP	Dodge	Stratus	1998	1	30	FEMALE-NOT PREG	1=Minor

Occupant: 2001-48-102-1-1



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	16 -8 14
Est. δV with sequence number	DELTA V CODED 1
CDC	10 L Y E W 3
Damage (C1-C6)	0 0 4 11 4 6
Crush (L and D)	221 55
Object Contacted 1	VEHICLE NO. 2
Object Contacted 2	EMBANKMENT

NASS Weighting Factor

Weighting factor	220.621
------------------	---------

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	WET
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	Nissan Altima
Year	1998
Class	PASSENGER CAR
Body Type	4-DR SEDAN/HDTOP
Weight	130

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	70	Height	168	Weight	95
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	2001-48-102-1-1
MAIS	4=Severe
Seat Position	Front left side

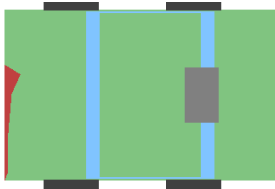
AIS Level	Injury Description	Contacts
4=Severe	Lung contusion, bilateral	Left interior
1=Minor	Single rib fracture	Belt webb/buckle
3=Serious	Pelvic fracture, open/displaced/comminuted	Belt webb/buckle
2=Moderate	Awake on admission, unconscious <1 hour	Left B pillar
1=Minor	Scalp laceration, minor	Left B pillar
1=Minor	Upper extremity skin contusion	Belt webb/buckle
1=Minor	Upper extremity skin laceration, minor	Steering comb

Occupant: 2001-48-102-2-1



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	Abraded
Fuel Type	Gasoline



Crash Severity

Nr. Quarter Turns	No rollover
Impact Speed	998
Total, Longitudal, and Lateral δV	16 -15 -5
Est. δV with sequence number	DELTA V CODED 1
CDC	1 F D E W 1
Damage (C1-C6)	5 5 6 8 11 23
Crush (L and D)	170 0
Object Contacted 1	VEHICLE NO. 1
Object Contacted 2	0

NASS Weighting Factor

Weighting factor	220.621
------------------	---------

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	TWO
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	INTERSECTION REL
Traffic Control Device	
Police Reported Alcohol Presence	No ALCOHOL
Alcohol Test (< 95 indicates BAC 0.xx)	0

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	83
Pre-event Movement	GOING STRAIGHT
Critical Pre-crash Event	XING ST-OPP DIR
Attempted Avoidance Manuever	BRAKE+STEER LEFT
Pre-impact Stability	No DRIVER
Pre-impact Location	No DRIVER

DRIVER Factors

Age	30	Height	170	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

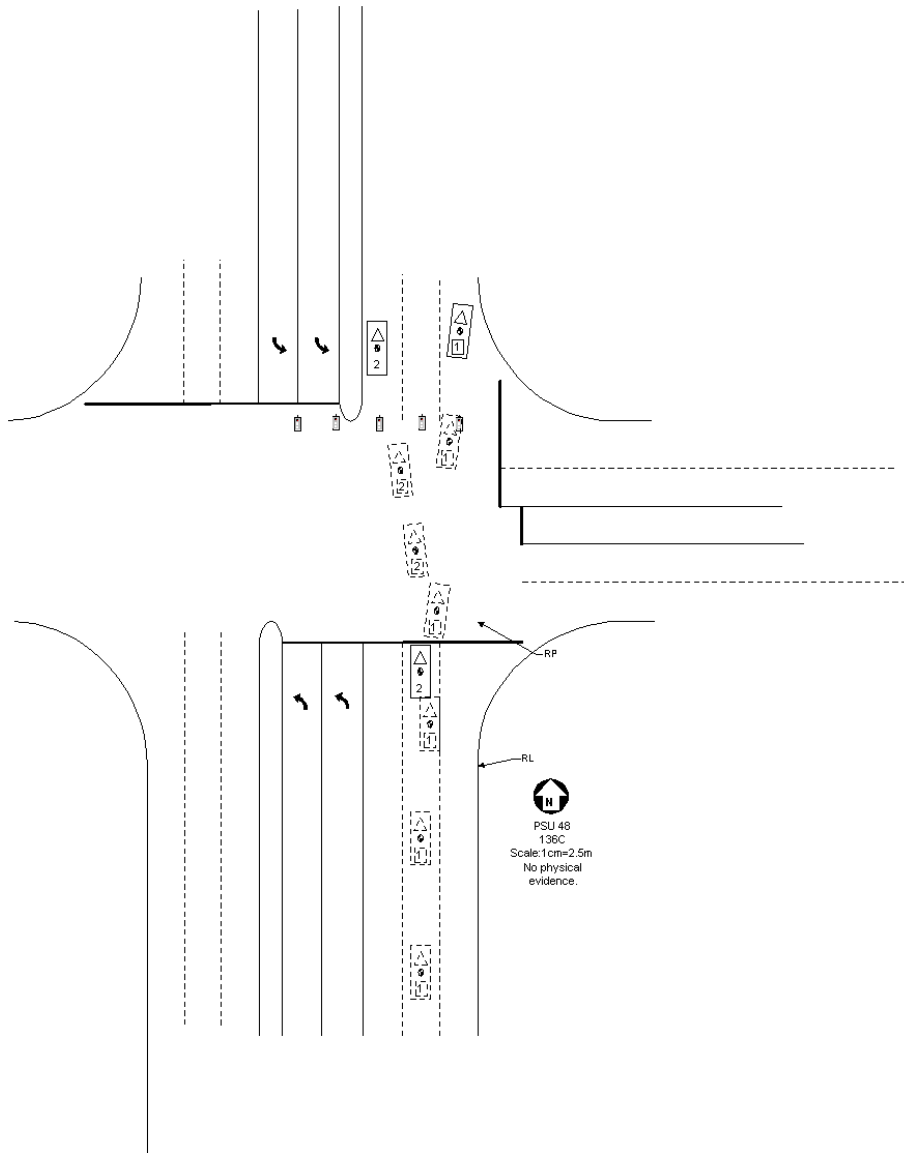
Occupant	2001-48-102-2-1
MAIS	1=Minor
Seat Position	Front left side

AIS Level	Injury Description	Contacts
1=Minor	Acute cervical spine strain without fracture or dislocation	Belt webb/buckle
1=Minor	Neck skin contusion (hematoma)	Head restraint
1=Minor	Leg skin contusion (hematoma)	Knee bolster
1=Minor	Upper extremity skin abrasion	Air bag-DR side

43 Case 2001-48-136

Summary:

Vehicle 1 was north bound on a eight lane divided roadway approaching an intersection. Vehicle 2 was headed north stopped in lane 2 at the same intersection. The front of V1 impacted the rear of V2. V1 rolled through the intersection and came to FR facing north. V1 had a smoldering fire where battery acid contacted the air filter. V1 was towed due to disabling damage. The unrestrained driver was treated and released with minor contusions. V2 rolled through the intersection and came to FR facing north. V2 was towed for repair. No airbags deployed and the restrained driver and passenger were treated and released with minor neck strains.



Vehicle #	Body type	Make	Model	Year	Occ. #	Age	Occupant's sex	Maximum known occupant injuries
1	4-DR SEDAN/HDTOP	Oldsmobile	Cutlass FWD	1990	1	20	MALE	1=Minor
2	COMPACT UTILITY	Ford	Bronco II	2002	1	37	MALE	1=Minor
2	COMPACT UTILITY	Ford	Bronco II	2002	2	74	MALE	1=Minor

Occupant: 2001-48-136-1-1



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	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	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	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	30 -30 < 0.5 KMPH
Est. δV with sequence number	DELTA V CODED 1
CDC	12 F Y E W 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	491.056
------------------	---------

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 Cutlass FWD
Year	1990
Class	PASSENGER CAR
Body Type	4-DR SEDAN/HDTOP
Weight	146

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	20	Height	180	Weight	84
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	2001-48-136-1-1
MAIS	1=Minor
Seat Position	Front left side

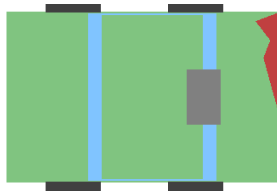
AIS Level	Injury Description	Contacts
1=Minor	Facial skin contusion	Steering rim
1=Minor	Upper extremity skin contusion	Steering rim

Occupant: 2001-48-136-2-1



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	Forward of rear axle, right side
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	24 24 < 0.5 KMPH
Est. δV with sequence number	DELTA V CODED 1
CDC	6 B Z E W 2
Damage (C1-C6)	0 7 15 22 12 33
Crush (L and D)	162 42
Object Contacted 1	VEHICLE NO. 1
Object Contacted 2	0

NASS Weighting Factor

Weighting factor 491.056

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	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	Ford Bronco II
Year	2002
Class	TRUCK
Body Type	COMPACT UTILITY
Weight	184

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	37	Height	183	Weight	107
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	2001-48-136-2-1
MAIS	1=Minor
Seat Position	Front left side

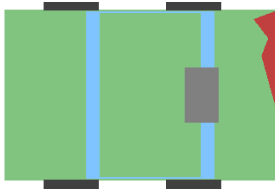
AIS Level	Injury Description	Contacts
1=Minor	Upper extremity skin abrasion	Left apnel
1=Minor	Acute cervical spine strain without fracture or dislocation	Belt webb/buckle

Occupant: 2001-48-136-2-2



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	Forward of rear axle, right side
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	24 24 < 0.5 KMPH
Est. δV with sequence number	DELTA V CODED 1
CDC	6 B Z E W 2
Damage (C1-C6)	0 7 15 22 12 33
Crush (L and D)	162 42
Object Contacted 1	VEHICLE NO. 1
Object Contacted 2	0

NASS Weighting Factor

Weighting factor	491.056
------------------	---------

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	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	Ford Bronco II
Year	2002
Class	TRUCK
Body Type	COMPACT UTILITY
Weight	184

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	74	Height	178	Weight	95
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

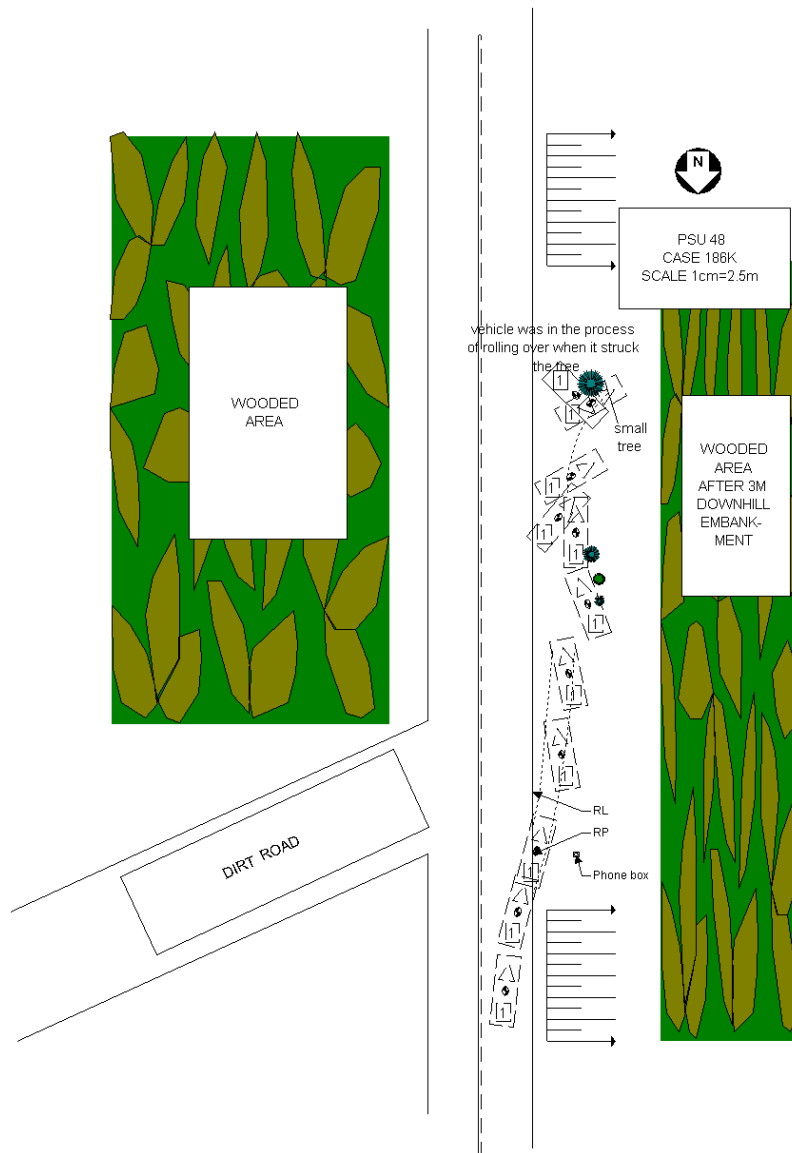
Occupant	2001-48-136-2-2
MAIS	1=Minor
Seat Position	Front right side

AIS Level	Injury Description	Contacts
1=Minor	Awake on admission, never unconscious	Head restraint
1=Minor	Acute cervical spine strain without fracture or dislocation	Belt webb/buckle

44 Case 2001-48-186

Summary:

V1 was travelling South on a two lane, dry, level bituminous roadway (undivided). V1 ran off the right side of the roadway and was awakened when the vehicle started down a small embankment. The driver over corrected to the left and caused the vehicle to rotate CCW. During this rotation V1 contacted a group of 3 trees (all out of the same base) with the right side of the vehicle. It remained in contact with the trees until the Right Rear Axle caught on the largest tree 30cm in diameter. This caused the vehicle to begin a CW rotation. While rotating V1 travelled south until it contacted a large Conifer tree, (50cm dia.), with the left door, and a small tree just in front of the "A" pillar. The vehicle was in the process of rolling over as it struck the 2nd tree. and the impact was non-horizonat. V1 tried to roll left but the cab of the truck was still in contact with the tree causing the cab to crush. FR of V1 was headed West on a downhill dirt embankment. The unrestrained driver was hospitalized overnight with multiple contusions. The driver exited the vehicle under his own power. The vehicle was towed due to disabling damage.



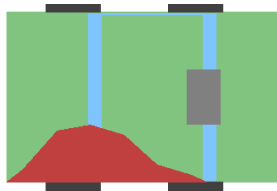
Vehicle	Body type	Make	Model	Year	Occ.#	Age	Occupant's sex	Maximum known occupant ais
1	COMPACT PICKUP	Toyota	Pickup	1993	1	24	MALE	1=Minor

Occupant: 2001-48-186-1-1



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, right side
Fuel Cap Location	Right 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 2
CDC	0 L Y A W 5
Damage (C1-C6)	19 75 84 69 25 11
Crush (L and D)	296 14
Object Contacted 1	LARGE TREE
Object Contacted 2	LARGE TREE

NASS Weighting Factor

Weighting factor 273.92

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
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)	22

Vehicle Factors

Make-Model	Toyota Pickup
Year	1993
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	STEERING LEFT
Pre-impact Stability	LONGITUDINAL SKID
Pre-impact Location	DEPARTED ROADWAY

DRIVER Factors

Age	24	Height	168	Weight	57
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

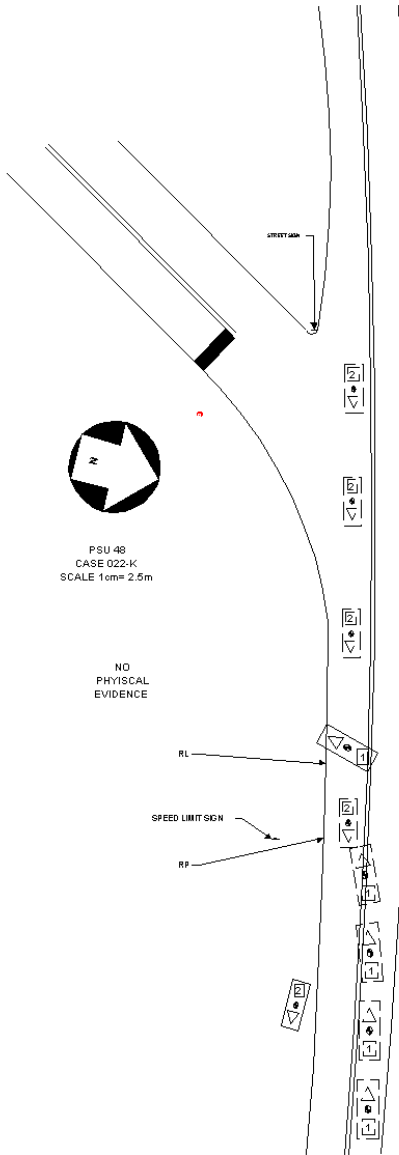
Occupant	2001-48-186-1-1
MAIS	1=Minor
Seat Position	Front left side

AIS Level	Injury Description	Contacts
1=Minor	Facial skin abrasion	Flying glass
1=Minor	Skin contusion (body region unknown)	Unknown SOURCE

45 Case 2001-48-22

Summary:

Vehicle one was traveling west on a two lane, not divided, bituminous roadway negotiating a left curve. Vehicle two was on the same roadway traveling east. The front of vehicle one contacted the front of vehicle two. Vehicle one rotated counter-clock wise to a final rest position facing south-west. Vehicle two rotated counter-clock wise to a final rest position facing south-east. Both vehicles were towed due to disabling damage and vehicle one caught on fire as a result of the crash. The driver of Vehicle 1 was hospitalized with multiple fractures including the hip, arm, leg and rib. The driver of Vehicle 2 was hospitalized for a foot fracture.



Vehicle	Body type	Make	Model	Year	Occ.#	Age	Occupant's sex	Maximum known occupant ais
1	LARGE PICKUP	Chevrolet	C/K-series Pickup	1988	1	45	MALE	3=Serious
2	COMPACT PICKUP	Mazda	Pickup	1987	1	57	MALE	2=Moderate

Occupant: 2001-48-22-1-1



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	47 -47 < 0.5 KMPH
Est. δV with sequence number	DELTA V CODED 1
CDC	12 F Y E W 5
Damage (C1-C6)	118 84 63 38 12 0
Crush (L and D)	181 -30
Object Contacted 1	VEHICLE NO. 2
Object Contacted 2	0

NASS Weighting Factor

Weighting factor	617.831
------------------	---------

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 LEFT
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)	16

Vehicle Factors

Make-Model	Chevrolet C/K-series Pickup
Year	1988
Class	TRUCK
Body Type	LARGE PICKUP
Weight	169

Pre-Crash Driver Data

Accident Type	50
Pre-event Movement	NEGOTIATE CURVE
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	45	Height	188	Weight	77
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	2001-48-22-1-1
MAIS	3=Serious
Seat Position	Front left side

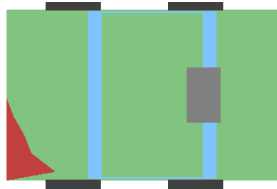
AIS Level	Injury Description	Contacts
3=Serious	Pelvic fracture, open/displaced/comminuted	Steering rim
2=Moderate	Hip joint dislocation not involving articular cartilage	Steering rim
2=Moderate	Clavicle fracture	Steering rim
2=Moderate	Ulnar fracture, closed	Left apnel
2=Moderate	Fibular head, neck, or shaft fracture	Floor
3=Serious	Tibial shaft fracture, open/displaced/comminuted	Floor
2=Moderate	Calcaneus fracture	Floor
1=Minor	Single rib fracture	Steering rim
1=Minor	Teeth dislocated or loosened	Steering rim
1=Minor	Teeth avulsion	Steering rim
1=Minor	Facial skin avulsion, superficial	Steering rim
1=Minor	Upper extremity skin laceration, minor	Left apnel

Occupant: 2001-48-22-2-1



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, right side
Fuel Cap Location	Right 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	67 -66 12
Est. δV with sequence number	DELTA V CODED 1
CDC	12 F Y E W 3
Damage (C1-C6)	71 37 26 10 0 0
Crush (L and D)	159 -30
Object Contacted 1	VEHICLE NO. 1
Object Contacted 2	0

NASS Weighting Factor

Weighting factor	617.831
------------------	---------

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	No ALCOHOL
Alcohol Test (< 95 indicates BAC 0.xx)	0

Vehicle Factors

Make-Model	Mazda Pickup
Year	1987
Class	TRUCK
Body Type	COMPACT PICKUP
Weight	120

Pre-Crash Driver Data

Accident Type	51
Pre-event Movement	NEGOTIATE CURVE
Critical Pre-crash Event	OPP DIR-OVR LEFT
Attempted Avoidance Manuever	No DRIVER
Pre-impact Stability	TRACKING
Pre-impact Location	STAYED IN LANE

DRIVER Factors

Age	57	Height	178	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

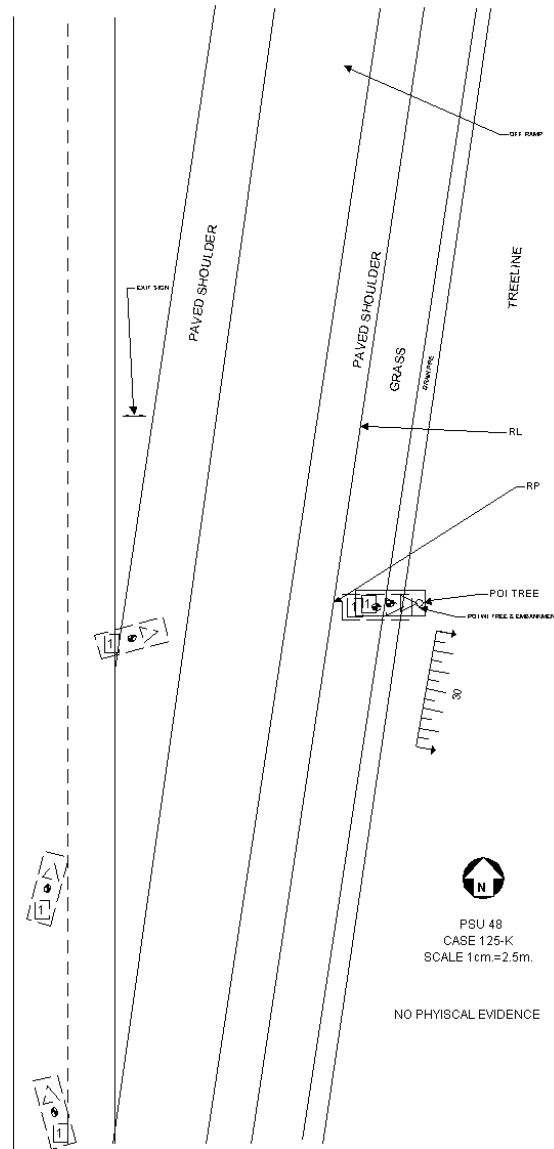
Occupant	2001-48-22-2-1
MAIS	2=Moderate
Seat Position	Front left side

AIS Level	Injury Description	Contacts
2=Moderate	Fibular lateral malleolus fracture	Floor
2=Moderate	Calcaneus fracture	Floor
1=Minor	Leg skin contusion (hematoma)	Floor

46 Case 2001-48-25

Summary:

Vehicle one was traveling north-east, exiting off the interstate onto an offramp. The off ramp was a one way, wet, bituminous, roadway. The driver was driving too fast for the conditions and went off the road to the right. The front of the vehicle first contacted an embankment and then a tree. The vehicle stopped at impact for a final rest position facing north-east. The restrained driver was found to have neck strain but was hospitalized for pneumonia which was a pre existing condition. The vehicle was towed due to disabling damage.



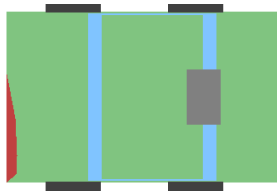
Vehicle #	Body type	Make	Model	Year	Occ.#	Age	Occupant's sex	Maximum known occupant AIS
1	4-DR SEDAN/HDTOP	Chevrolet	Caprice/Impala	1991	1	77	MALE	1=Minor

Occupant: 2001-48-25-1-1



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	On back plane
Fuel Tank Damage	Fill neck separation
Fuel Type	Gasoline



Pre-Crash Environment

Traffic Flow	ONE WAY
Number of Travel Lanes	ONE
Roadway Alignment	CURVE RIGHT
Roadway Profile	DOWNHILL GRADE
Roadway Surface Type	ASPHALT
Roadway Surface Condition	WET
Light Conditions	DARK
Atmospheric Conditions	RAIN
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	19 -19 < 0.5 KMPH
Est. δV with sequence number	DELTA V CODED 1
CDC	32 F D L W 1
Damage (C1-C6)	14 15 14 13 8 3
Crush (L and D)	159 0
Object Contacted 1	EMBANKMENT
Object Contacted 2	SMALL TREE

NASS Weighting Factor

Weighting factor	474.754
------------------	---------

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 Caprice/Impala
Year	1991
Class	PASSENGER CAR
Body Type	4-DR SEDAN/HDTOP
Weight	177

Pre-Crash Driver Data

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

DRIVER Factors

Age	77	Height	168	Weight	60
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

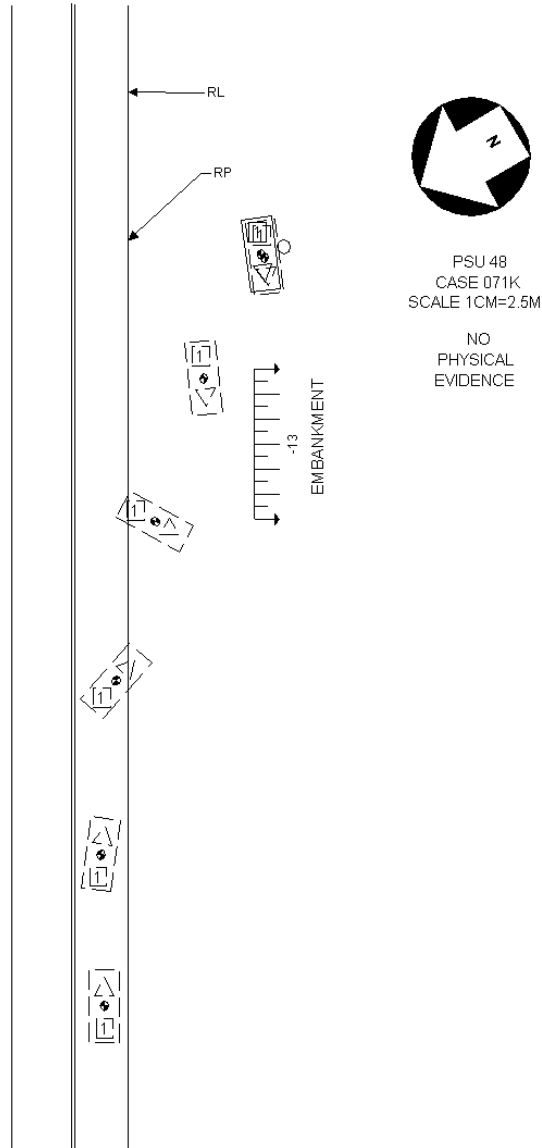
Occupant	2001-48-25-1-1
MAIS	1=Minor
Seat Position	Front left side

AIS Level	Injury Description	Contacts
1=Minor	Acute cervical spine strain without fracture or dislocation	Belt webb/buckle

47 Case 2001-48-71

Summary:

Vehicle one was traveling west on a two lane, non-divided, dry, bituminous roadway, just finishing the negotiation of a right curve. Vehicle left the roadway on the right side and the left side of the vehicle struck a tree. The vehicle stopped at impact and caught on fire. The driver and right front passenger were ejected from the vehicle. The driver was hospitalized for hip and leg fractures. The passenger was hospitalized for an upper arm fracture. The vehicle was towed due to disabling damage.



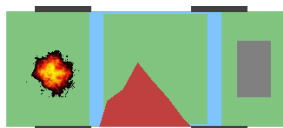
Vehicle	Body type	Make	Model	Year	Occ.#	Age	Occupant's sex	Maximum known occupant ais
1	3DR/2DR HATCHBAK	Porsche	928	1983	1	44	MALE	3=Serious
1	3DR/2DR HATCHBAK	Porsche	928	1983	2	46	FEMALE-NOT PREG	3=Serious

Occupant: 2001-48-71-1-1



Fire Information

Fire Occurrence	Major fire
Fire Origin	Engine compart
Location of Fuel Leakage	Tank
Type of Fuel Tank	Non-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	Not DIVIDED
Number of Travel Lanes	TWO
Roadway Alignment	STRAIGHT
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)	14

Crash Severity

Nr. Quarter Turns	No rollover
Impact Speed	998
Total, Longitudal, and Lateral δV	57 54 20
Est. δV with sequence number	DELTA V CODED 1
CDC	87 L P E W 6
Damage (C1-C6)	40 59 102 71 44 11
Crush (L and D)	147 0
Object Contacted 1	LARGE TREE
Object Contacted 2	GROUND

NASS Weighting Factor

Weighting factor	159.026
------------------	---------

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	Porsche 928
Year	1983
Class	PASSENGER CAR
Body Type	3DR/2DR HATCHBAK
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 AVOIDANCE
Pre-impact Stability	LATERAL SKID-CLK
Pre-impact Location	DEPARTED ROADWAY

DRIVER Factors

Age	44	Height	175	Weight	100
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	2001-48-71-1-1
MAIS	3=Serious
Seat Position	Front left side

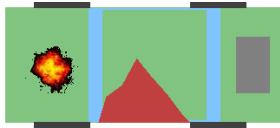
AIS Level	Injury Description	Contacts
2=Moderate	Pelvic fracture, closed	Left interior
2=Moderate	Fibular head, neck, or shaft fracture	Left interior
3=Serious	Tibial shaft fracture, open/displaced/comminuted	Left interior
2=Moderate	Hip joint dislocation not involving articular cartilage	Left interior
2=Moderate	Thoracic vertebral body fracture, minor (<201=Minor)	Upper extremity skin abrasion
Ground		
1=Minor	Leg skin abrasion	Ground
1=Minor	Abdominal skin abrasion	Left interior

Occupant: 2001-48-71-1-2



Fire Information

Fire Occurrence	Major fire
Fire Origin	Engine compart
Location of Fuel Leakage	Tank
Type of Fuel Tank	Non-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	Not DIVIDED
Number of Travel Lanes	TWO
Roadway Alignment	STRAIGHT
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)	14

Crash Severity

Nr. Quarter Turns	No rollover
Impact Speed	998
Total, Longitudal, and Lateral δV	57 54 20
Est. δV with sequence number	DELTA V CODED 1
CDC	87 L P E W 6
Damage (C1-C6)	40 59 102 71 44 11
Crush (L and D)	147 0
Object Contacted 1	LARGE TREE
Object Contacted 2	GROUND

NASS Weighting Factor

Weighting factor	159.026
------------------	---------

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	Porsche 928
Year	1983
Class	PASSENGER CAR
Body Type	3DR/2DR HATCHBAK
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 AVOIDANCE
Pre-impact Stability	LATERAL SKID-CLK
Pre-impact Location	DEPARTED ROADWAY

PASSENGER Factors

Age	46	Height	175	Weight	68
Gender					FEMALE-NOT PREG
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

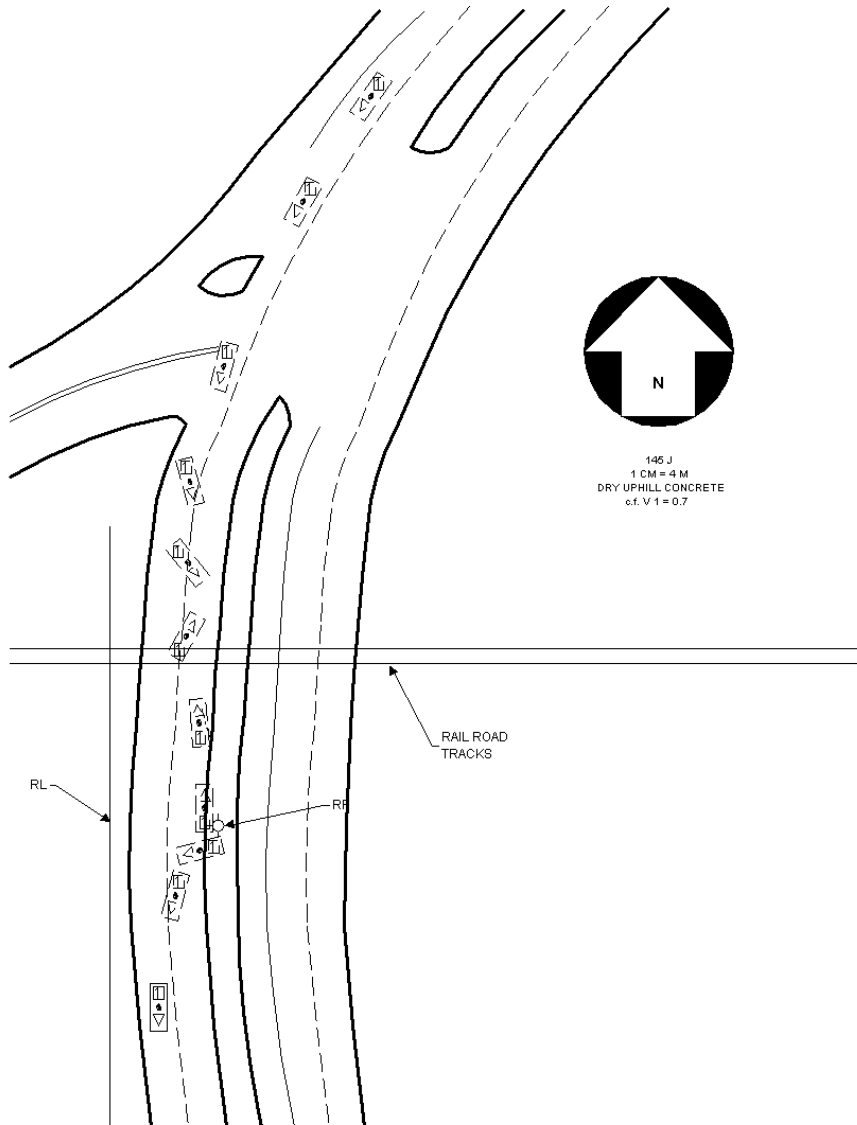
Occupant	2001-48-71-1-2
MAIS	3=Serious
Seat Position	Front right side

AIS Level	Injury Description	Contacts
2=Moderate	Lethargic on admission, unconscious <1 hour	Ground
1=Minor	Single rib fracture	Ground
3=Serious	Humeral fracture, open/displaced/comminuted	Ground
2=Moderate	Orbit fracture, closed	Ground

48 Case 2001-49-145

Summary:

VEHICLE 1 WAS TRAVELING SOUTH IN THE SECOND LANE OF A THREE LANE CURVED DIVIDED ROADWAY. WHILE NEGOTIATING THE CURVE THE DRIVER LOST CONTROL OF THE VEHICLE AND HIT THE CURB. IT CAUSED THE VEHICLE TO ROTATE CLOCK WISE AND LEAVE THE ROADWAY. IT HIT A LIGHT POLE ON THE MEDIAN WITH IT'S RIGHT SIDE. IT THEN ROTATED COUNTER CLOCK WISE AND CAME TO REST IN THE ORIGINAL TRAVEL LANE, FACING THE ORIGINAL TRAVEL DIRECTION. THE VEHICLE WAS TOWED AND THE DRIVER WAS HOSPITALIZED FOR A CLOSED HEAD INJURY.



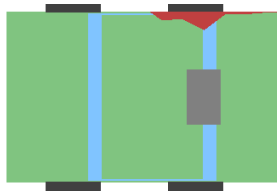
Vehicle	Body type	Make	Model	Year	Occ.#	Age	Occupant's sex	Maximum known occupant ais
1	4-DR SEDAN/HDTOP	Mitsubishi	Galant	1999	1	32	MALE	2=Moderate

Occupant: 2001-49-145-1-1



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	Right side, behind rear axle
Fuel Tank Damage	Fill neck separation
Fuel Type	Gasoline



Crash Severity

Nr. Quarter Turns	No rollover
Impact Speed	998
Total, Longitudal, and Lateral δV	19 18 -7
Est. δV with sequence number	DELTA V CODED 1
CDC	5 R B A W 3
Damage (C1-C6)	11 10 26 2 2 0
Crush (L and D)	188 -168
Object Contacted 1	LARGE TREE
Object Contacted 2	0

NASS Weighting Factor

Weighting factor 10.761

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	CURVE LEFT
Roadway Profile	UPHILL GRADE
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	Mitsubishi Galant
Year	1999
Class	PASSENGER CAR
Body Type	4-DR SEDAN/HDTOP
Weight	126

Pre-Crash Driver Data

Accident Type	7
Pre-event Movement	NEGOTIATE CURVE
Critical Pre-crash Event	Oth CONTROL LOSS
Attempted Avoidance Manuever	No DRIVER
Pre-impact Stability	LAT SKID-CTR CLK
Pre-impact Location	DEPARTED ROADWAY

DRIVER Factors

Age	32	Height	191	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	2001-49-145-1-1
MAIS	2=Moderate
Seat Position	Front left side

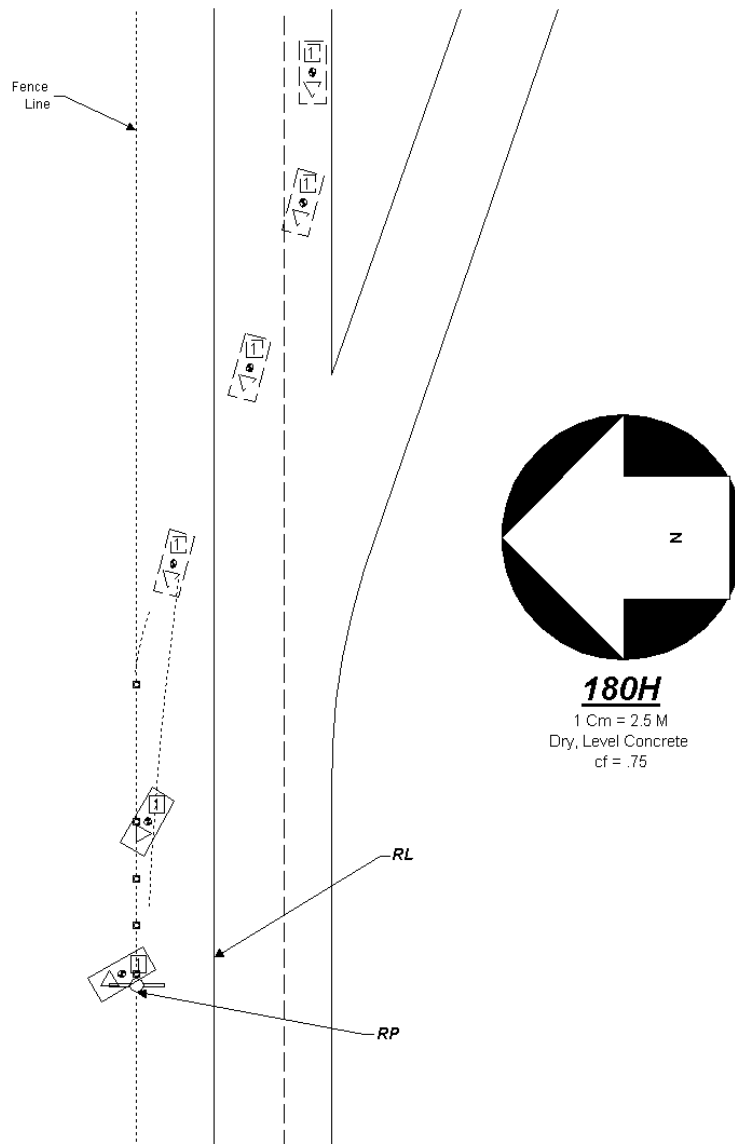
AIS Level	Injury Description	Contacts
-----------	--------------------	----------

2=Moderate	Awake on admission, unconscious <1 hour	Roof
------------	--	------

49 Case 2001-49-180

Summary:

Vehicle 1 was traveling west in an undetermined lane of a two lane, one way service road to a large expressway. The vehicle went off the roadway to the right and the front collided with several metal cyclone fence posts. The vehicle began to rotate clockwise and eventually contacted a wooden utility pole twice with the right side (two separate impacts). At some point in this sequence, a fire broke out in the engine compartment but was extinguished by a witness before it could get to the passenger compartment. The driver was transported and released with unknown injuries and the vehicle was towed.



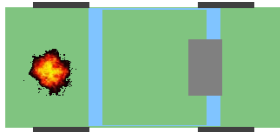
Vehicle	Body type	Make	Model	Year	Occ.#	Age	Occupant's sex	Maximum known occupant ais
1	3DR/2DR HATCHBAK	Ford	Aspire	1995	1	64	MALE	7=Unk. sev.

Occupant: 2001-49-180-1-1



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	Left side, forward 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	MODERATE 1
CDC	11 F D E W 2
Damage (C1-C6)	0 0 0 0 0 0
Crush (L and D)	0 0
Object Contacted 1	FENCE
Object Contacted 2	SMALL POLE

NASS Weighting Factor

Weighting factor 31.931

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	ONE WAY
Number of Travel Lanes	TWO
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 Aspire
Year	1995
Class	PASSENGER CAR
Body Type	3DR/2DR HATCHBAK
Weight	91

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	64	Height	168	Weight	58
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

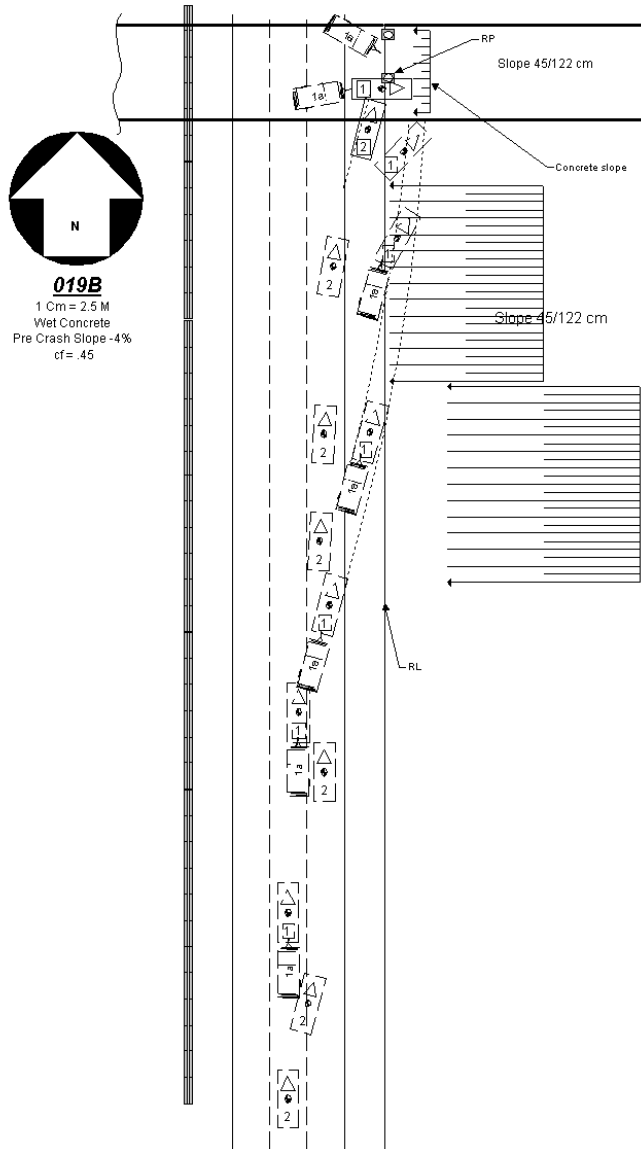
Occupant	2001-49-180-1-1
MAIS	7=Unk. sev.
Seat Position	Front left side

AIS Level	Injury Description	Contacts
-----------	--------------------	----------

50 Case 2001-49-19

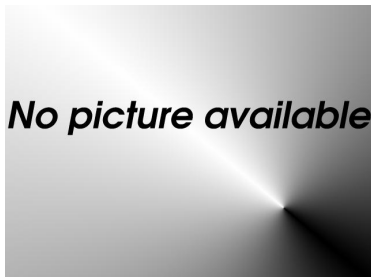
Summary:

Vehicle 1 was traveling north in the middle lane of a three lane divided highway. Vehicle 2 was also traveling north in the same lane behind Vehicle 1. Based upon inspection of Vehicle 2, it appears as if the right side of Vehicle 1 sideswiped the left side of Vehicle 2 as Vehicle 2 was attempting to pass Vehicle 1 on the right side. This contact sent both vehicles out of control. It looks as if Vehicle 1 began to rotate clockwise and off the right side of the roadway. The left side collided with a concrete bridge pillar. Vehicle 2 continued and the front collided with the right side of Vehicle 1. The driver of Vehicle 1 was transported and the right rear occupant was fatally injured. The driver of Vehicle 2 was hospitalized for one day. Both vehicles were towed.



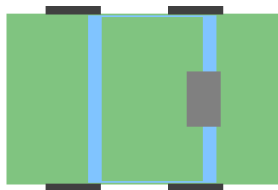
Vehicle	Body type	Make	Model	Year	Occ.#	Age	Occupant's sex	Maximum known occupant ais
1	LARGE PICKUP	Ford	F-series P/U	1997	1	23	MALE	7=Unk. sev.
1	LARGE PICKUP	Ford	F-series P/U	1997	2	29	MALE	0=None
1	LARGE PICKUP	Ford	F-series P/U	1997	3	33	MALE	6=Maximum
2	LARGE VAN	Ford	E-series Van	1999	1	24	MALE	2=Moderate

Occupant: 2001-49-19-1-1



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	11.07
------------------	-------

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	THREE
Roadway Alignment	STRAIGHT
Roadway Profile	DOWNHILL GRADE
Roadway Surface Type	CONCRETE
Roadway Surface Condition	WET
Light Conditions	DAYLIGHT
Atmospheric Conditions	RAIN
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 F-series P/U
Year	1997
Class	TRUCK
Body Type	LARGE PICKUP
Weight	0

Pre-Crash Driver Data

Accident Type	46
Pre-event Movement	CHANGING LANES
Critical Pre-crash Event	OVER LINE-RIGHT
Attempted Avoidance Manuever	No DRIVER
Pre-impact Stability	TRACKING
Pre-impact Location	Left TRAVEL LANE

DRIVER Factors

Age	23	Height	170	Weight	77
Gender			MALE		
Ejection			No EJECTION		
Ejection Area			No EJECTION		
Entrapment			Not ENTRAPPED		

Restraint Factors

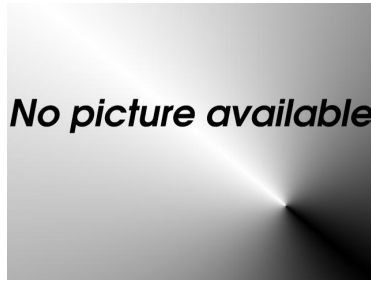
Restrain	None used/avail
AOPS	NO
Airbag Deployment	Not EQUIP/AVAIL
Airbag Deployment - 1 st Seat	Not EQUIP/AVAIL
Airbag Deployment - Oth Seat	Not EQUIP W/ OTH

Injuries

Occupant	2001-49-19-1-1
MAIS	7=Unk. sev.
Seat Position	Front left side

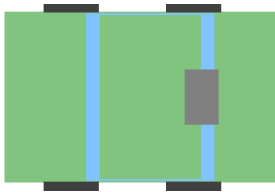
AIS Level	Injury Description	Contacts
-----------	--------------------	----------

Occupant: 2001-49-19-1-2



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	< 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	11.07
------------------	-------

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	THREE
Roadway Alignment	STRAIGHT
Roadway Profile	DOWNHILL GRADE
Roadway Surface Type	CONCRETE
Roadway Surface Condition	WET
Light Conditions	DAYLIGHT
Atmospheric Conditions	RAIN
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 F-series P/U
Year	1997
Class	TRUCK
Body Type	LARGE PICKUP
Weight	0

Pre-Crash Driver Data

Accident Type	46
Pre-event Movement	CHANGING LANES
Critical Pre-crash Event	OVER LINE-RIGHT
Attempted Avoidance Manuever	No DRIVER
Pre-impact Stability	TRACKING
Pre-impact Location	Left TRAVEL LANE

PASSENGER Factors

Age	29	Height	0	Weight	0
Gender			MALE		
Ejection			No EJECTION		
Ejection Area			No EJECTION		
Entrapment			Not ENTRAPPED		

Restraint Factors

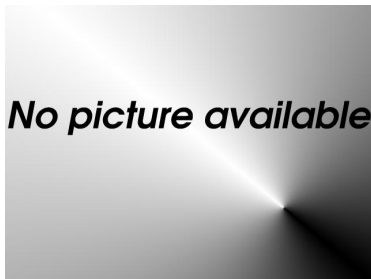
Restrain		None used/avail
AOPS		NO
Airbag Deployment		Not EQUIP/AVAIL
Airbag Deployment - 1 st Seat		Not EQUIP/AVAIL
Airbag Deployment - Oth Seat		Not EQUIP W/ OTH

Injuries

Occupant	2001-49-19-1-2
MAIS	0=None
Seat Position	Front right side

AIS Level	Injury Description	Contacts
-----------	--------------------	----------

Occupant: 2001-49-19-1-3



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	11.07
------------------	-------

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	THREE
Roadway Alignment	STRAIGHT
Roadway Profile	DOWNHILL GRADE
Roadway Surface Type	CONCRETE
Roadway Surface Condition	WET
Light Conditions	DAYLIGHT
Atmospheric Conditions	RAIN
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 F-series P/U
Year	1997
Class	TRUCK
Body Type	LARGE PICKUP
Weight	0

Pre-Crash Driver Data

Accident Type	46
Pre-event Movement	CHANGING LANES
Critical Pre-crash Event	OVER LINE-RIGHT
Attempted Avoidance Manuever	No DRIVER
Pre-impact Stability	TRACKING
Pre-impact Location	Left TRAVEL LANE

PASSENGER Factors

Age	33	Height	183	Weight	65
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	2001-49-19-1-3
MAIS	6=Maximum
Seat Position	Second right

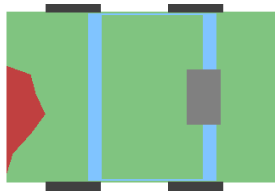
AIS Level	Injury Description	Contacts
6=Maximum	Burn, 2nd or 3rd degree, >903=Serious	Cerebral sub-arachnoid hemorrhage
Unknown SOURCE		
3=Serious	Cerebral sub-arachnoid hemorrhage	Unknown SOURCE
3=Serious	Cerebral brain swelling, NFS	Unknown SOURCE
4=Severe	Lung contusion, bilateral	Unknown SOURCE
4=Severe	Lung laceration, unilateral, with hemomediastinum	Unknown SOURCE
3=Serious	Rib fractures (=>1 rib), open/displaced/comminuted	Unknown SOURCE
2=Moderate	Pericardial laceration (puncture)	Unknown SOURCE
2=Moderate	Hepatic laceration, minor (<3cms deep, EBL<20	

Occupant: 2001-49-19-2-1



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	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 3
CDC	12 F D E W 4
Damage (C1-C6)	0 9 35 57 43 35
Crush (L and D)	172 0
Object Contacted 1	VEHICLE NO. 1
Object Contacted 2	VEHICLE NO. 1

NASS Weighting Factor

Weighting factor 11.07

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	THREE
Roadway Alignment	STRAIGHT
Roadway Profile	DOWNHILL GRADE
Roadway Surface Type	CONCRETE
Roadway Surface Condition	WET
Light Conditions	DAYLIGHT
Atmospheric Conditions	RAIN
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 E-series Van
Year	1999
Class	TRUCK
Body Type	LARGE VAN
Weight	232

Pre-Crash Driver Data

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

DRIVER Factors

Age	24	Height	180	Weight	77
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

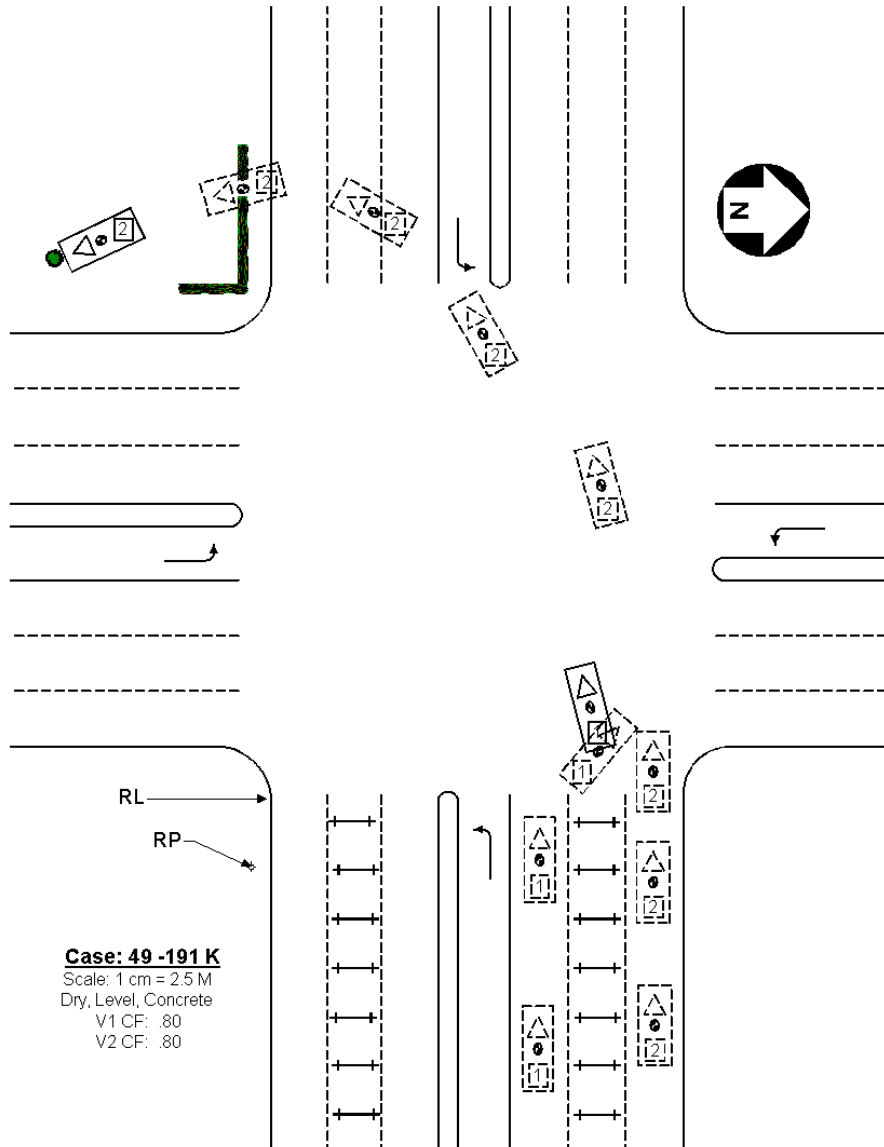
Occupant	2001-49-19-2-1
MAIS	2=Moderate
Seat Position	Front left side

AIS Level	Injury Description	Contacts
2=Moderate	Awake on admission, unconscious <1 hour	Steering rim
1=Minor	297202	Steering rim
1=Minor	Acute cervical spine strain without fracture or dislocation	Steering rim
1=Minor	Thoracic skin contusion	Steering comb

51 Case 2001-49-191

Summary:

Vehicle 1 was traveling west in the 3rd lane of a 4 lane roadway approaching an intersection. Vehicle 2 was traveling in the same direction on the same roadway in the 1st lane. The 2nd lane of this roadway was blocked due to construction. Vehicle 1 attempted to turn right at the intersection, across the path of vehicle 2. The front of vehicle 2 impacted the right side of vehicle 1. Vehicle 2 then continued west across the intersection, rotating counterclockwise, and off the roadway to the left. Vehicle 2 impacted a tree off the roadway and came to a final rest. A fire then started in the engine compartment of vehicle 2. Vehicle # 1 was equipped with a driver air bag which did not deploy. Vehicle 1 driver, Vehicle 2 occupants 2-3 were transported. Both vehicles were towed due to damage.



Case: 49-191 K
 Scale: 1 cm = 2.5 M
 Dry, Level, Concrete
 V1 CF: .80
 V2 CF: .80

Vehicle #	Body type	Make	Model	Year	Occ #	Age	Occupant's sex	Maximum known occupant air
1	4-DR SEDAN/HDTOP	Cadillac	Deville/Fleetwood	1993	1	83	MALE	0=None
2	LARGE PICKUP	Chevrolet	C/K-series Pickup	1986	1	31	MALE	7=Unk. sev.
2	LARGE PICKUP	Chevrolet	C/K-series Pickup	1986	2	5	MALE	7=Unk. sev.
2	LARGE PICKUP	Chevrolet	C/K-series Pickup	1986	3	21	FEMALE-NOT PREG	7=Unk. sev.
2	LARGE PICKUP	Chevrolet	C/K-series Pickup	1986	4	2	MALE	7=Unk. sev.

Occupant: 2001-49-191-1-1



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

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



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	5 R F E E 3
Damage (C1-C6)	0 0 0 1 5 12
Crush (L and D)	54 210
Object Contacted 1	VEHICLE NO. 2
Object Contacted 2	0

NASS Weighting Factor

Weighting factor	11.783
------------------	--------

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	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	1993
Class	PASSENGER CAR
Body Type	4-DR SEDAN/HDTOP
Weight	164

Pre-Crash Driver Data

Accident Type	70
Pre-event Movement	TURNING RIGHT
Critical Pre-crash Event	TURN RIGHT-INTER
Attempted Avoidance Manue- ver	No AVOIDANCE
Pre-impact Stability	TRACKING
Pre-impact Location	Left TRAVEL LANE

DRIVER Factors

Age	83	Height	185	Weight	70
Gender			MALE		
Ejection			No EJECTION		
Ejection Area			No EJECTION		
Entrapment			Not ENTRAPPED		

Restraint Factors

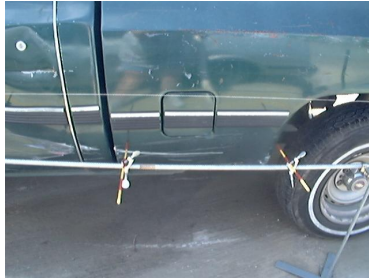
Restrain	Lap and shoulder
AOPS	YES-RES DET
Airbag Deployment	NONDEPLOYED
Airbag Deployment - 1 st Seat	NONDEPLOYED
Airbag Deployment - Oth Seat	Not EQUIP W/ OTH Seat

Injuries

Occupant	2001-49-191-1-1
MAIS	0=None
Seat Position	Front left side

AIS Level	Injury Description	Contacts
-----------	--------------------	----------

Occupant: 2001-49-191-2-1



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, left side
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	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	45 -44 -8
Est. δV with sequence number	DELTA V CODED 2
CDC	12 F Z E W 3
Damage (C1-C6)	0 14 57 65 48 32
Crush (L and D)	140 7
Object Contacted 1	LARGE TREE
Object Contacted 2	VEHICLE NO. 1

Vehicle Factors

Make-Model	Chevrolet C/K-series Pickup
Year	1986
Class	TRUCK
Body Type	LARGE PICKUP
Weight	156

Pre-Crash Driver Data

Accident Type	71
Pre-event Movement	GOING STRAIGHT
Critical Pre-crash Event	Same DIR-OV LEFT
Attempted Avoidance Manuever	No DRIVER
Pre-impact Stability	No DRIVER
Pre-impact Location	STAYED IN LANE

NASS Weighting Factor

Weighting factor	11.783
------------------	--------

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

DRIVER Factors

Age	31	Height	155	Weight	93
Gender			MALE		
Ejection			No EJECTION		
Ejection Area			No EJECTION		
Entrapment			Not ENTRAPPED		

Restraint Factors

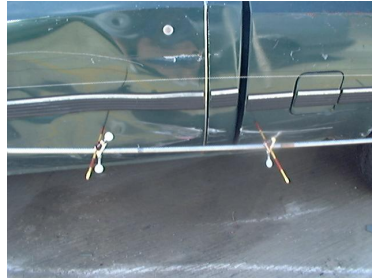
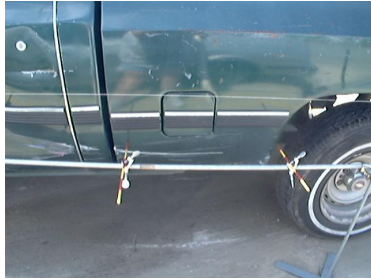
Restrain	Lap and shoulder
AOPS	NO
Airbag Deployment	Not EQUIP/AVAIL
Airbag Deployment - 1 st Seat	Not EQUIP/AVAIL
Airbag Deployment - Oth Seat	Not EQUIP W/ OTH

Injuries

Occupant	2001-49-191-2-1
MAIS	7=Unk. sev.
Seat Position	Front left side

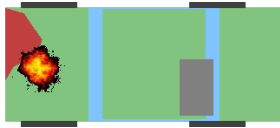
AIS Level	Injury Description	Contacts
-----------	--------------------	----------

Occupant: 2001-49-191-2-2



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, 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	45 -44 -8
Est. δV with sequence number	DELTA V CODED 2
CDC	12 F Z E W 3
Damage (C1-C6)	0 14 57 65 48 32
Crush (L and D)	140 7
Object Contacted 1	LARGE TREE
Object Contacted 2	VEHICLE NO. 1

NASS Weighting Factor

Weighting factor	11.783
------------------	--------

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	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 C/K-series Pickup
Year	1986
Class	TRUCK
Body Type	LARGE PICKUP
Weight	156

Pre-Crash Driver Data

Accident Type	71
Pre-event Movement	GOING STRAIGHT
Critical Pre-crash Event	Same DIR-OV LEFT
Attempted Avoidance Manuever	No DRIVER
Pre-impact Stability	No DRIVER
Pre-impact Location	STAYED IN LANE

PASSENGER Factors

Age	5	Height	0	Weight	0
Gender					MALE
Ejection					No EJECTION
Ejection Area					No EJECTION
Entrapment					Not ENTRAPPED

Restraint Factors

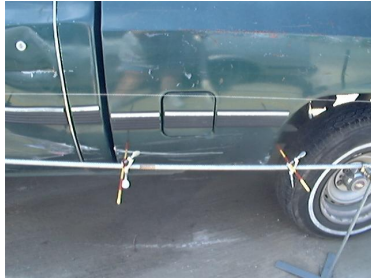
Restrain	None used/avail
AOPS	NO
Airbag Deployment	Not EQUIP/AVAIL
Airbag Deployment - 1 st Seat	Not EQUIP/AVAIL
Airbag Deployment - Oth Seat	Not EQUIP W/ OTH

Injuries

Occupant	2001-49-191-2-2
MAIS	7=Unk. sev.
Seat Position	Front middle

AIS Level	Injury Description	Contacts
-----------	--------------------	----------

Occupant: 2001-49-191-2-3



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, 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	45 -44 -8
Est. δV with sequence number	DELTA V CODED 2
CDC	12 F Z E W 3
Damage (C1-C6)	0 14 57 65 48 32
Crush (L and D)	140 7
Object Contacted 1	LARGE TREE
Object Contacted 2	VEHICLE NO. 1

NASS Weighting Factor

Weighting factor	11.783
------------------	--------

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	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 C/K-series Pickup
Year	1986
Class	TRUCK
Body Type	LARGE PICKUP
Weight	156

Pre-Crash Driver Data

Accident Type	71
Pre-event Movement	GOING STRAIGHT
Critical Pre-crash Event	Same DIR-OV LEFT
Attempted Avoidance Manuever	No DRIVER
Pre-impact Stability	No DRIVER
Pre-impact Location	STAYED IN LANE

PASSENGER Factors

Age	21	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	2001-49-191-2-3
MAIS	7=Unk. sev.
Seat Position	Front right side

AIS Level	Injury Description	Contacts
-----------	--------------------	----------

Occupant: 2001-49-191-2-4



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, 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	45 -44 -8
Est. δV with sequence number	DELTA V CODED 2
CDC	12 F Z E W 3
Damage (C1-C6)	0 14 57 65 48 32
Crush (L and D)	140 7
Object Contacted 1	LARGE TREE
Object Contacted 2	VEHICLE NO. 1

NASS Weighting Factor

Weighting factor	11.783
------------------	--------

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	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 C/K-series Pickup
Year	1986
Class	TRUCK
Body Type	LARGE PICKUP
Weight	156

Pre-Crash Driver Data

Accident Type	71
Pre-event Movement	GOING STRAIGHT
Critical Pre-crash Event	Same DIR-OV LEFT
Attempted Avoidance Manuever	No DRIVER
Pre-impact Stability	No DRIVER
Pre-impact Location	STAYED IN LANE

PASSENGER Factors

Age	2	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

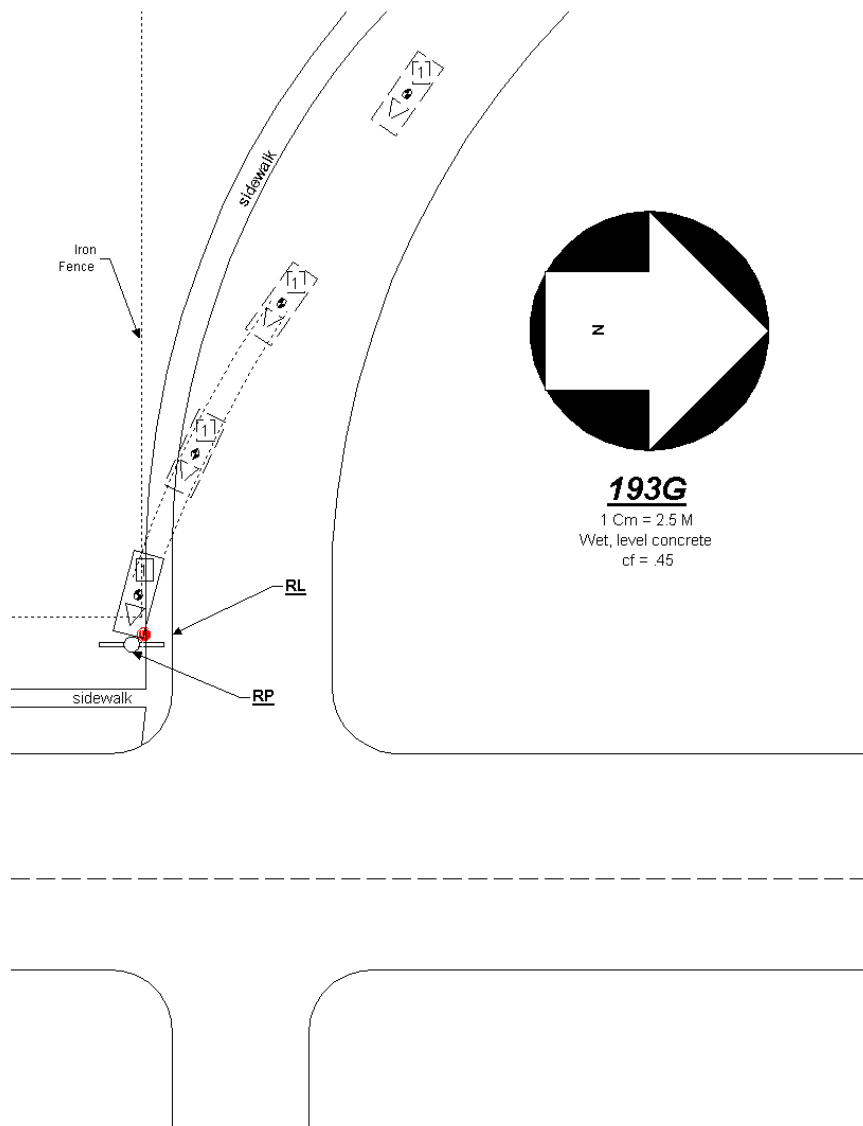
Occupant	2001-49-191-2-4
MAIS	7=Unk. sev.
Seat Position	Front on/in lap

AIS Level	Injury Description	Contacts
-----------	--------------------	----------

52 Case 2001-49-193

Summary:

Vehicle 1 was traveling south in the first lane of a two lane, undivided roadway. As the vehicle curved to the left, the vehicle went off the roadway to the right. The front collided with an iron fence and a wooden telephone pole. At this point, a fire broke out which consumed the entire vehicle. The driver was able to escape the vehicle but no details were given on the PAR as to his/her whereabouts. The vehicle was towed. Possibility the vehicle was stolen and the Driver fled the scene immediately after the crash.



Vehicle	Body type	Make	Model	Year	Occ.#	Age	Occupant's sex	Maximum known occupant ais
1	4-DR SEDAN/HDTOP	Dodge	Intrepid	1998	1	LESS THAN ONE YR	Unknown	0=None

Occupant: 2001-49-193-1-1



Fire Information

Fire Occurrence	Major fire
Fire Origin	Engine compart
Location of Fuel Leakage	No fuel tank
Type of Fuel Tank	No fuel Tank
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	CURVE LEFT
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 DRIVER
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 4
CDC	12 F Y E N 3
Damage (C1-C6)	3 53 42 32 19 0
Crush (L and D)	156 -26
Object Contacted 1	LARGE POLE
Object Contacted 2	FENCE

NASS Weighting Factor

Weighting factor	492.203
------------------	---------

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 Intrepid
Year	1998
Class	PASSENGER CAR
Body Type	4-DR SEDAN/HDTOP
Weight	155

Pre-Crash Driver Data

Accident Type	1
Pre-event Movement	No DRIVER
Critical Pre-crash Event	OFF EDGE-RIGHT
Attempted Avoidance Manuever	No DRIVER
Pre-impact Stability	No DRIVER
Pre-impact Location	No DRIVER

0 Factors

Age	LESS THAN ONE YR	Height	0	Weight	0
Gender	Unknown	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

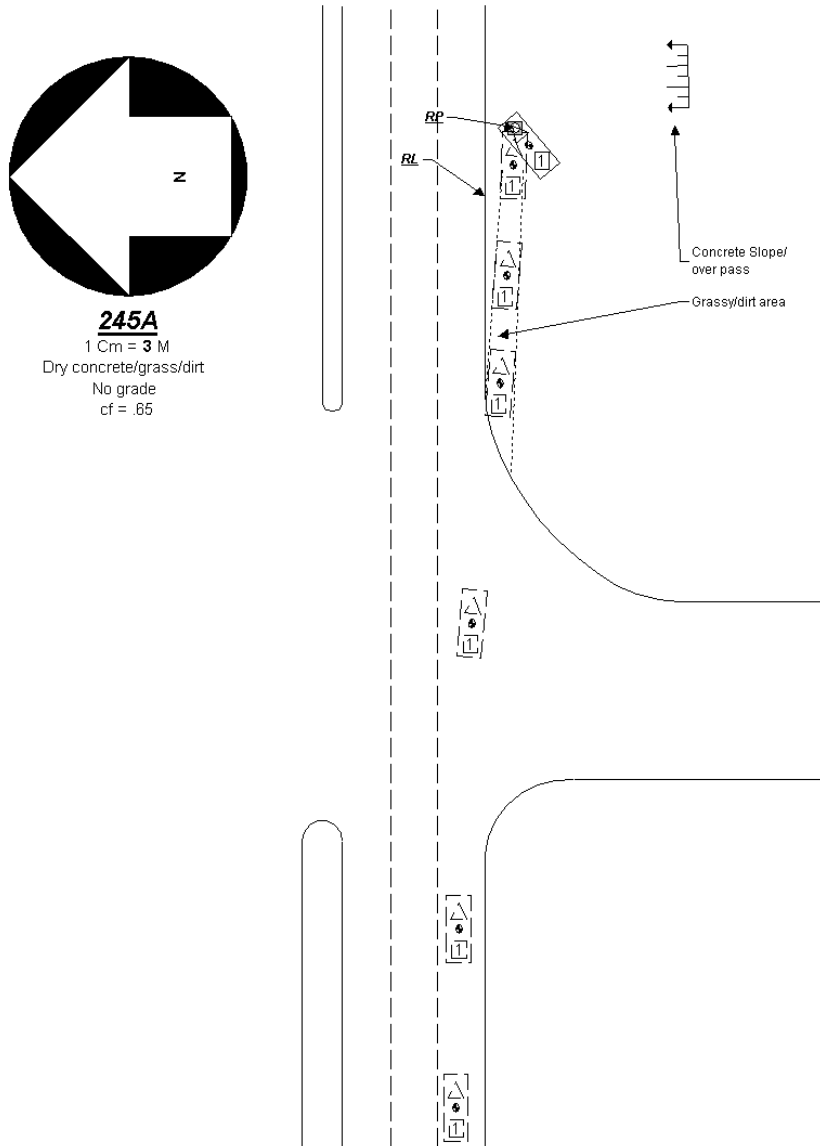
Occupant	2001-49-193-1-1
MAIS	0=None
Seat Position	Front left side

AIS Level	Injury Description	Contacts
-----------	--------------------	----------

53 Case 2001-49-245

Summary:

Vehicle 1 was traveling east in the first lane of a three-lane, divided roadway. The vehicle went off the road to the right and the front collided with a large concrete bridge pillar. Upon contact, the vehicle caught fire but did not completely burn up. The vehicle was equipped with driver and passenger airbags which deployed at impact. The driver was fatally injured with spinal cord and aorta transection as well as multiple heart lacerations, rib fractures as well as other internal injuries, and the vehicle was towed.



Vehicle	Body type	Make	Model	Year	Occ.#	Age	Occupant's sex	Maximum known occupant ais
1	LARGE UTILITY	Dodge	422	2000	1	35	MALE	6=Maximum

Occupant: 2001-49-245-1-1



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, left side
Fuel Cap Location	Left side, behind rear axle
Fuel Tank Damage	Deformed
Fuel Type	Gasoline



Crash Severity

Nr. Quarter Turns	No rollover
Impact Speed	> 159.5KMPH
Total, Longitudal, and Lateral δV	155 -155 < 0.5 KMPH
Est. δV with sequence number	DELTA V CODED 1
CDC	12 F D A W 7
Damage (C1-C6)	162 186 195 197 191 84
Crush (L and D)	162 -13
Object Contacted 1	BRIDGE
Object Contacted 2	0

NASS Weighting Factor

Weighting factor	11.07
------------------	-------

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	CURVE RIGHT
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	Dodge 422
Year	2000
Class	TRUCK
Body Type	LARGE UTILITY
Weight	198

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	No DRIVER
Pre-impact Location	DEPARTED ROADWAY

DRIVER Factors

Age	35	Height	173	Weight	86
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

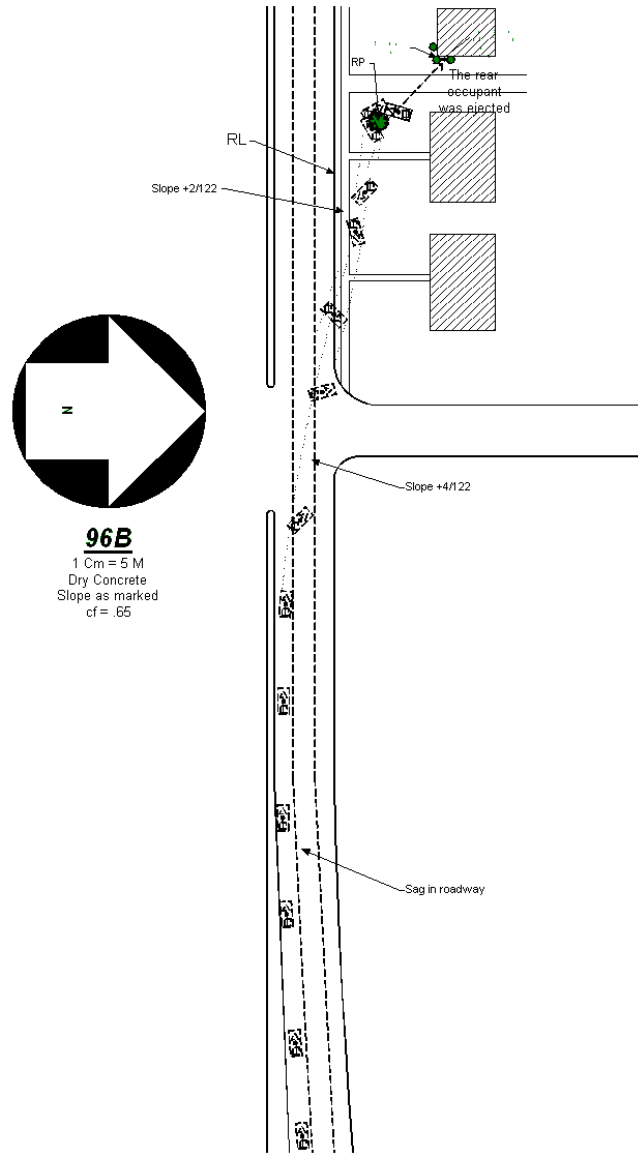
Occupant	2001-49-245-1-1
MAIS	6=Maximum
Seat Position	Front left side

AIS Level	Injury Description	Contacts
5=Critical	Thoracic aortic laceration, major, & mediastinal bleeding	Steering comb
6=Maximum	Cord laceration, complete, C3 or above, with dislocation	Steering comb
5=Critical	Intraventricular or intra-atrial septal laceration/rupture	Steering comb
6=Maximum	Myocardial laceration with complex perforation	Steering comb
2=Moderate	Pericardial laceration (puncture)	Steering comb
4=Severe	Lung contusion, bilateral	Steering comb
5=Critical	>3 rib fxs on each side, stable chest & hemo-/pneumothorax	Steering comb
2=Moderate	Sternal fracture	Steering comb
2=Moderate	Hepatic laceration NFS	Steering comb
2=Moderate	Splenic laceration NFS	Steering comb
3=Serious	Symphysis pubis separation or fracture	Steering comb
2=Moderate	Bladder contusion (hematoma)	Steering comb
2=Moderate	Mesenteric contusion NFS	Steering comb
2=Moderate	Small bowel contusion (hematoma)	Steering comb
2=Moderate	Patellar fracture	Knee bolster
3=Serious	853405	Knee bolster
2=Moderate	852002	Knee bolster
3=Serious	Cerebral subarachnoid hemorrhage	Steering comb
3=Serious	292016	Fire in vehicle
3=Serious	792016	Fire in vehicle
2=Moderate	792012	Fire in vehicle
2=Moderate	492012	Fire in vehicle
2=Moderate	892012	Fire in vehicle
1=Minor	Facial skin laceration, minor	Steering comb
1=Minor	Facial skin laceration, minor	Steering comb
1=Minor	Facial skin laceration, minor	Steering comb
1=Minor	Scalp laceration, minor	Left A pillar
1=Minor	Leg skin abrasion	Steering rim
1=Minor	Leg skin abrasion	Knee bolster

54 Case 2001-49-96

Summary:

Vehicle 1 was traveling south in the 3rd lane of a three lane, divided roadway. The left rear wheel contacted the median curb and this caused the vehicle to rotate clockwise and veer to the right across the other lanes of traffic and off the roadway. The vehicle continued into a residential yard and the right side collided with a large tree. The impact caused the RR occupant to be ejected approximately 10 meters to the south of the point of impact into the side wall of a house. This occupant, was not discovered for over 12 hours due to position in shrubs, fatal with multiple brain injuries. The RF occupant was fatally injured with cervical spine transection and multiple brain lacerations. The driver was hospitalized with brain and chest injuries. The vehicle was towed.



Vehicle	Body type	Make	Model	Year	Occ.#	Age	Occupant's sex	Maximum known occupant ais
1	4-DR SEDAN/HDTOP	Ford	Taurus	1997	1	27	MALE	5=Critical
1	4-DR SEDAN/HDTOP	Ford	Taurus	1997	2	21	MALE	6=Maximum
1	4-DR SEDAN/HDTOP	Ford	Taurus	1997	3	18	MALE	5=Critical

Occupant: 2001-49-96-1-1



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	Lacerated
Fuel Type	Gasoline

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



Crash Severity

Nr. Quarter Turns	No rollover
Impact Speed	998
Total, Longitudal, and Lateral δV	45 -39 -23
Est. δV with sequence number	DELTA V CODED 2
CDC	1 R P A W 4
Damage (C1-C6)	22 43 61 55 27 13
Crush (L and D)	230 -46
Object Contacted 1	LARGE TREE
Object Contacted 2	CURB

Pre-Crash Environment

Traffic Flow	DVDED/NO BARRIER
Number of Travel Lanes	THREE
Roadway Alignment	STRAIGHT
Roadway Profile	UPHILL GRADE
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	Not REPORTED
Alcohol Test (< 95 indicates BAC 0.xx)	0

Vehicle Factors

Make-Model	Ford Taurus
Year	1997
Class	PASSENGER CAR
Body Type	4-DR SEDAN/HDTOP
Weight	151

NASS Weighting Factor

Weighting factor	12.308
------------------	--------

Pre-Crash Driver Data

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

DRIVER Factors

Age	27	Height	170	Weight	69
Gender			MALE		
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 Seat

Injuries

Occupant	2001-49-96-1-1
MAIS	5=Critical
Seat Position	Front left side

AIS Level	Injury Description	Contacts
5=Critical	Cerebral diffuse ax- onal injury	Steering comb
3=Serious	Cerebral contusions, multiple, unilateral, small (<30ccs)	Steering comb
4=Severe	Unconscious on ad- mission, length <1 hour & neuro deficit	Steering comb
3=Serious	Thoracic cavity injury NFS, with pneumo- mediastinum	Steering comb
2=Moderate	Clavicle fracture	Steering rim
2=Moderate	Scapular fracture	Seat, back
2=Moderate	Scapular fracture	Left B pillar
1=Minor	Single rib fracture	Steering comb

Occupant: 2001-49-96-1-2



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	Right side, behind rear axle
Fuel Tank Damage	Lacerated
Fuel Type	Gasoline

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



Crash Severity

Nr. Quarter Turns	No rollover
Impact Speed	998
Total, Longitudal, and Lateral δV	45 -39 -23
Est. δV with sequence number	DELTA V CODED 2
CDC	1 R P A W 4
Damage (C1-C6)	22 43 61 55 27 13
Crush (L and D)	230 -46
Object Contacted 1	LARGE TREE
Object Contacted 2	CURB

Pre-Crash Environment

Traffic Flow	DVDED/NO BARRIER
Number of Travel Lanes	THREE
Roadway Alignment	STRAIGHT
Roadway Profile	UPHILL GRADE
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	Not REPORTED
Alcohol Test (< 95 indicates BAC 0.xx)	0

Vehicle Factors

Make-Model	Ford Taurus
Year	1997
Class	PASSENGER CAR
Body Type	4-DR SEDAN/HDTOP
Weight	151

NASS Weighting Factor

Weighting factor	12.308
------------------	--------

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

PASSENGER Factors

Age	21	Height	163	Weight	106
Gender			MALE		
Ejection			No EJECTION		
Ejection Area			No EJECTION		
Entrapment			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	2001-49-96-1-2
MAIS	6=Maximum
Seat Position	Front right side

AIS Level	Injury Description	Contacts
6=Maximum	Cord laceration, complete, C3 or above, no fx or dislocation	Windshld PS side
4=Severe	Cerebellar laceration	Windshld PS side
6=Maximum	Brain stem laceration	Windshld PS side
4=Severe	Cerebral laceration	Windshld PS side
4=Severe	Cerebral laceration	Windshld PS side
3=Serious	Basilar skull fracture, without CSF leak	Windshld PS side
2=Moderate	Skull fracture, vault, closed (simple, undisplaced)	Windshld PS side
2=Moderate	Zygoma fracture	Windshld PS side
1=Minor	Mandible fracture NFS	Windshld PS side
4=Severe	Lung contusion, bilateral	Right panel
4=Severe	Lung laceration, unilateral, with hemomediastinum	Right panel
4=Severe	>3 rib fxs on each side, stable chest	Right panel
2=Moderate	Hepatic laceration NFS	Right panel
2=Moderate	Splenic laceration NFS	Right panel
2=Moderate	Hyoid bone fracture	Windshld PS side
1=Minor	Thyroid contusion (hematoma)	Windshld PS side
2=Moderate	852002	Floor
1=Minor	Scalp contusion	Windshld PS side
1=Minor	Scalp laceration, minor	Windshld PS side
1=Minor	297402	Windshld PS side
1=Minor	297402	Windshld PS side
1=Minor	Facial skin contusion	Windshld PS side
1=Minor	Facial skin abrasion	Windshld PS side
1=Minor	Facial skin laceration, minor	Windshld PS side
1=Minor	Facial skin abrasion	Windshld PS side
1=Minor	Abdominal skin abrasion	Right panel
1=Minor	Upper extremity skin abrasion	Right A pillar
1=Minor	Upper extremity skin contusion	Right A pillar
1=Minor	Leg skin abrasion	Knee bolster
1=Minor	Leg skin contusion (hematoma)	Floor

Occupant: 2001-49-96-1-3



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	Right side, behind rear axle
Fuel Tank Damage	Lacerated
Fuel Type	Gasoline

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



Crash Severity

Nr. Quarter Turns	No rollover
Impact Speed	998
Total, Longitudal, and Lateral δV	45 -39 -23
Est. δV with sequence number	DELTA V CODED 2
CDC	1 R P A W 4
Damage (C1-C6)	22 43 61 55 27 13
Crush (L and D)	230 -46
Object Contacted 1	LARGE TREE
Object Contacted 2	CURB

Pre-Crash Environment

Traffic Flow	DVDED/NO BARRIER
Number of Travel Lanes	THREE
Roadway Alignment	STRAIGHT
Roadway Profile	UPHILL GRADE
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	Not REPORTED
Alcohol Test (< 95 indicates BAC 0.xx)	0

Vehicle Factors

Make-Model	Ford Taurus
Year	1997
Class	PASSENGER CAR
Body Type	4-DR SEDAN/HDTOP
Weight	151

NASS Weighting Factor

Weighting factor	12.308
------------------	--------

Pre-Crash Driver Data

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

PASSENGER Factors

Age	18	Height	170	Weight	80
Gender			MALE		
Ejection			COMPLETE EJECT		
Ejection Area			Right REAR		
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

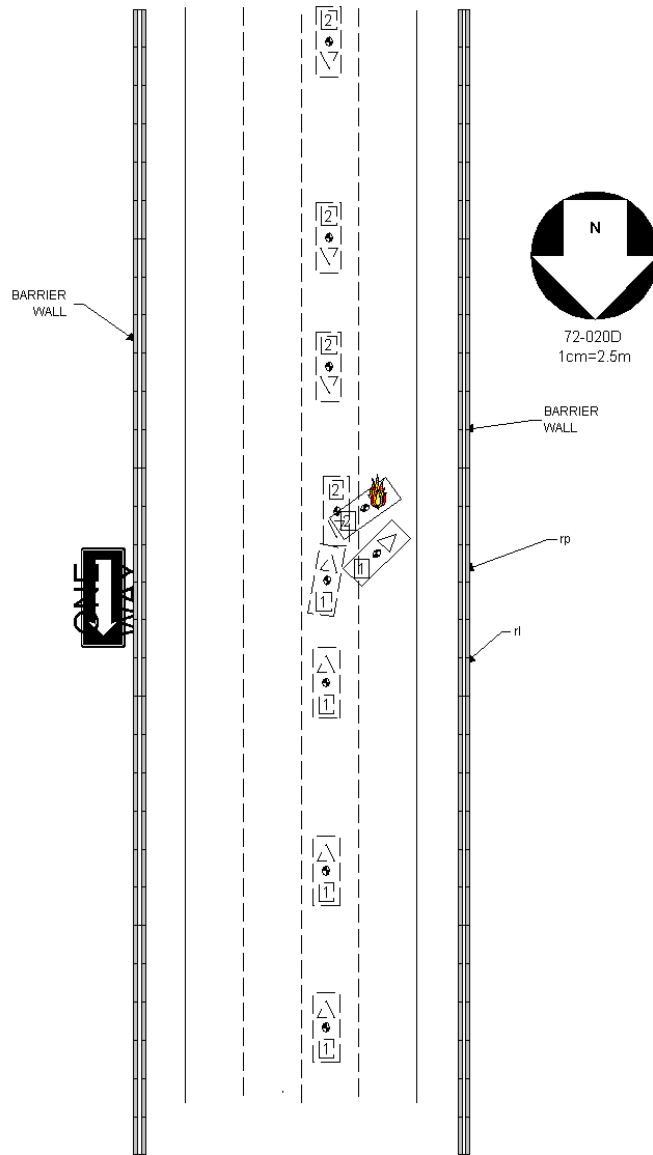
Occupant	2001-49-96-1-3
MAIS	5=Critical
Seat Position	Second right

AIS Level	Injury Description	Contacts
5=Critical	Cerebral subdural hematoma, small (<50ccs), bilateral	Right B pillar
3=Serious	Cerebral subarachnoid hemorrhage	Right B pillar
3=Serious	Cerebral contusions, multiple, bilateral but NFS	Right B pillar
2=Moderate	Orbit fracture, closed	Right B pillar
3=Serious	Lung contusion, unilateral	Seat, back
3=Serious	Femur fracture NFS	Right B pillar
1=Minor	297402	Right B pillar
1=Minor	Facial skin abrasion	Ground
1=Minor	Facial skin laceration, minor	Ground
1=Minor	Facial skin laceration, minor	Right B pillar
1=Minor	Facial skin abrasion	Right B pillar
1=Minor	Upper extremity skin abrasion	Seat, back
1=Minor	Upper extremity skin contusion	Seat, back
1=Minor	Thoracic skin abrasion	Seat, back
1=Minor	Leg skin contusion (hematoma)	Seat, back
1=Minor	Leg skin abrasion	Right interior
1=Minor	Upper extremity skin laceration, minor	Right interior
1=Minor	Scalp abrasion	Ground
1=Minor	Scalp laceration, minor	Ground
1=Minor	Scalp contusion	Ground

55 Case 2001-72-20

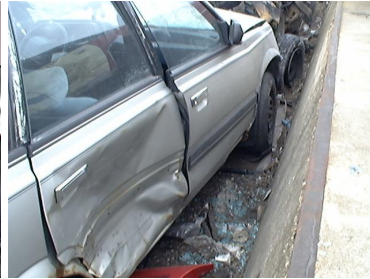
Summary:

Vehicle 1 was traveling southbound in the second lane of a four lane divided roadway. Vehicle 2 was traveling northbound in the third lane of a four lane divided roadway. Vehicle 1 was traveling southbound on a northbound street. The front plane of vehicle 1 contacted the front plane of vehicle 2. Because of the impact vehicle 2 caught fire. Vehicle 1 and vehicle 2 were towed from the scene. The driver and passenger of V1 were hospitalized for observation of head injury. The driver of vehicle 2 was treated and released with minor lacerations. The passenger was treated and released with unspecified head injury.



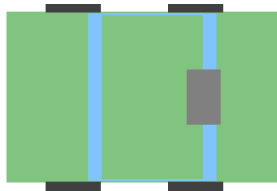
Vehicle	Body type	Make	Model	Year	Occ.#	Age	Occupant's sex	Maximum known occupant ais
1	STATION WAGON	Subaru	Brat	1987	1	19	MALE	2=Moderate
1	STATION WAGON	Subaru	Brat	1987	2	18	MALE	2=Moderate
2	4-DR SEDAN/HDTOP	Infiniti	G20	1995	1	21	MALE	1=Minor
2	4-DR SEDAN/HDTOP	Infiniti	G20	1995	2	26	FEMALE-NOT PREG	7=Unk. sev.

Occupant: 2001-72-20-1-1



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



Crash Severity

Nr. Quarter Turns	No rollover
Impact Speed	998
Total, Longitudal, and Lateral δV	20 -20 4
Est. δV with sequence number	DELTA V CODED 1
CDC	12 F Y 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	17.887
------------------	--------

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	FOUR
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	Subaru Brat
Year	1987
Class	
Body Type	STATION WAGON
Weight	116

Pre-Crash Driver Data

Accident Type	50
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	19	Height	175	Weight	77
Gender			MALE		
Ejection			No EJECTION		
Ejection Area			No EJECTION		
Entrapment			Not ENTRAPPED		

Restraint Factors

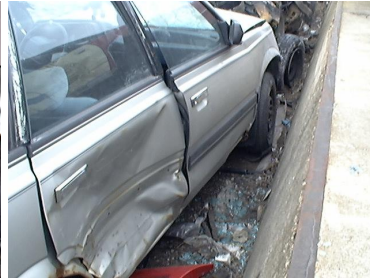
Restrain	None used/avail
AOPS	NO
Airbag Deployment	Not EQUIP/AVAIL
Airbag Deployment - 1 st Seat	Not EQUIP/AVAIL
Airbag Deployment - Oth Seat	Not EQUIP W/ OTH

Injuries

Occupant	2001-72-20-1-1
MAIS	2=Moderate
Seat Position	Front left side

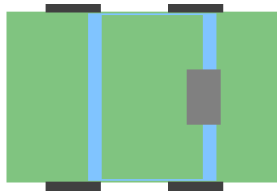
AIS Level	Injury Description	Contacts
2=Moderate	Lethargic on admission, unconscious <1 hour	Windshld DR side
1=Minor	Facial skin abrasion	Windshld DR side
1=Minor	Facial skin abrasion	Windshld DR side
1=Minor	Leg skin abrasion	Left apnel
1=Minor	Leg skin contusion (hematoma)	Left apnel

Occupant: 2001-72-20-1-2



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	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	20 -20 4
Est. δV with sequence number	DELTA V CODED 1
CDC	12 F Y 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

NASS Weighting Factor

Weighting factor	17.887
------------------	--------

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	FOUR
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	Subaru Brat
Year	1987
Class	
Body Type	STATION WAGON
Weight	116

Pre-Crash Driver Data

Accident Type	50
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

PASSENGER Factors

Age	18	Height	173	Weight	68
Gender					MALE
Ejection					PARTIAL EJECTION
Ejection Area					WINDSHIELD
Entrapment					Not ENTRAPPED

Restraint Factors

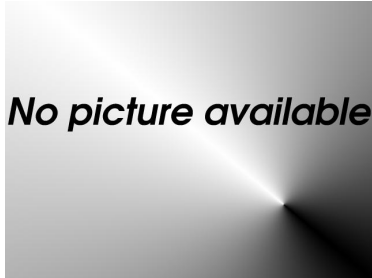
Restrain	None used/avail
AOPS	NO
Airbag Deployment	Not EQUIP/AVAIL
Airbag Deployment - 1 st Seat	Not EQUIP/AVAIL
Airbag Deployment - Oth Seat	Not EQUIP W/ OTH

Injuries

Occupant	2001-72-20-1-2
MAIS	2=Moderate
Seat Position	Front right side

AIS Level	Injury Description	Contacts
2=Moderate	Awake on admission, unconscious <1 hour	Windshield
1=Minor	Facial skin laceration, minor	Windshield
1=Minor	Upper extremity skin abrasion	Right panel

Occupant: 2001-72-20-2-1



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	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	18 -18 -3
Est. δV with sequence number	DELTA V CODED 1
CDC	12 F Z E W 2
Damage (C1-C6)	0 3 7 9 18 14
Crush (L and D)	142 40
Object Contacted 1	VEHICLE NO. 1
Object Contacted 2	0

NASS Weighting Factor

Weighting factor	17.887
------------------	--------

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	FOUR
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	No ALCOHOL
Alcohol Test (< 95 indicates BAC 0.xx)	0

Vehicle Factors

Make-Model	Infiniti G20
Year	1995
Class	PASSENGER CAR
Body Type	4-DR SEDAN/HDTOP
Weight	130

Pre-Crash Driver Data

Accident Type	51
Pre-event Movement	GOING STRAIGHT
Critical Pre-crash Event	Oth CRIT EVENT
Attempted Avoidance Manue- ver	BRAKE+STEER LEFT
Pre-impact Stability	TRACKING
Pre-impact Location	STAYED IN LANE

DRIVER Factors

Age	21	Height	175	Weight	73
Gender			MALE		
Ejection			No EJECTION		
Ejection Area			No EJECTION		
Entrapment			Not ENTRAPPED		

Restraint Factors

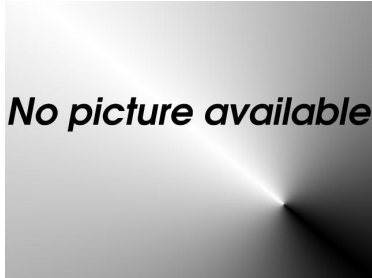
Restrain	None used/avail
AOPS	YES-RES DET
Airbag Deployment	BAG DEPLOYED
Airbag Deployment - 1 st Seat	DR
PAS BAG DEPLY	
Airbag Deployment - Oth Seat	Not EQUIP W/ OTH

Injuries

Occupant	2001-72-20-2-1
MAIS	1=Minor
Seat Position	Front left side

AIS Level	Injury Description	Contacts
1=Minor	Facial skin laceration, minor	Air bag-DR side
1=Minor	Gingival laceration	Air bag-DR side
1=Minor	Upper extremity skin laceration, minor	Right panel
1=Minor	Leg skin contusion (hematoma)	Knee bolster

Occupant: 2001-72-20-2-2



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	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	18 -18 -3
Est. δV with sequence number	DELTA V CODED 1
CDC	12 F Z E W 2
Damage (C1-C6)	0 3 7 9 18 14
Crush (L and D)	142 40
Object Contacted 1	VEHICLE NO. 1
Object Contacted 2	0

NASS Weighting Factor

Weighting factor	17.887
------------------	--------

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	FOUR
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	No ALCOHOL
Alcohol Test (< 95 indicates BAC 0.xx)	0

Vehicle Factors

Make-Model	Infiniti G20
Year	1995
Class	PASSENGER CAR
Body Type	4-DR SEDAN/HDTOP
Weight	130

Pre-Crash Driver Data

Accident Type	51
Pre-event Movement	GOING STRAIGHT
Critical Pre-crash Event	Oth CRIT EVENT
Attempted Avoidance Manue- ver	BRAKE+STEER LEFT
Pre-impact Stability	TRACKING
Pre-impact Location	STAYED IN LANE

PASSENGER Factors

Age	26	Height	152	Weight	57
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

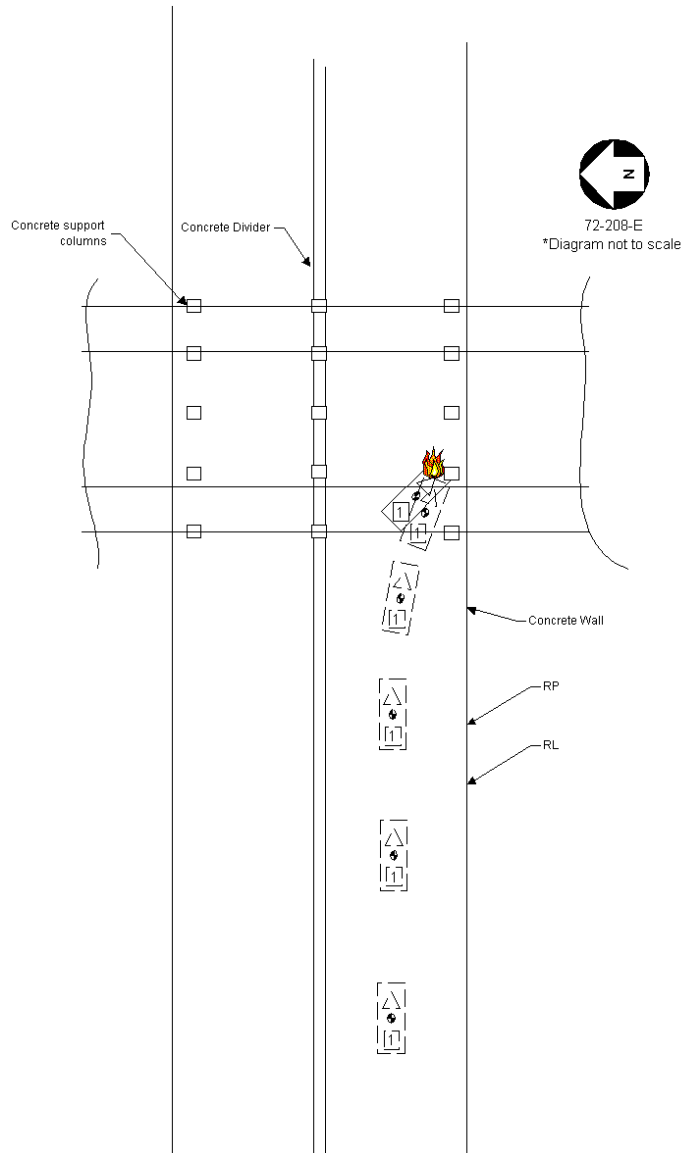
Occupant	2001-72-20-2-2
MAIS	7=Unk. sev.
Seat Position	Front right side

AIS Level	Injury Description	Contacts
-----------	--------------------	----------

56 Case 2001-72-208

Summary:

V1 was traveling east bound in the first lane of a two lane physically divided roadway when it lost control and struck concrete support column with it's frontright plane. After collision with wall V1 then caught on fire. Fire started in engine compartment. Driver of V1 was hospitalized with an upper leg fracture. V1 was towed due to damage.



Vehicle #	Body type	Make	Model	Year	Occ.#	Age	Occupant's sex	Maximum known occupant ais
1	4-DR SEDAN/HDTOP	Plymouth	Breeze	1999	1	17	FEMALE-NOT PREG	3=Serious

Occupant: 2001-72-208-1-1



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	DVDED/W/BARRIER
Number of Travel Lanes	ONE
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	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 -36 -6
Est. δV with sequence number	DELTA V CODED 1
CDC	12 F R E E 3
Damage (C1-C6)	0 6 17 32 44 77
Crush (L and D)	146 42
Object Contacted 1	CONCRETE BARRIER
Object Contacted 2	0

NASS Weighting Factor

Weighting factor	65.967
------------------	--------

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	Plymouth Breeze
Year	1999
Class	PASSENGER CAR
Body Type	4-DR SEDAN/HDTOP
Weight	133

Pre-Crash Driver Data

Accident Type	12
Pre-event Movement	GOING STRAIGHT
Critical Pre-crash Event	Unk CONTROL LOSS
Attempted Avoidance Manuever	BRAKE+STEER RT
Pre-impact Stability	TRACKING
Pre-impact Location	DEPARTED ROADWAY

DRIVER Factors

Age	17	Height	168	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

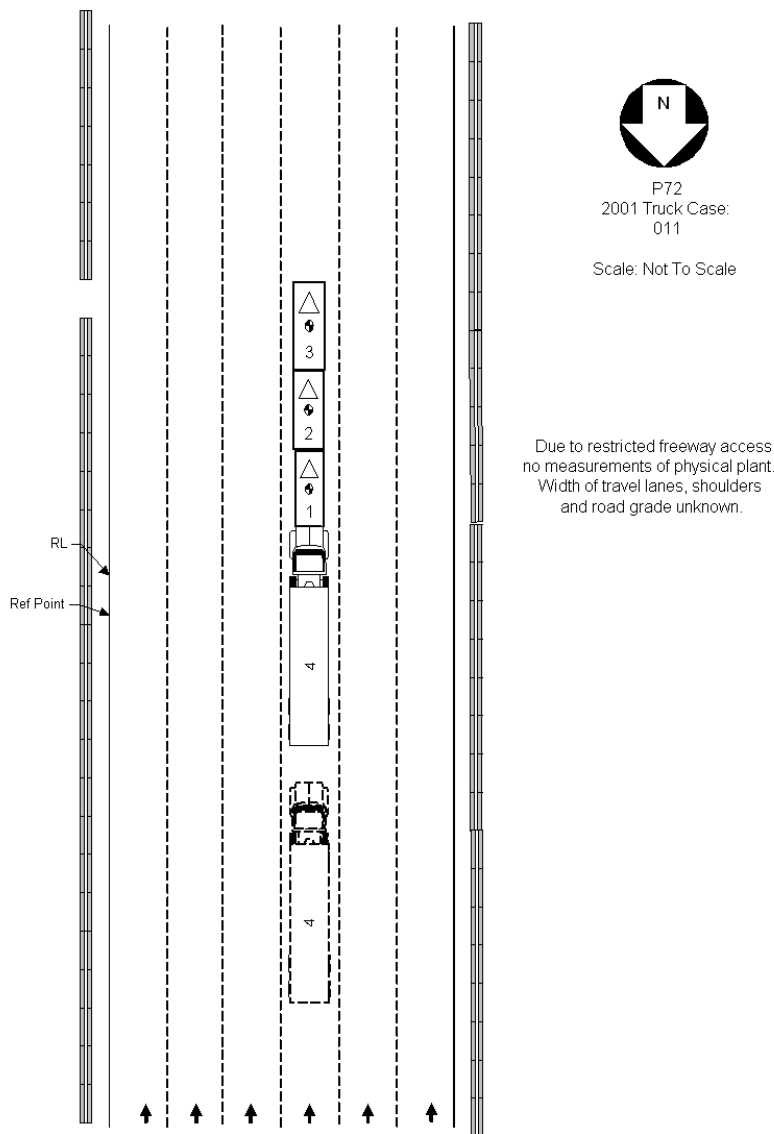
Occupant	2001-72-208-1-1
MAIS	3=Serious
Seat Position	Front left side

AIS Level	Injury Description	Contacts
3=Serious	Femoral shaft fracture	Unknown SOURCE
1=Minor	Facial skin contusion	Unknown SOURCE
1=Minor	Upper extremity skin contusion	Unknown SOURCE

57 Case 2001-72-28

Summary:

This crash occurred at 1129 hours on a Wednesday on a six-lane divided urban freeway with six travel lanes in each direction. The posted speed limit was 89KPH (e.g. 55 MPH) and the roadway was dry. Vehicle four, a 1998 Freightliner truck tractor pulling one Wabash van-trailer, was traveling southbound in lane three of a six lane physically divided expressway. Vehicle one was a 1999 Honda Accord, vehicle two a 1978 Mercury Monarch, and vehicle three a 1995 GMC Sierra C-15. They were all traveling also traveling in lane three of the same expressway forward of vehicle four. Vehicles one, two and three had all slowed due to traffic backing up. Vehicle four was unable to stop in time and impacted vehicle one in the rear. Vehicle one then contacted vehicle two's rear with it's front. Vehicle two then contacted vehicle three's rear with its front. All vehicle's came to rest in their original travel lane. Vehicle four was not towed and the driver had no injuries. Vehicle one was towed and the driver was transported to a medical facility having sustained "A" injuries. Vehicle two was towed and both the driver and the passenger were transported to a medical facility having sustained "B" injuries. Vehicle three was not towed but the driver was also transported to a medical facility having sustained a "C" injury.



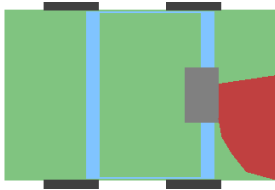
Vehicle #	Body type	Make	Model	Year	Occ.#	Age	Occupant's sex	Maximum known occupant ais
1	4-DR SEDAN/HD TOP	Honda	Accord	1999	1	57	MALE	7=Unk. sev.
2	2DR SEDAN/HT/CPE	Mercury	Monarch	1978	1	45	MALE	1=Minor
2	2DR SEDAN/HT/CPE	Mercury	Monarch	1978	2	44	FEMALE-NOT PREG	1=Minor

Occupant: 2001-72-28-1-1



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, 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 < 0.5 KMPH
Est. δV with sequence number	DELTA V CODED 1
CDC	6 B D A W 8
Damage (C1-C6)	45 66 81 86 85 84
Crush (L and D)	155 0
Object Contacted 1	VEHICLE NO. 4
Object Contacted 2	VEHICLE NO. 2

NASS Weighting Factor

Weighting factor 4.29

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/W/BARRIER
Number of Travel Lanes	SIX
Roadway Alignment	STRAIGHT
Roadway Profile	0
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	Honda Accord
Year	1999
Class	PASSENGER CAR
Body Type	4-DR SEDAN/HDTOP
Weight	131

Pre-Crash Driver Data

Accident Type	25
Pre-event Movement	DECELER 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	57	Height	173	Weight	86
Gender			MALE		
Ejection			No EJECTION		
Ejection Area			No EJECTION		
Entrapment			Not ENTRAPPED		

Restraint Factors

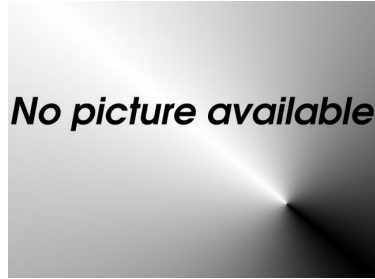
Restrain	Lap and shoulder
AOPS	YES-RES DET
Airbag Deployment	BAG DEPLOYED
Airbag Deployment - 1 st Seat	DR
PAS BAG DEPLY	
Airbag Deployment - Oth Seat	Not EQUIP W/ OTH

Injuries

Occupant	2001-72-28-1-1
MAIS	7=Unk. sev.
Seat Position	Front left side

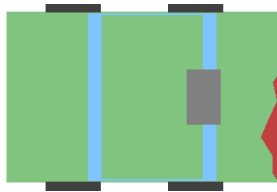
AIS Level	Injury Description	Contacts
-----------	--------------------	----------

Occupant: 2001-72-28-2-1



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



Pre-Crash Environment

Traffic Flow	DVDED/W/BARRIER
Number of Travel Lanes	SIX
Roadway Alignment	STRAIGHT
Roadway Profile	0
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	16 16 < 0.5 KMPH
Est. δV with sequence number	DELTA V CODED 2
CDC	6 B D E W 2
Damage (C1-C6)	8 9 26 15 2 8
Crush (L and D)	160 0
Object Contacted 1	VEHICLE NO. 1
Object Contacted 2	VEHICLE NO. 3

NASS Weighting Factor

Weighting factor 4.29

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 Monarch
Year	1978
Class	PASSENGER CAR
Body Type	2DR SEDAN/HT/CPE
Weight	148

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	TRACKING
Pre-impact Location	STAYED IN LANE

DRIVER Factors

Age	45	Height	175	Weight	76
Gender			MALE		
Ejection			No EJECTION		
Ejection Area			No EJECTION		
Entrapment			Not ENTRAPPED		

Restraint Factors

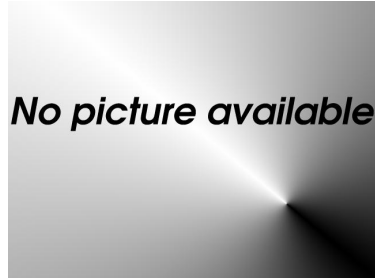
Restrain	None used/avail
AOPS	NO
Airbag Deployment	Not EQUIP/AVAIL
Airbag Deployment - 1 st Seat	Not EQUIP/AVAIL
Airbag Deployment - Oth Seat	Not EQUIP W/ OTH

Injuries

Occupant	2001-72-28-2-1
MAIS	1=Minor
Seat Position	Front left side

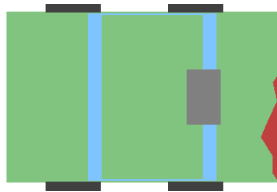
AIS Level	Injury Description	Contacts
1=Minor	Leg skin laceration, minor	Knee bolster

Occupant: 2001-72-28-2-2



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/W/BARRIER
Number of Travel Lanes	SIX
Roadway Alignment	STRAIGHT
Roadway Profile	0
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	16 16 < 0.5 KMPH
Est. δV with sequence number	DELTA V CODED 2
CDC	6 B D E W 2
Damage (C1-C6)	8 9 26 15 2 8
Crush (L and D)	160 0
Object Contacted 1	VEHICLE NO. 1
Object Contacted 2	VEHICLE NO. 3

Vehicle Factors

Make-Model	Mercury Monarch
Year	1978
Class	PASSENGER CAR
Body Type	2DR SEDAN/HT/CPE
Weight	148

NASS Weighting Factor

Weighting factor	4.29
------------------	------

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	TRACKING
Pre-impact Location	STAYED IN LANE

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

PASSENGER Factors

Age	44	Height	163	Weight	71
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

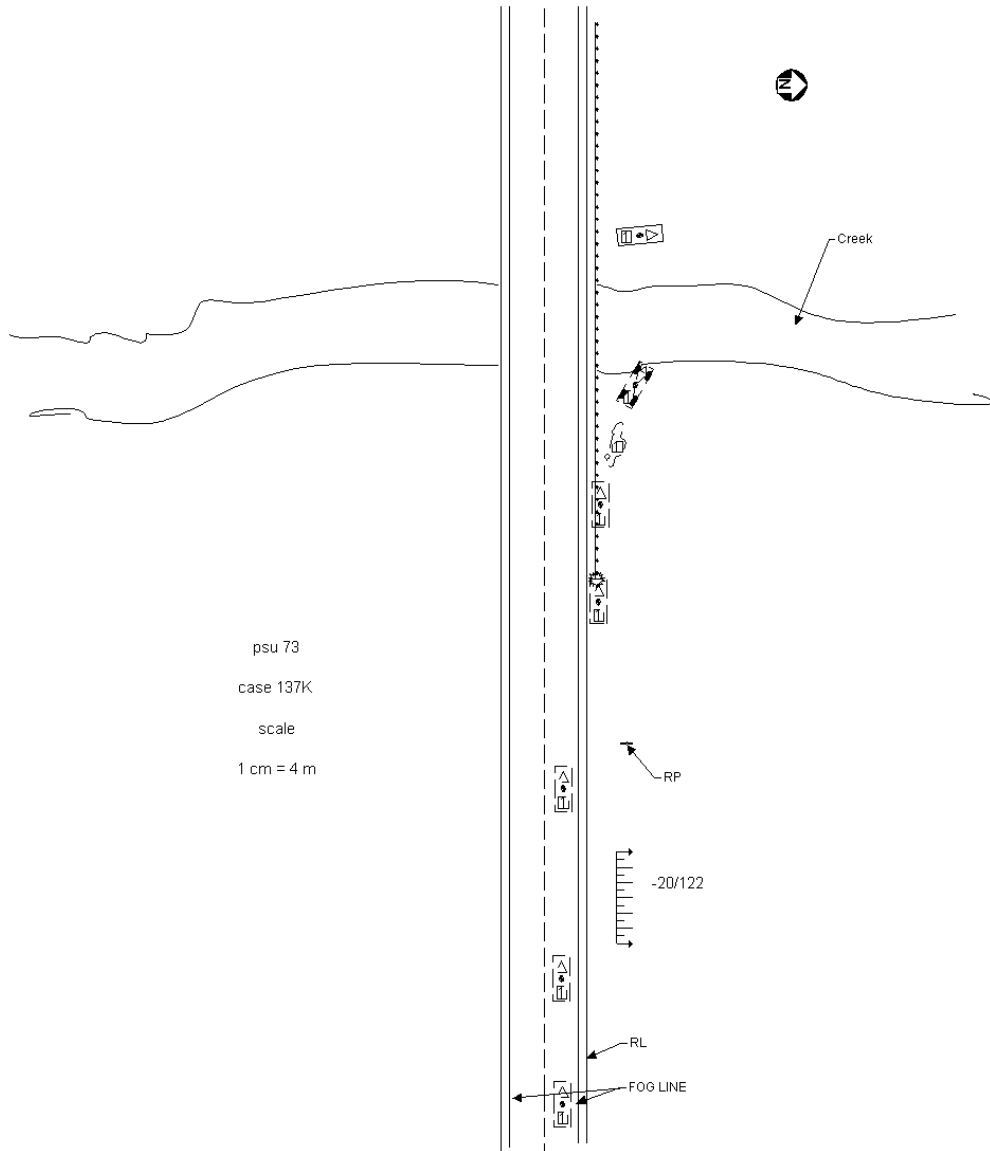
Occupant	2001-72-28-2-2
MAIS	1=Minor
Seat Position	Front right side

AIS Level	Injury Description	Contacts
1=Minor	Upper extremity skin abrasion	Right panel

58 Case 2001-73-137

Summary:

V1 WESTBOUND ON TWO LANE, TWO WAY ROADWAY. V1 DEPARTED ROADWAY RIGHT, STRUCK AGUARDRAIL, OVERTURNED TO RIGHT INTO DITCH, AND PROCEEDED TO CROSS A CREEK WHEREIT CAME TO FINAL REST ON ITS WHEELS IN DITCH. THE DRIVER WAS HOSPITALIZED FORSPLEEN CONTUSION AND LACERTION AS WELL AS A FACIAL FRACTURE.. V1 TOWED DUE TODAMAGE.



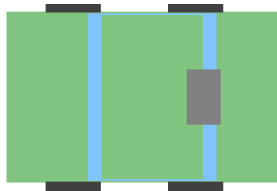
Vehicle	Body type	Make	Model	Year	Occ.#	Age	Occupant's sex	Maximum known occupant ais
1	2DR SEDAN/HT/CPE	Chevrolet	Cavalier	1988	1	20	MALE	2=Moderate

Occupant: 2001-73-137-1-1



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, on the rear axle
Fuel Tank Damage	Lacerated
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 2
CDC	0 T D D O 0
Damage (C1-C6)	0 0 0 0 0 0
Crush (L and D)	0 0
Object Contacted 1	ROLLOVER-OVERTRN
Object Contacted 2	Other BARRIER

NASS Weighting Factor

Weighting factor 20.862

Rollover Characteristics

Number of Events	2
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 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	Chevrolet Cavalier
Year	1988
Class	PASSENGER CAR
Body Type	2DR SEDAN/HT/CPE
Weight	107

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	20	Height	175	Weight	68
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

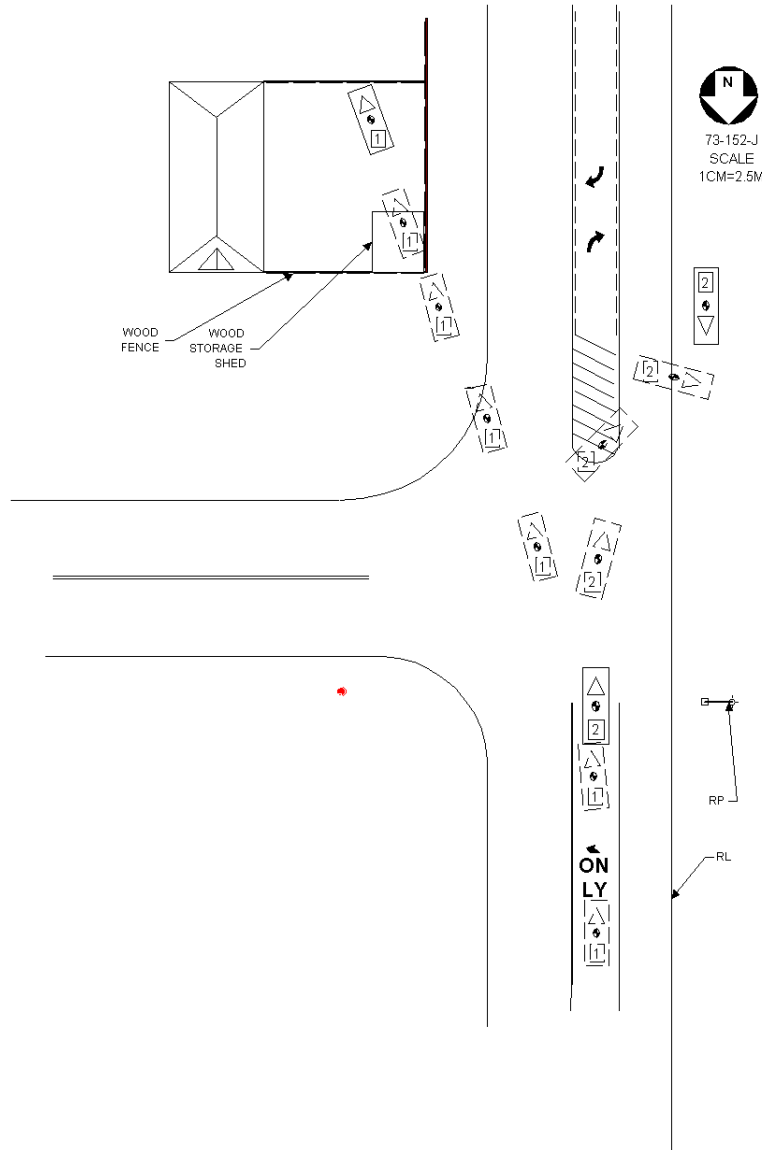
Occupant	2001-73-137-1-1
MAIS	2=Moderate
Seat Position	Front left side

AIS Level	Injury Description	Contacts
2=Moderate	Splenic laceration, minor (tear<3cms deep, no major vessel)	Steering rim
2=Moderate	Splenic contusion, minor (<502=Moderate	Awake on admission, unconscious <1 hour
Roof		
2=Moderate	Alveolar ridge fracture +/- tooth injury	Roof
2=Moderate	Carpus or metacarpus fracture	Roof
1=Minor	Facial skin laceration, minor	Roof
1=Minor	Facial skin laceration, minor	Roof
1=Minor	Thoracic skin contusion	Steering comb
1=Minor	Thoracic skin laceration, minor	Steering comb
1=Minor	Upper extremity skin abrasion	Roof
1=Minor	Upper extremity skin contusion	Roof
1=Minor	Upper extremity skin laceration, minor	Roof
1=Minor	Scalp contusion	Roof
1=Minor	Upper extremity skin contusion	Steering rim
1=Minor	Leg skin abrasion	Left apnel

59 Case 2001-73-152

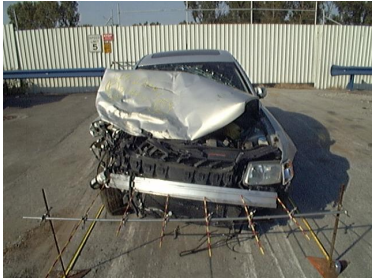
Summary:

V1 southbound in first lane of three lane, two way roadway behind V2. V1 moves to second lane intending to pass V2. V2 moves to second lane and decelerates in order to make left turn. V1 strikes V2 in rear. V1 crosses intersection to southeast, strikes sign post, wooden fence, wooden storage shed, and comes to final rest in residential back yard. V2 crosses intersection to southwest and comes to final rest on roadside. V1 and V2 towed due to damage. V1 occupied by driver and three passengers. All were transported to local trauma center. The driver of V1 was hospitalized for multiple jaw fractures. The front seat passenger was treated and released with neck strain. The left rear passenger was treated and released with facial contusions. The right rear passenger was hospitalized for a nasal fracture. V2 occupied by driver only, who was reported uninjured.



Vehicle	Body type	Make	Model	Year	Occ. #	Age	Occupant's sex	Maximum known occupant AIS
1	4-DR SEDAN/HDTOP	VW	Passat	1999	1	17	MALE	2=Moderate
1	4-DR SEDAN/HDTOP	VW	Passat	1999	1	15	MALE	1=Minor
1	4-DR SEDAN/HDTOP	VW	Passat	1999	1	16	FEMALE-NOT PREG	1=Minor
1	4-DR SEDAN/HDTOP	VW	Passat	1999	1	16	MALE	2=Moderate
2	4-DR SEDAN/HDTOP	Chevrolet	Caprice/Impala	1991	1	49	MALE	0=None

Occupant: 2001-73-152-1-1



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



Crash Severity

Nr. Quarter Turns	No rollover
Impact Speed	998
Total, Longitudal, and Lateral δV	46 -45 -8
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	BUILDING

NASS Weighting Factor

Weighting factor	33.185
------------------	--------

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	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	INTERSECTION REL
Traffic Control Device	
Police Reported Alcohol Presence	No ALCOHOL
Alcohol Test (< 95 indicates BAC 0.xx)	0

Vehicle Factors

Make-Model	VW Passat
Year	1999
Class	PASSENGER CAR
Body Type	4-DR SEDAN/HDTOP
Weight	142

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

Restraint Factors

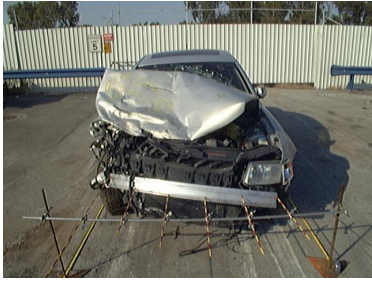
Restrain	Lap and shoulder
AOPS	YES-RES DET
Airbag Deployment	BAG DEPLOYED
Airbag Deployment - 1 st Seat	DR
PAS BAG DEPLY	
Airbag Deployment - Oth Seat	NONDEPLOYED

Injuries

Occupant	2001-73-152-1-1
MAIS	2=Moderate
Seat Position	Front left side

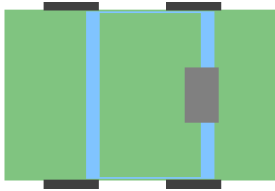
AIS Level	Injury Description	Contacts
2=Moderate	Mandible sub-condylar fracture, open/displaced/comminuted	Air bag-DR side
1=Minor	Mandible ramus fracture, closed	Air bag-DR side
2=Moderate	Temporalmandibular joint dislocation	Air bag-DR side
2=Moderate	Temporalmandibular joint dislocation	Air bag-DR side
1=Minor	Facial skin abrasion	Air bag-DR side
1=Minor	Facial skin contusion	Air bag-DR side

Occupant: 2001-73-152-1-2



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	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	46 -45 -8
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	BUILDING

NASS Weighting Factor

Weighting factor	33.185
------------------	--------

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	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	INTERSECTION REL
Traffic Control Device	
Police Reported Alcohol Presence	No ALCOHOL
Alcohol Test (< 95 indicates BAC 0.xx)	0

Vehicle Factors

Make-Model	VW Passat
Year	1999
Class	PASSENGER CAR
Body Type	4-DR SEDAN/HDTOP
Weight	142

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

PASSENGER Factors

Age	15	Height	165	Weight	59
Gender			MALE		
Ejection			No EJECTION		
Ejection Area			No EJECTION		
Entrapment			Not ENTRAPPED		

Restraint Factors

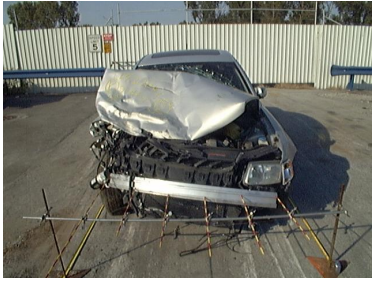
Restrain	Lap and shoulder
AOPS	YES-RES DET
Airbag Deployment	BAG DEPLOYED
Airbag Deployment - 1 st Seat	DR
PAS BAG DEPLY	
Airbag Deployment - Oth Seat	NONDEPLOYED

Injuries

Occupant	2001-73-152-1-2
MAIS	1=Minor
Seat Position	Front right side

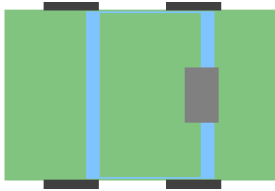
AIS Level	Injury Description	Contacts
1=Minor	Acute cervical spine strain without fracture or dislocation	Air bag-PS side
1=Minor	Facial skin contusion	Air bag-PS side
1=Minor	Thoracic skin contusion	Air bag-PS side

Occupant: 2001-73-152-1-3



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	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	46 -45 -8
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	BUILDING

NASS Weighting Factor

Weighting factor	33.185
------------------	--------

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	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	INTERSECTION REL
Traffic Control Device	
Police Reported Alcohol Presence	No ALCOHOL
Alcohol Test (< 95 indicates BAC 0.xx)	0

Vehicle Factors

Make-Model	VW Passat
Year	1999
Class	PASSENGER CAR
Body Type	4-DR SEDAN/HDTOP
Weight	142

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

PASSENGER Factors

Age	16	Height	165	Weight	59
Gender					FEMALE-NOT PREG
Ejection					No EJECTION
Ejection Area					No EJECTION
Entrapment					Not ENTRAPPED

Restraint Factors

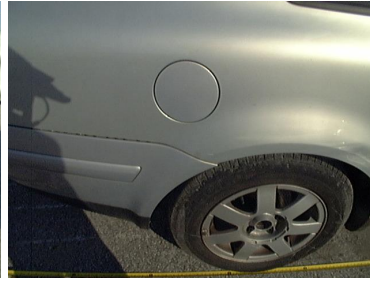
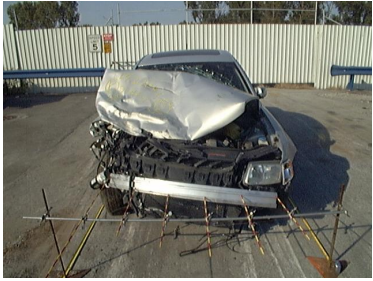
Restrain	None used/avail
AOPS	YES-RES DET
Airbag Deployment	Not EQUIP/AVAIL
Airbag Deployment - 1 st Seat	DR
PAS BAG DEPLY	
Airbag Deployment - Oth Seat	NONDEPLOYED

Injuries

Occupant	2001-73-152-1-3
MAIS	1=Minor
Seat Position	Second left

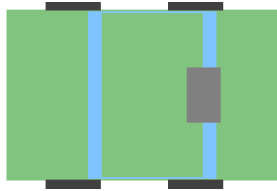
AIS Level	Injury Description	Contacts
1=Minor	Facial skin contusion	Seat, back
1=Minor	297402	Seat, back

Occupant: 2001-73-152-1-4



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



Crash Severity

Nr. Quarter Turns	No rollover
Impact Speed	998
Total, Longitudal, and Lateral δV	46 -45 -8
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	BUILDING

NASS Weighting Factor

Weighting factor	33.185
------------------	--------

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	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	INTERSECTION REL
Traffic Control Device	
Police Reported Alcohol Presence	No ALCOHOL
Alcohol Test (< 95 indicates BAC 0.xx)	0

Vehicle Factors

Make-Model	VW Passat
Year	1999
Class	PASSENGER CAR
Body Type	4-DR SEDAN/HDTOP
Weight	142

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

PASSENGER Factors

Age	16	Height	183	Weight	118
Gender			MALE		
Ejection			No EJECTION		
Ejection Area			No EJECTION		
Entrapment			Not ENTRAPPED		

Restraint Factors

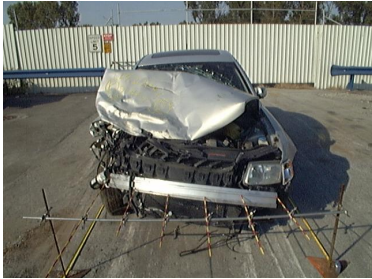
Restrain	None used/avail
AOPS	YES-RES DET
Airbag Deployment	Not EQUIP/AVAIL
Airbag Deployment - 1 st Seat	DR
PAS BAG DEPLY	
Airbag Deployment - Oth Seat	NONDEPLOYED

Injuries

Occupant	2001-73-152-1-4
MAIS	2=Moderate
Seat Position	Second right

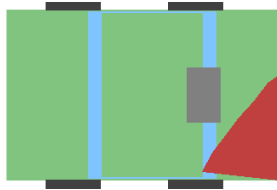
AIS Level	Injury Description	Contacts
2=Moderate	Nose fracture, open/displaced/comminuted	Seat, back
1=Minor	Facial skin contusion	Head restraint
1=Minor	Scalp abrasion	Head restraint
1=Minor	Scalp laceration, minor	Head restraint

Occupant: 2001-73-152-2-1



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	42 41 -7
Est. δV with sequence number	DELTA V CODED 1
CDC	6 B D E W 6
Damage (C1-C6)	112 98 78 60 36 16
Crush (L and D)	156 0
Object Contacted 1	VEHICLE NO. 1
Object Contacted 2	0

NASS Weighting Factor

Weighting factor	33.185
------------------	--------

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	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	INTERSECTION REL
Traffic Control Device	
Police Reported Alcohol Presence	No ALCOHOL
Alcohol Test (< 95 indicates BAC 0.xx)	0

Vehicle Factors

Make-Model	Chevrolet Caprice/Impala
Year	1991
Class	PASSENGER CAR
Body Type	4-DR SEDAN/HDTOP
Weight	177

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	49	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	NONDEPLOYED
Airbag Deployment - 1 st Seat	NONDEPLOYED
Airbag Deployment - Oth Seat	Not EQUIP W/ OTH

Injuries

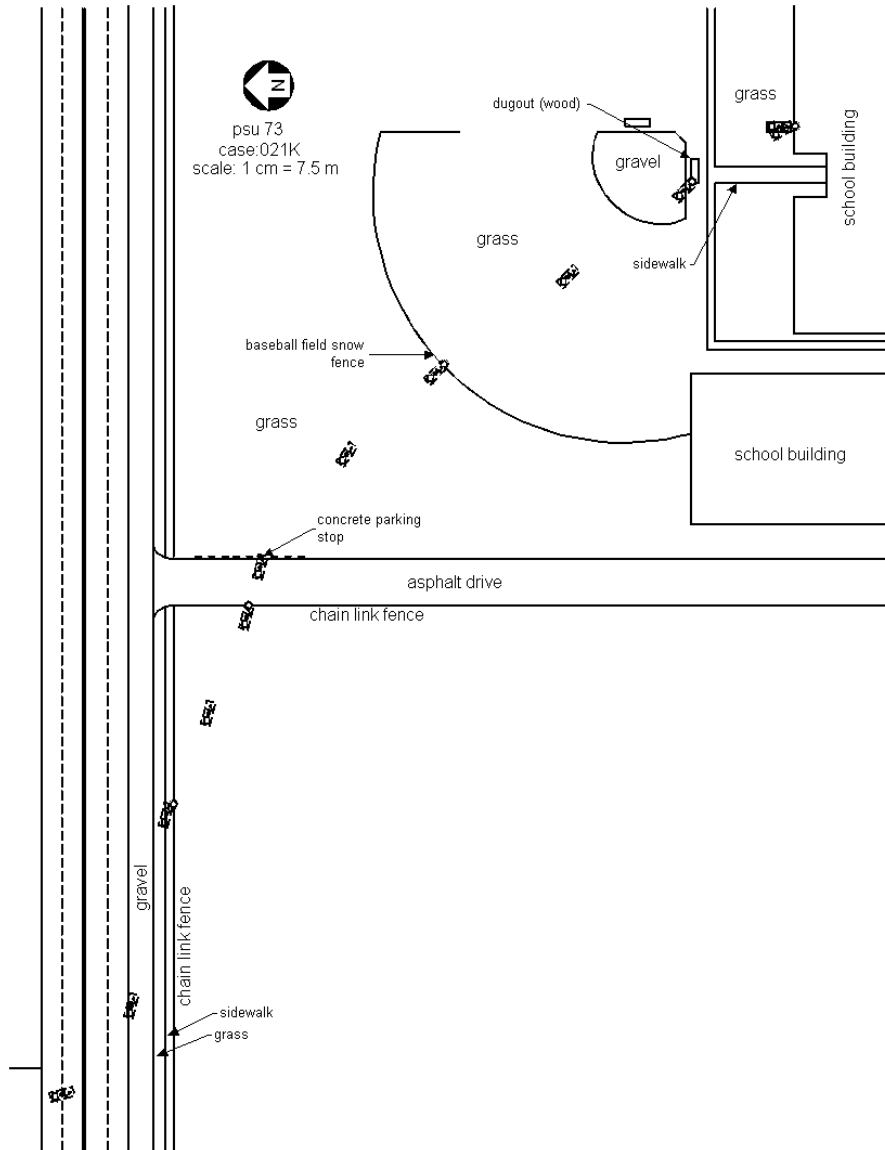
Occupant	2001-73-152-2-1
MAIS	0=None
Seat Position	Front left side

AIS Level	Injury Description	Contacts
-----------	--------------------	----------

60 Case 2001-73-21

Summary:

V1 was traveling east on a two way, four lane roadway in the first eastbound lane. V1 exited the roadway right and struck a fence. V1 continued in a southeast direction and struck another section of the fence continuing through it southeast. V1 struck a concrete parking stop as it crossed a roadway and parking area. V1 crossed a field crashing through a snow fence around a baseball field and continued southeast striking a wood dugout. V1 continued southeast from the dugout impact and impacted a school building and came to final rest there catching fire. V1 was occupied by the driver only who was hospitalized for hip and rib fractures as well as lung contusions. The vehicle was towed from the crash scene due to impact damage and fire damage. The vehicle was equipped with dual frontal air bags that deployed on the final impact with the school building.



Vehicle	Body type	Make	Model	Year	Occ.#	Age	Occupant's sex	Maximum known occupant ais
1	4-DR SEDAN/HDTOP	Dodge	20	1997	1	53	MALE	4=Severe

Occupant: 2001-73-21-1-1



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	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	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	< 0.5KMPH
Total, Longitudal, and Lateral δV	< 0.5 KMPH < 0.5 KMPH < 0.5 KMPH
Est. δV with sequence number	SEVERE 6
CDC	12 F D E W 4
Damage (C1-C6)	15 29 44 53 61 68
Crush (L and D)	142 22
Object Contacted 1	BUILDING
Object Contacted 2	BUILDING

NASS Weighting Factor

Weighting factor	20.862
------------------	--------

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	Dodge 20
Year	1997
Class	PASSENGER CAR
Body Type	4-DR SEDAN/HDTOP
Weight	110

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	TRACKING
Pre-impact Location	DEPARTED ROADWAY

DRIVER Factors

Age	53	Height	180	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
PAS BAG DEPLY	
Airbag Deployment - Oth Seat	Not EQUIP W/ OTH

Injuries

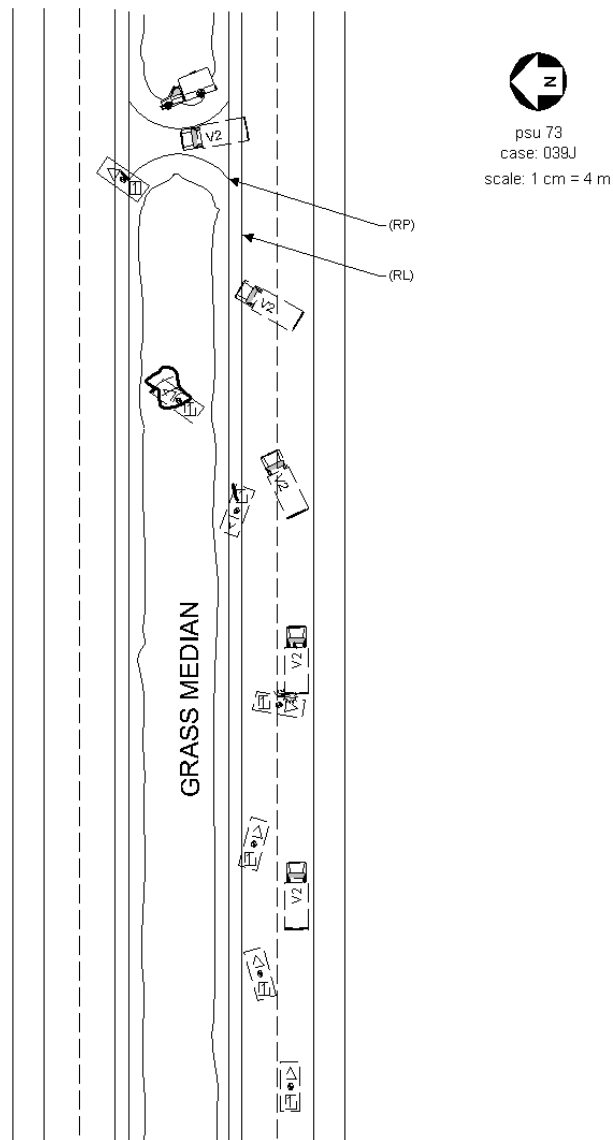
Occupant	2001-73-21-1-1
MAIS	4=Severe
Seat Position	Front left side

AIS Level	Injury Description	Contacts
3=Serious	Subtrochanteric femoral fracture	Steering rim
3=Serious	Pelvic fracture, open/displaced/comminuted	Steering rim
2=Moderate	Hip joint dislocation not involving articular cartilage	Steering rim
3=Serious	Rib fractures (=>1 rib), open/displaced/comminuted	Steering comb
4=Severe	Lung contusion, bilateral	Steering comb
1=Minor	Scalp abrasion	Flying glass
1=Minor	Scalp laceration, minor	Flying glass
1=Minor	Thoracic skin contusion	Steering comb
1=Minor	Upper extremity skin abrasion	Left apnel
1=Minor	Upper extremity skin laceration, minor	Left apnel
1=Minor	Leg skin contusion (hematoma)	Steering rim
1=Minor	Leg skin abrasion	Knee bolster
1=Minor	Leg skin abrasion	Floor

61 Case 2001-73-39

Summary:

V1 was traveling east on a two way, four lane divided roadway in the first eastbound lane. V1 lost control on wet pavement and moved to the second lane, steering right and rotated into a clockwise yaw sliding back into the first lane. V2 was traveling in the first eastbound lane ahead of V1. V1 struck the rear of V2 with the left side of the vehicle. V1 rotated off the impact across the grassy median and came to final rest on the inside edge of the westbound lanes. V2 rotated counterclockwise towards the median and rolled over a quarter turn onto the right side in the median at a crossover. A small engine fire started on V1 at final rest and was immediately extinguished. V1 was equipped with dual frontal air bags. The driver bag did not deploy and the passenger bag did deploy. V1 was occupied by the driver and one passenger. The driver was hospitalized with rib fractures and lung contusion. The passenger was hospitalized for a head injury and multiple abrasions and contusions. V1 was towed from the crash scene due to impact damage. V2 was a heavy truck that was towed from the scene.



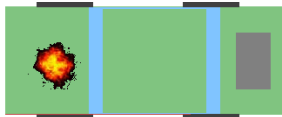
Vehicle	Body type	Make	Model	Year	Occ. #	Age	Occupant's sex	Maximum known occupant ais
1	3DR/2DR HATCHBAK	Pontiac	Firebird/Trans AM	2000	1	30	MALE	3=Serious
1	3DR/2DR HATCHBAK	Pontiac	Firebird/Trans AM	2000	1	26	FEMALE-NOT PREG	5=Critical

Occupant: 2001-73-39-1-1



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 < 0.5 KMPH
Est. δV with sequence number	>54 KMPH 1
CDC	9 L Y A W 3
Damage (C1-C6)	0 0 0 0 0 0
Crush (L and D)	0 0
Object Contacted 1	Not IN TRAN HVYVEH
Object Contacted 2	0

NASS Weighting Factor

Weighting factor	27.483
------------------	--------

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	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	ALCOHOL PRESENT
Alcohol Test (< 95 indicates BAC 0.xx)	5

Vehicle Factors

Make-Model	Pontiac Firebird/Trans AM
Year	2000
Class	PASSENGER CAR
Body Type	3DR/2DR HATCHBAK
Weight	151

Pre-Crash Driver Data

Accident Type	98
Pre-event Movement	GOING STRAIGHT
Critical Pre-crash Event	TRAVEL TOO FAST
Attempted Avoidance Manuever	STEERING RIGHT
Pre-impact Stability	LATERAL SKID-CLK
Pre-impact Location	Left TRAVEL LANE

DRIVER Factors

Age	30	Height	183	Weight	102
Gender			MALE		
Ejection			PARTIAL EJECTION		
Ejection Area			Left FRONT		
Entrapment			Not ENTRAPPED		

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	2001-73-39-1-1
MAIS	3=Serious
Seat Position	Front left side

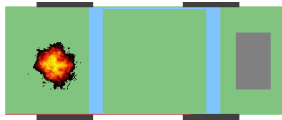
AIS Level	Injury Description	Contacts
3=Serious	Lung contusion, unilateral	Left interior
3=Serious	2-3 rib fractures with stable chest and hemo-/pneumothorax	Left interior
3=Serious	Symphysis pubis separation or fracture	Left hardware
1=Minor	Scalp laceration, minor	OMV unk exterior
1=Minor	Scrotal contusion (hematoma)	Left hardware
1=Minor	Facial skin abrasion	Flying glass
1=Minor	Upper extremity skin laceration, minor	Left apnel
1=Minor	Leg skin abrasion	Left interior
1=Minor	Leg skin contusion (hematoma)	Left interior

Occupant: 2001-73-39-1-2



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	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 < 0.5 KMPH
Est. δV with sequence number	>54 KMPH 1
CDC	9 L Y A W 3
Damage (C1-C6)	0 0 0 0 0 0
Crush (L and D)	0 0
Object Contacted 1	Not IN TRAN HVYVEH
Object Contacted 2	0

NASS Weighting Factor

Weighting factor	27.483
------------------	--------

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	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	ALCOHOL PRESENT
Alcohol Test (< 95 indicates BAC 0.xx)	5

Vehicle Factors

Make-Model	Pontiac Firebird/Trans AM
Year	2000
Class	PASSENGER CAR
Body Type	3DR/2DR HATCHBAK
Weight	151

Pre-Crash Driver Data

Accident Type	98
Pre-event Movement	GOING STRAIGHT
Critical Pre-crash Event	TRAVEL TOO FAST
Attempted Avoidance Manuever	STEERING RIGHT
Pre-impact Stability	LATERAL SKID-CLK
Pre-impact Location	Left TRAVEL LANE

PASSENGER Factors

Age	26	Height	0	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	BAG DEPLOYED
Airbag Deployment - 1 st Seat	ONLY PAS BAG DEP
Airbag Deployment - Oth Seat	Not EQUIP W/ OTH

Injuries

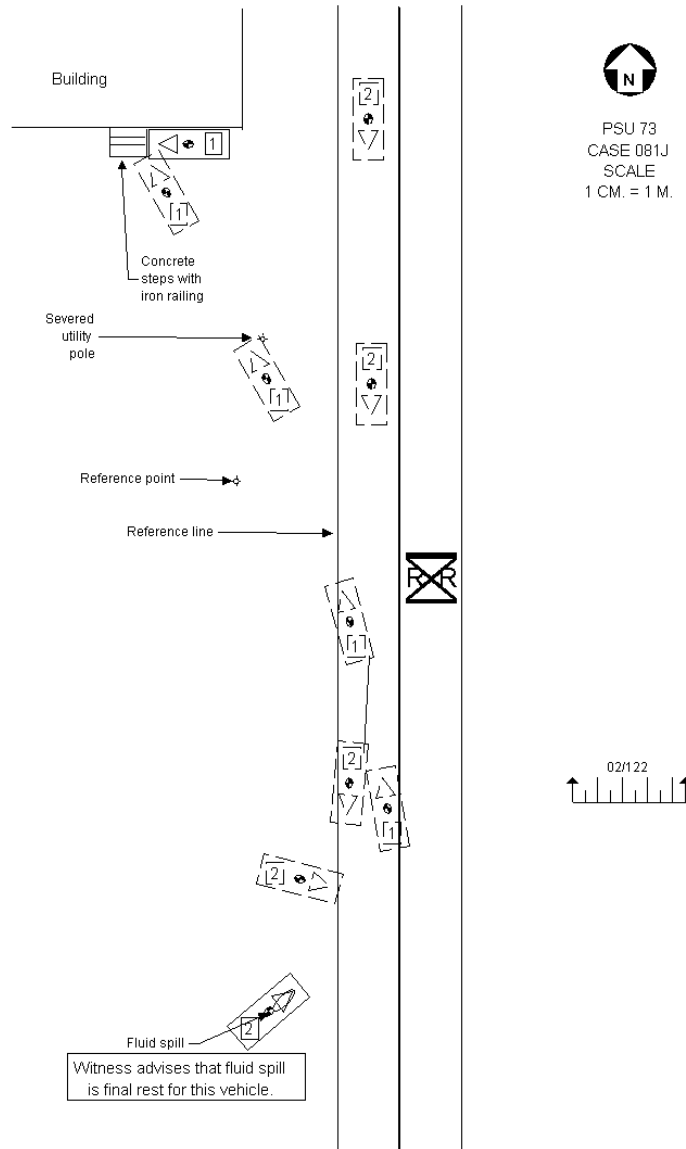
Occupant	2001-73-39-1-2
MAIS	5=Critical
Seat Position	Front right side

AIS Level	Injury Description	Contacts
5=Critical	Unconscious on admission, length 6-24 hours & neuro deficit	Right B pillar
1=Minor	Thoracic skin abrasion	Belt webb/buckle
1=Minor	Thoracic skin contusion	Belt webb/buckle
1=Minor	Abdominal skin abrasion	Belt webb/buckle
1=Minor	Abdominal skin contusion	Belt webb/buckle
1=Minor	Leg skin contusion (hematoma)	Transmiss lever
1=Minor	Leg skin abrasion	Transmiss lever
1=Minor	Upper extremity skin abrasion	Seat, back

62 Case 2001-73-81

Summary:

V1 was northbound on a two lane, two direction roadway. V2 was southbound on the same roadway. The front of V1 impacted the left side of V2 in the southbound lane of traffic. V2 then continued off the roadway to the left causing the front of V2 to strike concrete steps attached to a building. V1 spun approximately 150 degrees after impact leaving the roadway to the right and coming to rest off the roadway. Vehicle #1 was equipped with driver and Passenger airbags which deployed at impact ... The unrestrained driver of V1 was transported to a local trauma center for treatment of his injuries. The restrained driver of V2 was not injured. Both vehicles were towed from the scene due to damage.



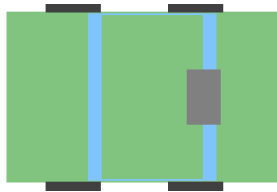
Vehicle	Body type	Make	Model	Year	Occ.#	Age	Occupant's sex	Maximum known occupant ais
1	COMPACT PICKUP	Dodge	Dakota	1999	1	26	MALE	2=Moderate
2	4-DR SEDAN/HDTOP	Oldsmobile	Aurora	1997	1	39	MALE	0=None

Occupant: 2001-73-81-1-1



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	< 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 D E W 2
Damage (C1-C6)	0 0 0 0 0 0
Crush (L and D)	0 0
Object Contacted 1	BUILDING
Object Contacted 2	VEHICLE NO. 2

NASS Weighting Factor

Weighting factor 64.898

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	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	NONINTER/NONJUNC
Traffic Control Device	
Police Reported Alcohol Presence	No ALCOHOL
Alcohol Test (< 95 indicates BAC 0.xx)	0

Vehicle Factors

Make-Model	Dodge Dakota
Year	1999
Class	Unknown
Body Type	COMPACT PICKUP
Weight	163

Pre-Crash Driver Data

Accident Type	64
Pre-event Movement	GOING STRAIGHT
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	26	Height	191	Weight	88
Gender			MALE		
Ejection			No EJECTION		
Ejection Area			No EJECTION		
Entrapment			Not ENTRAPPED		

Restraint Factors

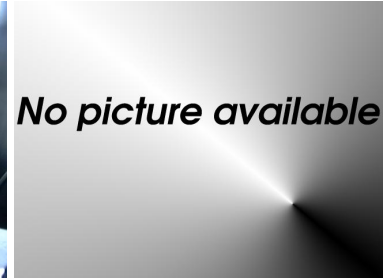
Restrain	None used/avail
AOPS	YES-RES DET
Airbag Deployment	BAG DEPLOYED
Airbag Deployment - 1 st Seat	DR
PAS BAG DEPLY	
Airbag Deployment - Oth Seat	Not EQUIP W/ OTH

Injuries

Occupant	2001-73-81-1-1
MAIS	2=Moderate
Seat Position	Front left side

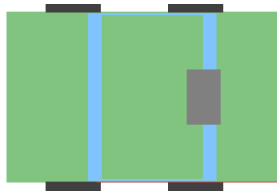
AIS Level	Injury Description	Contacts
2=Moderate	Awake on admission, amnesia	Windshld DR side
2=Moderate	Facial skin laceration, major (>10 cm & into sub-Q)	Windshld DR side
1=Minor	297602	Windshld DR side
1=Minor	Facial skin laceration, minor	Windshld DR side
1=Minor	Facial skin abrasion	Windshield
1=Minor	Facial skin abrasion	Windshield
1=Minor	Thoracic skin abrasion	Steering comb
1=Minor	Thoracic skin contusion	Steering comb
1=Minor	Upper extremity skin abrasion	Mirror
1=Minor	Upper extremity skin contusion	Mirror
1=Minor	Leg skin abrasion	Knee bolster
1=Minor	Leg skin contusion (hematoma)	Knee bolster
1=Minor	Upper extremity skin abrasion	Center panel
1=Minor	Upper extremity skin contusion	Center panel
1=Minor	Leg skin contusion (hematoma)	Steering rim

Occupant: 2001-73-81-2-1



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, 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	MODERATE 1
CDC	11 L Z E W 3
Damage (C1-C6)	0 0 0 0 0 0
Crush (L and D)	0 0
Object Contacted 1	VEHICLE NO. 1
Object Contacted 2	0

NASS Weighting Factor

Weighting factor 64.898

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	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	NONINTER/NONJUNC
Traffic Control Device	
Police Reported Alcohol Presence	No ALCOHOL
Alcohol Test (< 95 indicates BAC 0.xx)	0

Vehicle Factors

Make-Model	Oldsmobile Aurora
Year	1997
Class	PASSENGER CAR
Body Type	4-DR SEDAN/HDTOP
Weight	180

Pre-Crash Driver Data

Accident Type	65
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	39	Height	175	Weight	70
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

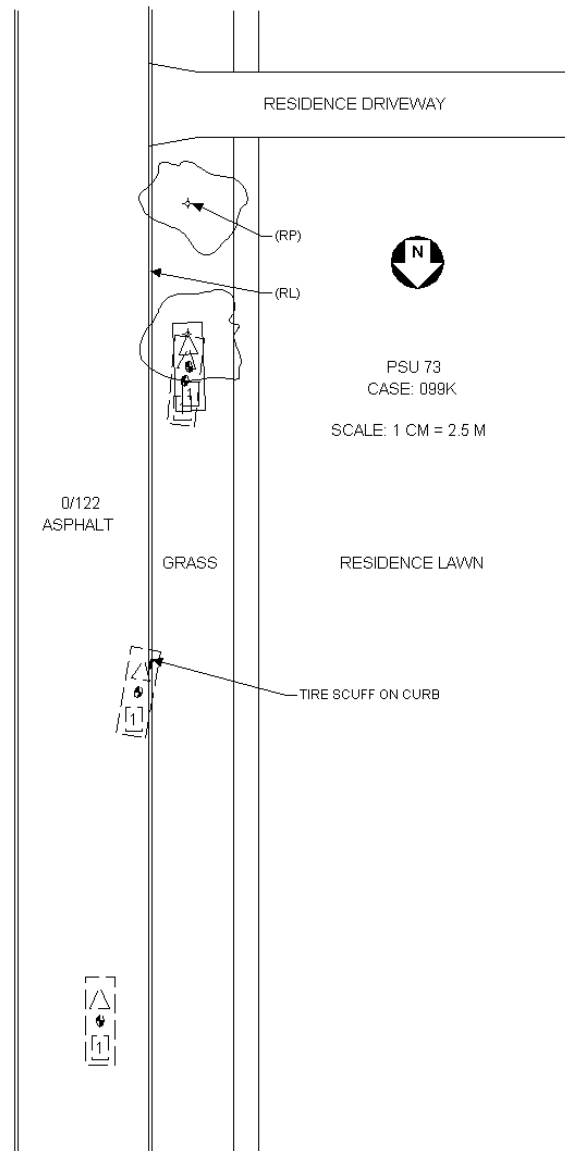
Occupant	2001-73-81-2-1
MAIS	0=None
Seat Position	Front left side

AIS Level	Injury Description	Contacts
-----------	--------------------	----------

63 Case 2001-73-99

Summary:

V1 was traveling south on a two way roadway in the southbound lane and exited the roadway right. V1 struck a tree with the front end and came to final rest there. A small fire was observed to ignite in the engine compartment. The fire was extinguished and the driver was pulled from the vehicle on through the passenger door. The driver door was jammed shut from the impact damage. The unrestrained driver was hospitalized for multiple nasal fractures as well as abrasions and contusions to the face and chest. The vehicle was 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	LARGE PICKUP	Ford	F-series P/U	1991	1	72	MALE	2=Moderate

Occupant: 2001-73-99-1-1



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	71
Total, Longitudal, and Lateral δV	71 -71 < 0.5 KMPH
Est. δV with sequence number	DELTA V CODED 1
CDC	12 F D E W 3
Damage (C1-C6)	0 76 79 75 68 5
Crush (L and D)	190 -13
Object Contacted 1	LARGE TREE
Object Contacted 2	0

NASS Weighting Factor

Weighting factor	38.385
------------------	--------

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	Ford F-series P/U
Year	1991
Class	TRUCK
Body Type	LARGE PICKUP
Weight	175

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	72	Height	163	Weight	89
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

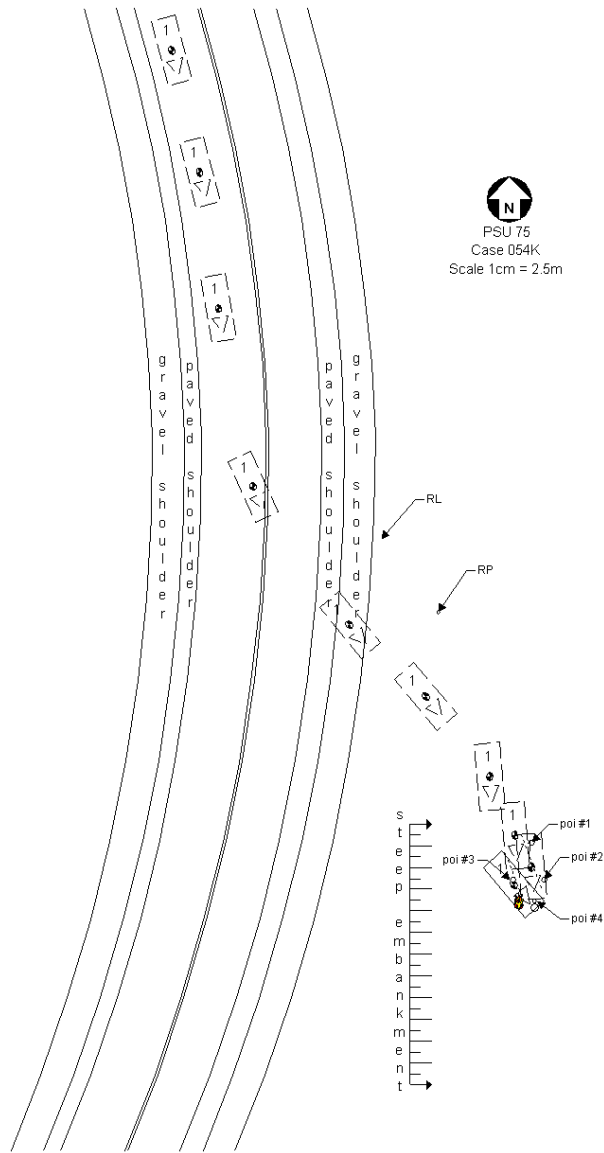
Occupant	2001-73-99-1-1
MAIS	2=Moderate
Seat Position	Front left side

AIS Level	Injury Description	Contacts
2=Moderate	Nose fracture, open/displaced/comminuted	Windshield
1=Minor	Conjunctiva injury	Windshield
1=Minor	Thoracic skin contusion	Steering comb
1=Minor	297402	Windshield
1=Minor	297402	Windshield
1=Minor	297202	Windshield
1=Minor	297602	Windshield
1=Minor	Facial skin abrasion	Windshield

64 Case 2001-75-54

Summary:

Vehicle #1 was traveling south on a rural two lane curved roadway. The vehicle lost control on a curve, traveled across the northbound lanes and shoulder, and left the roadway to the left. It traveled down a steep embankment contacting a stump with its left side, a tree with its left side, a stump with its right side, and another tree with its front. The vehicle came to rest facing southeast against the tree and then caught on fire. The vehicle was towed due to damage and the driver was hospitalized for one lower rib fracture and a left pneumothorax.



Vehicle	Body type	Make	Model	Year	Occ.#	Age	Occupant's sex	Maximum known occupant ais
1	4-DR SEDAN/HDTOP	Volvo	850	1997	1	38	FEMALE-NOT PREG	3=Serious

Occupant: 2001-75-54-1-1



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	Over center of the rear wheels
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	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	ALCOHOL PRESENT
Alcohol Test (< 95 indicates BAC 0.xx)	29

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 L Y A W 3
Damage (C1-C6)	2 7 19 15 8 3
Crush (L and D)	310 77
Object Contacted 1	LARGE TREE
Object Contacted 2	LARGE TREE

NASS Weighting Factor

Weighting factor	40.617
------------------	--------

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	Volvo 850
Year	1997
Class	PASSENGER CAR
Body Type	4-DR SEDAN/HDTOP
Weight	147

Pre-Crash Driver Data

Accident Type	7
Pre-event Movement	NEGOTIATE CURVE
Critical Pre-crash Event	OFF EDGE-LEFT
Attempted Avoidance Manuever	BRAKE+STEER RT
Pre-impact Stability	LONGITUDINAL SKID
Pre-impact Location	DEPARTED ROADWAY

DRIVER Factors

Age	38	Height	168	Weight	57
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	BAG DEPLOYED

Injuries

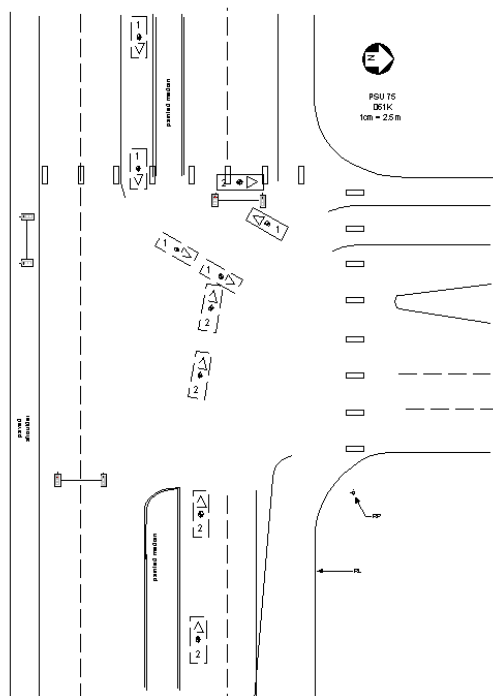
Occupant	2001-75-54-1-1
MAIS	3=Serious
Seat Position	Front left side

AIS Level	Injury Description	Contacts
3=Serious	Single rib fracture with hemo-/pneumothorax	Left hardware
1=Minor	Upper extremity skin laceration, minor	Air bag-DR side

65 Case 2001-75-61

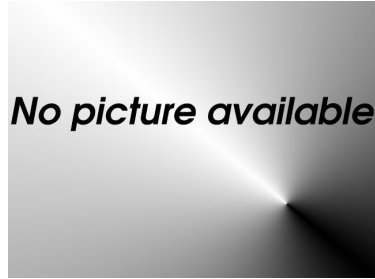
Summary:

V1 (a 4-door passenger car) was traveling eastbound on a 3-lane roadway in the number 3 lane. The number 3 lane is a left-turn lane. V2 (a 4-door passenger car) was traveling westbound on the same 3-lane roadway in the number 3 lane. V1 turned left. V1 was in the intersection in the left turn lane traveling north when the vehicles collided. V2 was westbound and skidded into lane 2 when the vehicles collided. The front of V2 struck the right side of V1. V1 came to final rest facing south. V2 came to final rest facing north. V1 did not have airbags. The airbag in V2 deployed. Both vehicles were towed due to damage. The driver of V2 was later treated for face and neck abrasions. The driver of V1 was hospitalized for several brain contusions and hemorrhages as well as facial lacerations.



Vehicle #	Body type	Make	Model	Year	Occ.#	Age	Occupant's sex	Maximum known occupant AIS
1	4-DR SEDAN/HDTOP	Chevrolet	Cavalier	1987	1	87	FEMALE-NOT PREG	5=Critical
2	4-DR SEDAN/HDTOP	Toyota	Camry	1993	1	19	MALE	1=Minor

Occupant: 2001-75-61-1-1



Fire Information

Fire Occurrence	No fire
Fire Origin	No fire
Location of Fuel Leakage	Other
Type of Fuel Tank	Metallic
Fuel Tank Location	Forward of rear axle, right side
Fuel Cap Location	Right 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	CURVE RIGHT
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	Chevrolet Cavalier
Year	1987
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	54 -27 -47
Est. δV with sequence number	DELTA V CODED 1
CDC	2 R Z E W 4
Damage (C1-C6)	2 47 67 59 27 4
Crush (L and D)	257 -21
Object Contacted 1	VEHICLE NO. 2
Object Contacted 2	0

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

NASS Weighting Factor

Weighting factor	39.373
------------------	--------

DRIVER Factors

Age	87	Height	155	Weight	61
Gender					FEMALE-NOT PREG
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	2001-75-61-1-1
MAIS	5=Critical
Seat Position	Front left side

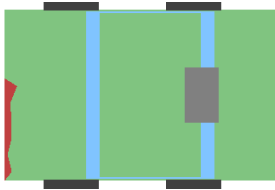
AIS Level	Injury Description	Contacts
5=Critical	Intracerebral hematoma, small, bilateral	Windshld PS side
3=Serious	Cerebral subarachnoid hemorrhage	Windshld PS side
3=Serious	Cerebral subarachnoid hemorrhage	Windshld PS side
3=Serious	Cerebral contusion, single, small (<30ccs)	Windshld PS side
2=Moderate	Lethargic on admission, never unconscious	Windshld PS side
1=Minor	Scalp laceration, minor	Windshld PS side
1=Minor	Facial skin laceration, minor	Windshield
1=Minor	Facial skin abrasion	Windshield
1=Minor	297602	Windshield
1=Minor	297402	Windshield
1=Minor	Facial skin laceration, minor	Windshield
1=Minor	Leg skin contusion (hematoma)	Right panel
1=Minor	Skin abrasion (body region unknown)	Unknown SOURCE
1=Minor	Leg skin contusion (hematoma)	Center panel
1=Minor	Upper extremity skin contusion	Right A pillar

Occupant: 2001-75-61-2-1



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, 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	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	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	42 -41 7
Est. δV with sequence number	DELTA V CODED 1
CDC	12 F D E W 1
Damage (C1-C6)	10 4 11 10 8 18
Crush (L and D)	151 0
Object Contacted 1	VEHICLE NO. 1
Object Contacted 2	0

NASS Weighting Factor

Weighting factor 39.373

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	Toyota Camry
Year	1993
Class	PASSENGER CAR
Body Type	4-DR SEDAN/HDTOP
Weight	134

Pre-Crash Driver Data

Accident Type	69
Pre-event Movement	NEGOTIATE CURVE
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	19	Height	152	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	BAG DEPLOYED
Airbag Deployment - 1 st Seat	DR BAG DEPLOYED
Airbag Deployment - Oth Seat	Not EQUIP W/ OTH

Injuries

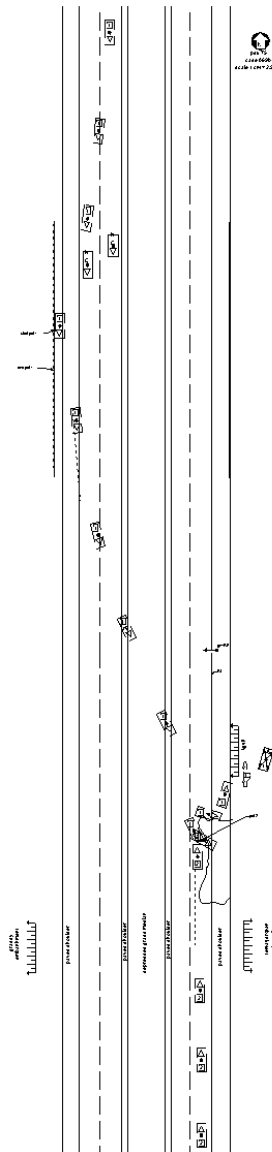
Occupant	2001-75-61-2-1
MAIS	1=Minor
Seat Position	Front left side

AIS Level	Injury Description	Contacts
1=Minor	Facial skin abrasion	Air bag-DR side
1=Minor	Neck skin abrasion	Air bag-DR side
1=Minor	Acute cervical spine strain without fracture or dislocation	Belt webb/buckle
1=Minor	Thoracic skin contusion	Belt webb/buckle

66 Case 2001-75-69

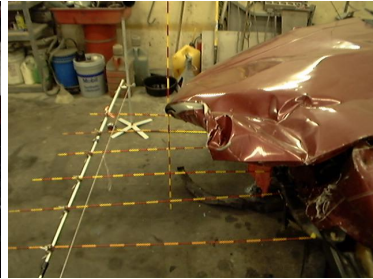
Summary:

Vehicle #1 was southbound on a 4 lane physically divided suburban road in the #2 through lane. The southbound side consists of two through lanes. Vehicle #2 was northbound on the same 4 lane suburban road in the #1 through lane. The northbound side also consists of two through lanes. Vehicle #1 lost control and crossed over onto the west shoulder of the road contacting the guardrail with its right side. Vehicle #1 then veered to the left, crossed the southbound lanes, and entered the depressed grass center median. Vehicle #1 became airborne as it exited the median on the northbound side. It travelled in a southeasterly direction across the northbound lanes. Vehicle #1 landed in the #2 lane of the northbound side, and the front of vehicle #1 contacted the front of vehicle #2. After the collision, vehicle #1 spun counter clockwise in an eastbound direction onto the grass shoulder, rolled over onto its top and came to rest facing northeast on the shoulder. Vehicle #2 rotated counter clockwise and came to rest facing east in the #1 through lane on the northbound side. After the collision both vehicles caught fire. Both fires were minor and extinguished at the scene. Both vehicles were towed due to damage. The single occupant of vehicle #1 was pronounced dead at the scene from unspecified head and chest injuries. The single occupant of vehicle #2 was transported and released with hand and finger fracture as well as minor abrasions and lacerations.



Vehicle	Body type	Make	Model	Year	Occ.#	Age	Occupant's sex	Maximum known occupant ais
1	2DR SEDAN/HT/CPE	Pontiac	Grand AM	1989	1	30	MALE	3=Serious
2	COMPACT UTILITY	Subaru	401	1999	1	38	MALE	2=Moderate

Occupant: 2001-75-69-1-1



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, right side
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	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	2 QUARTER TURNS
Impact Speed	998
Total, Longitudal, and Lateral δV	81 -80 -14
Est. δV with sequence number	DELTA V CODED 2
CDC	12 F D E W 4
Damage (C1-C6)	84 83 89 93 87 90
Crush (L and D)	150 0
Object Contacted 1	VEHICLE NO. 2
Object Contacted 2	ROLLOVER-OVERTRN

NASS Weighting Factor

Weighting factor	68.996
------------------	--------

Rollover Characteristics

Number of Events	5
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	Pontiac Grand AM
Year	1989
Class	PASSENGER CAR
Body Type	2DR SEDAN/HT/CPE
Weight	134

Pre-Crash Driver Data

Accident Type	2
Pre-event Movement	PASSING/OVERTAKE
Critical Pre-crash Event	TRAVEL TOO FAST
Attempted Avoidance Manuever	No DRIVER
Pre-impact Stability	No DRIVER
Pre-impact Location	DEPARTED ROADWAY

DRIVER Factors

Age	30	Height	180	Weight	77
Gender			MALE		
Ejection			No EJECTION		
Ejection Area			No EJECTION		
Entrapment			ENTRAPPED		

Restraint Factors

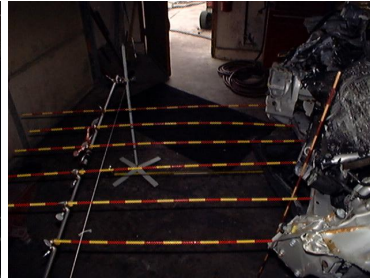
Restrain	None used/avail
AOPS	YES-RES DET
Airbag Deployment	Not EQUIP/AVAIL
Airbag Deployment - 1 st Seat	Not EQUIP/AVAIL
Airbag Deployment - Oth Seat	Not EQUIP W/ OTH

Injuries

Occupant	2001-75-69-1-1
MAIS	3=Serious
Seat Position	Front left side

AIS Level	Injury Description	Contacts
7=Unk. sev.	115999	Front header
2=Moderate	Rib cage fracture NFS	Steering comb
3=Serious	853405	Left apnel
2=Moderate	851605	Left apnel
2=Moderate	Scapular fracture	Steering rim
1=Minor	Scalp laceration, minor	Front header
1=Minor	297402	Front header
1=Minor	297402	Front header

Occupant: 2001-75-69-2-1



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, right side
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	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	77 -72 26
Est. δV with sequence number	DELTA V CODED 2
CDC	11 F D E W 5
Damage (C1-C6)	70 81 88 92 92 87
Crush (L and D)	150 0
Object Contacted 1	VEHICLE NO. 1
Object Contacted 2	0

NASS Weighting Factor

Weighting factor	68.996
------------------	--------

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	Subaru 401
Year	1999
Class	TRUCK
Body Type	COMPACT UTILITY
Weight	141

Pre-Crash Driver Data

Accident Type	98
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	38	Height	183	Weight	89
Gender			MALE		
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

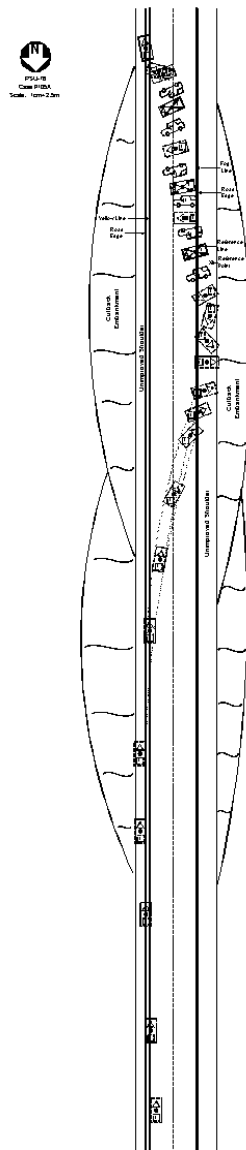
Occupant	2001-75-69-2-1
MAIS	2=Moderate
Seat Position	Front left side

AIS Level	Injury Description	Contacts
2=Moderate	Carpus or metacarpus fracture	Left apnel
2=Moderate	Carpus or metacarpus fracture	Left apnel
1=Minor	Leg skin laceration, minor	Knee bolster
1=Minor	Leg skin contusion (hematoma)	Knee bolster
1=Minor	Facial skin contusion	Bag-DR side+eyew
1=Minor	Upper extremity skin abrasion	Left apnel
1=Minor	Upper extremity skin contusion	Air bag-DR side
1=Minor	Thoracic skin contusion	Belt webb/buckle
1=Minor	Leg skin contusion (hematoma)	Floor

67 Case 2001-76-105

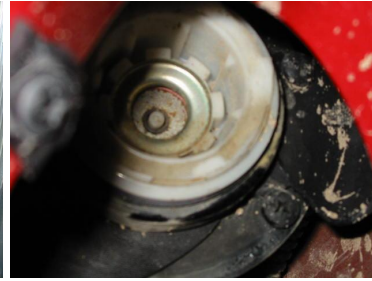
Summary:

This crash occurred on a straight, downgrade section of the southbound lanes of a four-lane divided highway located in a mountainous area with numerous hills and curves. The crash occurred during daylight hours with no adverse weather conditions. Vehicle #1, a 1999 Jeep Wrangler, was southbound in the #2 lane when it departed the left road edge, re-entered the roadway yawing clockwise and departed the right road edge. After departing the right road edge, vehicle #1 struck a cutback embankment with its front plane; rotated clockwise, struck the embankment with its back plane; tripped and rolled 3 revolutions coming to rest with its left wheels in the #2 lane facing south. During the event, the driver's seat back broke and as the vehicle rolled over the driver slipped out of the seat belt and was ejected. During this event the chest and abdomen of the driver was caught between the ground and the rollbar. Vehicle #1 was towed due to damage. The driver of vehicle #1 was fatal at the scene with brain stem and basilar artery transection, heart atrial septum laceration, multiple fractures to the base of the skull, ribs and cervical spine as well as lung, liver and spleen injuries.



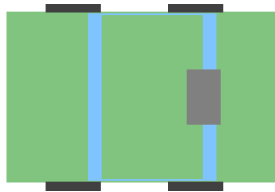
Vehicle	Body type	Make	Model	Year	Occ. #	Age	Occupant's sex	Maximum known occupant ais
1	COMPACT UTILITY	Jeep	YJ-Wrangler	1999	1	19	FEMALE-NOT PREG	6=Maximum

Occupant: 2001-76-105-1-1



Fire Information

Fire Occurrence	No fire
Fire Origin	No fire
Location of Fuel Leakage	Cap
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



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	MODERATE 3
CDC	0 T D D O O
Damage (C1-C6)	0 0 0 0 0 0
Crush (L and D)	0 0
Object Contacted 1	ROLLOVER-OVERTRN
Object Contacted 2	EMBANKMENT

NASS Weighting Factor

Weighting factor 124.122

Rollover Characteristics

Number of Events	3
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	DVDED/NO BARRIER
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	Jeep YJ-Wrangler
Year	1999
Class	TRUCK
Body Type	COMPACT UTILITY
Weight	150

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	19	Height	178	Weight	103
Gender					FEMALE-NOT PREG
Ejection					COMPLETE EJECT
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

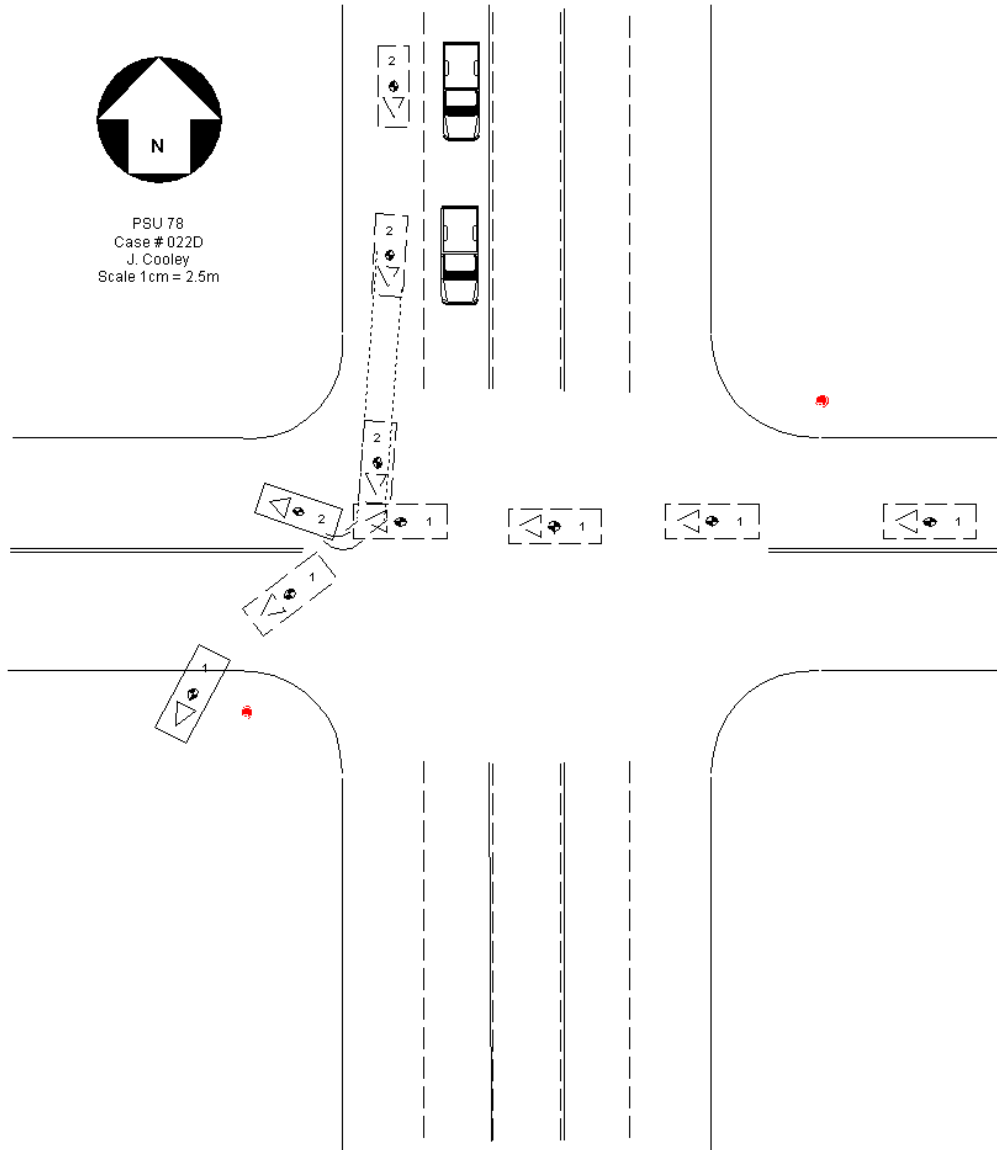
Occupant	2001-76-105-1-1
MAIS	6=Maximum
Seat Position	Front left side

AIS Level	Injury Description	Contacts
6=Maximum	140218	Ground
5=Critical	Basilar artery laceration	Ground
5=Critical	Intraventricular or intra-atrial septal laceration/rupture	Roof
4=Severe	Lung laceration, unilateral, with hemomediastinum	Roof
4=Severe	Basilar skull fracture, open, with brain tissue loss.	Ground
2=Moderate	Cervical vertebral body fracture, no cord injury NFS	Ground
2=Moderate	Cervical vertebral body fracture, no cord injury NFS	Ground
3=Serious	Rib fractures (=>1 rib), open/displaced/comminuted	Roof
2=Moderate	Sternal fracture	Roof
5=Critical	Massive hepatic injury (>50% laceration)	Splenic laceration, moderate (>3 cms deep, no hilar injury)
Roof		
2=Moderate	Pelvic fracture NFS	Belt webb/buckle
2=Moderate	Laryngeal laceration without perforation, mucosal tear	Belt webb/buckle
1=Minor	Scalp laceration, minor	Ground
1=Minor	Scalp abrasion	Ground
1=Minor	Scalp contusion	Ground
1=Minor	Scalp abrasion	Ground
1=Minor	Scalp laceration, minor	Ground
1=Minor	Facial skin abrasion	Ground
1=Minor	Facial skin contusion	Ground
1=Minor	Facial skin abrasion	Ground
1=Minor	Neck skin abrasion	Belt webb/buckle
1=Minor	Thoracic skin contusion	Roof
1=Minor	Thoracic skin abrasion	Belt webb/buckle
1=Minor	Thoracic skin abrasion	Belt webb/buckle
1=Minor	Abdominal skin abrasion	Belt webb/buckle
1=Minor	690202	Ground
1=Minor	Leg skin abrasion	Belt webb/buckle
1=Minor	Upper extremity skin abrasion	Air bag-DR side
1=Minor	Upper extremity skin contusion	Left apnel
1=Minor	Leg skin abrasion	Ground

68 Case 2001-78-22

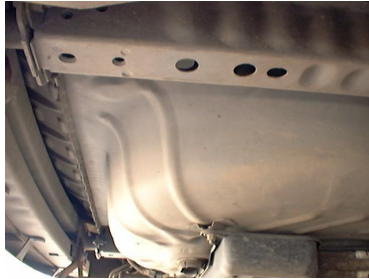
Summary:

Vehicle 1 was proceeding westbound toward the late afternoon sun from a stopsign on an urban 2-lane level dry bituminous roadway crossing an urban 5 lane dry level bituminous roadway. Vehicle 2 was southbound in the number 1 lane on the 5 lane roadway. The right side of vehicle 1 and the front of vehicle 2 collided in the number 1 southbound lane. Vehicle 1 entered a counter-clockwise yaw then rolled in a generally southwest direction coming to rest off the south edge of the westbound roadway. Vehicle 2 entered a clockwise yaw and came to rest in the westbound lane of the westbound road facing generally west. The unrestrained driver of vehicle 1 was not treated or transported. The restrained driver of vehicle 2 was transported and released. Both vehicles were towed due to damage.



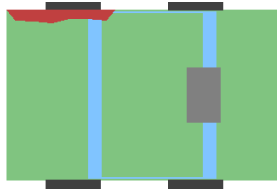
Vehicle	Body type	Make	Model	Year	Occ.#	Age	Occupant's sex	Maximum known occupant ais
1	4-DR SEDAN/HDTOP	Ford	Taurus	1997	1	19	FEMALE-NOT PREG	1=Minor
2	4-DR SEDAN/HDTOP	Dodge	20	1996	1	17	MALE	1=Minor

Occupant: 2001-78-22-1-1



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	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 -15 -9
Est. δV with sequence number	DELTA V CODED 1
CDC	1 R Y E W 3
Damage (C1-C6)	15 16 18 12 12 15
Crush (L and D)	160 124
Object Contacted 1	VEHICLE NO. 2
Object Contacted 2	0

NASS Weighting Factor

Weighting factor 130.98

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 Taurus
Year	1997
Class	PASSENGER CAR
Body Type	4-DR SEDAN/HDTOP
Weight	151

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	19	Height	170	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	BAG DEPLOYED
Airbag Deployment - 1 st Seat	DR
PAS BAG DEPLY	
Airbag Deployment - Oth Seat	Not EQUIP W/ OTH

Injuries

Occupant	2001-78-22-1-1
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	Air bag-DR side
1=Minor	Acute cervical spine strain without fracture or dislocation	Air bag-DR side
1=Minor	Scalp contusion	Roof
1=Minor	Leg skin contusion (hematoma)	Seat, back

Occupant: 2001-78-22-2-1



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	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 -11 20
Est. δV with sequence number	DELTA V CODED 1
CDC	10 F D E W 2
Damage (C1-C6)	12 20 28 38 35 33
Crush (L and D)	144 0
Object Contacted 1	VEHICLE NO. 1
Object Contacted 2	0

NASS Weighting Factor

Weighting factor	130.98
------------------	--------

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	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

Vehicle Factors

Make-Model	Dodge 20
Year	1996
Class	PASSENGER CAR
Body Type	4-DR SEDAN/HDTOP
Weight	106

Pre-Crash Driver Data

Accident Type	86
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	STAYED IN LANE

DRIVER Factors

Age	17	Height	180	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	2001-78-22-2-1
MAIS	1=Minor
Seat Position	Front left side

AIS Level	Injury Description	Contacts
1=Minor	Upper extremity skin abrasion	Belt webb/buckle
1=Minor	Acute cervical spine strain without fracture or dislocation	Belt webb/buckle
1=Minor	Thoracic skin abrasion	Belt webb/buckle
1=Minor	Upper extremity skin abrasion	Center panel
1=Minor	690402	Seat, back
1=Minor	Leg skin abrasion	Belt webb/buckle
1=Minor	Leg skin contusion (hematoma)	Belt webb/buckle
1=Minor	Upper extremity skin contusion	Belt webb/buckle
1=Minor	Upper extremity skin contusion	Left interior

69 Case 2001-78-24

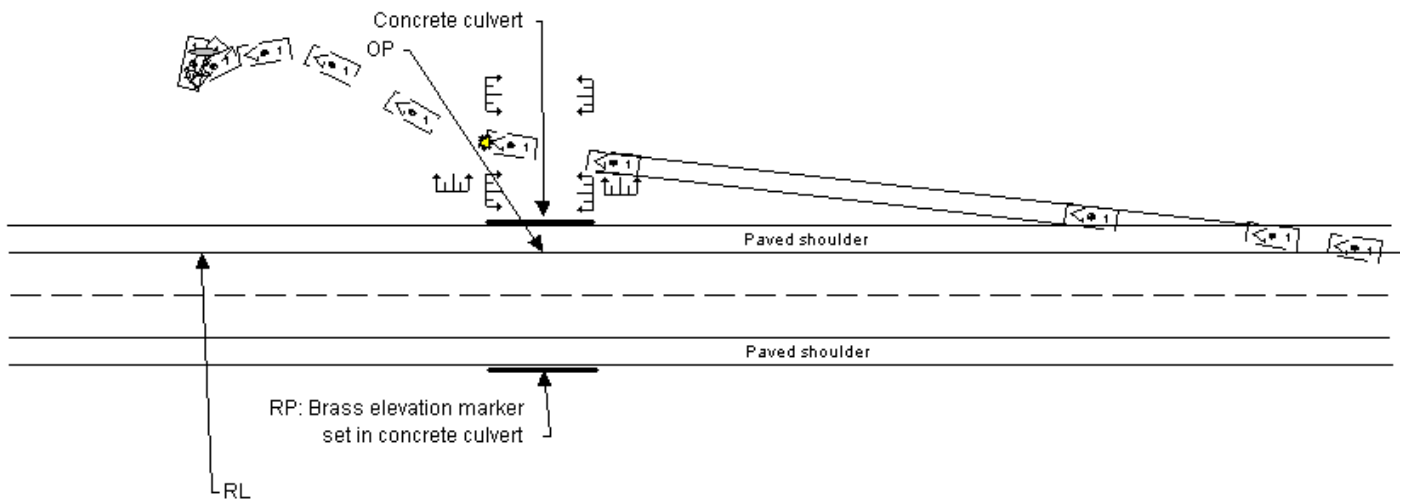
Summary:

Vehicle 1 was going west on a rural, 2-lane, dry, level, bituminous roadway with no traffic controls present. Vehicle 1 left the right edge of the roadway, became airborne, struck a dirt embankment then rolled to a stop in a generally south heading. The unrestrained driver and unrestrained passenger were transported and hospitalized. The vehicle was towed due to severe front end damage.



Case #: 024K
 PSU 78
 Scale: 1 cm = 6m

Open Desert



Open Desert

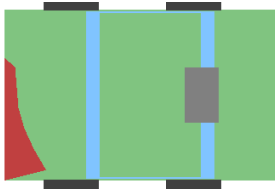
Vehicle	Body type	Make	Model	Year	Occ.#	Age	Occupant's sex	Maximum known occupant ais
1	LARGE PICKUP	Chevrolet	C/K-series Pickup	1969	1	52	MALE	2=Moderate
1	LARGE PICKUP	Chevrolet	C/K-series Pickup	1969	2	48	MALE	1=Minor

Occupant: 2001-78-24-1-1



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	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	37 -36 6
Est. δV with sequence number	DELTA V CODED 1
CDC	12 F D E W 3
Damage (C1-C6)	61 43 29 20 18 15
Crush (L and D)	180 0
Object Contacted 1	DITCH/CULVERT
Object Contacted 2	0

NASS Weighting Factor

Weighting factor 64.206

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	Chevrolet C/K-series Pickup
Year	1969
Class	TRUCK
Body Type	LARGE PICKUP
Weight	184

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	173	Weight	73
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	2001-78-24-1-1
MAIS	2=Moderate
Seat Position	Front left side

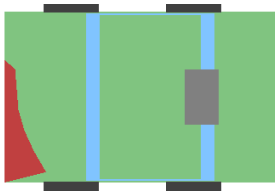
AIS Level	Injury Description	Contacts
2=Moderate	Lumbar fracture of vertebral body <201=Minor	Facial skin laceration, minor
Steering rim 1=Minor	Thoracic skin contusion	Steering comb

Occupant: 2001-78-24-1-2



Fire Information

Fire Occurrence	No fire
Fire Origin	No fire
Location of Fuel Leakage	Filler neck
Type of Fuel Tank	Metallic
Fuel Tank Location	Other (will specify)
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	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 -36 6
Est. δV with sequence number	DELTA V CODED 1
CDC	12 F D E W 3
Damage (C1-C6)	61 43 29 20 18 15
Crush (L and D)	180 0
Object Contacted 1	DITCH/CULVERT
Object Contacted 2	0

NASS Weighting Factor

Weighting factor	64.206
------------------	--------

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	Chevrolet C/K-series Pickup
Year	1969
Class	TRUCK
Body Type	LARGE PICKUP
Weight	184

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	48	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

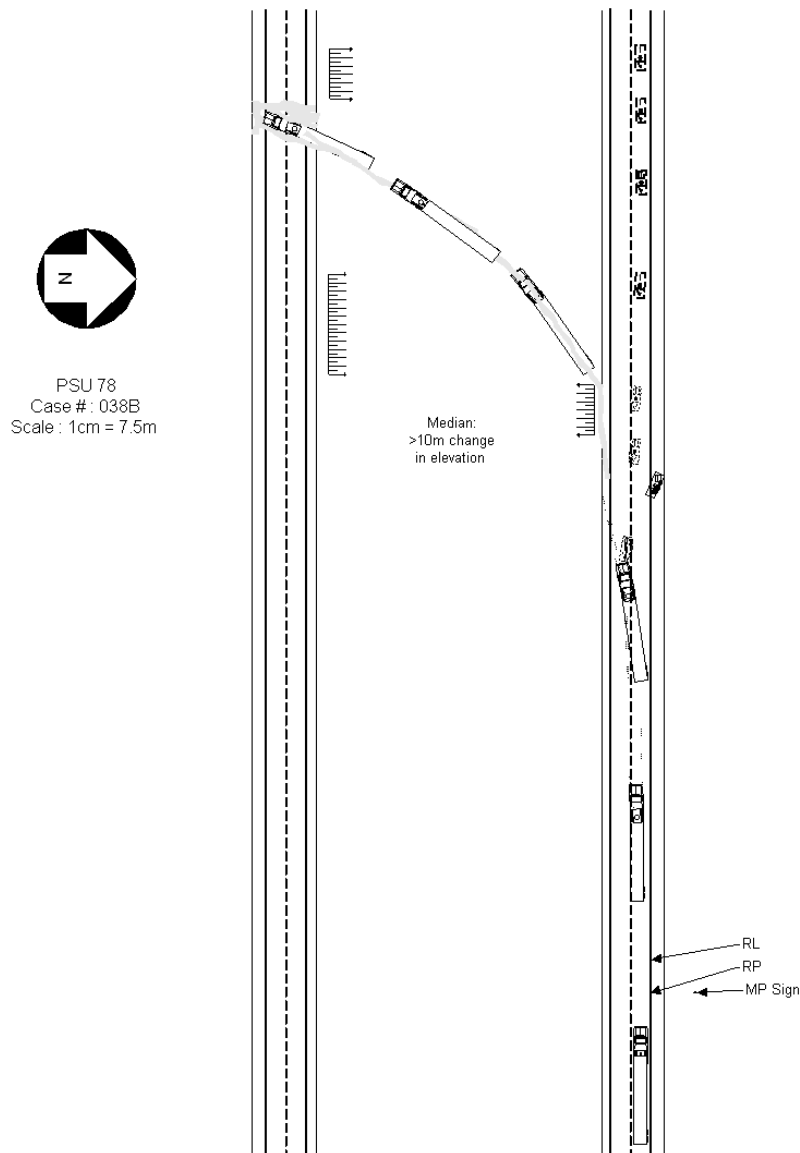
Occupant	2001-78-24-1-2
MAIS	1=Minor
Seat Position	Front right side

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

70 Case 2001-78-38

Summary:

This collision occurred at 0200 hours on a rural divided Interstate highway with two travel lanes in each direction and a posted speed limit of 121 KmPH (e.g. 75 MPH). Vehicle one, a 1989 Ford 2-door sedan was going eastbound in the westbound lanes (e.g. traveling the wrong way) up a slight grade, and in lane number one. Vehicle two, 1996 Freightliner Tractor hauling one trailer was going westbound and down a slight grade also in lane number one. The roadway surface was dry and made of asphalt. At the time of the crash it was dark with no artificial lighting and the weather was clear. When the driver of vehicle two observed vehicle one in lane number one the driver of vehicle two braked and steered left. Vehicle one's driver steered right. Vehicle one and vehicle two impacted head-on in the number two travel lane. The right front of vehicle two lifted off of the ground as it overrode vehicle one. Vehicle one entered a clockwise rotation as it was pushed rearward and came to final rest straddling the painted north edge line of the westbound roadway and facing generally southeast. Vehicle two departed the left shoulder of the westbound travel lanes, crossed a median that has significant change in elevation, down and then up. Vehicle two continued forward onto the eastbound roadway, and came to final rest facing south across both eastbound traffic lanes. Vehicle two's right gas tank was ruptured from the initial impact with vehicle one and both vehicles caught fire at that time. A witness that came upon vehicle one after it came to final rest was able to extinguish the fire in its engine compartment before it got out of control. The magnitude of the fire in vehicle two was such that it could not be extinguished and vehicle two was utterly consumed by fire. Both vehicles were towed due to damage. The unrestrained driver of vehicle one and unrestrained occupants three and four were flown by air life helicopter to a local trauma hospital and hospitalized. The front right passenger of vehicle one (e.g. occupant two) was dead at the scene. The restrained driver and four additional occupants of vehicle two were transported to a local trauma hospital and were treated and released.



Vehicle	Body type	Make	Model	Year	Occ.#	Age	Occupant's sex	Maximum known occupant ais
1	3DR/2DR HATCHBAK	Ford	Probe	1989	1	27	MALE	1=Minor
1	3DR/2DR HATCHBAK	Ford	Probe	1989	2	33	MALE	7=Unk. sev.
1	3DR/2DR HATCHBAK	Ford	Probe	1989	3	LESS THAN ONE YR	MALE	3=Serious
1	3DR/2DR HATCHBAK	Ford	Probe	1989	4	LESS THAN ONE YR	MALE	2=Moderate

Occupant: 2001-78-38-1-1



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	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	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	SEVERE 1
CDC	12 F D A W 6
Damage (C1-C6)	46 60 67 69 72 83
Crush (L and D)	150 0
Object Contacted 1	VEHICLE NO. 2
Object Contacted 2	0

NASS Weighting Factor

Weighting factor	65.983
------------------	--------

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 Probe
Year	1989
Class	PASSENGER CAR
Body Type	3DR/2DR HATCHBAK
Weight	123

Pre-Crash Driver Data

Accident Type	52
Pre-event Movement	GOING STRAIGHT
Critical Pre-crash Event	Oth CRIT EVENT
Attempted Avoidance Manuever	STEERING RIGHT
Pre-impact Stability	No DRIVER
Pre-impact Location	Left TRAVEL LANE

DRIVER Factors

Age	27	Height	175	Weight	35
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	2001-78-38-1-1
MAIS	1=Minor
Seat Position	Front left side

AIS Level	Injury Description	Contacts
1=Minor	Upper extremity skin laceration, minor	Left apnel
1=Minor	Leg skin laceration, minor	Left apnel
7=Unk. sev.	215099	Unknown SOURCE
7=Unk. sev.	Abdominal injury, blunt	Unknown SOURCE

Occupant: 2001-78-38-1-2



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	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	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	SEVERE 1
CDC	12 F D A W 6
Damage (C1-C6)	46 60 67 69 72 83
Crush (L and D)	150 0
Object Contacted 1	VEHICLE NO. 2
Object Contacted 2	0

NASS Weighting Factor

Weighting factor	65.983
------------------	--------

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 Probe
Year	1989
Class	PASSENGER CAR
Body Type	3DR/2DR HATCHBAK
Weight	123

Pre-Crash Driver Data

Accident Type	52
Pre-event Movement	GOING STRAIGHT
Critical Pre-crash Event	Oth CRIT EVENT
Attempted Avoidance Manuever	STEERING RIGHT
Pre-impact Stability	No DRIVER
Pre-impact Location	Left TRAVEL LANE

PASSENGER Factors

Age	33	Height	163	Weight	77
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	2001-78-38-1-2
MAIS	7=Unk. sev.
Seat Position	Front right side

AIS Level	Injury Description	Contacts
-----------	--------------------	----------

Occupant: 2001-78-38-1-3



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	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	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	SEVERE 1
CDC	12 F D A W 6
Damage (C1-C6)	46 60 67 69 72 83
Crush (L and D)	150 0
Object Contacted 1	VEHICLE NO. 2
Object Contacted 2	0

NASS Weighting Factor

Weighting factor	65.983
------------------	--------

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 Probe
Year	1989
Class	PASSENGER CAR
Body Type	3DR/2DR HATCHBAK
Weight	123

Pre-Crash Driver Data

Accident Type	52
Pre-event Movement	GOING STRAIGHT
Critical Pre-crash Event	Oth CRIT EVENT
Attempted Avoidance Manuever	STEERING RIGHT
Pre-impact Stability	No DRIVER
Pre-impact Location	Left TRAVEL LANE

PASSENGER Factors

Age	LESS THAN ONE YR	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	2001-78-38-1-3
MAIS	3=Serious
Seat Position	Second left

AIS Level	Injury Description	Contacts
3=Serious	Femur fracture NFS	Unknown SOURCE

Occupant: 2001-78-38-1-4



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	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	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	SEVERE 1
CDC	12 F D A W 6
Damage (C1-C6)	46 60 67 69 72 83
Crush (L and D)	150 0
Object Contacted 1	VEHICLE NO. 2
Object Contacted 2	0

NASS Weighting Factor

Weighting factor	65.983
------------------	--------

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 Probe
Year	1989
Class	PASSENGER CAR
Body Type	3DR/2DR HATCHBAK
Weight	123

Pre-Crash Driver Data

Accident Type	52
Pre-event Movement	GOING STRAIGHT
Critical Pre-crash Event	Oth CRIT EVENT
Attempted Avoidance Manuever	STEERING RIGHT
Pre-impact Stability	No DRIVER
Pre-impact Location	Left TRAVEL LANE

PASSENGER Factors

Age	LESS THAN ONE YR	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

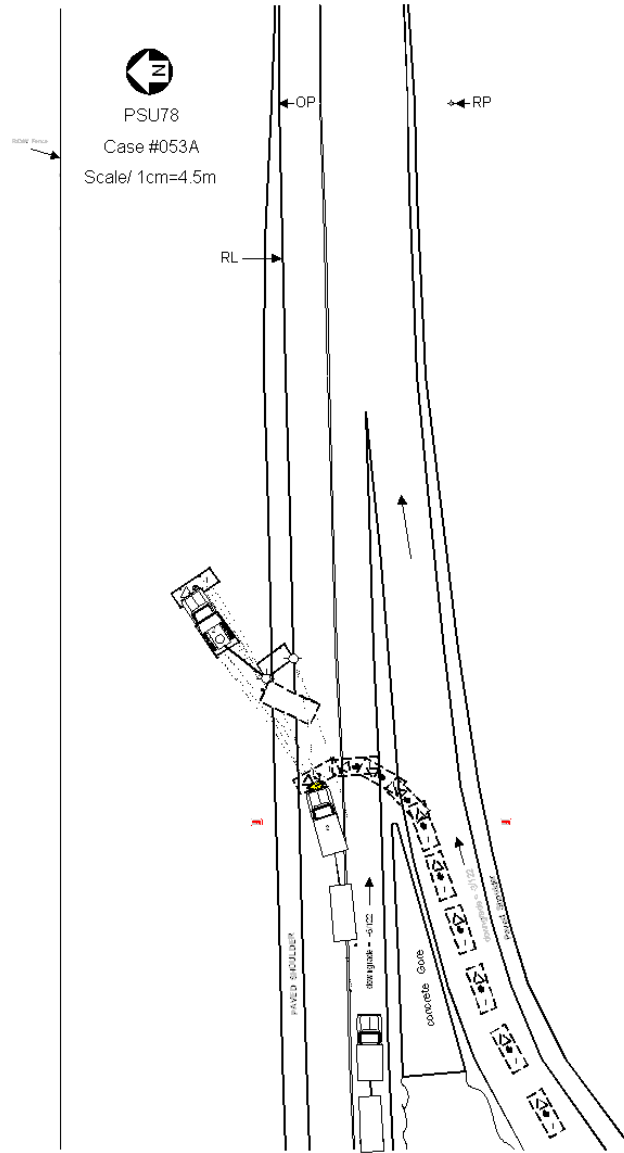
Occupant	2001-78-38-1-4
MAIS	2=Moderate
Seat Position	Second right

AIS Level	Injury Description	Contacts
2=Moderate	Arm, forearm, hand fracture NFS	Unknown SOURCE
1=Minor	Scalp laceration, NFS	Unknown SOURCE

71 Case 2001-78-53

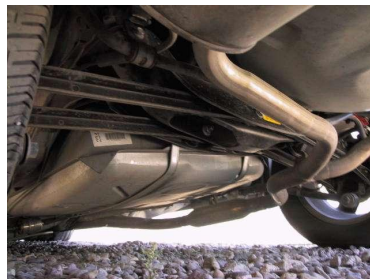
Summary:

This crash involves an empty 2001 Peterbilt dump truck pulling an empty dumpt trailer in a T-Bone collision with a passenger vehicle. The passenger vehicle was exiting an interstate roadway from the westbound exit ramp that curved right and converged with a 2-lane, rural, bituminous, dry, roadway with a -2.4



Vehicle #	Body type	Make	Model	Year	Occ.#	Age	Occupant's sex	Maximum known occupant ais
1	4-DR SEDAN/HDTOP	Chevrolet	Lumina	1998	1	78	MALE	2=Moderate

Occupant: 2001-78-53-1-1



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	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 < 0.5 KMPH
Est. δV with sequence number	DELTA V CODED 1
CDC	90 L Y A W 4
Damage (C1-C6)	0 26 54 50 24 0
Crush (L and D)	354 99
Object Contacted 1	VEHICLE NO. 2
Object Contacted 2	0

NASS Weighting Factor

Weighting factor	51.428
------------------	--------

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	ONE
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	INTERCHANGE REL
Traffic Control Device	
Police Reported Alcohol Presence	No ALCOHOL
Alcohol Test (< 95 indicates BAC 0.xx)	0

Vehicle Factors

Make-Model	Chevrolet Lumina
Year	1998
Class	PASSENGER CAR
Body Type	4-DR SEDAN/HDTOP
Weight	151

Pre-Crash Driver Data

Accident Type	98
Pre-event Movement	MAKING U-TURN
Critical Pre-crash Event	OVER LINE-LEFT
Attempted Avoidance Manuever	No DRIVER
Pre-impact Stability	TRACKING
Pre-impact Location	Left TRAVEL LANE

DRIVER Factors

Age	78	Height	165	Weight	73
Gender			MALE		
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

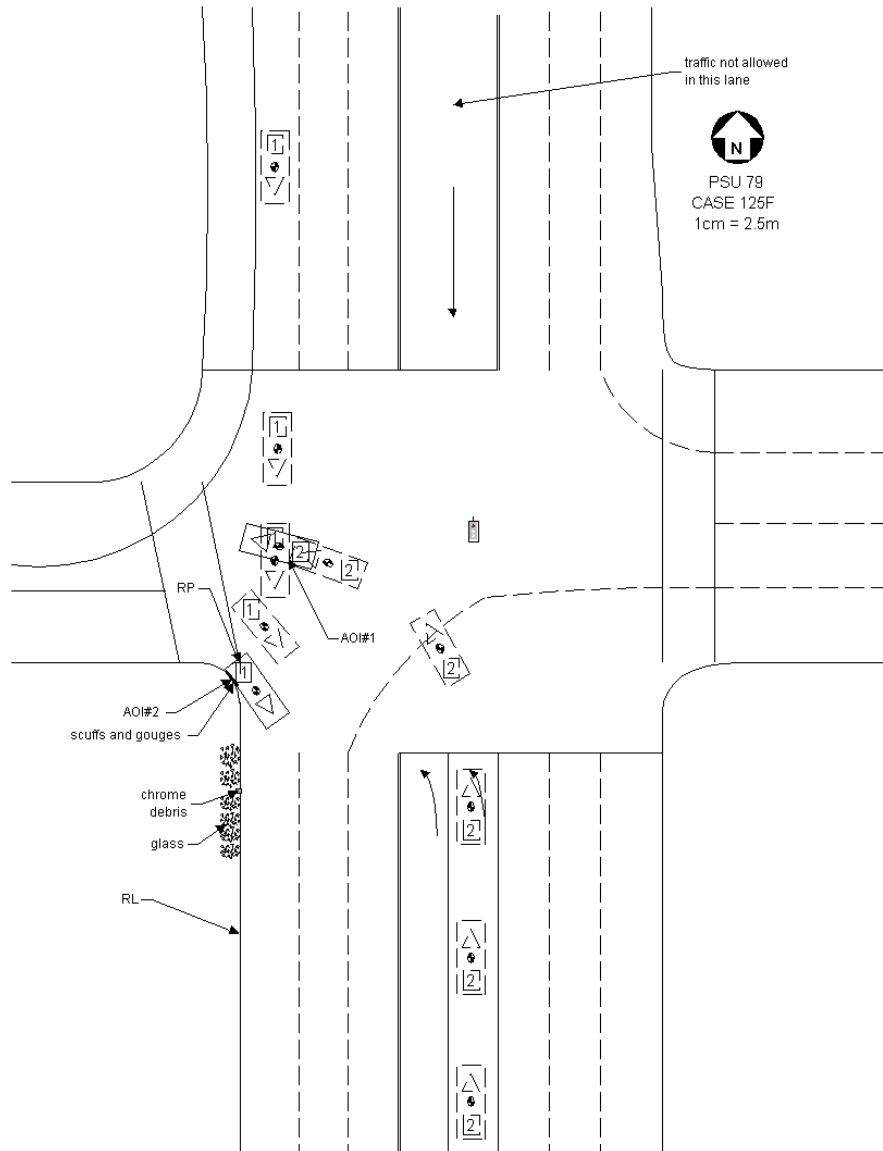
Occupant	2001-78-53-1-1
MAIS	2=Moderate
Seat Position	Front left side

AIS Level	Injury Description	Contacts
2=Moderate	Rib cage fracture NFS	Unknown SOURCE
7=Unk. sev.	Blunt chest trauma NFS	Unknown SOURCE

72 Case 2001-79-125

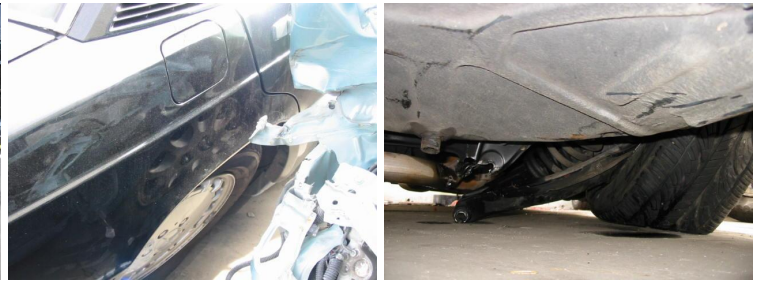
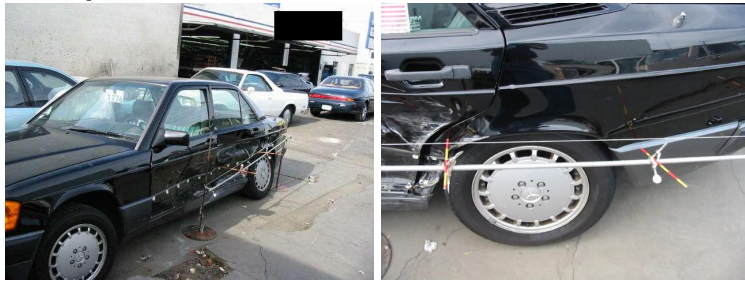
Summary:

Vehicle one was traveling south in the number two lane of a seven lane, dry, level, undivided, asphalt roadway. Vehicle two was traveling north in the number four lane of an eight lane, dry, level, undivided, asphalt roadway. As vehicle two attempted to make a left-hand turn towards the west, its front plane contacted the left plane of vehicle one. Vehicle one then rotated counter-clockwise until its right rear tire contacted the southwest curb. Vehicle one suffered major damage and was towed. Vehicle two suffered moderate damage and was not towed. Occupant one of vehicle one received visible non-incapacitating injuries.



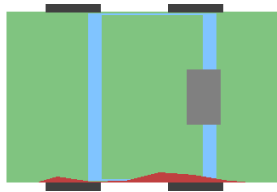
Vehicle	Body type	Make	Model	Year	Occ.#	Age	Occupant's sex	Maximum known occupant ais
1	4-DR SEDAN/HDTOP	Mercedes	190	1993	1	35	FEMALE-NOT PREG	1=Minor

Occupant: 2001-79-125-1-1



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, right side
Fuel Cap Location	Right side, behind rear axle
Fuel Tank Damage	Fill neck separation
Fuel Type	Gasoline



Crash Severity

Nr. Quarter Turns	No rollover
Impact Speed	998
Total, Longitudal, and Lateral δV	14 -11 9
Est. δV with sequence number	DELTA V CODED 1
CDC	11 L P E W 3
Damage (C1-C6)	8 1 2 14 10 2
Crush (L and D)	303 -63
Object Contacted 1	VEHICLE NO. 2
Object Contacted 2	CURB

NASS Weighting Factor

Weighting factor 14.468

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	SEVEN OR MORE
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	Mercedes 190
Year	1993
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	CROSS OVER INTER
Attempted Avoidance Manuever	No DRIVER
Pre-impact Stability	TRACKING
Pre-impact Location	STAYED IN LANE

DRIVER Factors

Age	35	Height	163	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

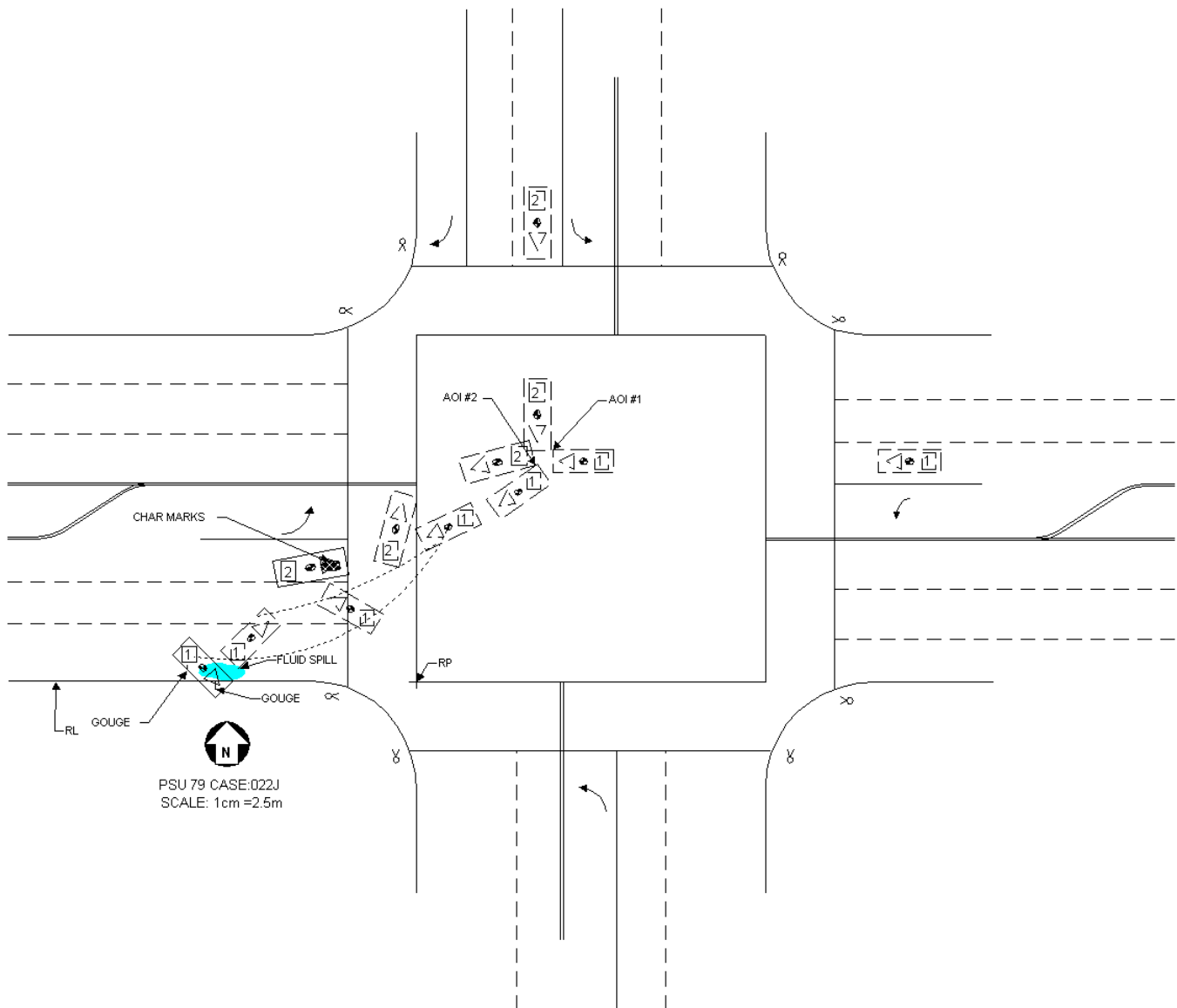
Occupant	2001-79-125-1-1
MAIS	1=Minor
Seat Position	Front left side

AIS Level	Injury Description	Contacts
1=Minor	Neck skin abrasion	Flying glass
1=Minor	Facial skin laceration, minor	Flying glass

73 Case 2001-79-22

Summary:

Vehicle one was traveling west in the number three lane of a seven lane, dry, level, undivided, asphalt roadway. Vehicle two was traveling south in the number two lane on a seven lane, dry, level, undivided, asphalt roadway. As both vehicles approached the tri-light controlled intersection the front of vehicle one contacted the left side of vehicle one. Both vehicles continued in a southwest course, where the right side of vehicle one contacted the left side of vehicle two. Both vehicles continued in a south west direction where the right side of vehicle one contacted a fixed curb on the south side of the east/west roadway. Vehicle two came to rest in the number three and four lanes where the car caught fire. Both vehicles were towed due to damage. The driver of vehicle one was transported with severe, incapacitating injuries. The driver of vehicle two was transported with visible, non-incapacitating injuries. Occupant number two in vehicle two was transported with severe, incapacitating injuries. Occupant number three in vehicle two was transported with visible, non-incapacitating injuries.



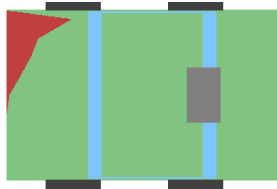
Vehicle #	Body type	Make	Model	Year	Occ.#	Age	Occupant's sex	Maximum known occupant ais
1	4-DR SEDAN/HDTOP	Plymouth	20	1997	1	41	MALE	3=Serious
2	4-DR SEDAN/HDTOP	Dodge	Intrepid	1998	1	22	MALE	1=Minor
2	4-DR SEDAN/HDTOP	Dodge	Intrepid	1998	2	23	FEMALE-NOT PREG	3=Serious
2	4-DR SEDAN/HDTOP	Dodge	Intrepid	1998	3	22	MALE	2=Moderate

Occupant: 2001-79-22-1-1



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	SEVEN OR MORE
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	ALCOHOL PRESENT
Alcohol Test (< 95 indicates BAC 0.xx)	28

Vehicle Factors

Make-Model	Plymouth 20
Year	1997
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 -53 -19
Est. δV with sequence number	DELTA V CODED 1
CDC	1 F R E E 5
Damage (C1-C6)	0 4 20 35 47 94
Crush (L and D)	164 63
Object Contacted 1	VEHICLE NO. 2
Object Contacted 2	VEHICLE NO. 2

Pre-Crash Driver Data

Accident Type	88
Pre-event Movement	GOING STRAIGHT
Critical Pre-crash Event	CROSS OVER INTER
Attempted Avoidance Manuever	No DRIVER
Pre-impact Stability	TRACKING
Pre-impact Location	STAYED IN LANE

NASS Weighting Factor

Weighting factor	10.537
------------------	--------

DRIVER Factors

Age	41	Height	193	Weight	90
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	2001-79-22-1-1
MAIS	3=Serious
Seat Position	Front left side

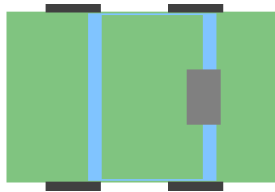
AIS Level	Injury Description	Contacts
3=Serious	Pelvic fracture, open/displaced/comminuted	Right panel
2=Moderate	Tibial fracture medial malleolus, open/displaced/comminuted	Floor
2=Moderate	Lumbar fracture of transverse process without cord injury	Right interior
2=Moderate	Lumbar fracture of transverse process without cord injury	Right interior
2=Moderate	Awake on admission, unconscious <1 hour	Windshld PS side
1=Minor	Scalp laceration, minor	Windshld PS side
1=Minor	Scalp contusion	Windshld PS side
1=Minor	Upper extremity skin abrasion	Air bag-PS side
1=Minor	Leg skin abrasion	Knee bolster

Occupant: 2001-79-22-2-1



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	40 -14 38
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	10.537
------------------	--------

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	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	INTERSECTION REL
Traffic Control Device	
Police Reported Alcohol Presence	No ALCOHOL
Alcohol Test (< 95 indicates BAC 0.xx)	0

Vehicle Factors

Make-Model	Dodge Intrepid
Year	1998
Class	Unknown
Body Type	4-DR SEDAN/HDTOP
Weight	155

Pre-Crash Driver Data

Accident Type	89
Pre-event Movement	GOING STRAIGHT
Critical Pre-crash Event	XING ST-X PATH
Attempted Avoidance Manuever	No DRIVER
Pre-impact Stability	TRACKING
Pre-impact Location	STAYED IN LANE

DRIVER Factors

Age	22	Height	175	Weight	85
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	2001-79-22-2-1
MAIS	1=Minor
Seat Position	Front left side

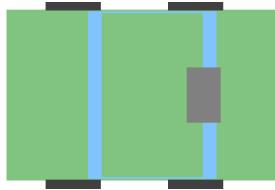
AIS Level	Injury Description	Contacts
1=Minor	Facial skin laceration, minor	Unknown SOURCE
1=Minor	Upper extremity skin laceration, minor	Unknown SOURCE

Occupant: 2001-79-22-2-2



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	40 -14 38
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	10.537
------------------	--------

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	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	INTERSECTION REL
Traffic Control Device	
Police Reported Alcohol Presence	No ALCOHOL
Alcohol Test (< 95 indicates BAC 0.xx)	0

Vehicle Factors

Make-Model	Dodge Intrepid
Year	1998
Class	Unknown
Body Type	4-DR SEDAN/HDTOP
Weight	155

Pre-Crash Driver Data

Accident Type	89
Pre-event Movement	GOING STRAIGHT
Critical Pre-crash Event	XING ST-X PATH
Attempted Avoidance Manuever	No DRIVER
Pre-impact Stability	TRACKING
Pre-impact Location	STAYED IN LANE

PASSENGER Factors

Age	23	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	2001-79-22-2-2
MAIS	3=Serious
Seat Position	Front right side

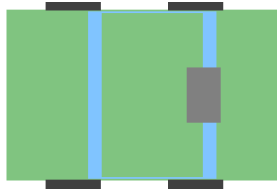
AIS Level	Injury Description	Contacts
3=Serious	Radial fracture with radial nerve involvement	Unknown SOURCE
2=Moderate	794002	Unknown SOURCE
1=Minor	740402	Unknown SOURCE
1=Minor	Small arm artery laceration NFS	Unknown SOURCE
1=Minor	Small arm vein laceration NFS	Unknown SOURCE
1=Minor	Median, ulnar or radial nerve injury NFS	Unknown SOURCE
2=Moderate	Awake on admission, unconscious <1 hour	Unknown SOURCE

Occupant: 2001-79-22-2-3



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	998
Total, Longitudal, and Lateral δV	40 -14 38
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	10.537
------------------	--------

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	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	INTERSECTION REL
Traffic Control Device	
Police Reported Alcohol Presence	No ALCOHOL
Alcohol Test (< 95 indicates BAC 0.xx)	0

Vehicle Factors

Make-Model	Dodge Intrepid
Year	1998
Class	Unknown
Body Type	4-DR SEDAN/HDTOP
Weight	155

Pre-Crash Driver Data

Accident Type	89
Pre-event Movement	GOING STRAIGHT
Critical Pre-crash Event	XING ST-X PATH
Attempted Avoidance Manuever	No DRIVER
Pre-impact Stability	TRACKING
Pre-impact Location	STAYED IN LANE

PASSENGER Factors

Age	22	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		BAG DEP DET UNK
Airbag Deployment - Oth Seat		Not EQUIP W/ OTH

Injuries

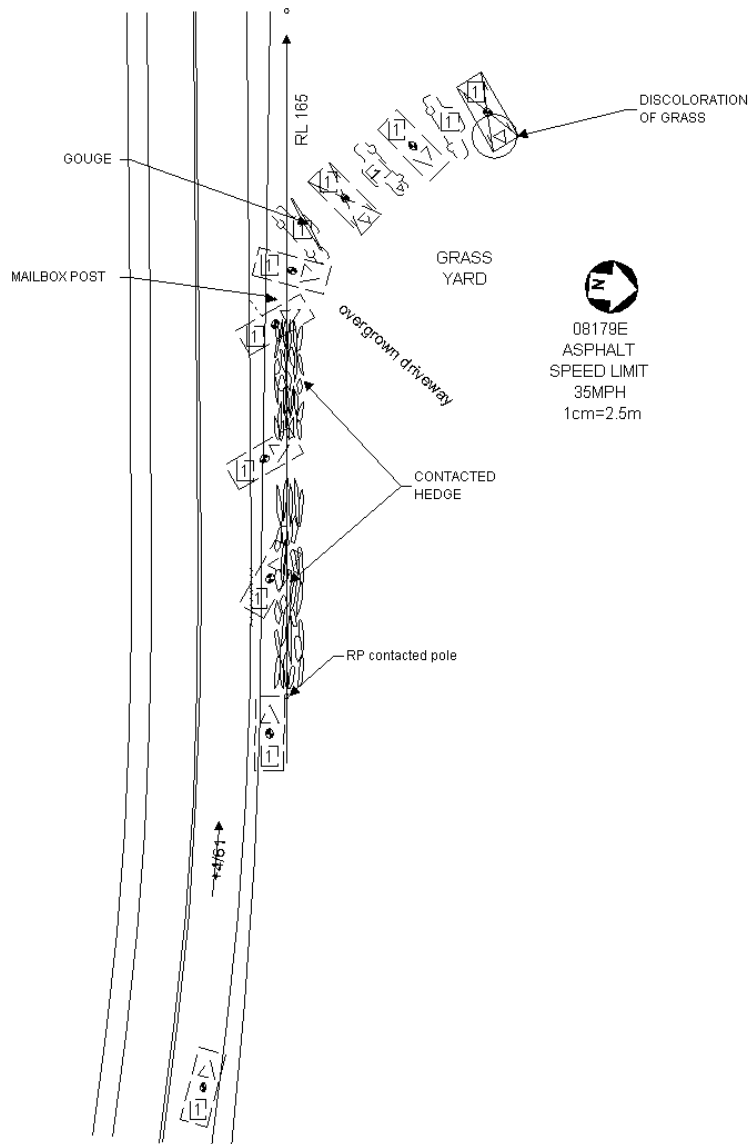
Occupant	2001-79-22-2-3
MAIS	2=Moderate
Seat Position	Second right

AIS Level	Injury Description	Contacts
2=Moderate	Awake on admission, unconscious <1 hour	Unknown SOURCE
1=Minor	Scalp abrasion	Unknown SOURCE
1=Minor	Scalp contusion	Unknown SOURCE
1=Minor	Leg skin abrasion	Unknown SOURCE
1=Minor	Leg skin contusion (hematoma)	Unknown SOURCE

74 Case 2001-8-179

Summary:

V1 was travelling west on a two lane roadway negotiating a curve to the left. V1 departed the right road edge and the front of V1 contacted a utility pole, hedges, and a mailbox post. V1 rolled two quarter turns and came to rest heading east on its roof. V1 experienced an engine compartment fire. V1 was towed due to damage and V101 was transported to a trauma center.



Vehicle	Body type	Make	Model	Year	Occ.#	Age	Occupant's sex	Maximum known occupant ais
1	4-DR SEDAN/HDTOP	Plymouth	20	2000	1	22	MALE	1=Minor

Occupant: 2001-8-179-1-1



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	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 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)	0

Crash Severity

Nr. Quarter Turns	6 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 5
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-OVERTRN
Object Contacted 2	MEDIUM POLE

NASS Weighting Factor

Weighting factor	140.203
------------------	---------

Rollover Characteristics

Number of Events	6
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	Plymouth 20
Year	2000
Class	PASSENGER CAR
Body Type	4-DR SEDAN/HDTOP
Weight	116

Pre-Crash Driver Data

Accident Type	1
Pre-event Movement	NEGOTIATE CURVE
Critical Pre-crash Event	OFF EDGE-RIGHT
Attempted Avoidance Manuever	STEERING LEFT
Pre-impact Stability	No DRIVER
Pre-impact Location	DEPARTED ROADWAY

DRIVER Factors

Age	22	Height	188	Weight	86
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

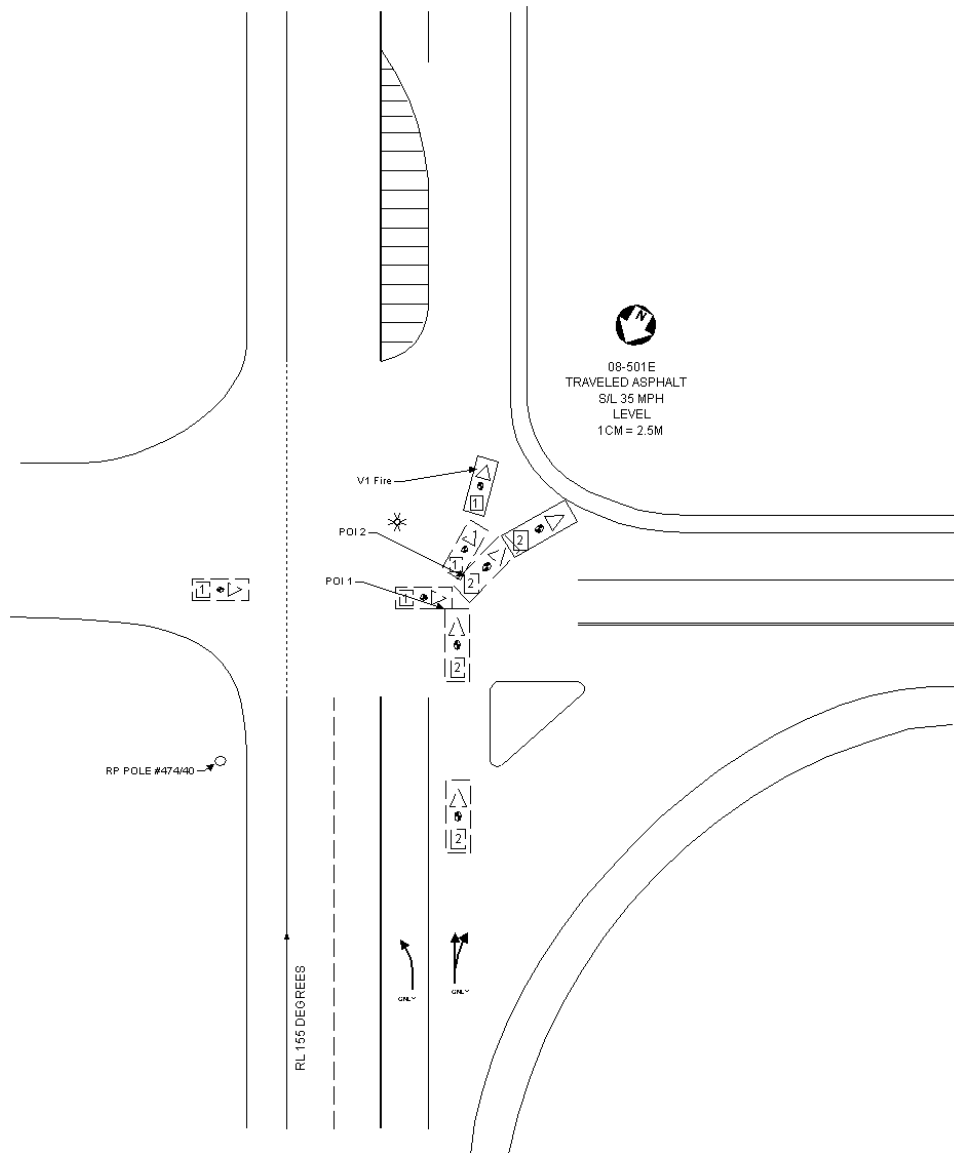
Occupant	2001-8-179-1-1
MAIS	1=Minor
Seat Position	Front left side

AIS Level	Injury Description	Contacts
1=Minor	Upper extremity skin laceration, minor	Roof
1=Minor	690202	Roof
1=Minor	Leg skin abrasion	Seat, back
1=Minor	Facial skin abrasion	Air bag-DR side
1=Minor	Leg skin contusion (hematoma)	Left interior

75 Case 2001-8-501

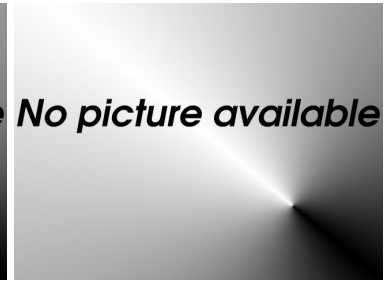
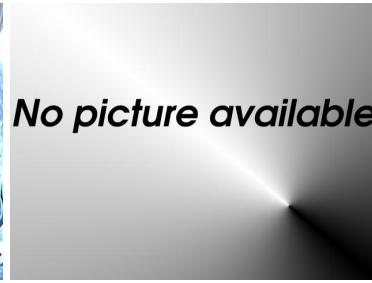
Summary:

V1 was traveling west on a two lane roadway approaching an intersection. V2 was traveling south on a four lane roadway approaching the same intersection. As V2 was crossing the intersection, V1's front end hit V2's front left side and pushed V2 in a clockwise rotation where V2's left rear hit V1's right rear corner. V1 experienced an engine compartment fire. Both vehicles came to rest at the southwest corner of the intersection. V1 came to rest heading south and V2 came to rest heading southwest. V1 sustained an impact fire. Both V1 and V2 were towed from the scene due to damage. V1-O1 was 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	Plymouth	20	2001	1	27	FEM-PREG 3RD TRI	1=Minor
2	LARGE PICKUP	Ford	F-series P/U	2000	1	19	MALE	0=None

Occupant: 2001-8-501-1-1



Fire Information

Fire Occurrence	Minor fire
Fire Origin	Engine compart
Location of Fuel Leakage	No fuel leakage
Type of Fuel Tank	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	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	12 -6 -11
Est. δV with sequence number	DELTA V CODED 1
CDC	2 R F E W 2
Damage (C1-C6)	0 0 4 24 20 20
Crush (L and D)	98 174
Object Contacted 1	VEHICLE NO. 2
Object Contacted 2	VEHICLE NO. 2

NASS Weighting Factor

Weighting factor	0
------------------	---

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	Plymouth 20
Year	2001
Class	PASSENGER CAR
Body Type	4-DR SEDAN/HDTOP
Weight	116

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	27	Height	175	Weight	95
Gender					FEM-PREG 3RD TRI
Ejection					No EJECTION
Ejection Area					No EJECTION
Entrapment					Not ENTRAPPED

Restraint Factors

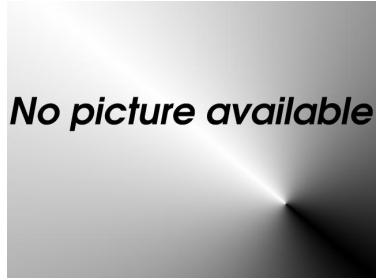
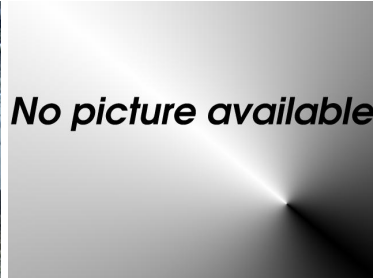
Restrain	None used/avail
AOPS	YES-RES DET
Airbag Deployment	BAG DEPLOYED
Airbag Deployment - 1 st Seat	DR
PAS BAG DEPLY	
Airbag Deployment - Oth Seat	Not EQUIP W/ OTH

Injuries

Occupant	2001-8-501-1-1
MAIS	1=Minor
Seat Position	Front left side

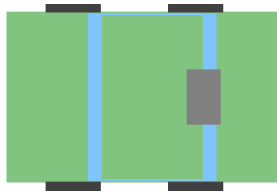
AIS Level	Injury Description	Contacts
1=Minor	Upper extremity skin abrasion	Air bag-DR side
1=Minor	Leg skin contusion (hematoma)	Transmiss lever
1=Minor	Leg skin contusion (hematoma)	Knee bolster
1=Minor	Scalp contusion	Air bag-DR side
1=Minor	Upper extremity skin contusion	Air bag-DR side
1=Minor	Abdominal skin contusion	Air bag-DR side
1=Minor	Ankle joint sprain	Transmiss lever
1=Minor	Leg skin abrasion	Transmiss lever

Occupant: 2001-8-501-2-1



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	Gasoline



Crash Severity

Nr. Quarter Turns	No rollover
Impact Speed	998
Total, Longitudal, and Lateral δV	7 -6 4
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. 1
Object Contacted 2	VEHICLE NO. 1

NASS Weighting Factor

Weighting factor 0

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	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	Ford F-series P/U
Year	2000
Class	TRUCK
Body Type	LARGE PICKUP
Weight	199

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	19	Height	175	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	ONLY DR BAG DEPL
Airbag Deployment - Oth Seat	Not EQUIP W/ OTH

Injuries

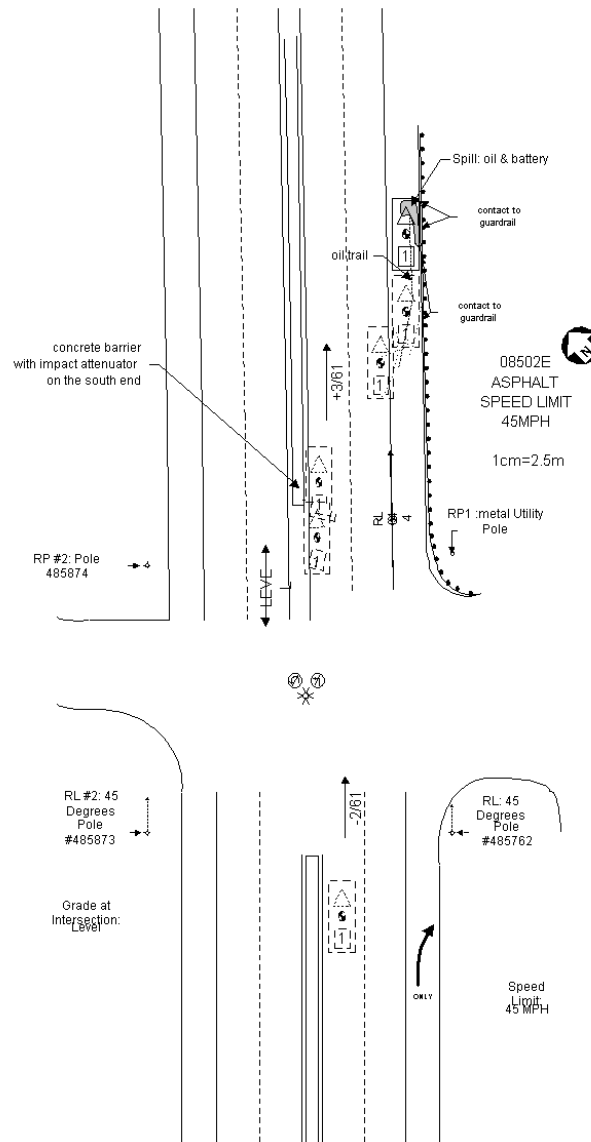
Occupant	2001-8-501-2-1
MAIS	0=None
Seat Position	Front left side

AIS Level	Injury Description	Contacts
-----------	--------------------	----------

76 Case 2001-8-502

Summary:

V1 crossing through an intersection heading north, in the left of threenorthbound lanes. At the north side of the intersection, the front, and then the left, of V1 contacted an impact attenuator which is installed on the end of a center median. V1 rotated clockwise and crossed the northbound lanes. The right of V1 contacted a guardrail on the east road edge two times. After V1 came to rest heading north in the shoulder, a fire ignited in the engine compartment. The driver of V1 was transported to a medical facility and V1 was towed due to damage.



Vehicle	Body type	Make	Model	Year	Occ.#	Age	Occupant's sex	Maximum known occupant ais
1	CONVERTIBLE	Saab	35	2001	1	28	FEMALE-NOT PREG	1=Minor
1	CONVERTIBLE	Saab	35	2001	2	26	MALE	1=Minor

Occupant: 2001-8-502-1-1



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	Right side, behind rear axle
Fuel Tank Damage	Abraded
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)	45 27 17 9 3 0
Crush (L and D)	148 -26
Object Contacted 1	IMPACT ATENUATOR
Object Contacted 2	Other BARRIER

NASS Weighting Factor

Weighting factor	0
------------------	---

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/W/BARRIER
Number of Travel Lanes	FIVE
Roadway Alignment	STRAIGHT
Roadway Profile	SAG
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)	20

Vehicle Factors

Make-Model	Saab 35
Year	2001
Class	PASSENGER CAR
Body Type	CONVERTIBLE
Weight	145

Pre-Crash Driver Data

Accident Type	6
Pre-event Movement	GOING STRAIGHT
Critical Pre-crash Event	OVER LINE-LEFT
Attempted Avoidance Manue- ver	BRAKE+STEER RT
Pre-impact Stability	No DRIVER
Pre-impact Location	Left TRAVEL LANE

DRIVER Factors

Age	28	Height	163	Weight	77
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	NONDEPLOYED

Injuries

Occupant	2001-8-502-1-1
MAIS	1=Minor
Seat Position	Front left side

AIS Level	Injury Description	Contacts
1=Minor	Facial skin laceration, minor	Air bag-DR side
1=Minor	Neck skin laceration, minor	Air bag-DR side
1=Minor	Upper extremity skin abrasion	Air bag-DR side

Occupant: 2001-8-502-1-2



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	Right side, behind rear axle
Fuel Tank Damage	Abraded
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)	45 27 17 9 3 0
Crush (L and D)	148 -26
Object Contacted 1	IMPACT ATENUATOR
Object Contacted 2	Other BARRIER

NASS Weighting Factor

Weighting factor	0
------------------	---

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/W/BARRIER
Number of Travel Lanes	FIVE
Roadway Alignment	STRAIGHT
Roadway Profile	SAG
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)	20

Vehicle Factors

Make-Model	Saab 35
Year	2001
Class	PASSENGER CAR
Body Type	CONVERTIBLE
Weight	145

Pre-Crash Driver Data

Accident Type	6
Pre-event Movement	GOING STRAIGHT
Critical Pre-crash Event	OVER LINE-LEFT
Attempted Avoidance Manue- ver	BRAKE+STEER RT
Pre-impact Stability	No DRIVER
Pre-impact Location	Left TRAVEL LANE

PASSENGER Factors

Age	26	Height	185	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	NONDEPLOYED

Injuries

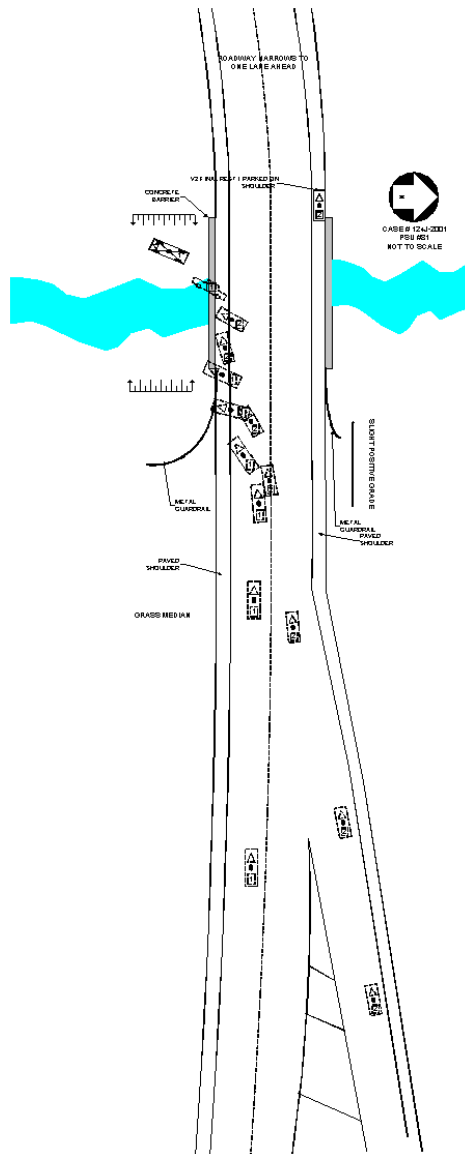
Occupant	2001-8-502-1-2
MAIS	1=Minor
Seat Position	Front right side

AIS Level	Injury Description	Contacts
1=Minor	Thoracic skin contu- sion	Air bag-PS side

77 Case 2001-81-124

Summary:

Vehicle #1, a 2000 Hyundai Elantra, was traveling westbound, in lane one of two, on a two lane, divided, bituminous roadway. Vehicle #2, a Dodge Dakota pickup, was traveling westbound, in lane two of two, on the same roadway. Vehicle #1 attempted to pass vehicle #2. The right side of vehicle #1 sideswiped the left side of vehicle #2. Vehicle #1 lost control and rotated counterclockwise. The front of vehicle #1 struck a metal guardrail on the south side of the roadway. Vehicle #1 then climbed up onto a concrete bridge barrier and rolled to its right side. Vehicle #1 slid across the top of the barrier on its right side until it fell off bridge and landed on its top. A small fire started on the left side of the engine compartment. Vehicle #1 was equipped with dual airbags, both of which deployed during the crash. Vehicle #2 rotated slightly counterclockwise and the front end struck the concrete bridge barrier. Vehicle #2 rotated counterclockwise after striking the barrier. Vehicle #2 was parked on the right shoulder of the roadway at final rest. Vehicle #2 was equipped with dual airbag which did not deploy during the crash. The driver of vehicle #1 was admitted to a trauma center with a broken neck. The driver of vehicle #2 complained of right side pain but it is unknown if he was treated for any injuries.



Vehicle	Body type	Make	Model	Year	Occ.#	Age	Occupant's sex	Maximum known occupant ais
1	COMPACT PICKUP	Dodge	Dakota	2000	1	35	MALE	3=Serious
2	4-DR SEDAN/HDTOP	Hyundai	Elantra	2000	1	33	MALE	7=Unk. sev.

Occupant: 2001-81-124-1-1



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	Abraded
Fuel Type	Gasoline



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	SEVERE 3
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	Other BARRIER

NASS Weighting Factor

Weighting factor 22.709

Rollover Characteristics

Number of Events	5
Rollover Initiation Type	CLIMB-OVER
Location of Rollover Initiation	ROADSIDE/MEDIAN
Rollover Initiation Object Contacted	CONCRETE BARRIER
Location on Vehicle where Principal Tripping Force was Applied	UNDERCARRIAGE
Direction of Initial Roll	ROLL RIGHT

Pre-Crash Environment

Traffic Flow	DVDED/W/BARRIER
Number of Travel Lanes	TWO
Roadway Alignment	STRAIGHT
Roadway Profile	UPHILL GRADE
Roadway Surface Type	ASPHALT
Roadway Surface Condition	WET
Light Conditions	DUSK
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	Dodge Dakota
Year	2000
Class	TRUCK
Body Type	COMPACT PICKUP
Weight	186

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	No DRIVER
Pre-impact Location	STAYED IN LANE

DRIVER Factors

Age	35	Height	0	Weight	0
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	2001-81-124-1-1
MAIS	3=Serious
Seat Position	Front left side

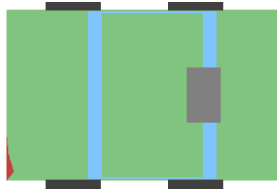
AIS Level	Injury Description	Contacts
2=Moderate	Awake on admission, unconscious <1 hour	Roof
3=Serious	Cervical facet fracture, no cord injury	Roof
2=Moderate	Thoracic vertebral body fracture, minor (<201=Minor)	Upper extremity skin laceration, minor
Left apnel 1=Minor	297402	Air bag-DR side

Occupant: 2001-81-124-2-1



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



Crash Severity

Nr. Quarter Turns	No rollover
Impact Speed	998
Total, Longitudal, and Lateral δV	13 -13 < 0.5 KMPH
Est. δV with sequence number	DELTA V CODED 5
CDC	12 F L E E 3
Damage (C1-C6)	11 3 0 0 0 0
Crush (L and D)	150 -58
Object Contacted 1	CONCRETE BARRIER
Object Contacted 2	VEHICLE NO. 1

NASS Weighting Factor

Weighting factor 22.709

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/W/BARRIER
Number of Travel Lanes	TWO
Roadway Alignment	STRAIGHT
Roadway Profile	UPHILL GRADE
Roadway Surface Type	ASPHALT
Roadway Surface Condition	WET
Light Conditions	DUSK
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	Hyundai Elantra
Year	2000
Class	PASSENGER CAR
Body Type	4-DR SEDAN/HDTOP
Weight	119

Pre-Crash Driver Data

Accident Type	47
Pre-event Movement	PASSING/OVERTAKE
Critical Pre-crash Event	OVER LINE-LEFT
Attempted Avoidance Manuever	No DRIVER
Pre-impact Stability	No DRIVER
Pre-impact Location	Left TRAVEL LANE

DRIVER Factors

Age	33	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	NONDEPLOYED
Airbag Deployment - 1 st Seat	NONDEPLOYED
Airbag Deployment - Oth Seat	Not EQUIP W/ OTH

Injuries

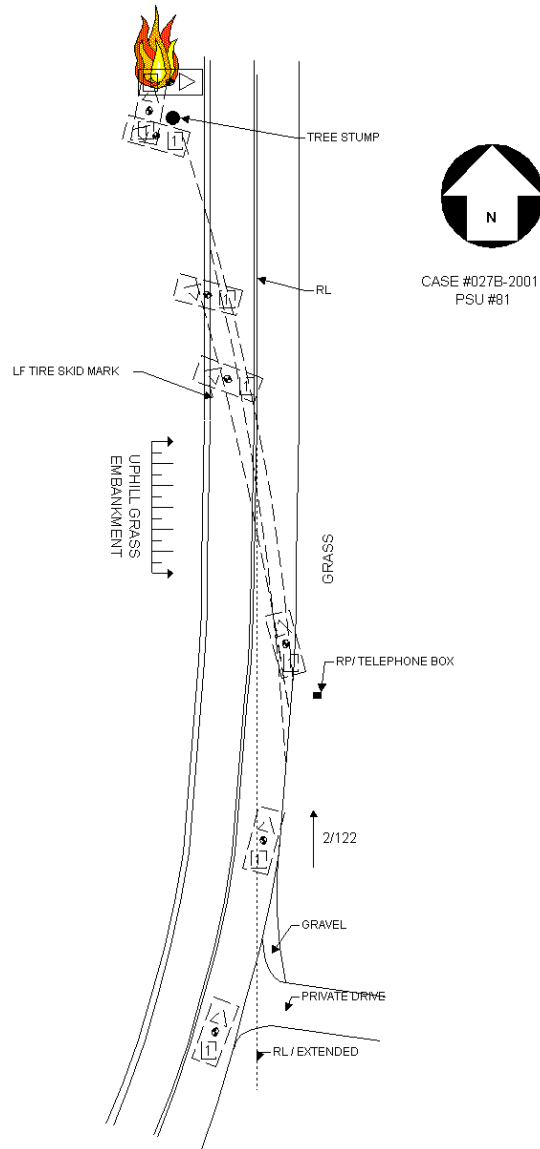
Occupant	2001-81-124-2-1
MAIS	7=Unk. sev.
Seat Position	Front left side

AIS Level	Injury Description	Contacts
-----------	--------------------	----------

78 Case 2001-81-27

Summary:

Vehicle 1 was driving northbound on a 2-way, 2-lane, bituminous roadway. As vehicle 1 came out of a curve it began to yaw counter-clockwise. Vehicle 1 crossed both lanes and went onto the dirt shoulder. The right side of vehicle 1 struck a large tree stump. The vehicle rotated approximately 180 degrees around the stump and came to rest. The vehicle burst into flames and both occupants subsequently died in the fire. It was determined that upon impact the rear axle broke and severed a fuel line. The vehicle still had power and the fuel pump kept pumping fuel onto the exhaust system and some electrical wiring. The vehicle was towed due to damage.



Vehicle	Body type	Make	Model	Year	Occ.#	Age	Occupant's sex	Maximum known occupant ais
1	3DR/2DR HATCHBAK	Chevrolet	Corvette	1989	1	40	MALE	6=Maximum
1	3DR/2DR HATCHBAK	Chevrolet	Corvette	1989	2	32	MALE	6=Maximum

Occupant: 2001-81-27-1-1



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	Over center of the rear wheels
Fuel Cap Location	No fuel tank
Fuel Tank Damage	No fuel tank
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	DUSK
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)	17

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	3 R 9 9 9 0
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	22.745
------------------	--------

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 Corvette
Year	1989
Class	PASSENGER CAR
Body Type	3DR/2DR HATCHBAK
Weight	146

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	LAT SKID-CTR CLK
Pre-impact Location	DEPARTED ROADWAY

DRIVER Factors

Age	40	Height	175	Weight	79
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	2001-81-27-1-1
MAIS	6=Maximum
Seat Position	Front left side

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

Occupant: 2001-81-27-1-2



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	Over center of the rear wheels
Fuel Cap Location	No fuel tank
Fuel Tank Damage	No fuel tank
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	DUSK
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)	17

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	3 R 9 9 9 0
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	22.745
------------------	--------

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 Corvette
Year	1989
Class	PASSENGER CAR
Body Type	3DR/2DR HATCHBAK
Weight	146

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	LAT SKID-CTR CLK
Pre-impact Location	DEPARTED ROADWAY

PASSENGER Factors

Age	32	Height	170	Weight	71
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

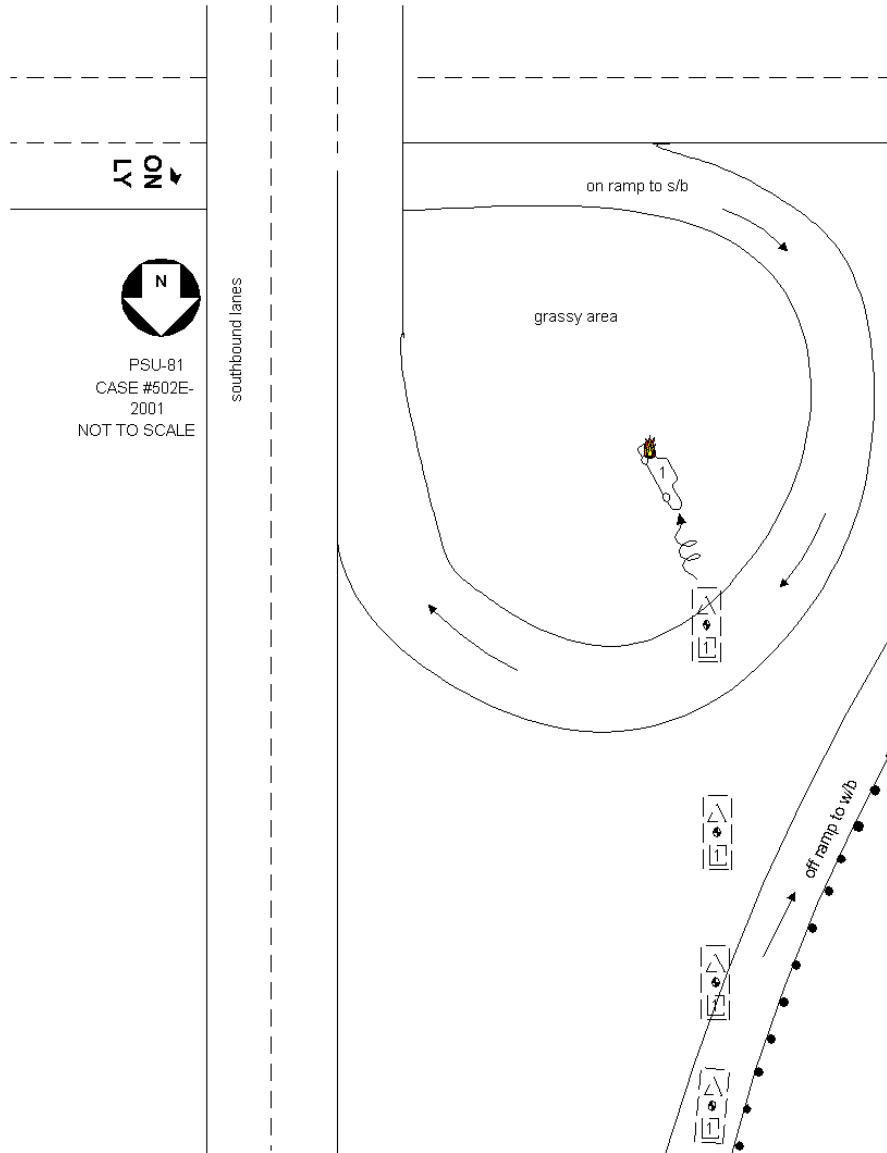
Occupant	2001-81-27-1-2
MAIS	6=Maximum
Seat Position	Front right side

AIS Level	Injury Description	Contacts
6=Maximum	Burn, 2nd or 3rd degree, >903=Serious	Cerebral contusions, multiple, unilateral, small (<30ccs)
Unknown SOURCE		
5=Critical	Cerebral epidural or extradural hematoma, bilateral, small	Unknown SOURCE
4=Severe	Cerebral subdural hematoma, small (<50ccs)	Unknown SOURCE
3=Serious	Cerebral subarachnoid hemorrhage	Unknown SOURCE
4=Severe	Intracerebral hematoma, small petechial hemorrhage	Unknown SOURCE
3=Serious	Lung contusion, unilateral	Unknown SOURCE
2=Moderate	Splenic contusion, minor (<50	

79 Case 2001-81-502

Summary:

Vehicle 1 was southbound on a 2-lane divided roadway. Vehicle 1 took the interchange ramp to the westbound roadway. As vehicle 1 was on the ramp, it failed to negotiate the curve and went off the left side of the roadway. Vehicle 1 runs into and up an embankment then crosses the on ramp to the southbound roadway. Vehicle 1 then rolled over into a grassy median and caught fire as a result. The driver was able to escape through the rear window without injury. The driver was taken to an area hospital to be examined. The vehicle was towed due to damage. The driver's front airbag deployed during this crash. This vehicle is also equipped with side impact airbags that did not deploy.



Vehicle	Body type	Make	Model	Year	Occ.#	Age	Occupant's sex	Maximum known occupant ais
1	4-DR SEDAN/HDTOP	Hyundai	Elantra	2001	1	24	MALE	0=None

Occupant: 2001-81-502-1-1



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	ONE WAY
Number of Travel Lanes	ONE
Roadway Alignment	CURVE RIGHT
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 BAC 0.xx)	0

Crash Severity

Nr. Quarter Turns	1 QUARTER TURN
Impact Speed	998
Total, Longitudal, and Lateral δV	36 -36 < 0.5 KMPH
Est. δV with sequence number	DELTA V CODED 1
CDC	12 F R E W 3
Damage (C1-C6)	8 16 24 33 41 54
Crush (L and D)	140 49
Object Contacted 1	GROUND
Object Contacted 2	ROLLOVER-OVERTRN

Vehicle Factors

Make-Model	Hyundai Elantra
Year	2001
Class	PASSENGER CAR
Body Type	4-DR SEDAN/HDTOP
Weight	121

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

NASS Weighting Factor

Weighting factor 0

Rollover Characteristics

Number of Events	3
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

DRIVER Factors

Age	24	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	ONLY DR BAG DEPL
Airbag Deployment - Oth Seat	NONDEPLOYED

Injuries

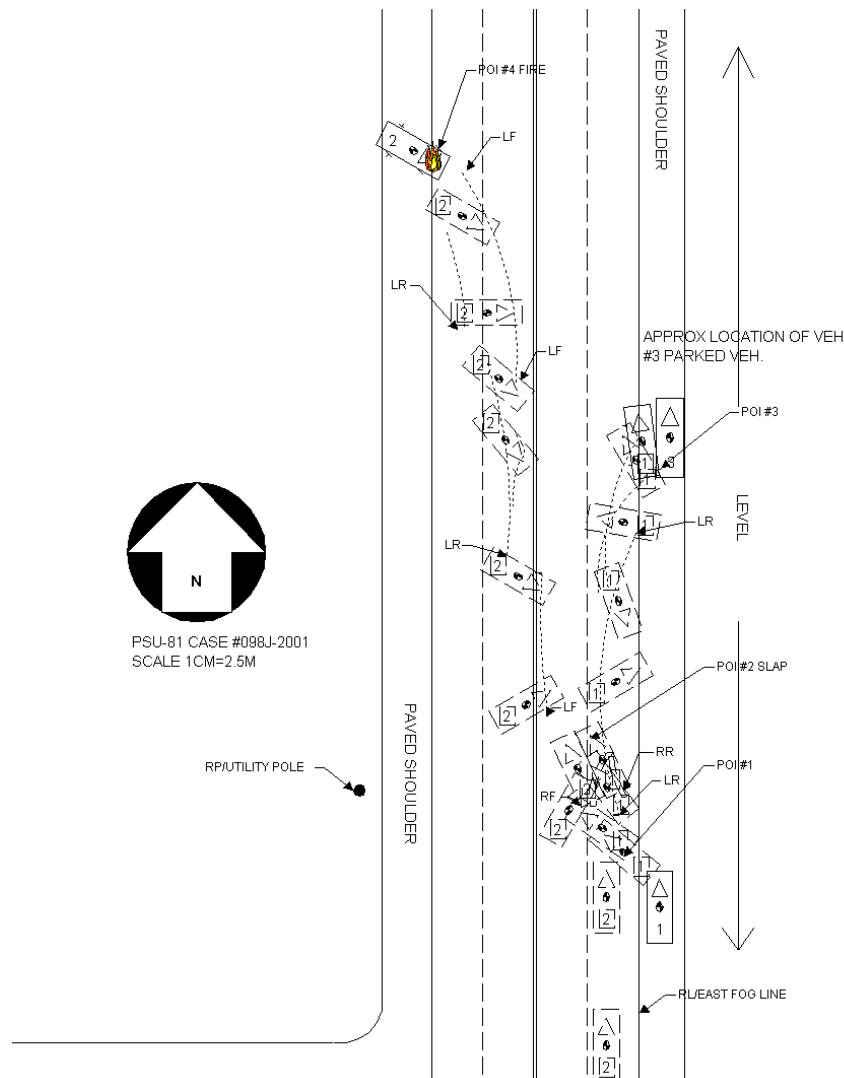
Occupant	2001-81-502-1-1
MAIS	0=None
Seat Position	Front left side

AIS Level	Injury Description	Contacts
-----------	--------------------	----------

80 Case 2001-81-98

Summary:

Vehicle #1, a 2001 Chevrolet Blazer, was parked facing north on the east side of a four lane, undivided, bituminous roadway. Vehicle #2, a 2001 Toyota 4-Runner SR5, was traveling northbound, in lane one of two, on the same roadway. Vehicle #1 entered the roadway attempting to make a U turn to the southbound lanes. The front of vehicle #2 struck the left side of vehicle #1. Vehicle #1 rotated clockwise and the left side of vehicle #1 side slapped the right side of vehicle #2. Vehicle #1 continued to rotate clockwise, completed a full 360 degree rotation and the right side struck the left side of a truck parked on the east shoulder. Vehicle came to rest facing north on the east shoulder and first northbound lane. During the rotation, the driver of V1 slipped out of shoulder belt and was found by paramedics in the back seat. Vehicle #2 rotated clockwise, crossed lane two and the southbound lanes, and came to rest facing southeast on the west shoulder. Vehicle #2 then caught fire. The fire appears to have originated in the right side of the engine compartment. Vehicle #1 and #2 were both equipped with driver and passenger airbags. Both airbags deployed in Vehicle #2 and no airbags deployed in vehicle #1. The driver and passenger in vehicle #1 were treated and released at a trauma center. The driver of vehicle #1 suffered loss of consciousness as well as multiple small lacerations and contusions. The passenger in vehicle #1 was treated for a broken right wrist and soft tissue damage. The driver of Vehicle #2 was admitted to a trauma center with a broken right hip. Both vehicles were towed from the scene due to damage.



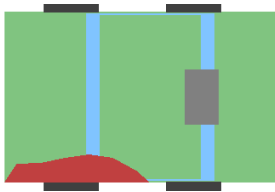
Vehicle	Body type	Make	Model	Year	Occ.#	Age	Occupant's sex	Maximum known occupant aia
1	COMPACT UTILITY	Chevrolet	S-10 Blazer	2001	1	31	MALE	3=Serious
1	COMPACT UTILITY	Chevrolet	S-10 Blazer	2001	2	32	FEMALE-NOT PREG	3=Serious
2	COMPACT UTILITY	Toyota	4-Runner	2001	1	32	FEMALE-NOT PREG	3=Serious

Occupant: 2001-81-98-1-1



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, 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	32 11 30
Est. δV with sequence number	DELTA V CODED 1
CDC	8 L Y E W 4
Damage (C1-C6)	27 28 35 41 36 15
Crush (L and D)	213 114
Object Contacted 1	VEHICLE NO. 2
Object Contacted 2	VEHICLE NO. 2

NASS Weighting Factor

Weighting factor 22.709

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	FOUR
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	No ALCOHOL
Alcohol Test (< 95 indicates BAC 0.xx)	0

Vehicle Factors

Make-Model	Chevrolet S-10 Blazer
Year	2001
Class	TRUCK
Body Type	COMPACT UTILITY
Weight	188

Pre-Crash Driver Data

Accident Type	98
Pre-event Movement	MAKING U-TURN
Critical Pre-crash Event	OVER LINE-LEFT
Attempted Avoidance Manuever	No AVOIDANCE
Pre-impact Stability	TRACKING
Pre-impact Location	STAYED IN LANE

DRIVER Factors

Age	31	Height	173	Weight	77
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	2001-81-98-1-1
MAIS	3=Serious
Seat Position	Front left side

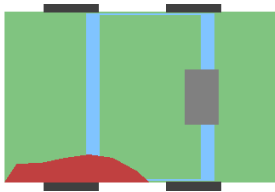
AIS Level	Injury Description	Contacts
3=Serious	Lethargic on admission, unconscious <1 hour & neuro deficit	Belt B pill atch
1=Minor	Scalp laceration, minor	Belt B pill atch
1=Minor	Scalp laceration, minor	Left window fram
1=Minor	690402	Seat, back

Occupant: 2001-81-98-1-2



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	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	32 11 30
Est. δV with sequence number	DELTA V CODED 1
CDC	8 L Y E W 4
Damage (C1-C6)	27 28 35 41 36 15
Crush (L and D)	213 114
Object Contacted 1	VEHICLE NO. 2
Object Contacted 2	VEHICLE NO. 2

NASS Weighting Factor

Weighting factor 22.709

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	FOUR
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	No ALCOHOL
Alcohol Test (< 95 indicates BAC 0.xx)	0

Vehicle Factors

Make-Model	Chevrolet S-10 Blazer
Year	2001
Class	TRUCK
Body Type	COMPACT UTILITY
Weight	188

Pre-Crash Driver Data

Accident Type	98
Pre-event Movement	MAKING U-TURN
Critical Pre-crash Event	OVER LINE-LEFT
Attempted Avoidance Manuever	No AVOIDANCE
Pre-impact Stability	TRACKING
Pre-impact Location	STAYED IN LANE

PASSENGER Factors

Age	32	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	YES-RES DET
Airbag Deployment	NONDEPLOYED
Airbag Deployment - 1 st Seat	NONDEPLOYED
Airbag Deployment - Oth Seat	Not EQUIP W/ OTH

Injuries

Occupant	2001-81-98-1-2
MAIS	3=Serious
Seat Position	Front right side

AIS Level	Injury Description	Contacts
3=Serious	Ulnar fracture, open/displaced/comminuted	Right hardware

Occupant: 2001-81-98-2-1



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	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	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	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	34 -34 -6
Est. δV with sequence number	DELTA V CODED 1
CDC	12 F D E W 4
Damage (C1-C6)	14 16 25 42 58 83
Crush (L and D)	154 -15
Object Contacted 1	VEHICLE NO. 1
Object Contacted 2	VEHICLE NO. 1

NASS Weighting Factor

Weighting factor	22.709
------------------	--------

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 4-Runner
Year	2001
Class	TRUCK
Body Type	COMPACT UTILITY
Weight	189

Pre-Crash Driver Data

Accident Type	98
Pre-event Movement	GOING STRAIGHT
Critical Pre-crash Event	FROM PARKING LN
Attempted Avoidance Manuever	No AVOIDANCE
Pre-impact Stability	TRACKING
Pre-impact Location	STAYED IN LANE

DRIVER Factors

Age	32	Height	168	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

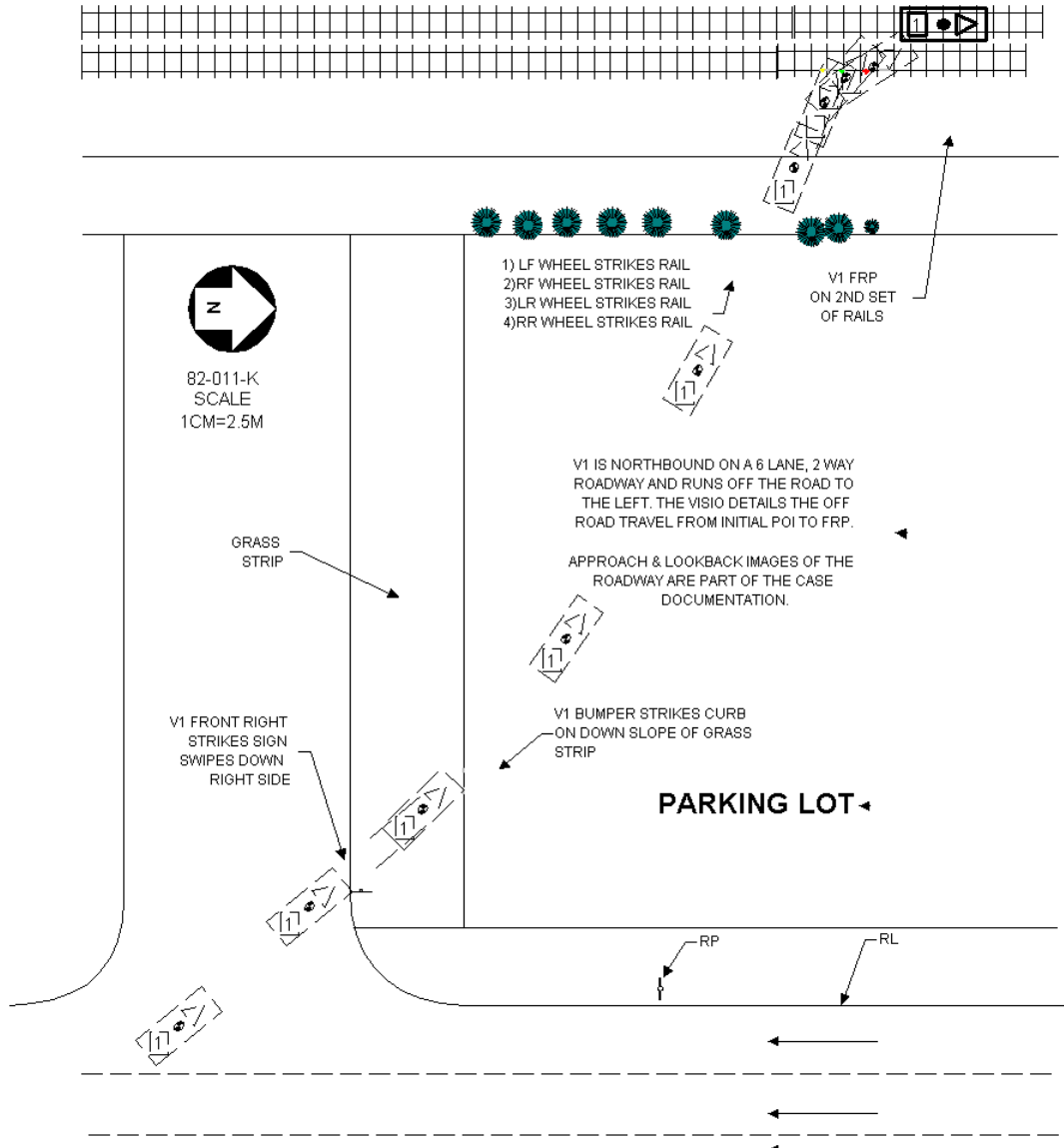
Occupant	2001-81-98-2-1
MAIS	3=Serious
Seat Position	Front left side

AIS Level	Injury Description	Contacts
2=Moderate	Hip joint dislocation not involving articular cartilage	Transmiss lever
3=Serious	Pelvic fracture, open/displaced/comminuted	Transmiss lever
1=Minor	Leg skin abrasion	Knee bolster
1=Minor	Leg skin contusion (hematoma)	Transmiss lever
1=Minor	Upper extremity skin abrasion	Air bag-DR side

81 Case 2001-82-11

Summary:

Vehicle 1 V(1) was northbound in lane 3 of a 6 lane, 2 way roadway. V1 ran off the roadway to the left. The front right of V1 struck a dead end sign on the northwest curb and continued northwest over the raised grass strip. V1's front bumper struck the curb as it came down off the down slope of the grass strip and continued northwest. V1 crossed over the parking lot and through a strip of trees at the west end of the lot into a railroad yard. All 4 wheels struck the first north/south rail, causing damage to the left front, right front, and left rear wheel and tires. V1 came to rest on the second set of tracks facing north. The driver was transported due to injuries. The vehicle was towed disabled.



Vehicle	Body type	Make	Model	Year	Occ.#	Age	Occupant's sex	Maximum known occupant ais
1	COMPACT PICKUP	Ford	Ranger	1996	1	20	MALE	7=Unk. sev.

Occupant: 2001-82-11-1-1



Fire Information

Fire Occurrence	No 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 damage
Fuel Type	Gasoline



Pre-Crash Environment

Traffic Flow	Not DIVIDED
Number of Travel Lanes	SIX
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

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	MINOR 1
CDC	12 F L W N 3
Damage (C1-C6)	0 0 0 0 0
Crush (L and D)	0 0
Object Contacted 1	CURB
Object Contacted 2	CURB

NASS Weighting Factor

Weighting factor 9.786

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	Ford Ranger
Year	1996
Class	TRUCK
Body Type	COMPACT PICKUP
Weight	134

Pre-Crash Driver Data

Accident Type	6
Pre-event Movement	GOING STRAIGHT
Critical Pre-crash Event	OFF EDGE-LEFT
Attempted Avoidance Manuever	No DRIVER
Pre-impact Stability	TRACKING
Pre-impact Location	Left TRAVEL LANE

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	YES-RES DET
Airbag Deployment	BAG DEPLOYED
Airbag Deployment - 1 st Seat	DR BAG DEPLOYED
Airbag Deployment - Oth Seat	Not EQUIP W/ OTH Seat

Injuries

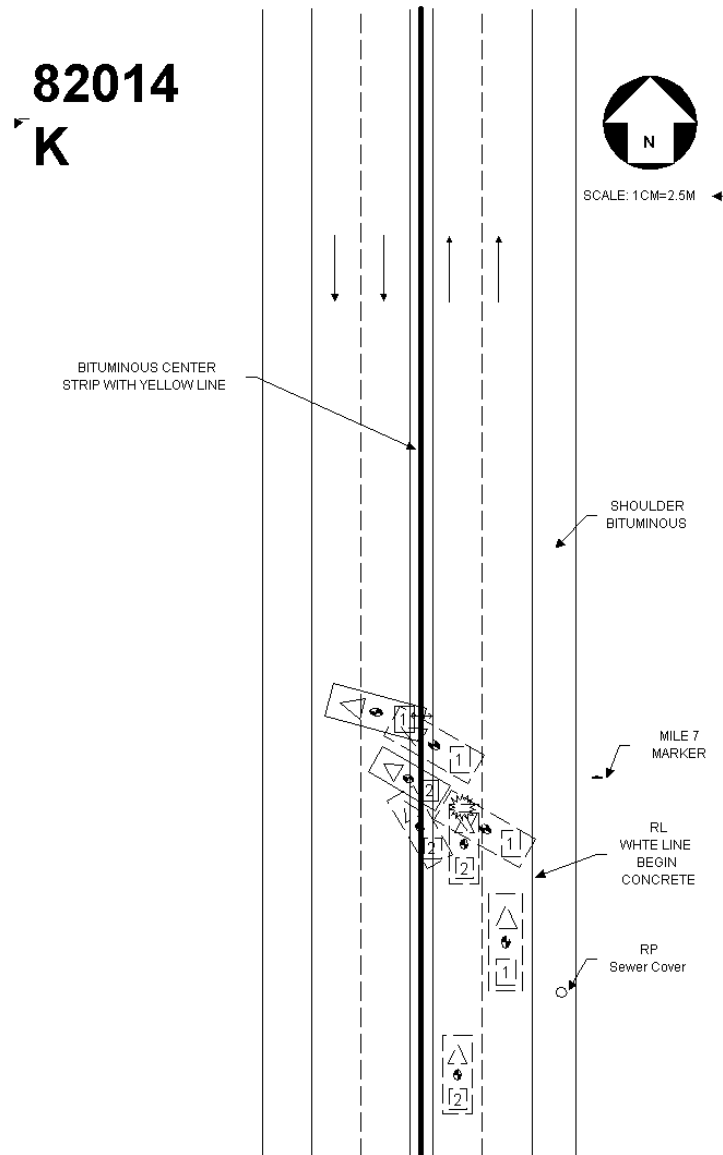
Occupant	2001-82-11-1-1
MAIS	7=Unk. sev.
Seat Position	Front left side

AIS Level	Injury Description	Contacts
-----------	--------------------	----------

82 Case 2001-82-14

Summary:

Vehicle 1 (V1) was northbound in lane 1 of a 4 lane, 2 way roadway. Vehicle 2 was northbound in lane 2 of a 4 lane, 2 way roadway. V1 was one car length ahead of V2 when it attempted a U turn in front of V2. The front of V2 struck and underrode the left side of V1 and the left rear wheel of V1 immediately struck the right front quarter panel of V2. V1 came to rest in lane 2 of the southbound lanes and V2 came to rest straddling the center line facing northwest. A minor fire started in the engine compartment of V2 due to the impact, causing no injuries to the occupants. The 2 occupants of V2 were transported due to injuries. Both vehicles were towed disabled.



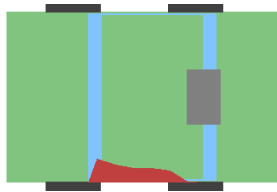
Vehicle	Body type	Make	Model	Year	Occ.#	Age	Occupant's sex	Maximum known occupant ais
1	LARGE VAN	Ford	E-series Van	1995	1	42	MALE	7=Unk. sev.
1	LARGE VAN	Ford	E-series Van	1995	2	42	MALE	0=None
2	4-DR SEDAN/HDTOP	Cadillac	Seville	1988	1	36	MALE	3=Serious
2	4-DR SEDAN/HDTOP	Cadillac	Seville	1988	2	16	MALE	2=Moderate

Occupant: 2001-82-14-1-1



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	14 < 0.5 KMPH 14
Est. δV with sequence number	DELTA V CODED 1
CDC	9 L P E W 3
Damage (C1-C6)	34 25 21 21 17 1
Crush (L and D)	160 -52
Object Contacted 1	VEHICLE NO. 2
Object Contacted 2	0

NASS Weighting Factor

Weighting factor	10.452
------------------	--------

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	FOUR
Roadway Alignment	STRAIGHT
Roadway Profile	DOWNHILL GRADE
Roadway Surface Type	CONCRETE
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	Ford E-series Van
Year	1995
Class	TRUCK
Body Type	LARGE VAN
Weight	236

Pre-Crash Driver Data

Accident Type	98
Pre-event Movement	MAKING U-TURN
Critical Pre-crash Event	OVER LINE-LEFT
Attempted Avoidance Manuever	No DRIVER
Pre-impact Stability	TRACKING
Pre-impact Location	Left TRAVEL LANE

DRIVER Factors

Age	42	Height	183	Weight	75
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	2001-82-14-1-1
MAIS	7=Unk. sev.
Seat Position	Front left side

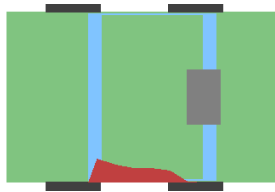
AIS Level	Injury Description	Contacts
-----------	--------------------	----------

Occupant: 2001-82-14-1-2



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, 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	14 < 0.5 KMPH 14
Est. δV with sequence number	DELTA V CODED 1
CDC	9 L P E W 3
Damage (C1-C6)	34 25 21 21 17 1
Crush (L and D)	160 -52
Object Contacted 1	VEHICLE NO. 2
Object Contacted 2	0

NASS Weighting Factor

Weighting factor	10.452
------------------	--------

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	FOUR
Roadway Alignment	STRAIGHT
Roadway Profile	DOWNHILL GRADE
Roadway Surface Type	CONCRETE
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	Ford E-series Van
Year	1995
Class	TRUCK
Body Type	LARGE VAN
Weight	236

Pre-Crash Driver Data

Accident Type	98
Pre-event Movement	MAKING U-TURN
Critical Pre-crash Event	OVER LINE-LEFT
Attempted Avoidance Manuever	No DRIVER
Pre-impact Stability	TRACKING
Pre-impact Location	Left TRAVEL LANE

PASSENGER Factors

Age	42	Height	183	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	NONDEPLOYED
Airbag Deployment - 1 st Seat	NONDEPLOYED
Airbag Deployment - Oth Seat	Not EQUIP W/ OTH

Injuries

Occupant	2001-82-14-1-2
MAIS	0=None
Seat Position	Front right side

AIS Level	Injury Description	Contacts
-----------	--------------------	----------

Occupant: 2001-82-14-2-1



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	FOUR
Roadway Alignment	STRAIGHT
Roadway Profile	DOWNHILL GRADE
Roadway Surface Type	CONCRETE
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	21 -21 -4
Est. δV with sequence number	DELTA V CODED 1
CDC	12 F D E W 2
Damage (C1-C6)	11 12 17 18 16 17
Crush (L and D)	152 0
Object Contacted 1	VEHICLE NO. 1
Object Contacted 2	0

NASS Weighting Factor

Weighting factor	10.452
------------------	--------

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	1988
Class	PASSENGER CAR
Body Type	4-DR SEDAN/HDTOP
Weight	156

Pre-Crash Driver Data

Accident Type	98
Pre-event Movement	GOING STRAIGHT
Critical Pre-crash Event	Same DIR-OV RGHT
Attempted Avoidance Manuever	BRAKE W/O LOCKUP
Pre-impact Stability	TRACKING
Pre-impact Location	STAYED IN LANE

DRIVER Factors

Age	36	Height	173	Weight	82
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	2001-82-14-2-1
MAIS	3=Serious
Seat Position	Front left side

AIS Level	Injury Description	Contacts
3=Serious	Femoral shaft fracture	Center panel
3=Serious	Unconscious on admission, length <1 hour	Windshield
1=Minor	Upper extremity skin contusion	Center panel
1=Minor	Scalp abrasion	Windshield

Occupant: 2001-82-14-2-2



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	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	DOWNHILL GRADE
Roadway Surface Type	CONCRETE
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	21 -21 -4
Est. δV with sequence number	DELTA V CODED 1
CDC	12 F D E W 2
Damage (C1-C6)	11 12 17 18 16 17
Crush (L and D)	152 0
Object Contacted 1	VEHICLE NO. 1
Object Contacted 2	0

NASS Weighting Factor

Weighting factor	10.452
------------------	--------

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	1988
Class	PASSENGER CAR
Body Type	4-DR SEDAN/HDTOP
Weight	156

Pre-Crash Driver Data

Accident Type	98
Pre-event Movement	GOING STRAIGHT
Critical Pre-crash Event	Same DIR-OV RGHT
Attempted Avoidance Manuever	BRAKE W/O LOCKUP
Pre-impact Stability	TRACKING
Pre-impact Location	STAYED IN LANE

PASSENGER Factors

Age	16	Height	168	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

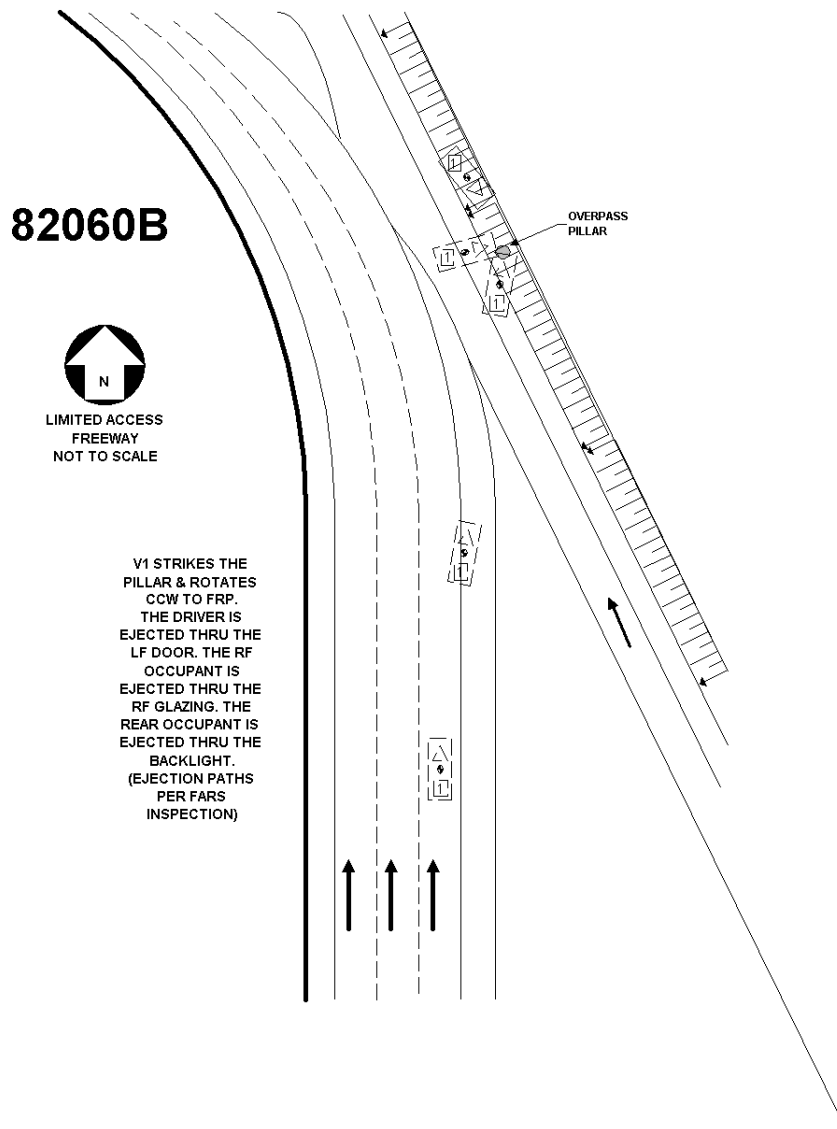
Occupant	2001-82-14-2-2
MAIS	2=Moderate
Seat Position	Front right side

AIS Level	Injury Description	Contacts
2=Moderate	Lethargic on admission, unconscious <1 hour	Windshield
1=Minor	Facial skin abrasion	Windshield
1=Minor	Upper extremity skin abrasion	Right panel
1=Minor	297602	Windshield
1=Minor	Facial skin contusion	Windshield
1=Minor	297402	Windshield

83 Case 2001-82-60

Summary:

Vehicle 1 (V1) was northbound in lane 1 of a 3 lane, one-way roadway. V1 ran off the roadway to the right in an interchange area. The front of V1 struck a concrete overpass pillar at a high rate of speed, with intrusion reaching midway through the windshield. V1 rotated CCW onto an embankment. The driver was ejected through the LF door. The RF occupant was ejected through the RF glazing. The rear occupant was ejected through the back light. Ejection paths were determined by the state Fatal Accident Reconstruction Squad. The vehicle was damaged catastrophically by the impact and consequent fire. The occupants were unbelted. The driver and passenger airbags were completely destroyed by the fire. The driver was hospitalized for a neck dislocation, and multiple spine and leg fractures as well as contusion of both lungs. Occupant 3 was hospitalized for spinal and pelvic fractures. Occupant 2 was pronounced dead at the scene from multiple skull fractures and brain lacerations and hemorrhages. The vehicle was towed disabled.



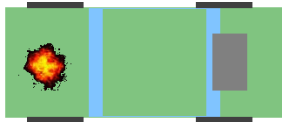
Vehicle	Body type	Make	Model	Year	Occ.#	Age	Occupant's sex	Maximum known occupant ais
1	2DR SEDAN/HT/CPE	Plymouth	20	1996	1	21	MALE	4=Severe
1	2DR SEDAN/HT/CPE	Plymouth	20	1996	2	29	FEMALE-NOT PREG	5=Critical
1	2DR SEDAN/HT/CPE	Plymouth	20	1996	3	26	FEMALE-NOT PREG	3=Serious

Occupant: 2001-82-60-1-1



Fire Information

Fire Occurrence	Major fire
Fire Origin	Engine compart
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	SEVERE 1
CDC	12 F L E E 6
Damage (C1-C6)	0 0 0 0 0 0
Crush (L and D)	0 0
Object Contacted 1	BRIDGE
Object Contacted 2	0

NASS Weighting Factor

Weighting factor	9.012
------------------	-------

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	THREE
Roadway Alignment	CURVE LEFT
Roadway Profile	UPHILL GRADE
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)	18

Vehicle Factors

Make-Model	Plymouth 20
Year	1996
Class	PASSENGER CAR
Body Type	2DR SEDAN/HT/CPE
Weight	108

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	No DRIVER
Pre-impact Location	DEPARTED ROADWAY

DRIVER Factors

Age	21	Height	168	Weight	73
Gender			MALE		
Ejection			COMPLETE EJECT		
Ejection Area			Left FRONT		
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	2001-82-60-1-1
MAIS	4=Severe
Seat Position	Front left side

AIS Level	Injury Description	Contacts
3=Serious	Dislocation of atlanto-axial joint (odontoid)	Ground
2=Moderate	Thoracic transverse process fracture without cord injury	Ground
2=Moderate	Thoracic transverse process fracture without cord injury	Ground
2=Moderate	Thoracic spinous process fracture without cord injury	Ground
2=Moderate	Thoracic spinous process fracture without cord injury	Ground
2=Moderate	Thoracic spinous process fracture without cord injury	Ground
2=Moderate	Thoracic spinous process fracture without cord injury	Ground
2=Moderate	Thoracic spinous process fracture without cord injury	Ground
4=Severe	Lung contusion, bilateral	Ground
3=Serious	>3 rib fractures one side & <3 other side, with stable chest	Ground
3=Serious	Femoral shaft fracture	Ground
2=Moderate	Tibial condylar fracture	Ground
2=Moderate	Fibular head, neck, or shaft fracture	Ground
1=Minor	Carpal-metacarpal or MCP joint dislocation	Ground
1=Minor	Finger fracture	Ground
4=Severe	Unconscious on admission, moves appropriately only to pain	Ground
1=Minor	Leg skin contusion (hematoma)	Ground
1=Minor	Upper extremity skin abrasion	Ground
1=Minor	Upper extremity skin laceration, minor	Ground

Occupant: 2001-82-60-1-2



Fire Information

Fire Occurrence	Major fire
Fire Origin	Engine compart
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	SEVERE 1
CDC	12 F L E E 6
Damage (C1-C6)	0 0 0 0 0 0
Crush (L and D)	0 0
Object Contacted 1	BRIDGE
Object Contacted 2	0

NASS Weighting Factor

Weighting factor	9.012
------------------	-------

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	THREE
Roadway Alignment	CURVE LEFT
Roadway Profile	UPHILL GRADE
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)	18

Vehicle Factors

Make-Model	Plymouth 20
Year	1996
Class	PASSENGER CAR
Body Type	2DR SEDAN/HT/CPE
Weight	108

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	No DRIVER
Pre-impact Location	DEPARTED ROADWAY

PASSENGER Factors

Age	29	Height	165	Weight	114
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	Unk IF DEPLOYED
Airbag Deployment - 1 st Seat	DR
PAS UNK DEPLY	
Airbag Deployment - Oth Seat	Not EQUIP W/ OTH

Injuries

Occupant	2001-82-60-1-2
MAIS	5=Critical
Seat Position	Front right side

AIS Level	Injury Description	Contacts
-----------	--------------------	----------

4=Severe	Cerebral laceration	Ground
4=Severe	Cerebral laceration	Ground
5=Critical	Brain stem hemorrhage	Ground
4=Severe	Intracerebral hematoma, small (<30ccs)	Ground
4=Severe	Basilar skull fracture, open, with brain tissue loss.	Ground
4=Severe	Skull fracture, vault, complex (open with brain tissue loss)	Ground
3=Serious	Lung contusion, unilateral	Ground
2=Moderate	2-3 rib fractures with stable chest	Ground
2=Moderate	Sternal fracture	Ground
2=Moderate	Ulnar fracture, closed	Ground
2=Moderate	Ulnar fracture, closed	Ground
2=Moderate	Radial fracture, closed	Ground
2=Moderate	Radial fracture, closed	Ground
2=Moderate	Humeral fracture, closed	Ground
2=Moderate	Maxillary fracture NFS	Ground
2=Moderate	Orbit fracture, closed	Ground
2=Moderate	Orbit fracture, closed	Ground
2=Moderate	Zygoma fracture	Ground
2=Moderate	Zygoma fracture	Ground
1=Minor	Nose fracture NFS	Ground
2=Moderate	Pancreatic contusion, minor (no duct involvement)	Ground
1=Minor	Scalp contusion	Ground
1=Minor	297402	Ground
1=Minor	297202	Ground
1=Minor	297602	Ground
1=Minor	Facial skin abrasion	Ground
1=Minor	Neck skin abrasion	Ground
1=Minor	Thoracic skin abrasion	Ground
1=Minor	Thoracic skin contusion	Ground
1=Minor	Upper extremity skin abrasion	Ground
1=Minor	Upper extremity skin contusion	Ground
1=Minor	Upper extremity skin laceration, minor	Ground
1=Minor	Abdominal skin contusion	Ground
1=Minor	690202	Ground
1=Minor	Leg skin contusion (hematoma)	Ground

Occupant: 2001-82-60-1-3



Fire Information

Fire Occurrence	Major fire
Fire Origin	Engine compart
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	SEVERE 1
CDC	12 F L E E 6
Damage (C1-C6)	0 0 0 0 0 0
Crush (L and D)	0 0
Object Contacted 1	BRIDGE
Object Contacted 2	0

NASS Weighting Factor

Weighting factor	9.012
------------------	-------

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	THREE
Roadway Alignment	CURVE LEFT
Roadway Profile	UPHILL GRADE
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)	18

Vehicle Factors

Make-Model	Plymouth 20
Year	1996
Class	PASSENGER CAR
Body Type	2DR SEDAN/HT/CPE
Weight	108

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	No DRIVER
Pre-impact Location	DEPARTED ROADWAY

PASSENGER Factors

Age	26	Height	160	Weight	61
Gender					FEMALE-NOT PREG
Ejection					COMPLETE EJECT
Ejection Area					Rear
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 UNK DEPLY	
Airbag Deployment - Oth Seat	Not EQUIP W/ OTH

Injuries

Occupant	2001-82-60-1-3
MAIS	3=Serious
Seat Position	0

AIS Level

3=Serious

Unconscious on admission, length <1 hour
2=Moderate

2=Moderate

3=Serious

1=Minor

1=Minor

1=Minor

1=Minor

1=Minor

Injury Description

Lumbar fracture of vertebral body fracture, >202=Moderate cord injury, <203=Serious

Ground Hip joint dislocation

NFS Pelvic fracture, closed

Femoral head fracture

Multiple hand tendons laceration/rupture/tear

NFS Digital nerve laceration

Scalp laceration, minor

Scalp abrasion

Leg skin abrasion

Contacts

Cervical vertebral body fracture, >202=Moderate cord injury, <203=Serious

Ground

Ground

Ground

Ground

Ground

Ground

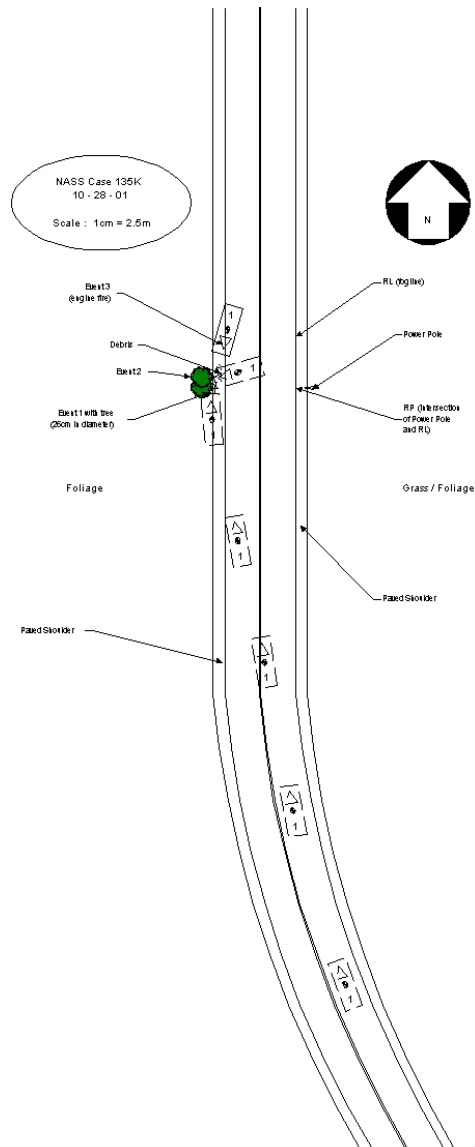
Ground

Ground

84 Case 2001-9-135

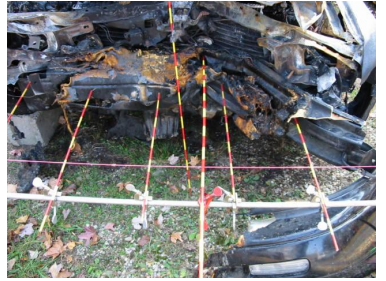
Summary:

V1 (1994 Nissan Maxima) was travelling North on a two-lane, two-way roadway when it travelled out of its lane and entered the Southbound lane. V1 then proceeded to depart the roadway to the left (West) side before striking two trees—26 cm in diameter—(EVENT 12) with its front plane; V1 came to final rest shortly thereafter, where it then caught fire (EVENT 2). V1 was towed from the scene; it sustained severe front plane damage and severe fire damage, as well.. V1 was equipped with a driver front airbag, however, deployment status could not be determined due to the fire (interviewees did not know, either). V1 also contained passive safety restraints—automatic, motorized two-point belts. V1 contained only a driver, no other occupants. The driver was transported to the hospital via EMS (ambulance) for reported incapacitating injuries; the driver was hospitalized and sustained a fractured right tibia and hip (source: lower instrument panel, toe pan loading leg) and lacerated liver (impact forces, safety restraint).



Vehicle	Body type	Make	Model	Year	Occ.#	Age	Occupant's sex	Maximum known occupant ais
1	4-DR SEDAN/HDTOP	Nissan	810/Maxima	1994	1	25	MALE	4=Severe

Occupant: 2001-9-135-1-1



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 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)	26

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)	0 15 44 39 29 22
Crush (L and D)	140 -33
Object Contacted 1	LARGE TREE
Object Contacted 2	LARGE TREE

NASS Weighting Factor

Weighting factor	129.829
------------------	---------

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	Nissan 810/Maxima
Year	1994
Class	PASSENGER CAR
Body Type	4-DR SEDAN/HDTOP
Weight	143

Pre-Crash Driver Data

Accident Type	6
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	25	Height	178	Weight	122
Gender			MALE		
Ejection			No EJECTION		
Ejection Area			No EJECTION		
Entrapment			Not ENTRAPPED		

Restraint Factors

Restrain	Lap belt
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

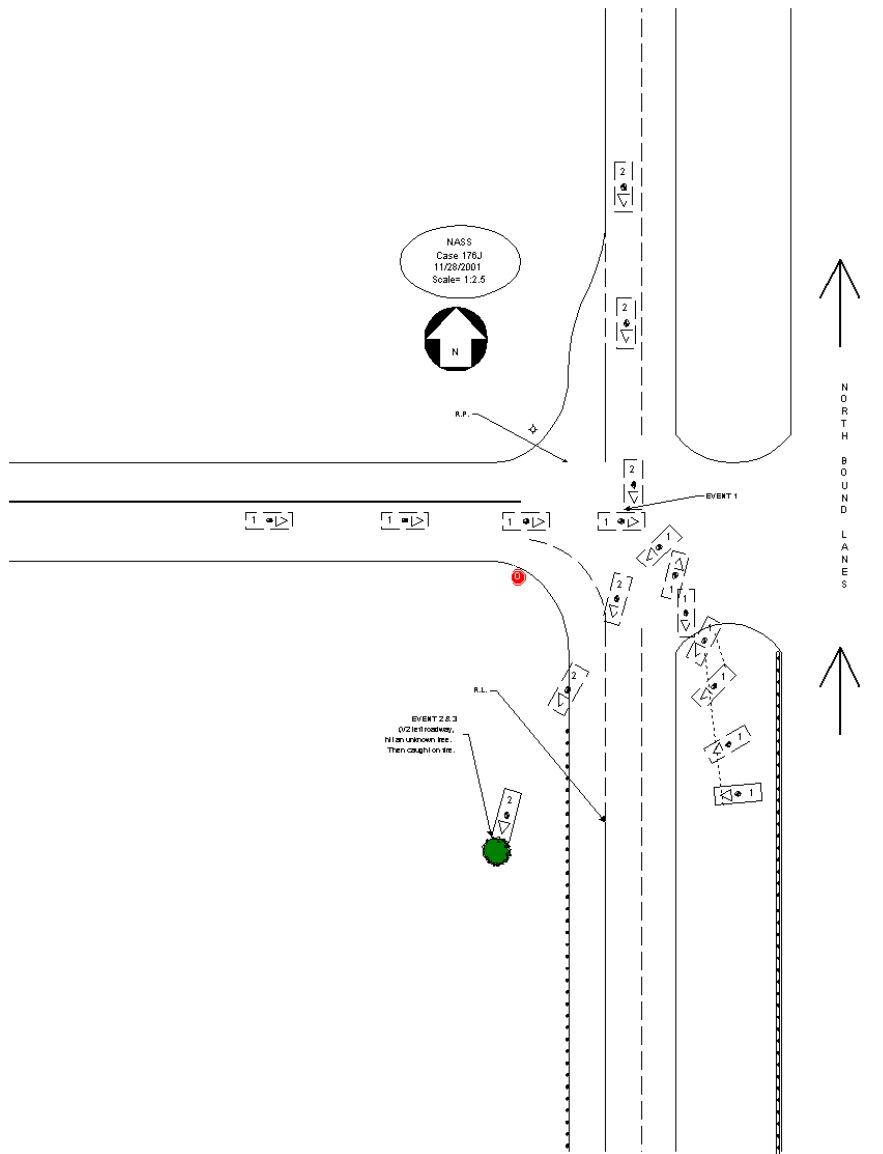
Occupant	2001-9-135-1-1
MAIS	4=Severe
Seat Position	Front left side

AIS Level	Injury Description	Contacts
1=Minor	Facial skin laceration NFS	Flying glass
1=Minor	Facial skin abrasion	Flying glass
3=Serious	Pelvic fracture, open/displaced/comminuted	Knee bolster
4=Severe	Hepatic laceration, major (<503=Serious)	Femoral shaft fracture
Unknown SOURCE		
2=Moderate	Splenic laceration NFS	Unknown SOURCE
2=Moderate	Hepatic contusion, minor (subcapsular, <503=Serious)	Lung contusion, unilateral
Unknown SOURCE		
1=Minor	Thoracic skin abrasion	Belt webb/buckle

85 Case 2001-9-176

Summary:

V1 (2001 Chevrolet Malibu) was traveling east on a two way, two lane undivided roadway before attempting to cross the intersecting roadway. V2 [1997 Chrysler Concord) was traveling south on a one way, two lane, divided roadway, approaching the intersecting roadway. V1 and V2 contacted each other in lane two of the north/south roadway; the front plane of V2 contacted the left rear of V1 (EVENT 1). V1 was pushed south into the median about 38 meters. V2 continued southwest into a nearby wooded area about 38 meters and then caught on fire (EVENT 2). Both vehicles were towed from the scene. V1 and V2 were towed. V1 contained the driver and no other occupants. The driver was transported to the hospital via EMS (ambulance) due to injuries. V2 contained the driver and no other occupants. The driver was not transported to the hospital and received only superficial injuries.



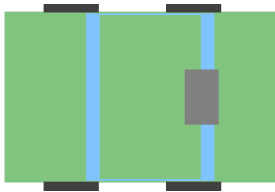
Vehicle	Body type	Make	Model	Year	Occ.#	Age	Occupant's sex	Maximum known occupant ais
1	4-DR SEDAN/HDTOP	Chevrolet	37	2001	1	53	FEMALE-NOT PREG	3=Serious
2	4-DR SEDAN/HDTOP	Chrysler	Concorde	1997	1	17	MALE	1=Minor

Occupant: 2001-9-176-1-1



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	37.575
------------------	--------

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	INTERSECTION REL
Traffic Control Device	
Police Reported Alcohol Presence	No ALCOHOL
Alcohol Test (< 95 indicates BAC 0.xx)	0

Vehicle Factors

Make-Model	Chevrolet 37
Year	2001
Class	PASSENGER CAR
Body Type	4-DR SEDAN/HDTOP
Weight	138

Pre-Crash Driver Data

Accident Type	89
Pre-event Movement	GOING STRAIGHT
Critical Pre-crash Event	CROSS OVER INTER
Attempted Avoidance Maneuver	No DRIVER
Pre-impact Stability	TRACKING
Pre-impact Location	STAYED IN LANE

DRIVER Factors

Age	53	Height	155	Weight	67
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	BAG DEPLOYED
Airbag Deployment - 1 st Seat	DR
PAS BAG DEPLY	
Airbag Deployment - Oth Seat	Not EQUIP W/ OTH

Injuries

Occupant	2001-9-176-1-1
MAIS	3=Serious
Seat Position	Front left side

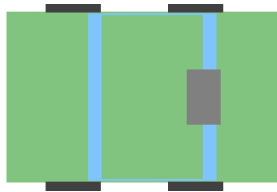
AIS Level	Injury Description	Contacts
3=Serious	>3 rib fractures one side & <3 other side, with stable chest	Unknown SOURCE
3=Serious	Lung contusion, uni-lateral	Unknown SOURCE
2=Moderate	Scapular fracture	Unknown SOURCE
1=Minor	Upper extremity skin contusion	Unknown SOURCE
1=Minor	Ankle joint sprain	Unknown SOURCE
1=Minor	Acute cervical spine strain without fracture or dislocation	Unknown SOURCE
1=Minor	Facial skin contusion	Unknown SOURCE
1=Minor	Leg skin contusion (hematoma)	Unknown SOURCE

Occupant: 2001-9-176-2-1



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	37.575
------------------	--------

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	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

Vehicle Factors

Make-Model	Chrysler Concorde
Year	1997
Class	PASSENGER CAR
Body Type	4-DR SEDAN/HDTOP
Weight	157

Pre-Crash Driver Data

Accident Type	88
Pre-event Movement	GOING STRAIGHT
Critical Pre-crash Event	XING ST-X PATH
Attempted Avoidance Manuever	STEERING LEFT
Pre-impact Stability	TRACKING
Pre-impact Location	STAYED IN LANE

DRIVER Factors

Age	17	Height	191	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

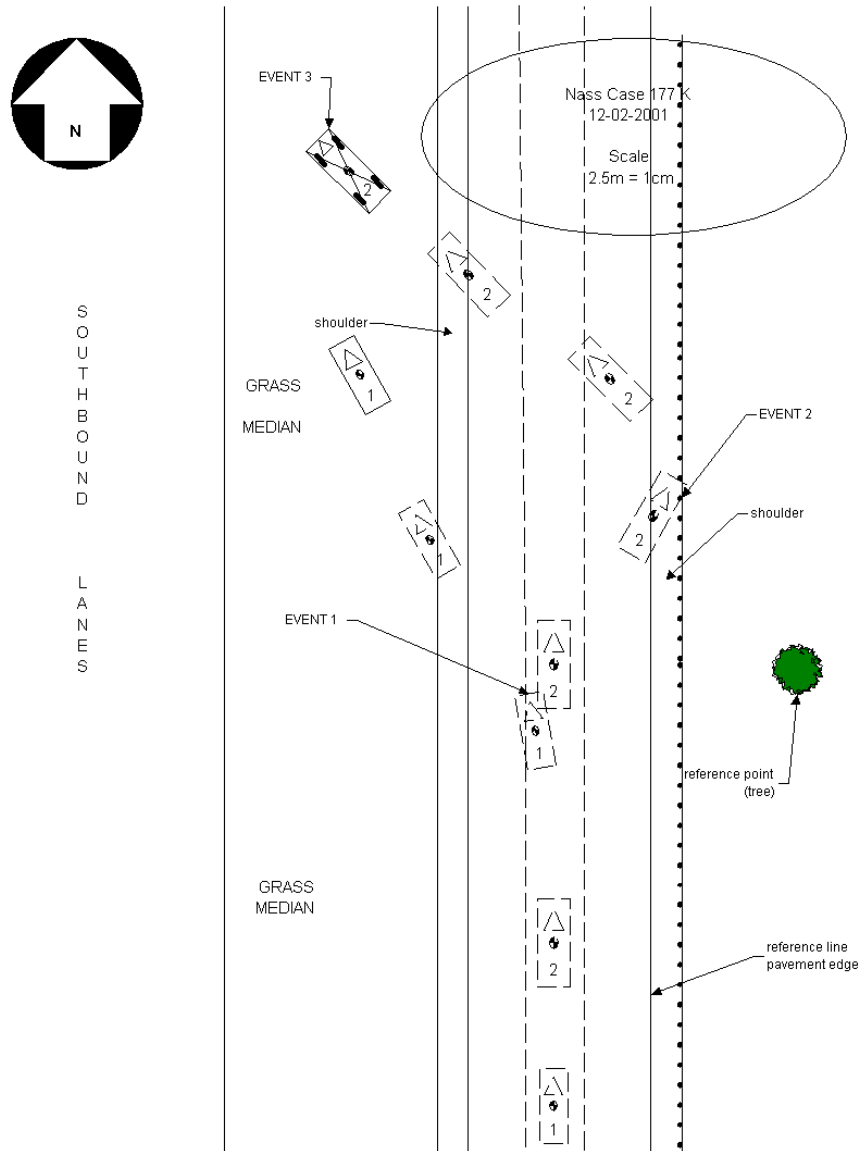
Occupant	2001-9-176-2-1
MAIS	1=Minor
Seat Position	Front left side

AIS Level	Injury Description	Contacts
1=Minor	Upper extremity skin laceration, minor	Belt webb/buckle
1=Minor	Leg skin contusion (hematoma)	Knee bolster

86 Case 2001-9-177

Summary:

Both v1 and v2 (1986 Ford Mustang and 1980 Ford F- Series Tk) were traveling N/Bon a 6 lane roadway (3 lanes in each direction). V1 attempted to change from lane 2 to lane 3 when the driver of v1 hit the driver of v2 in the rear (EVENT1). V1 then went to the left and regained control of the vehicle and ended up in the grass median. The driver of v2 went to the right, hit the guardrail (EVENT2), and then went to the left. V2 also ended up in the grass median but rolled onto its side and ended up upside down (EVENT 3). V2 also caught fire. Both vehicles contained a driver. Both vehicles were not able to be inspected. Both drivers were transported to a medical facility where they received treatment. Interviews have been obtained for both vehicles.



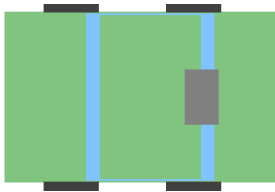
Vehicle	Body type	Make	Model	Year	Occ.#	Age	Occupant's sex	Maximum known occupant ais
1	3DR/2DR HATCHBAK	Ford	Mustang/Mustang II	1986	1	57	MALE	1=Minor
2	LARGE PICKUP	Ford	F-series P/U	1980	1	41	MALE	1=Minor

Occupant: 2001-9-177-1-1



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	62.303
------------------	--------

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	THREE
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 Mustang/Mustang II
Year	1986
Class	PASSENGER CAR
Body Type	3DR/2DR HATCHBAK
Weight	126

Pre-Crash Driver Data

Accident Type	24
Pre-event Movement	GOING STRAIGHT
Critical Pre-crash Event	Same DIR-LOSPEED
Attempted Avoidance Manuever	STEERING LEFT
Pre-impact Stability	TRACKING
Pre-impact Location	Left TRAVEL LANE

DRIVER Factors

Age	57	Height	183	Weight	88
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	2001-9-177-1-1
MAIS	1=Minor
Seat Position	Front left side

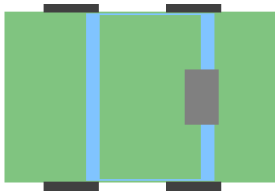
AIS Level	Injury Description	Contacts
1=Minor	Scalp abrasion	Unknown SOURCE
1=Minor	Scalp contusion	Unknown SOURCE
1=Minor	Upper extremity skin contusion	Unknown SOURCE

Occupant: 2001-9-177-2-1



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	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	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	62.303
------------------	--------

Rollover Characteristics

Number of Events	4
Rollover Initiation Type	TRIP-OVER
Location of Rollover Initiation	ROADSIDE/MEDIAN
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	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
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	1980
Class	TRUCK
Body Type	LARGE PICKUP
Weight	0

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	41	Height	173	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

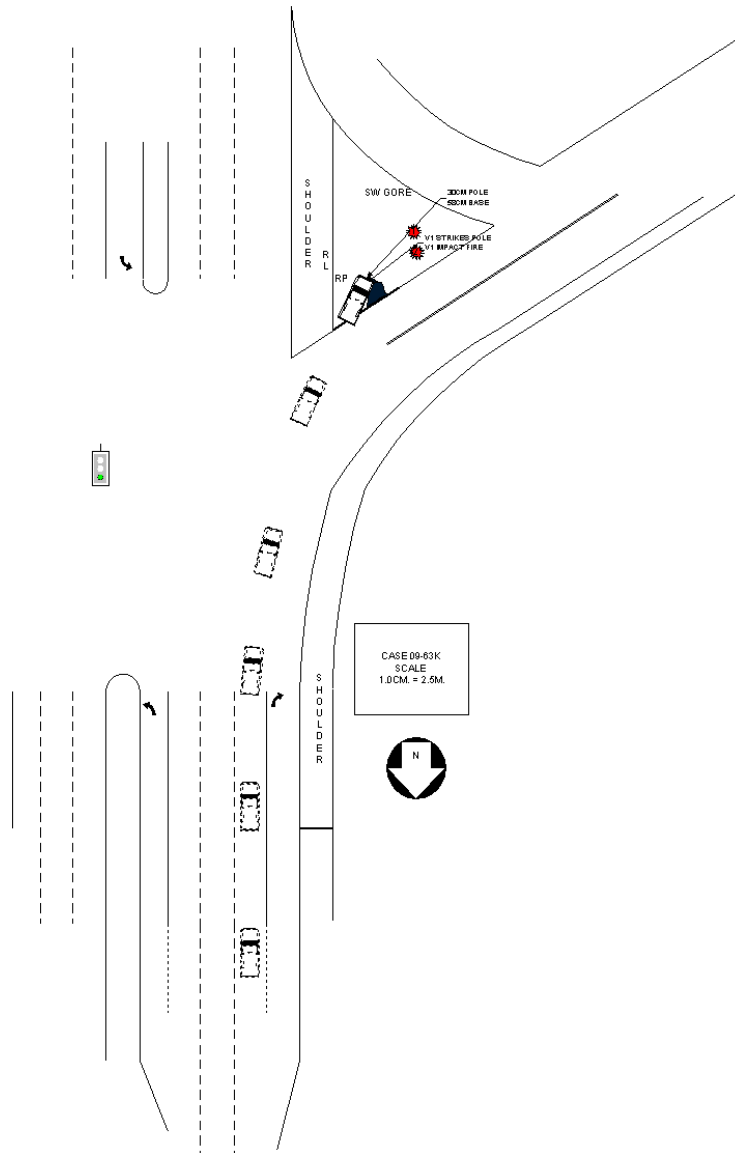
Occupant	2001-9-177-2-1
MAIS	1=Minor
Seat Position	Front left side

AIS Level	Injury Description	Contacts
1=Minor	Abdominal skin abrasion	Steering comb
1=Minor	Abdominal skin laceration, minor	Steering comb
1=Minor	690202	Unknown SOURCE
1=Minor	690600	Unknown SOURCE
1=Minor	Upper extremity skin abrasion	Unknown SOURCE
1=Minor	Abdominal skin contusion	Steering comb
1=Minor	Leg skin contusion (hematoma)	Knee bolster
1=Minor	Thoracic skin contusion	Steering comb

87 Case 2001-9-63

Summary:

Vehicle one, a 1992 Ford F-150 pick-up truck was traveling south, in lane two, of a five lane divided roadway, approaching an intersection. The driver of vehicle one fell asleep. Vehicle one departs the roadway to the right within the intersection. Vehicle one enters the southwest gore area and strikes a light support pole with its front plane. Vehicle one subsequently catches fire and burns. The driver is believed to have been removed from the vehicle by witnesses. Vehicle one was towed. The driver and sole occupant was transported and hospitalized with reported incapacitating injuries.



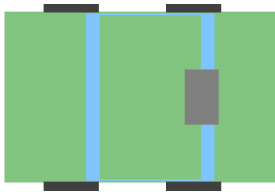
Vehicle	Body type	Make	Model	Year	Occ.#	Age	Occupant's sex	Maximum known occupant ais
1	LARGE PICKUP	Ford	F-series P/U	1992	1	49	MALE	3=Serious

Occupant: 2001-9-63-1-1



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	30.33
------------------	-------

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	STRAIGHT
Roadway Profile	LEVEL
Roadway Surface Type	ASPHALT
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 F-series P/U
Year	1992
Class	TRUCK
Body Type	LARGE PICKUP
Weight	182

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

DRIVER Factors

Age	49	Height	185	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	2001-9-63-1-1
MAIS	3=Serious
Seat Position	Front left side

AIS Level	Injury Description	Contacts
3=Serious	Femoral neck fracture	Unknown SOURCE
2=Moderate	Splenic contusion NFS	Unknown SOURCE
1=Minor	Nose fracture, closed	Unknown SOURCE
2=Moderate	Patellar fracture	Unknown SOURCE
1=Minor	792000	Unknown SOURCE
2=Moderate	Splenic laceration, minor (tear<3cms deep, no major vessel)	Unknown SOURCE
2=Moderate	Fibular fracture, bimalleolar or trimalleolar	Unknown SOURCE
1=Minor	Thoracic skin abrasion	Unknown SOURCE
1=Minor	Leg skin abrasion	Unknown SOURCE
1=Minor	Scalp laceration, minor	Unknown SOURCE
1=Minor	Thoracic skin contusion	Unknown SOURCE
1=Minor	Abdominal skin contusion	Unknown SOURCE