
Accident Data Analysis and Investigation Tools

NASS Case Summaries (1998)

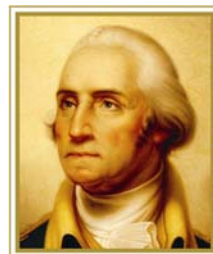
Prepared by:

*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

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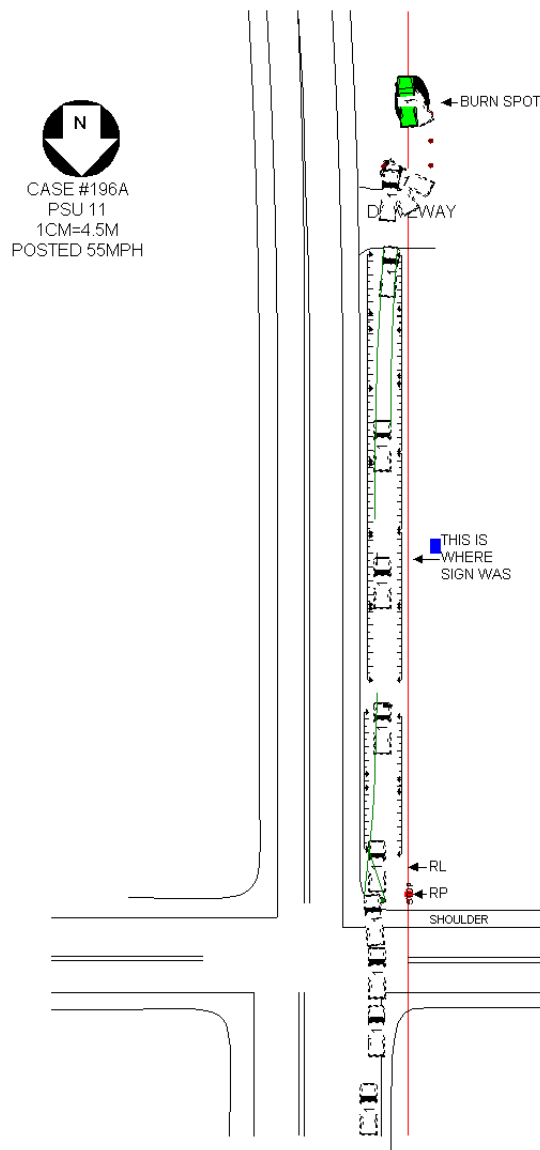
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1 Case 1998-11-196

Summary:

Vehicle one a 1996 Ford F-150 was traveling southbound in lane one of a two way not physically divided roadway. At the time of the accident the weather was clear and dry but dark outside with a posted speed limit of 55mph. Vehicle one exited the roadway at an intersection to the right. Vehicle one first hit a ditch off the right side of the road with it's front right tire. Then the vehicle continued on and hit a sign ("Welcome to the township" sign) . The sign was found in the bed of the truck upon vehicle inspection. The vehicle continued and the front of vehicle one contacted a tree off the right side of the roadway. The first tree was measured for damage, which extended 97cm across the width of the tree and 205cm up the tree. The vehicle rotated counter clockwise and the right rear contacted a second tree. The second tree was measured at 35cm across and 101 cm vertically for damage caused by V1. Vehicle one came to rest near the second tree impact facing southbound and caught fire. The fire burned the second tree. Vehicle one was towed due to vehicle damage. The driver of the vehicle was dead at the scene. The truck was engulfed in flames and the driver was laying across seat from the passenger side with his head into the windshield.



Vehicle	Body type	Make	Model	Year	Occ.#	Age	Occupant's sex	Maximum known occupant ais
1	LARGE PICKUP	Ford	F-series P/U	1996	1	36	MALE	6=Maximum

Occupant: 1998-11-196-1-1



Fire Information

Fire Occurrence	Major fire
Fire Origin	Engine compartment
Location of Fuel Leakage	No fuel leakage
Type of Fuel Tank	Metallic
Fuel Tank Location	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	0.5 KMPH
CDC	DELTA V CODED 3
Damage (C1-C6)	12 F D E W 4
Crush (L and D)	102 94 79 60 45 30
Object Contacted 1	180 -28
Object Contacted 2	LARGE TREE
	LARGE TREE

NASS Weighting Factor

Weighting factor	46.566202057
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Rollover Characteristics

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

Pre-Crash Environment

Traffic Flow	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	ALCOHOL PRESENT
Alcohol Test (< 95 indicates BAC 0.xx)	26

Vehicle Factors

Make-Model	Ford F-series P/U
Year	1996
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 DRIVER
Pre-impact Stability	TRACKING
Pre-impact Location	DEPARTED ROADWAY

DRIVER Factors

Age	36	Height	175	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	Unk IF DEPLOYED
Airbag Deployment - 1 st Seat	Unk DR BAG DEPLY
Airbag Deployment - Oth Seat	Not EQUIP W/ OTH

Injuries

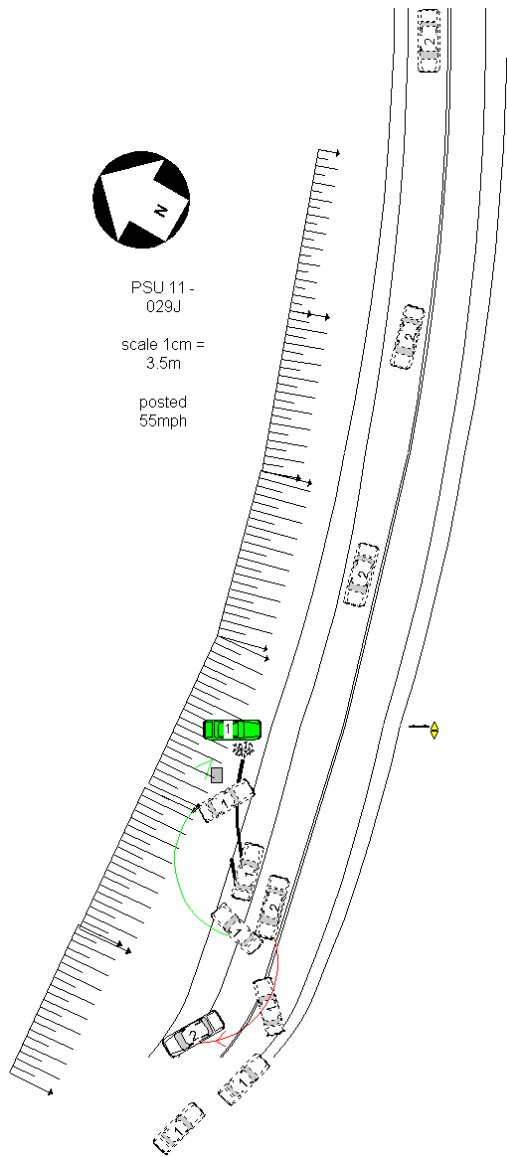
Occupant	1998-11-196-1-1
MAIS	6=Maximum
Seat Position	Front left side

AIS Level	Injury Description	Contacts
2=Moderate	Skull fracture, vault, NFS	Unknown SOURCE
4=Severe	Cerebral epidural or extradural hematoma, NFS	Unknown SOURCE
6=Maximum	Thoracic aortic laceration, and extramedastinal bleeding	Steering comb
6=Maximum	Burn, 2nd or 3rd degree, >90	

2 Case 1998-11-29

Summary:

Vehicle one, 1996 Mercury Sable GS, was travelling north on a two lane rural road, in a rain storm. Vehicle two, 1993 Pontiac Bonneville SSE, was travelling south on the same roadway. Vehicle one, right, contacted the front of vehicle two in the south bound lane. Vehicle one rotated sharply and left the road to the west coming to rest facing east. Vehicle two came to rest still facing south, partially off the road on the west shoulder. Both vehicles were towed. The driver and lone occupant of vehicle one was transported and hospitalized. The driver and lone occupant of vehicle two was transported and released. ***Of note: the driver of vehicle one was a mechanic, who was test driving vehicle one, to assess a problem with in vehicle one.



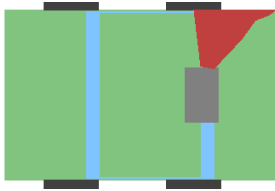
Vehicle	Body type	Make	Model	Year	Occ.#	Age	Occupant's sex	Maximum known occupant ais
1	4-DR SEDAN/HDTOP	Mercury	Sable	1996	1	34	MALE	5=Critical
2	4-DR SEDAN/HDTOP	Pontiac	Bonneville/Catalina	1993	1	69	MALE	1=Minor

Occupant: 1998-11-29-1-1



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, centered
Fuel Cap Location	Right side, behind rear axle
Fuel Tank Damage	Other damage
Fuel Type	Gasoline



Crash Severity

Nr. Quarter Turns	No rollover
Impact Speed	998
Total, Longitudal, and Lateral δV	31 -11 -29
Est. δV with sequence number	DELTA V CODED 1
CDC	82 R B E W 5
Damage (C1-C6)	82 86 63 42 14 7
Crush (L and D)	122 -163
Object Contacted 1	VEHICLE NO. 2
Object Contacted 2	0

NASS Weighting Factor

Weighting factor	49.483436358
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Rollover Characteristics

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

Pre-Crash Environment

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

Vehicle Factors

Make-Model	Mercury Sable
Year	1996
Class	PASSENGER CAR
Body Type	4-DR SEDAN/HDTOP
Weight	157

Pre-Crash Driver Data

Accident Type	64
Pre-event Movement	NEGOTIATE CURVE
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	34	Height	188	Weight	73
Gender					MALE
Ejection					PARTIAL EJECTION
Ejection Area					Right FRONT
Entrapment					Not ENTRAPPED

Restraint Factors

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

Injuries

Occupant	1998-11-29-1-1
MAIS	5=Critical
Seat Position	Front left side

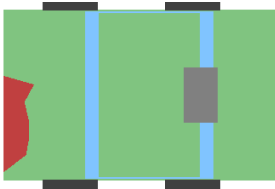
AIS Level	Injury Description	Contacts
1=Minor	Facial skin laceration, minor	Flying glass
5=Critical	Unconscious on admission, inappropriate movements	Right window+oth
3=Serious	Cerebral subarachnoid hemorrhage	Right window+oth
3=Serious	Cerebral subarachnoid hemorrhage	Right window+oth
4=Severe	Cerebral intraventricular hemorrhage	Right window+oth
4=Severe	Cerebral intraventricular hemorrhage	Right window+oth
5=Critical	Intracerebral hematoma, small, bilateral	Right window+oth
3=Serious	Cerebral contusions, multiple, bilateral but NFS	Right window+oth
3=Serious	Cerebral edema, mild (compressed ventricles w/o brain stem)	Right window+oth
1=Minor	Scalp laceration, minor	Right window+oth
1=Minor	Scalp laceration, minor	Right window+oth
1=Minor	Facial skin avulsion, superficial	Right window+oth
2=Moderate	Carpus or metacarpus fracture	Transmiss lever
1=Minor	Upper extremity skin laceration NFS	Transmiss lever
1=Minor	Upper extremity skin abrasion	Transmiss lever
1=Minor	Facial skin abrasion	Right window+oth
1=Minor	Upper extremity skin contusion	Left apnel
4=Severe	Lung contusion, bilateral	Transmiss lever

Occupant: 1998-11-29-2-1



Fire Information

Fire Occurence	No fire
Fire Origin	No fire
Location of Fuel Leakage	No fuel leakage
Type of Fuel Tank	Metallic
Fuel Tank Location	Forward of rear axle, centered
Fuel Cap Location	Left side, behind rear axle
Fuel Tank Damage	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	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	Pontiac Bonneville/Catalina
Year	1993
Class	PASSENGER CAR
Body Type	4-DR SEDAN/HDTOP
Weight	152

Crash Severity

Nr. Quarter Turns	No rollover
Impact Speed	998
Total, Longitudal, and Lateral δV	31 -29 11
Est. δV with sequence number	DELTA V CODED 1
CDC	11 F D E W 2
Damage (C1-C6)	0 33 38 37 30 44
Crush (L and D)	154 24
Object Contacted 1	VEHICLE NO. 1
Object Contacted 2	0

Pre-Crash Driver Data

Accident Type	65
Pre-event Movement	NEGOTIATE CURVE
Critical Pre-crash Event	Same DIR-OV LEFT
Attempted Avoidance Manuever	No AVOIDANCE
Pre-impact Stability	TRACKING
Pre-impact Location	STAYED IN LANE

NASS Weighting Factor

Weighting factor	49.483436358
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DRIVER Factors

Age	69	Height	178	Weight	79
Gender					MALE
Ejection					No EJECTION
Ejection Area					No EJECTION
Entrapment					Not ENTRAPPED

Rollover Characteristics

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

Restraint Factors

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

Injuries

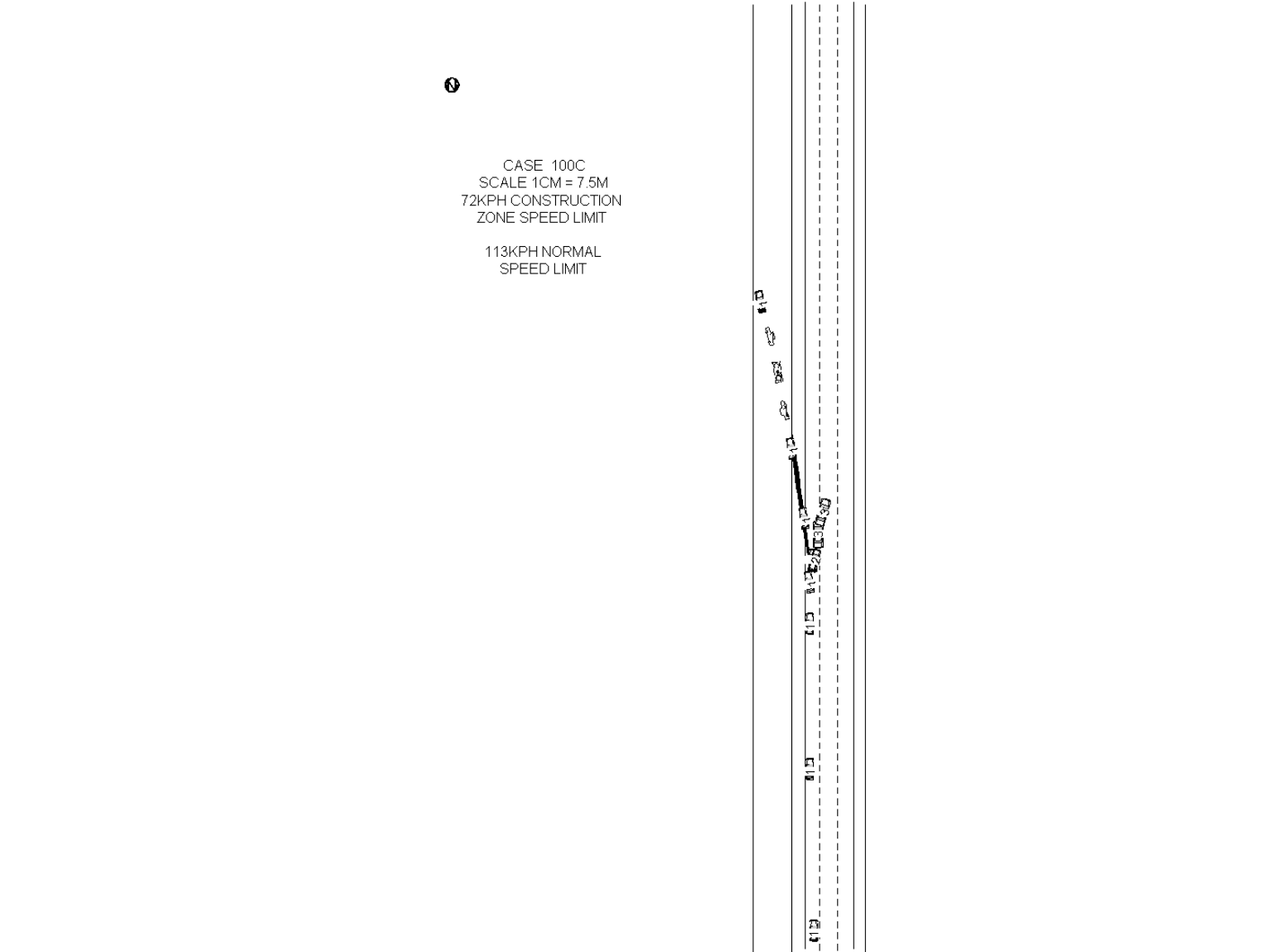
Occupant	1998-11-29-2-1
MAIS	1=Minor
Seat Position	Front left side

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

3 Case 1998-12-100

Summary:

THE CRASH HAPPENED ON A 3 LANE, ONE WAY EXPRESSWAY. AS THE 3 VEHICLES TRAVELED THROUGH A CONSTRUCTION ZONE, ALL HEADED NORTH, VEHICLES 2 AND 3 WERE STOPPED IN TRAFFIC. VEHICLE 1 CONTACTED THE REAR OF VEHICLE 2 PUSHING VEHICLE 2'S FRONT INTO VEHICLE 3'S REAR. VEHICLE 1 THEN PROCEEDED INTO THE DOWN SLOPED MEDIAN CAUSING IT TO ROLL TO IT'S LEFT 4 QUARTER TURNS, L ANDING ON IT'S WHEELS. VEHICLES 1 AND 2 WERE TOWED WHILE VEHICLE 3 WAS NOT.THE DRIVER OF VEHICLE1 AND THE PASSENGER OF VEHICLE 2 WERE TRANSPORTED FOR MEDICAL ATTENTION WHILE ALL OTHERS WERE NOT.



Vehicle	Body type	Make	Model	Year	Occ.	#Age	Occupant's sex	Maximum known occupant ais
1	4-DR SEDAN/HDTOP	Chevrolet	Cavalier	1988	1	48	FEMALE-NOT PREG	1=Minor
2	COMPACT UTILITY	Oldsmobile	Bravada	1997	1	40	MALE	1=Minor
2	COMPACT UTILITY	Oldsmobile	Bravada	1997	2	42	FEMALE-NOT PREG	1=Minor

Occupant: 1998-12-100-1-1



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

Crash Severity

Nr. Quarter Turns	4 QUARTER TURNS
Impact Speed	998
Total, Longitudal, and Lateral δV	64 -63 -11
Est. δV with sequence number	DELTA V CODED 1
CDC	12 F Z E W 3
Damage (C1-C6)	0 23 48 66 72 86
Crush (L and D)	140 25
Object Contacted 1	VEHICLE NO. 2
Object Contacted 2	ROLLOVER-OVERTURN

NASS Weighting Factor

Weighting factor	27.482030965
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Rollover Characteristics

Number of Events	3
Rollover Initiation Type	FALL-OVER
Location of Rollover Initiation	ROADSIDE/MEDIAN
Rollover Initiation Object Contacted	TURN/FALL-OVER
Location on Vehicle where Principal Tripping Force was Applied	NONCONTACT FORCE
Direction of Initial Roll	ROLL LEFT

Vehicle Factors

Make-Model	Chevrolet Cavalier
Year	1988
Class	PASSENGER CAR
Body Type	4-DR SEDAN/HDTOP
Weight	107

Pre-Crash Driver Data

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

DRIVER Factors

Age	48	Height	170	Weight	59
Gender					FEMALE-NOT PREG
Ejection					No EJECTION
Ejection Area					No EJECTION
Entrapment					ENTRAPPED

Restraint Factors

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

Injuries

Occupant	1998-12-100-1-1
MAIS	1=Minor
Seat Position	Front left side

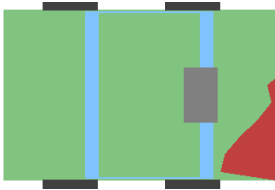
AIS Level	Injury Description	Contacts
1=Minor	Upper extremity skin abrasion	Left apnel
1=Minor	Leg skin abrasion	Center panel
1=Minor	Leg skin contusion (hematoma)	Center panel
1=Minor	Thoracic skin contusion	Belt webb/buckle
1=Minor	Upper extremity skin laceration, minor	Left apnel
1=Minor	Acute cervical spine strain without fracture or dislocation	Sunvisor
1=Minor	Abdominal skin contusion	Belt webb/buckle

Occupant: 1998-12-100-2-1



Fire Information

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



Crash Severity

Nr. Quarter Turns	No rollover
Impact Speed	998
Total, Longitudal, and Lateral δV	38 37 -6
Est. δV with sequence number	DELTA V CODED 1
CDC	86 B Y E W 6
Damage (C1-C6)	81 74 53 27 6 12
Crush (L and D)	152 -37
Object Contacted 1	VEHICLE NO. 1
Object Contacted 2	VEHICLE NO. 3

NASS Weighting Factor

Weighting factor	27.482030965
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Rollover Characteristics

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

Pre-Crash Environment

Traffic Flow	ONE WAY
Number of Travel Lanes	THREE
Roadway Alignment	STRAIGHT
Roadway Profile	LEVEL
Roadway Surface Type	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	Oldsmobile Bravada
Year	1997
Class	PASSENGER CAR
Body Type	COMPACT UTILITY
Weight	183

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	40	Height	165	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	NONDEPLOYED
Airbag Deployment - 1 st Seat	NONDEPLOYED
Airbag Deployment - Oth Seat	Not EQUIP W/ OTH

Injuries

Occupant	1998-12-100-2-1
MAIS	1=Minor
Seat Position	Front left side

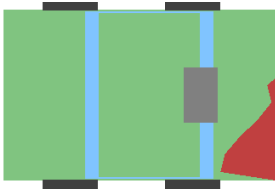
AIS Level	Injury Description	Contacts
1=Minor	Leg skin laceration, minor	Knee bolster

Occupant: 1998-12-100-2-2



Fire Information

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



Pre-Crash Environment

Traffic Flow	ONE WAY
Number of Travel Lanes	THREE
Roadway Alignment	STRAIGHT
Roadway Profile	LEVEL
Roadway Surface Type	ASPHALT
Roadway Surface Condition	DRY
Light Conditions	DAYLIGHT
Atmospheric Conditions	No ADVERSE COND
Relation to Intersection	NONINTER/NONJUNC
Traffic Control Device	
Police Reported Alcohol 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	38 37 -6
Est. δV with sequence number	DELTA V CODED 1
CDC	86 B Y E W 6
Damage (C1-C6)	81 74 53 27 6 12
Crush (L and D)	152 -37
Object Contacted 1	VEHICLE NO. 1
Object Contacted 2	VEHICLE NO. 3

NASS Weighting Factor

Weighting factor	27.482030965
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Rollover Characteristics

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

Vehicle Factors

Make-Model	Oldsmobile Bravada
Year	1997
Class	PASSENGER CAR
Body Type	COMPACT UTILITY
Weight	183

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	42	Height	150	Weight	42
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

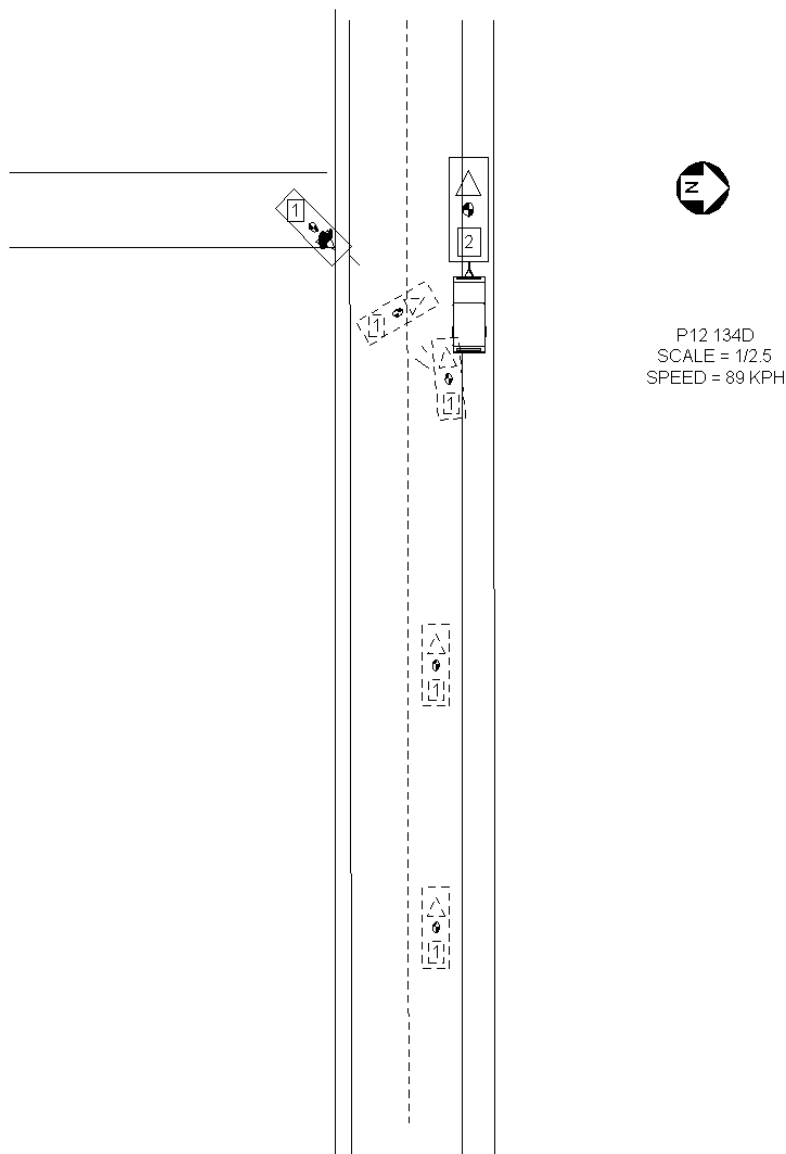
Injuries

Occupant	1998-12-100-2-2
MAIS	1=Minor
Seat Position	Front right side

AIS Level	Injury Description	Contacts
1=Minor	Acute cervical spine strain without fracture or dislocation	Seat, back
1=Minor	Lumbar spine acute strain without fracture or dislocation	Seat, back

4 Case 1998-12-134

Summary:
BOTH VEHICLE ONE AND VEHICLE TWO WERE HEADING WEST ON A TWO LANE, TWO WAY, DRY, ASPHALT ROADWAY. VEHICLE TWO HAD PULLED OVER TO THE SIDE OF THE ROAD DUE TO MECHANICAL PROBLEMS. VEHICLE ONE, SUBSEQUENTLY, RAN INTO THE BACK OF THE VEHICLE TWO. VEHICLE ONE WAS TOWED DUE TO DAMAGE. VEHICLE TWO WAS TOWED DUE TO MECHANICAL PROBLEMS. THE OCCUPANT OF VEHICLE ONE WAS TRANSPORTED TO A LOCAL TRAUMA CENTER FOR MEDICAL TREATMENT.



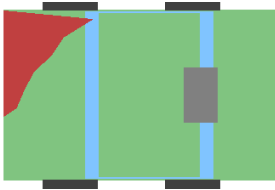
Vehicle	Body type	Make	Model	Year	Occ.#	Age	Occupant's sex	Maximum known occupant ais
1	COMPACT PICKUP	Chevrolet	S-10	1985	1	25	MALE	1=Minor

Occupant: 1998-12-134-1-1



Fire Information

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



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	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	72 F Z E W 6
Damage (C1-C6)	19 31 44 72 88 130
Crush (L and D)	156 54
Object Contacted 1	VEHICLE NO. 2
Object Contacted 2	0

NASS Weighting Factor

Weighting factor	47.412264785
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Rollover Characteristics

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

Vehicle Factors

Make-Model	Chevrolet S-10
Year	1985
Class	TRUCK
Body Type	COMPACT PICKUP
Weight	120

Pre-Crash Driver Data

Accident Type	20
Pre-event Movement	GOING STRAIGHT
Critical Pre-crash Event	STOPPED
Attempted Avoidance Manuever	No DRIVER
Pre-impact Stability	TRACKING
Pre-impact Location	Left TRAVEL LANE

DRIVER Factors

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

Restraint Factors

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

Injuries

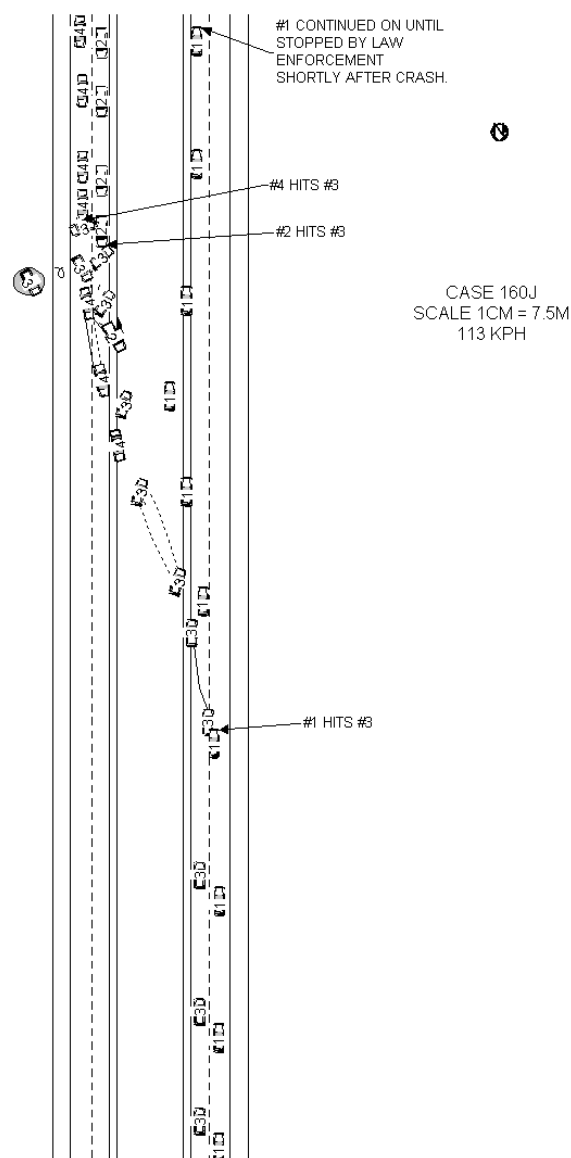
Occupant	1998-12-134-1-1
MAIS	1=Minor
Seat Position	Front left side

AIS Level	Injury Description	Contacts
1=Minor	Leg skin laceration, minor	Transmiss lever
1=Minor	Upper extremity skin abrasion	Center panel

5 Case 1998-12-160

Summary:

VEHICLES 1 AND 3 WERE HEADED SOUTH ON A 2 LANE EXPRESSWAY WHILE VEHICLES 2 AND 4 WERE HEADED NORTH ON THE SAME EXPRESSWAY. THE SOUTHBOUND AND NORTH BOUND LANES WERE SEPARATED BY A GRASSY MEDIAN. VEHICLE 1 CONTACTED VEHICLE 3 IN THE REAR WITH IT'S FRONT, SENDING VEHICLE 3 ACROSS THE MEDIAN INTO ON-COMMING TRAFFIC. VEHICLE 1 DIPPED INTO THE GRASSY MEDIAN BRIEFLY, RE-ENTERED THE SOUTH BOUND EXPRESSWAY, AND LEFT THE SCENE. VEHICLE 3 THEN CONTACTED VEHICLE 2 IN THE FRONT WITH IT'S LEFT PLANE. VEHICLE 3 SPUN COUNTER CLOCKWISE AND WAS STRUCK IN THE RIGHT WITH THE FRONT OF VEHICLE 4. VEHICLE 3 THEN CONTINUED SPINNING INTO THE DITCH WHERE IT BURST INTO FLAMES. BY NOW VEHICLES 2 AND 3 HAD COME TO REST ON THE WEST SHOULDER OF THE NORTHBOUND LANES. ALL OCCUPANTS OF VEHICLES 2 AND 3 WERE TRANSPORTED TO MEDICAL FACILITIES. NO MEDICAL ATTENTION WAS NEEDED FOR THE OCCUPANTS OF VEHICLES 1 AND 4. VEHICLES 2,3, AND 4 WERE TOWED WHILE VEHICLE 1 WAS NOT. ALCOHOL WAS DETERMINED TO BE A FACTOR IN THE CRASH.



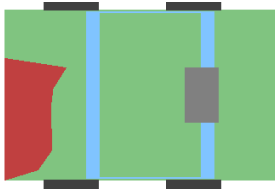
Vehicle	Body type	Make	Model	Year	Occ.#	Age	Occupant's sex	Maximum known occupant
2	LARGE PICKUP	GMC	"C,K,R,V-series P/U"	1991	11	36	FEMALE-NOT PREG	4=Severe
3	LARGE UTILITY	Ford	Bronco-fullsize	1995	51	42	FEMALE-NOT PREG	5=Critical
3	LARGE UTILITY	Ford	Bronco-fullsize	1995	52	14	FEMALE-NOT PREG	1=Minor
3	LARGE UTILITY	Ford	Bronco-fullsize	1995	53	14	FEMALE-NOT PREG	1=Minor
4	2DR SEDAN/HT/CPE	Oldsmobile	Delta 88	1982	21	51	MALE	0=None

Occupant: 1998-12-160-2-1



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



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

Crash Severity

Nr. Quarter Turns	No rollover
Impact Speed	998
Total, Longitudal, and Lateral δV	60 -57 21
Est. δV with sequence number	DELTA V CODED 2
CDC	91 F D E W 5
Damage (C1-C6)	49 71 69 68 72 91
Crush (L and D)	181 0
Object Contacted 1	VEHICLE NO. 3
Object Contacted 2	0

NASS Weighting Factor

Weighting factor	27.482030965
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Rollover Characteristics

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

Vehicle Factors

Make-Model	GMC "C,K,R,V-series P/U"
Year	1991
Class	TRUCK
Body Type	LARGE PICKUP
Weight	179

Pre-Crash Driver Data

Accident Type	98
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	36	Height	175	Weight	61
Gender					FEMALE-NOT PREG
Ejection					No EJECTION
Ejection Area					No EJECTION
Entrapment					JAMMED DOOR/FIRE

Restraint Factors

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

Injuries

Occupant	1998-12-160-2-1
MAIS	4=Severe
Seat Position	Front left side

AIS Level	Injury Description	Contacts
4=Severe	Lung contusion, bilateral	Steering comb
1=Minor	297402	Left apnel
1=Minor	297402	Left apnel
1=Minor	Leg skin contusion (hematoma)	Foot controls
2=Moderate	Facial skin laceration, major (>10 cm & into sub-Q)	Left apnel
1=Minor	Thoracic skin contusion	Belt webb/buckle
1=Minor	Leg skin abrasion	Left apnel
1=Minor	Mouth injury NFS	Left apnel
2=Moderate	Calcaneus fracture	Foot controls
2=Moderate	Ankle joint dislocation NFS	Foot controls
2=Moderate	Lethargic on admission, unconscious (length NFS)	Left apnel
1=Minor	Leg skin laceration NFS	Left apnel
3=Serious	Cerebral contusion, NFS	Left apnel

Occupant: 1998-12-160-3-1



Fire Information

Fire Occurrence	Major fire
Fire Origin	Engine compart
Location of Fuel Leakage	No fuel leakage
Type of Fuel Tank	Metallic
Fuel Tank Location	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	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	NONINTER/NONJUNC
Traffic Control Device	
Police Reported Alcohol Presence	No ALCOHOL
Alcohol Test (< 95 indicates BAC 0.xx)	0

Crash Severity

Nr. Quarter Turns	No rollover
Impact Speed	998
Total, Longitudal, and Lateral δV	52 -9 51
Est. δV with sequence number	DELTA V CODED 2
CDC	9 L Y E W 4
Damage (C1-C6)	0 1 41 43 55 25
Crush (L and D)	231 -21
Object Contacted 1	VEHICLE NO. 2
Object Contacted 2	VEHICLE NO. 4

NASS Weighting Factor

Weighting factor	27.482030965
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Rollover Characteristics

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

Vehicle Factors

Make-Model	Ford Bronco-fullsize
Year	1995
Class	PASSENGER CAR
Body Type	LARGE UTILITY
Weight	208

Pre-Crash Driver Data

Accident Type	25
Pre-event Movement	No DRIVER
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	42	Height	0	Weight	0
Gender					FEMALE-NOT PREG
Ejection					No EJECTION
Ejection Area					No EJECTION
Entrapment					ENTRAPPED

Restraint Factors

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

Injuries

Occupant	1998-12-160-3-1
MAIS	5=Critical
Seat Position	Front left side

AIS Level	Injury Description	Contacts
1=Minor	Leg skin laceration, minor	Unknown SOURCE
1=Minor	Leg skin abrasion	Unknown SOURCE
1=Minor	Leg skin laceration, minor	Unknown SOURCE
1=Minor	Scalp laceration, minor	Unknown SOURCE
1=Minor	Leg skin laceration, minor	Unknown SOURCE
1=Minor	Leg skin contusion (hematoma)	Unknown SOURCE
1=Minor	297402	Unknown SOURCE
1=Minor	297402	Unknown SOURCE
1=Minor	Scalp contusion	Unknown SOURCE
3=Serious	Ulnar fracture, open/displaced/comminuted	Left apnel
3=Serious	Cerebral subarachnoid hemorrhage	Unknown SOURCE
4=Severe	Cerebral intraventricular hemorrhage	Unknown SOURCE
4=Severe	Cerebral intraventricular hemorrhage	Unknown SOURCE
3=Serious	Cerebral contusion, single, small (<30ccs)	Unknown SOURCE
4=Severe	Lung contusion, bilateral	Unknown SOURCE
3=Serious	Myocardial contusion NFS	Unknown SOURCE
2=Moderate	Facial skin laceration, major (>10 cm & into sub-Q)	Unknown SOURCE
5=Critical	Brain stem hemorrhage	Unknown SOURCE
4=Severe	Cerebellar hematoma, NFS	Unknown SOURCE
3=Serious	Basilar skull fracture, NFS	Unknown SOURCE
5=Critical	Unconscious on admission, inappropriate movements	Unknown SOURCE

Occupant: 1998-12-160-3-2



Fire Information

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



Pre-Crash Environment

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

Crash Severity

Nr. Quarter Turns	No rollover
Impact Speed	998
Total, Longitudal, and Lateral δV	52 -9 51
Est. δV with sequence number	DELTA V CODED 2
CDC	9 L Y E W 4
Damage (C1-C6)	0 1 41 43 55 25
Crush (L and D)	231 -21
Object Contacted 1	VEHICLE NO. 2
Object Contacted 2	VEHICLE NO. 4

NASS Weighting Factor

Weighting factor	27.482030965
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Rollover Characteristics

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

Vehicle Factors

Make-Model	Ford Bronco-fullsize
Year	1995
Class	PASSENGER CAR
Body Type	LARGE UTILITY
Weight	208

Pre-Crash Driver Data

Accident Type	25
Pre-event Movement	No DRIVER
Critical Pre-crash Event	Same DIR-OV LEFT
Attempted Avoidance Manuever	No DRIVER
Pre-impact Stability	TRACKING
Pre-impact Location	STAYED IN LANE

PASSENGER Factors

Age	14	Height	0	Weight	0
Gender					FEMALE-NOT PREG
Ejection					No EJECTION
Ejection Area					No EJECTION
Entrapment					ENTRAPPED

Restraint Factors

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

Injuries

Occupant	1998-12-160-3-2
MAIS	1=Minor
Seat Position	Front right side

AIS Level	Injury Description	Contacts
1=Minor	Scalp abrasion	Unknown SOURCE
1=Minor	Facial skin abrasion	Unknown SOURCE
1=Minor	Leg skin abrasion	Unknown SOURCE
1=Minor	Leg skin abrasion	Unknown SOURCE
1=Minor	Leg skin laceration	Unknown SOURCE
	NFS	
1=Minor	Leg skin abrasion	Unknown SOURCE
1=Minor	Abdominal skin abrasion	Unknown SOURCE
1=Minor	Leg skin abrasion	Unknown SOURCE
1=Minor	Abdominal skin contusion	Unknown SOURCE
1=Minor	Awake on admission, NFS	Unknown SOURCE

Occupant: 1998-12-160-3-3



Fire Information

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



Pre-Crash Environment

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

Crash Severity

Nr. Quarter Turns	No rollover
Impact Speed	998
Total, Longitudal, and Lateral δV	52 -9 51
Est. δV with sequence number	DELTA V CODED 2
CDC	9 L Y E W 4
Damage (C1-C6)	0 1 41 43 55 25
Crush (L and D)	231 -21
Object Contacted 1	VEHICLE NO. 2
Object Contacted 2	VEHICLE NO. 4

NASS Weighting Factor

Weighting factor	27.482030965
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Rollover Characteristics

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

Vehicle Factors

Make-Model	Ford Bronco-fullsize
Year	1995
Class	PASSENGER CAR
Body Type	LARGE UTILITY
Weight	208

Pre-Crash Driver Data

Accident Type	25
Pre-event Movement	No DRIVER
Critical Pre-crash Event	Same DIR-OV LEFT
Attempted Avoidance Manuever	No DRIVER
Pre-impact Stability	TRACKING
Pre-impact Location	STAYED IN LANE

PASSENGER Factors

Age	14	Height	0	Weight	0
Gender					FEMALE-NOT PREG
Ejection					No EJECTION
Ejection Area					No EJECTION
Entrapment					ENTRAPPED

Restraint Factors

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

Injuries

Occupant	1998-12-160-3-3
MAIS	1=Minor
Seat Position	Second right

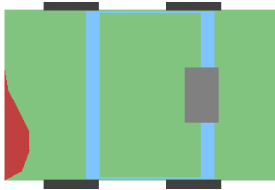
AIS Level	Injury Description	Contacts
1=Minor	Leg skin contusion (hematoma)	Unknown SOURCE
1=Minor	Acute cervical spine strain without fracture or dislocation	Unknown SOURCE

Occupant: 1998-12-160-4-1



Fire Information

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



Pre-Crash Environment

Traffic Flow	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	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	35 -34 6
Est. δV with sequence number	DELTA V CODED 3
CDC	12 F D E W 2
Damage (C1-C6)	26 37 36 20 5 0
Crush (L and D)	176 0
Object Contacted 1	VEHICLE NO. 3
Object Contacted 2	0

NASS Weighting Factor

Weighting factor	27.482030965
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Rollover Characteristics

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

Vehicle Factors

Make-Model	Oldsmobile Delta 88
Year	1982
Class	PASSENGER CAR
Body Type	2DR SEDAN/HT/CPE
Weight	166

Pre-Crash Driver Data

Accident Type	98
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	51	Height	0	Weight	0
Gender					MALE
Ejection					No EJECTION
Ejection Area					No EJECTION
Entrapment					Not ENTRAPPED

Restraint Factors

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

Injuries

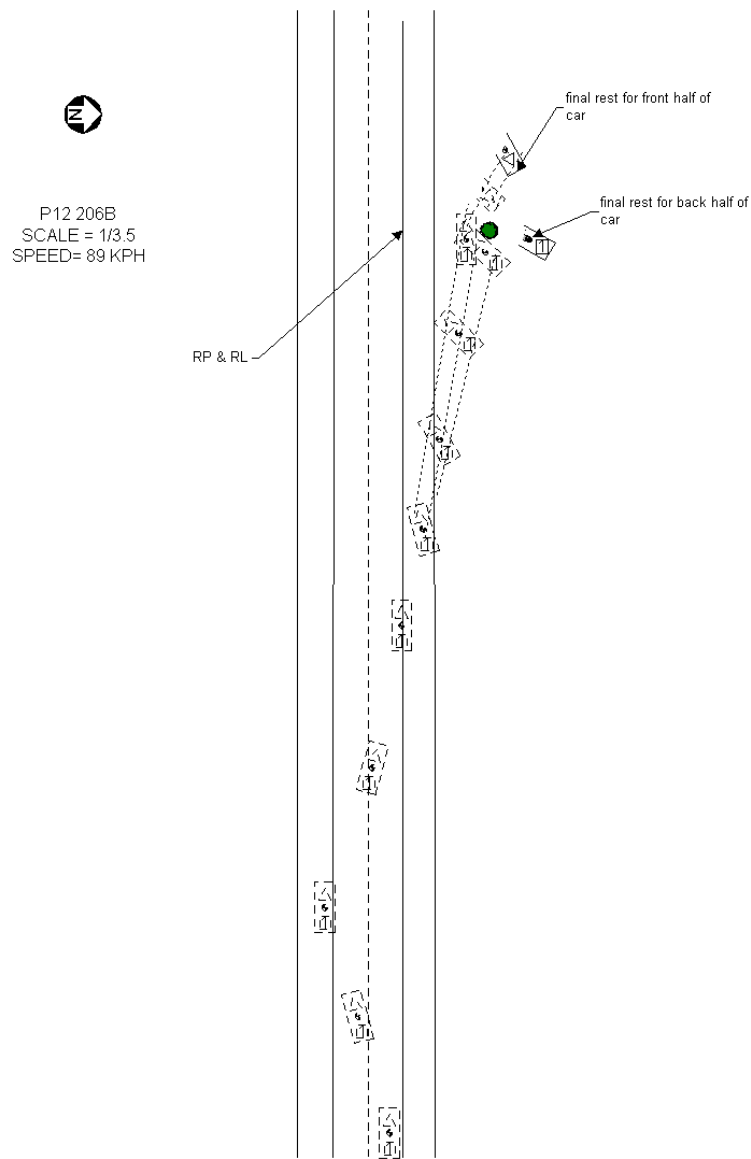
Occupant	1998-12-160-4-1
MAIS	0=None
Seat Position	Front left side

AIS Level	Injury Description	Contacts
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6 Case 1998-12-206

Summary:

Vehicle one was heading west on a two lane two way dry asphalt roadway. The vehicle left the road on the left side of the road then reentered, crossing all lanes and left the road on the right side striking a tree on the right side splitting the car in half. The vehicle was towed due to damage and the only occupant of this vehicle was killed. The occupant was unrestrained.



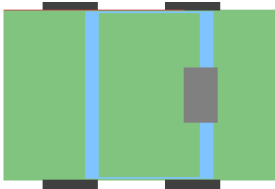
Vehicle	Body type	Make	Model	Year	Occ.#	Age	Occupant's sex	Maximum known occupant ais
1	5DR/4DR HATCHBAK	Dodge	Shadow	1989	1	20	MALE	7=Unk. sev.

Occupant: 1998-12-206-1-1



Fire Information

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



Pre-Crash Environment

Traffic Flow	Not DIVIDED
Number of Travel Lanes	TWO
Roadway Alignment	STRAIGHT
Roadway Profile	LEVEL
Roadway Surface Type	ASPHALT
Roadway Surface Condition	DRY
Light Conditions	DARK
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	>54 KMPH 1
CDC	62 R Y A W 8
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	41.068610206
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Rollover Characteristics

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

Vehicle Factors

Make-Model	Dodge Shadow
Year	1989
Class	PASSENGER CAR
Body Type	5DR/4DR HATCHBAK
Weight	120

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	LAT SKID-CTR CLK
Pre-impact Location	DEPARTED ROADWAY

DRIVER Factors

Age	20	Height	0	Weight	0
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

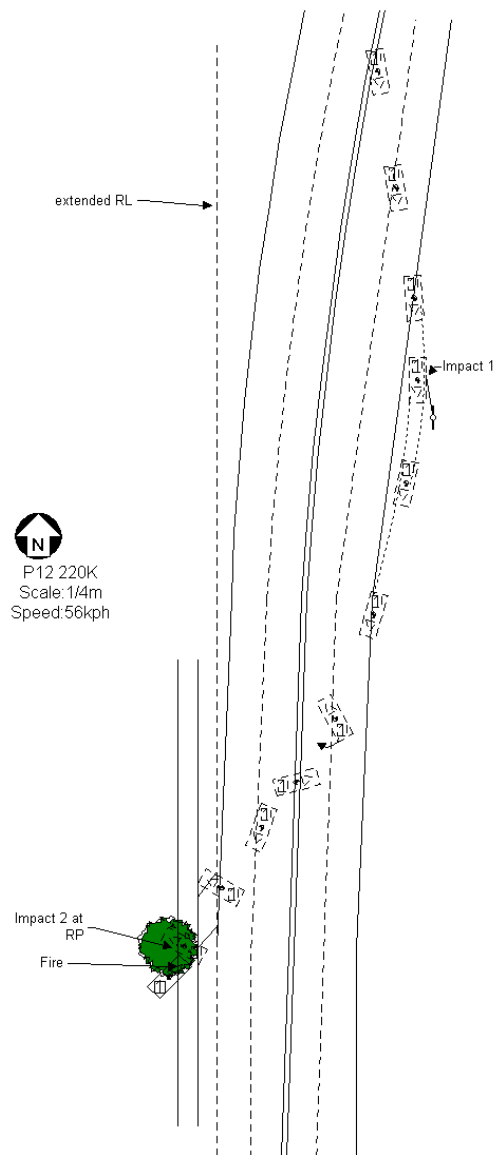
Occupant	1998-12-206-1-1
MAIS	7=Unk. sev.
Seat Position	Front left side

AIS Level	Injury Description	Contacts
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7 Case 1998-12-220

Summary:

Vehicle 1 was southbound on a 4 lane, curved roadway with an occupant who was fighting with the driver. Losing control, the vehicle mounted the left curb and swiped a guywire which was pulled from the ground. Continuing on, the vehicle reentered the roadway, crossed all lanes of travel and left the right shoulder while in a clockwise yaw. The vehicle then contacted a tree with the left side, lifting it off the ground at impact which extended the damage across the windshield and roofline. The vehicle then caught fire underneath the hood. The extent of damage to the vehicle from the fire included melting the windshield and part of the instrument panel in regards to the occupant area. The vehicle was towed from the scene of the crash due to damage sustained in the incident. The driver was transported and admitted with a broken leg from the crash, and knife wounds from the occupant who limped from the scene. No known alcohol or drug presence is noteworthy in this crash.



Vehicle	Body type	Make	Model	Year	Occ.#	Age	Occupant's sex	Maximum known occupant ais
1	2DR SEDAN/HT/CPE	Pontiac	Grand AM	1987	1	38	MALE	2=Moderate
1	2DR SEDAN/HT/CPE	Pontiac	Grand AM	1987	2	28	MALE	0=None

Occupant: 1998-12-220-1-1



Fire Information

Fire Occurence	Minor fire
Fire Origin	Engine compart
Location of Fuel Leakage	No fuel leakage
Type of Fuel Tank	Metallic
Fuel Tank Location	Forward of rear axle, 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	24 -12 21
Est. δV with sequence number	DELTA V CODED 2
CDC	90 L Y A W 4
Damage (C1-C6)	0 45 45 27 12 0
Crush (L and D)	83 79
Object Contacted 1	LARGE TREE
Object Contacted 2	Oth FIXED OBJECT

NASS Weighting Factor

Weighting factor	31.155384929
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Rollover Characteristics

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

Pre-Crash Environment

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

Vehicle Factors

Make-Model	Pontiac Grand AM
Year	1987
Class	PASSENGER CAR
Body Type	2DR SEDAN/HT/CPE
Weight	113

Pre-Crash Driver Data

Accident Type	6
Pre-event Movement	NEGOTIATE CURVE
Critical Pre-crash Event	OFF EDGE-LEFT
Attempted Avoidance Maneuver	STEERING RIGHT
Pre-impact Stability	TRACKING
Pre-impact Location	DEPARTED ROADWAY

DRIVER Factors

Age	38	Height	175	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	1998-12-220-1-1
MAIS	2=Moderate
Seat Position	Front left side

AIS Level	Injury Description	Contacts
2=Moderate	Fibular head, neck, or shaft fracture	Left apnel
2=Moderate	Tibial shaft fracture	Left apnel
1=Minor	Leg skin laceration	Left apnel
	NFS	
1=Minor	Leg skin abrasion	Left apnel

Occupant: 1998-12-220-1-2



Fire Information

Fire Occurrence	Minor fire
Fire Origin	Engine compartment
Location of Fuel Leakage	No fuel leakage
Type of Fuel Tank	Metallic
Fuel Tank Location	Forward of rear axle, 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	24 -12 21
Est. δV with sequence number	DELTA V CODED 2
CDC	90 L Y A W 4
Damage (C1-C6)	0 45 45 27 12 0
Crush (L and D)	83 79
Object Contacted 1	LARGE TREE
Object Contacted 2	Oth FIXED OBJECT

NASS Weighting Factor

Weighting factor	31.155384929
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Rollover Characteristics

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

Pre-Crash Environment

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

Vehicle Factors

Make-Model	Pontiac Grand AM
Year	1987
Class	PASSENGER CAR
Body Type	2DR SEDAN/HT/CPE
Weight	113

Pre-Crash Driver Data

Accident Type	6
Pre-event Movement	NEGOTIATE CURVE
Critical Pre-crash Event	OFF EDGE-LEFT
Attempted Avoidance Maneuver	STEERING RIGHT
Pre-impact Stability	TRACKING
Pre-impact Location	DEPARTED ROADWAY

PASSENGER Factors

Age	28	Height	170	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

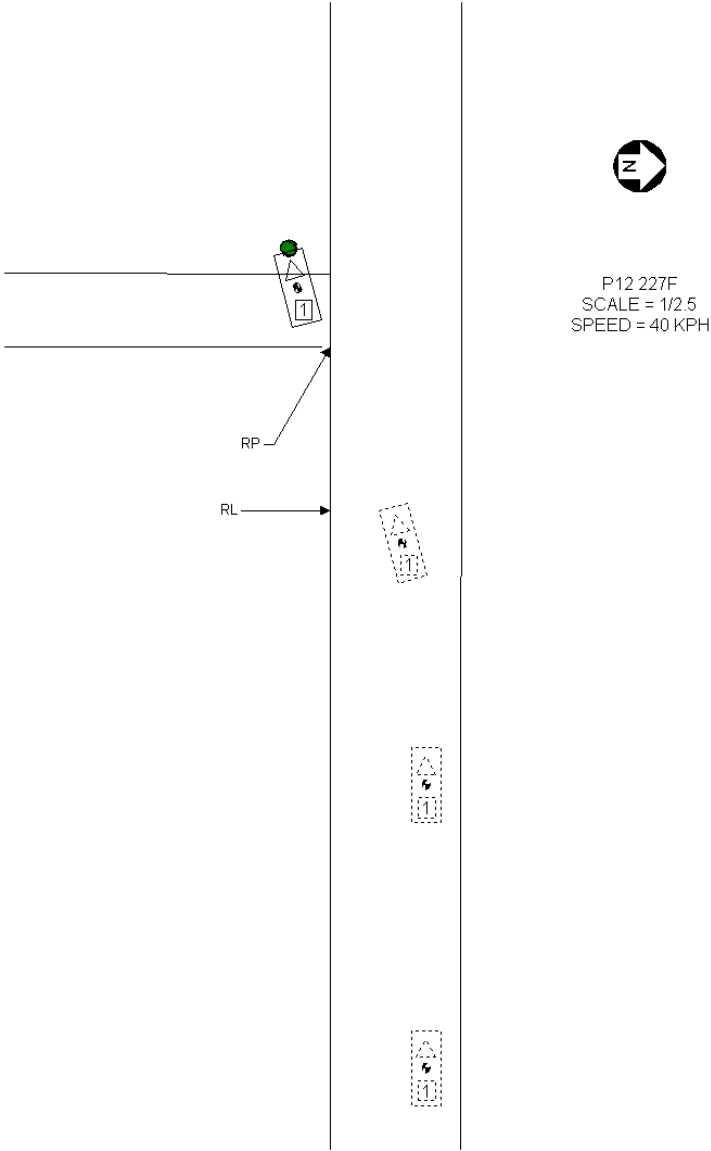
Occupant	1998-12-220-1-2
MAIS	0=None
Seat Position	Front right side

AIS Level	Injury Description	Contacts
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8 Case 1998-12-227

Summary:

Vehicle one was heading west on a two lane two way dry asphalt roadway. The vehicle left the road on the left side of the road and struck a tree with the front of the vehicle. The vehicle then caught fire under the hood. Occupant two was transported to a local trauma center, for medical treatment sustained in this crash.



Vehicle	Body type	Make	Model	Year	Occ.#	Age	Occupant's sex	Maximum known occupant ais
1	MINIVAN	Plymouth	Voyager Minivan	1992	1	41	MALE	0=None
1	MINIVAN	Plymouth	Voyager Minivan	1992	2	40	MALE	1=Minor

Occupant: 1998-12-227-1-1



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, forward rear axle
Fuel Tank Damage	No damage
Fuel Type	Gasoline



Pre-Crash Environment

Traffic Flow	Not DIVIDED
Number of Travel Lanes	TWO
Roadway Alignment	STRAIGHT
Roadway Profile	LEVEL
Roadway Surface Type	ASPHALT
Roadway Surface Condition	DRY
Light Conditions	DARK/LIGHTED
Atmospheric Conditions	No ADVERSE COND
Relation to Intersection	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	49 -48 -8
Est. δV with sequence number	DELTA V CODED 1
CDC	12 F C E W 4
Damage (C1-C6)	6 30 57 66 48 25
Crush (L and D)	154 15
Object Contacted 1	LARGE TREE
Object Contacted 2	0

NASS Weighting Factor

Weighting factor	630.9917459
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Rollover Characteristics

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

Vehicle Factors

Make-Model	Plymouth Voyager Minivan
Year	1992
Class	PASSENGER CAR
Body Type	MINIVAN
Weight	168

Pre-Crash Driver Data

Accident Type	8
Pre-event Movement	GOING STRAIGHT
Critical Pre-crash Event	OFF EDGE-LEFT
Attempted Avoidance Manuever	STEERING LEFT
Pre-impact Stability	TRACKING
Pre-impact Location	DEPARTED ROADWAY

DRIVER Factors

Age	41	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	BAG DEPLOYED
Airbag Deployment - 1 st Seat	DR BAG DEPLOYED
Airbag Deployment - Oth Seat	Not EQUIP W/ OTH

Injuries

Occupant	1998-12-227-1-1
MAIS	0=None
Seat Position	Front left side

AIS Level	Injury Description	Contacts
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Occupant: 1998-12-227-1-2



Fire Information

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



Pre-Crash Environment

Traffic Flow	Not DIVIDED
Number of Travel Lanes	TWO
Roadway Alignment	STRAIGHT
Roadway Profile	LEVEL
Roadway Surface Type	ASPHALT
Roadway Surface Condition	DRY
Light Conditions	DARK/LIGHTED
Atmospheric Conditions	No ADVERSE COND
Relation to Intersection	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	49 -48 -8
Est. δV with sequence number	DELTA V CODED 1
CDC	12 F C E W 4
Damage (C1-C6)	6 30 57 66 48 25
Crush (L and D)	154 15
Object Contacted 1	LARGE TREE
Object Contacted 2	0

NASS Weighting Factor

Weighting factor	630.9917459
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Rollover Characteristics

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

Vehicle Factors

Make-Model	Plymouth Voyager Minivan
Year	1992
Class	PASSENGER CAR
Body Type	MINIVAN
Weight	168

Pre-Crash Driver Data

Accident Type	8
Pre-event Movement	GOING STRAIGHT
Critical Pre-crash Event	OFF EDGE-LEFT
Attempted Avoidance Manuever	STEERING LEFT
Pre-impact Stability	TRACKING
Pre-impact Location	DEPARTED ROADWAY

PASSENGER Factors

Age	40	Height	180	Weight	86
Gender			MALE		
Ejection			No EJECTION		
Ejection Area			No EJECTION		
Entrapment			Not ENTRAPPED		

Restraint Factors

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

Injuries

Occupant	1998-12-227-1-2
MAIS	1=Minor
Seat Position	Front right side

AIS Level	Injury Description	Contacts
1=Minor	Leg skin laceration, minor	Right panel
1=Minor	Facial skin contusion	Windshield
1=Minor	Facial skin abrasion	Windshield
1=Minor	Facial skin laceration, minor	Windshield
1=Minor	Thoracic skin contusion	Right panel

9 Case 1998-12-803

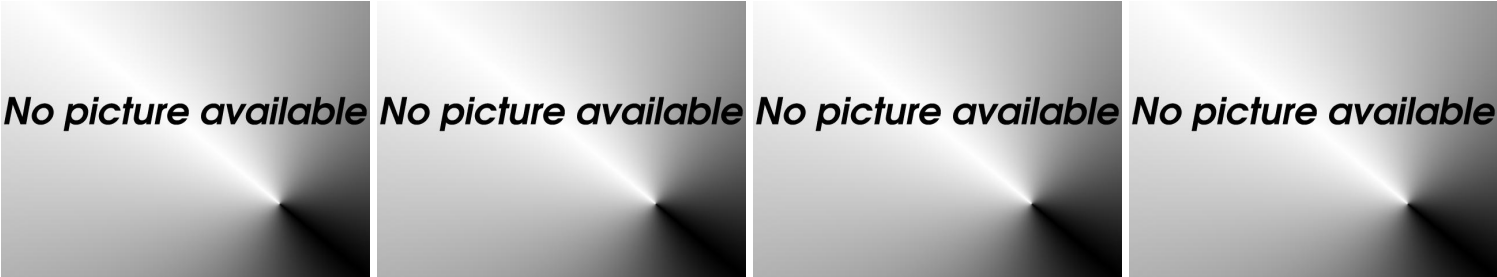
Summary:

VEHICLE 1 WAS EASTBOUND ON A 5 LANE, 2 WAY, ASPHALT ROADWAY UNDER DRY, DAYLIGHT CONDITIONS. THE DRIVER BEGAN TO TURN LEFT AT THE INTERSECTION WHEN THE RIGHT SIDE CONTACTED WESTBOUND VEHICLE 2 ON THE FRONTAL PLANE. BOTH VEHICLES WERE TOWED FROM THE SCENE. VEHICLE 1'S RIGHT REAR WHEEL WAS TORN FROM THE VEHICLE AND THE PLASTIC GAS TANK WAS RUPTURED IN THE CRASH. VEHICLE 2 HAD NEXT GENERATION AIRBAGS DEPLOY AND MINOR INJURIES WERE SUSTAINED BY THE DRIVER WHO SOUGHT MEDICAL ATTENTION AT A LOCAL TRAUMA CENTER. NO DRUGS OR ALCOHOL WERE SUSPECT IN THE CRASH.



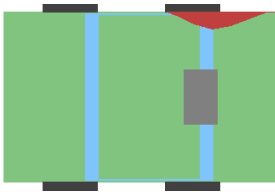
Vehicle#	Body type	Make	Model	Year	Occ.#	Age	Occupant's sex	Maximum known occupant ais
1	4-DR SEDAN/HDTOP	Eagle	Premier	1991	1	76	MALE	0=None
2	2DR SEDAN/HT/CPE	Chevrolet	Cavalier	1998	1	19	FEMALE-NOT PREG	1=Minor

Occupant: 1998-12-803-1-1



Fire Information

Fire Occurence	No fire
Fire Origin	No fire
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	Lacerated
Fuel Type	Gasoline



Pre-Crash Environment

Traffic Flow	Not DIVIDED
Number of Travel Lanes	FIVE
Roadway Alignment	STRAIGHT
Roadway Profile	DOWNHILL GRADE
Roadway Surface Type	ASPHALT
Roadway Surface Condition	DRY
Light Conditions	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	14 -12 -7
Est. δV with sequence number	DELTA V CODED 1
CDC	1 R Z E W 2
Damage (C1-C6)	5 17 24 20 10 0
Crush (L and D)	159 -163
Object Contacted 1	VEHICLE NO. 2
Object Contacted 2	0

NASS Weighting Factor

Weighting factor	0
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Rollover Characteristics

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

Vehicle Factors

Make-Model	Eagle Premier
Year	1991
Class	PASSENGER CAR
Body Type	4-DR SEDAN/HDTOP
Weight	135

Pre-Crash Driver Data

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

DRIVER Factors

Age	76	Height	0	Weight	0
Gender					MALE
Ejection					No EJECTION
Ejection Area					No EJECTION
Entrapment					Not ENTRAPPED

Restraint Factors

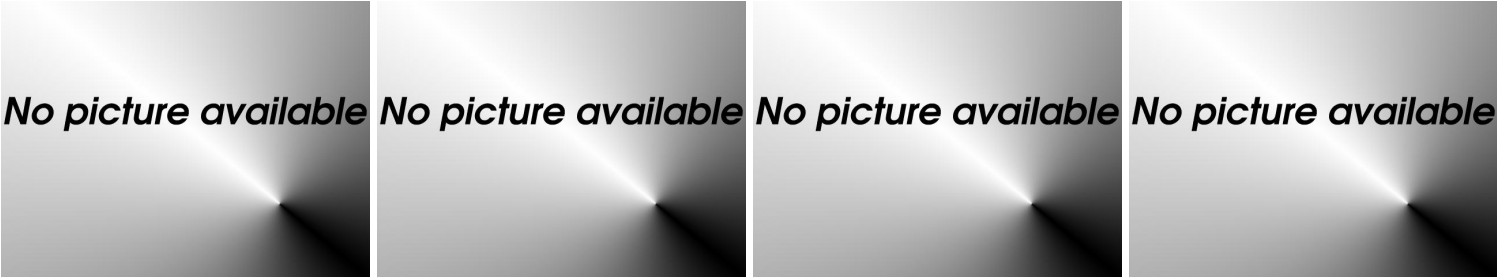
Restrain	None used/avail
AOPS	YES-RES DET
Airbag Deployment	Not EQUIP/AVAIL
Airbag Deployment - 1 st Seat	Not EQUIP/AVAIL
Airbag Deployment - Oth Seat	Not EQUIP W/ OTH

Injuries

Occupant	1998-12-803-1-1
MAIS	0=None
Seat Position	Front left side

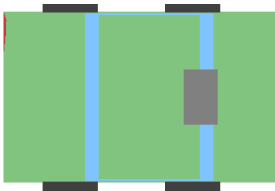
AIS Level	Injury Description	Contacts
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Occupant: 1998-12-803-2-1



Fire Information

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



Pre-Crash Environment

Traffic Flow	DVDED/NO BARRIER
Number of Travel Lanes	FOUR
Roadway Alignment	STRAIGHT
Roadway Profile	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	15 -15 3
Est. δV with sequence number	DELTA V CODED 1
CDC	12 F Z E W 1
Damage (C1-C6)	0 0 0 0 3 4
Crush (L and D)	136 28
Object Contacted 1	VEHICLE NO. 1
Object Contacted 2	0

NASS Weighting Factor

Weighting factor	0
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Rollover Characteristics

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

Vehicle Factors

Make-Model	Chevrolet Cavalier
Year	1998
Class	PASSENGER CAR
Body Type	2DR SEDAN/HT/CPE
Weight	117

Pre-Crash Driver Data

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

DRIVER Factors

Age	19	Height	173	Weight	100
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

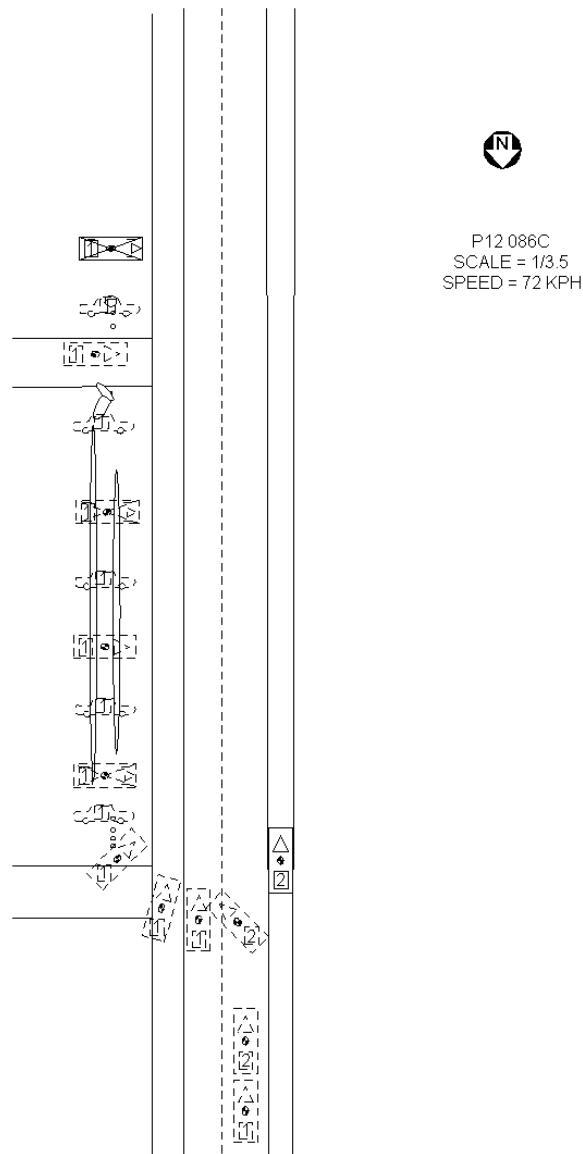
Occupant	1998-12-803-2-1
MAIS	1=Minor
Seat Position	Front left side

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

10 Case 1998-12-86

Summary:

VEHICLES ONE AND TWO WERE HEADING SOUTH ON A TWO LANE TWO WAY DRY ASPHALT ROADWAY. VEHICLE TWO STOPPED TO TURN LEFT INTO A DRIVEWAY AND VEHICLE ONE TRIED TO PASS ON THE LEFT SIDE. THE FRONT OF VEHICLE TWO CONTACTED THE RIGHT SIDE OF VEHICLE ONE CAUSING VEHICLE ONE TO LOOSE CONTROL AND BEGIN TO ROLL. THE VEHICLE ROLLED ABOUT FIVE TURNS BEFORE ENDING UP OF ITS ROOF AT FINAL REST. WHILE VEHICLE ONE WAS ON ITS ROOF, GAS BEGAN TO LEAK FROM THE FILLER CAP AND THE PUDDLE OF GAS FOUND ITS WAY UP TO THE STROB LIGHTS WHERE IT WAS IGNITED BY THE LIGHTS. THE FIRE CAUSED MINOR DAMAGE TO THE VEHICLE. BOTH VEHICLES WERE TOWED DUE TO DAMAGE. OCCUPANT ONE OF VEHICLE ONE WAS TRANSPORTED FOR MEDICAL TREATMENT. BOTH OCCUPANTS WERE WEARING LAP AND SHOULDER BELTS.



Vehicle	Body type	Make	Model	Year	Occ.#	Age	Occupant's sex	Maximum known occupant ais
1	4-DR SEDAN/HDTOP	Ford	Crown Victoria	1996	1	35	MALE	1=Minor
2	STATION WAGON	Chevrolet	Caprice/Impala	1995	1	29	MALE	0=None

Occupant: 1998-12-86-1-1



Fire Information

Fire Occurrence	Minor fire
Fire Origin	Other location
Location of Fuel Leakage	Cap
Type of Fuel Tank	No fuel Tank
Fuel Tank Location	Behind rear axle, centered
Fuel Cap Location	Left side, behind rear axle
Fuel Tank Damage	No fuel tank
Fuel Type	Gasoline



Pre-Crash Environment

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

Crash Severity

Nr. Quarter Turns	10 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 2
CDC	0 T D D O 2
Damage (C1-C6)	0 0 0 0 0 0
Crush (L and D)	0 0
Object Contacted 1	ROLLOVER-OVERTURN
Object Contacted 2	VEHICLE NO. 2

NASS Weighting Factor

Weighting factor	36.656318102
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Rollover Characteristics

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

Vehicle Factors

Make-Model	Ford Crown Victoria
Year	1996
Class	PASSENGER CAR
Body Type	4-DR SEDAN/HDTOP
Weight	172

Pre-Crash Driver Data

Accident Type	73
Pre-event Movement	PASSING/OVERTAKE
Critical Pre-crash Event	Same DIR-OV RGHT
Attempted Avoidance Manuever	No DRIVER
Pre-impact Stability	TRACKING
Pre-impact Location	STAYED IN LANE

DRIVER Factors

Age	35	Height	201	Weight	104
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	1998-12-86-1-1
MAIS	1=Minor
Seat Position	Front left side

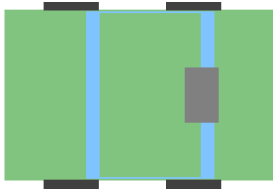
AIS Level	Injury Description	Contacts
1=Minor	Upper extremity skin contusion	Belt webb/buckle
1=Minor	Leg skin contusion (hematoma)	Belt webb/buckle

Occupant: 1998-12-86-2-1



Fire Information

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



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	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	6 3 5
Est. δV with sequence number	DELTA V CODED 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	VEHICLE NO. 1
Object Contacted 2	0

NASS Weighting Factor

Weighting factor	36.656318102
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Rollover Characteristics

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

Vehicle Factors

Make-Model	Chevrolet Caprice/Impala
Year	1995
Class	PASSENGER CAR
Body Type	STATION WAGON
Weight	203

Pre-Crash Driver Data

Accident Type	72
Pre-event Movement	TURNING LEFT
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	29	Height	180	Weight	82
Gender					MALE
Ejection					No EJECTION
Ejection Area					No EJECTION
Entrapment					Not ENTRAPPED

Restraint Factors

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

Injuries

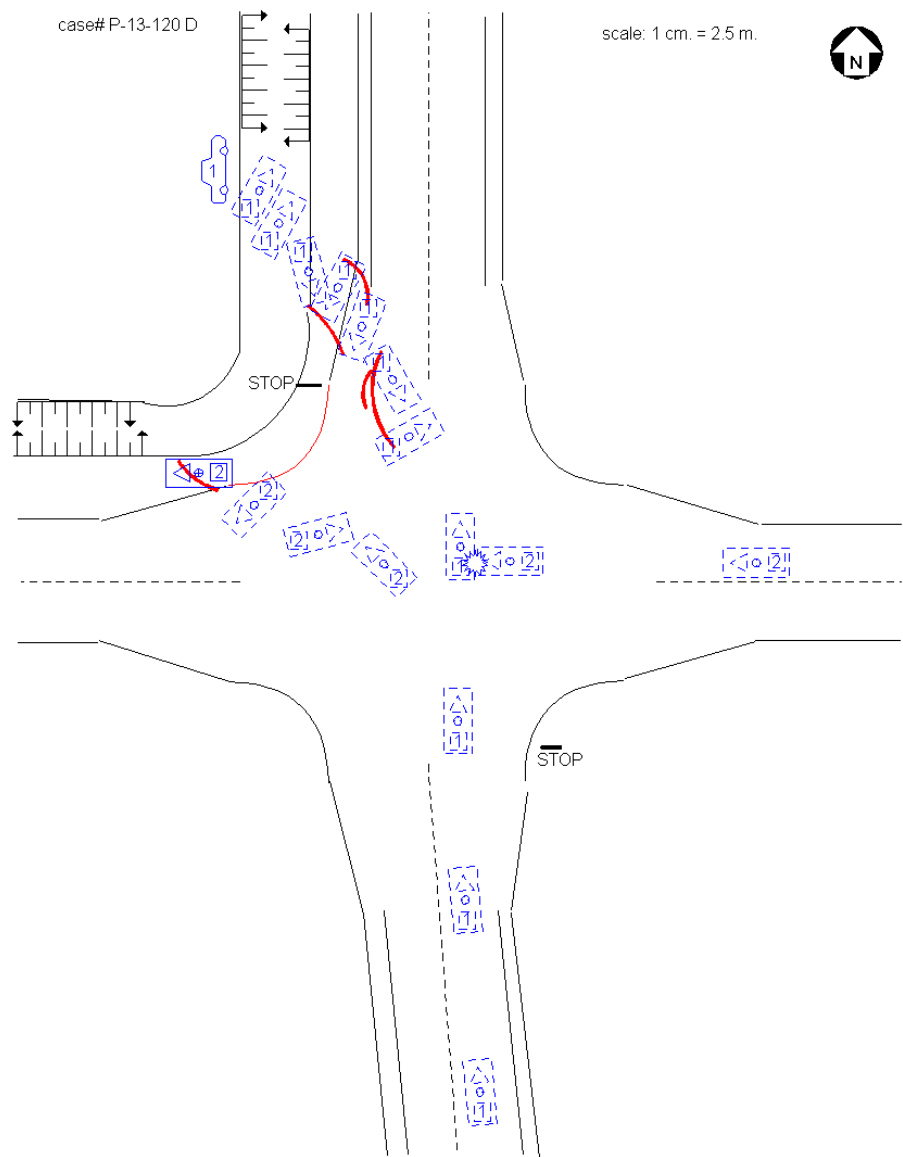
Occupant	1998-12-86-2-1
MAIS	0=None
Seat Position	Front left side

AIS Level	Injury Description	Contacts
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11 Case 1998-13-123

Summary:

Vehicle 1 was northbound on a dry 2 lane , paved rural road during daylight hours and crossing over an intersection of similar roadway when it was struck in the right side aft of center by westbound vehicle 2. The impact caused v-1 to rotate clockwise 360 degrees and depart the roadway of the left side where it tripped at the crest of a ditch causing the vehicle to roll onto its L. side. The driver of vehicle 1 was not restrained and struck the windshield with his head. The driver of v-2 was restrained and not injured.



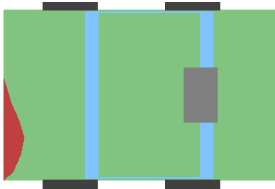
Vehicle	Body type	Make	Model	Year	Occ.#	Age	Occupant's sex	Maximum known occupant ais
2	4-DR SEDAN/HDTOP	Ford	Tempo	1989	1	18	MALE	0=None

Occupant: 1998-13-123-2-1



Fire Information

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



Pre-Crash Environment

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

Crash Severity

Nr. Quarter Turns	No rollover
Impact Speed	998
Total, Longitudal, and Lateral δV	16 -11 13
Est. δV with sequence number	DELTA V CODED 1
CDC	70 F D E W 2
Damage (C1-C6)	14 25 31 23 12 4
Crush (L and D)	150 0
Object Contacted 1	VEHICLE NO. 1
Object Contacted 2	0

NASS Weighting Factor

Weighting factor	442.63313102
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Rollover Characteristics

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

Vehicle Factors

Make-Model	Ford Tempo
Year	1989
Class	PASSENGER CAR
Body Type	4-DR SEDAN/HDTOP
Weight	117

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/O LOCKUP
Pre-impact Stability	TRACKING
Pre-impact Location	STAYED IN LANE

DRIVER Factors

Age	18	Height	180	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	BAG DEPLOYED
Airbag Deployment - 1 st Seat	DR BAG DEPLOYED
Airbag Deployment - Oth Seat	Not EQUIP W/ OTH

Injuries

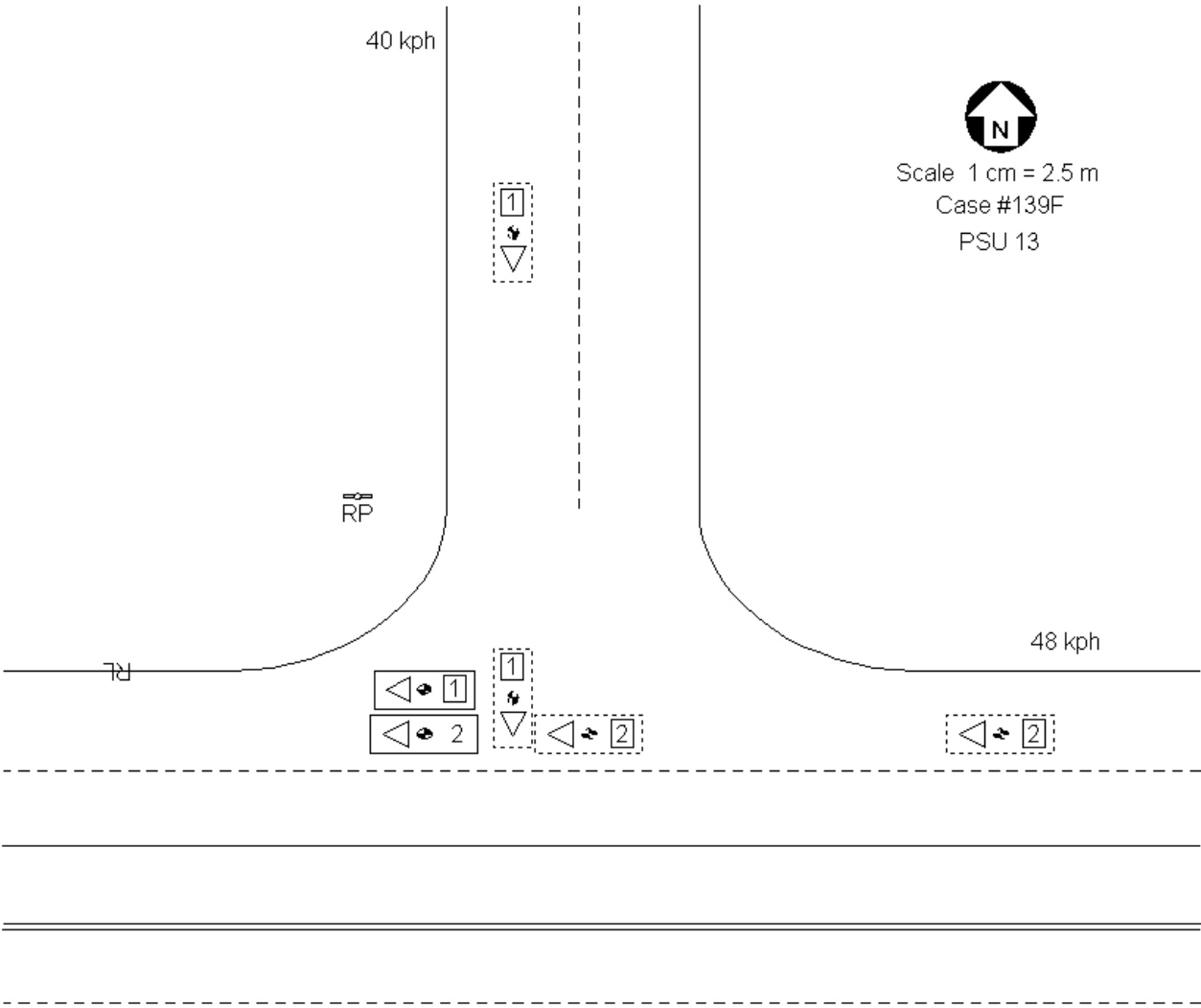
Occupant	1998-13-123-2-1
MAIS	0=None
Seat Position	Front left side

AIS Level	Injury Description	Contacts
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12 Case 1998-13-139

Summary:

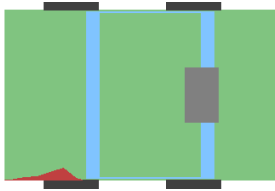
Vehicle 1 was travelling southbound on a 2-lane, 2-way road in the daylight. V1 stopped at a stop sign and proceeded to turn eastbound onto a 5-lane, 2-way road. Vehicle 2 was travelling westbound on the 5-lane, 2-way road in the right curb lane. The front of V2 impacted the left front of V1. Both vehicles were moderately to severely damaged. The occupant of V1 sustained minor injuries. The drivers of both vehicles sustained moderate injuries. None of the occupants/drivers was wearing a seat belt.



Vehicle	Body type	Make	Model	Year	Occ.#	Age	Occupant's sex	Maximum known occupant ais
1	4-DR SEDAN/HDTOP	Ford	Tempo	1985	1	21	MALE	1=Minor
1	4-DR SEDAN/HDTOP	Ford	Tempo	1985	2	18	MALE	1=Minor
2	STATION WAGON	Chevrolet	Celebrity	1987	1	27	FEMALE-NOT PREG	1=Minor

Occupant: 1998-13-139-1-1**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 4 20
Est. δV with sequence number	DELTA V CODED 1
CDC	9 L F E W 2
Damage (C1-C6)	1 4 6 12 18 3
Crush (L and D)	115 141
Object Contacted 1	VEHICLE NO. 2
Object Contacted 2	0

NASS Weighting Factor

Weighting factor	340.02123104
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Rollover Characteristics

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

Pre-Crash Environment

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

Vehicle Factors

Make-Model	Ford Tempo
Year	1985
Class	PASSENGER CAR
Body Type	4-DR SEDAN/HDTOP
Weight	112

Pre-Crash Driver Data

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

DRIVER Factors

Age	21	Height	173	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

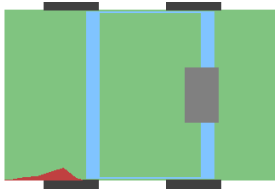
Injuries

Occupant	1998-13-139-1-1
MAIS	1=Minor
Seat Position	Front left side

AIS Level	Injury Description	Contacts
1=Minor	Lumbar spine acute strain without fracture or dislocation	Seat, back
1=Minor	Thoracic skin contusion	Left interior
1=Minor	Carpal-metacarpal or MCP joint sprain	Steering rim
1=Minor	Leg skin contusion (hematoma)	Left apnel

Occupant: 1998-13-139-1-2**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

**Pre-Crash Environment**

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

Vehicle Factors

Make-Model	Ford Tempo
Year	1985
Class	PASSENGER CAR
Body Type	4-DR SEDAN/HDTOP
Weight	112

Crash Severity

Nr. Quarter Turns	No rollover
Impact Speed	998
Total, Longitudal, and Lateral δV	20 4 20
Est. δV with sequence number	DELTA V CODED 1
CDC	9 L F E W 2
Damage (C1-C6)	1 4 6 12 18 3
Crush (L and D)	115 141
Object Contacted 1	VEHICLE NO. 2
Object Contacted 2	0

Pre-Crash Driver Data

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

NASS Weighting Factor

Weighting factor	340.02123104
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PASSENGER Factors**Rollover Characteristics**

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

Age	18	Height	175	Weight	68
Gender			MALE		
Ejection			No EJECTION		
Ejection Area			No EJECTION		
Entrapment			Not ENTRAPPED		

Restraint Factors

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

Injuries

Occupant	1998-13-139-1-2
MAIS	1=Minor
Seat Position	Front right side

AIS Level	Injury Description	Contacts
1=Minor	Abdominal skin contusion	Transmiss lever

Occupant: 1998-13-139-2-1



Fire Information

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



Pre-Crash Environment

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

Crash Severity

Nr. Quarter Turns	No rollover
Impact Speed	998
Total, Longitudal, and Lateral δV	19 -18 7
Est. δV with sequence number	DELTA V CODED 1
CDC	11 F Y E W 2
Damage (C1-C6)	35 31 28 19 10 8
Crush (L and D)	160 -40
Object Contacted 1	VEHICLE NO. 1
Object Contacted 2	0

NASS Weighting Factor

Weighting factor	340.02123104
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Rollover Characteristics

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

Vehicle Factors

Make-Model	Chevrolet Celebrity
Year	1987
Class	PASSENGER CAR
Body Type	STATION WAGON
Weight	129

Pre-Crash Driver Data

Accident Type	83
Pre-event Movement	GOING STRAIGHT
Critical Pre-crash Event	CROSS OVER INTER
Attempted Avoidance Manuever	BRAKE W/O LOCKUP
Pre-impact Stability	TRACKING
Pre-impact Location	STAYED IN LANE

DRIVER Factors

Age	27	Height	168	Weight	61
Gender					FEMALE-NOT PREG
Ejection					No EJECTION
Ejection Area					No EJECTION
Entrapment					Not ENTRAPPED

Restraint Factors

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

Injuries

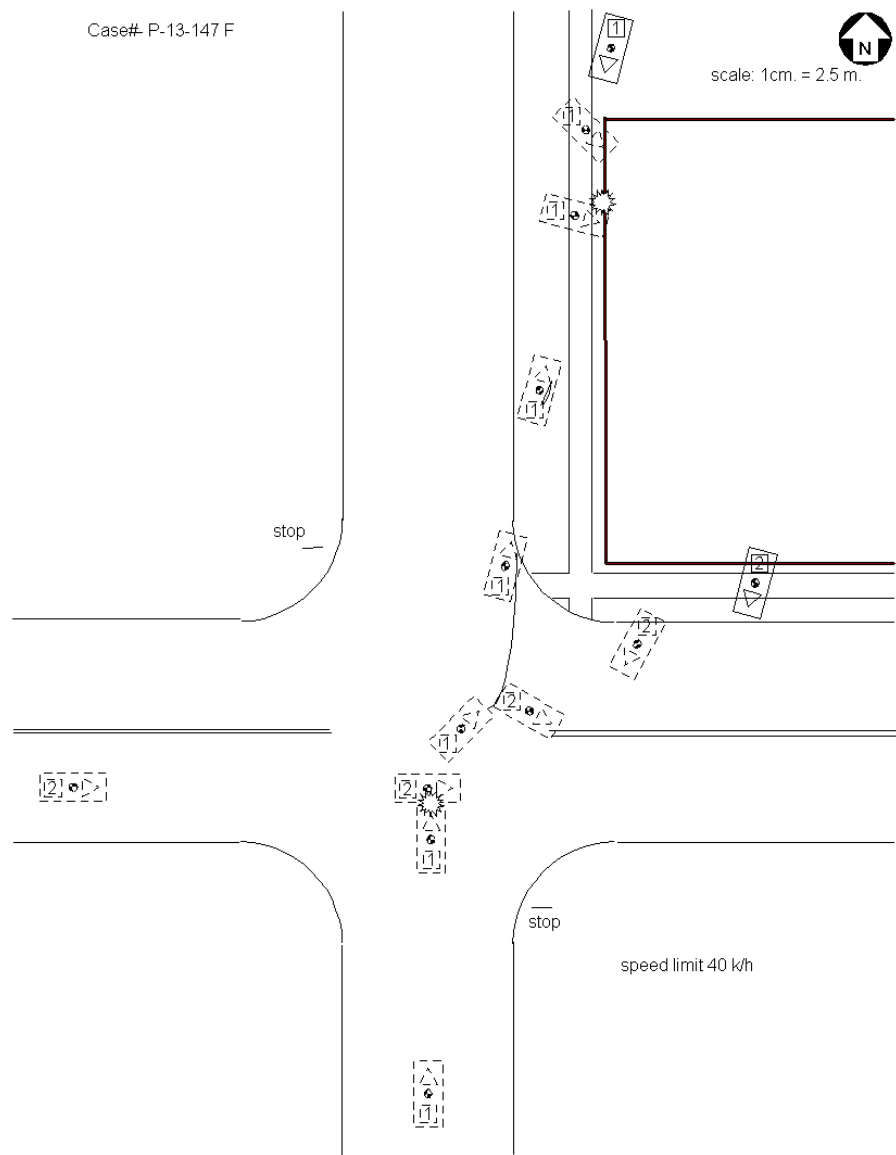
Occupant	1998-13-139-2-1
MAIS	1=Minor
Seat Position	Front left side

AIS Level	Injury Description	Contacts
1=Minor	Leg skin abrasion	Left apnel
1=Minor	Leg skin contusion (hematoma)	Left apnel
1=Minor	Acute cervical spine strain without fracture or dislocation	Windshield
1=Minor	Thoracic spine strain, acute without fracture or dislocation	Seat, back
1=Minor	Lumbar spine acute strain without fracture or dislocation	Seat, back

13 Case 1998-13-147

Summary:

Driver of vehicle 1 was northbound on a wet 2 lane, paved city street during daylight hours and was crossing over a similar intersecting street when it struck eastbound veh. 2 in the right side. Vehicle 1 continued on, jumped a curb and struck a chain-link fence. Vehicle 2 caromed off to the NE where it struck a curb and then a chain-link fence. Vehicle 2 was nearly torn in half by the impact. The driver of vehicle 1 fled the scene on foot and according to witnesses there may have been 1 or more additional occupants. The driver of v-2 was restrained but was injured due to intruding components and kinetic forces.



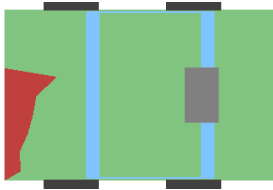
Vehicle	Body type	Make	Model	Year	Occ.#	Age	Occupant's sex	Maximum known occupant
1	4-DR SEDAN/HDTOP	Buick	Electra/Park Avenue	1983	1	LESS THAN ONE YR	Unknown	0=None
1	4-DR SEDAN/HDTOP	Buick	Electra/Park Avenue	1983	2	LESS THAN ONE YR	Unknown	0=None
1	4-DR SEDAN/HDTOP	Buick	Electra/Park Avenue	1983	3	LESS THAN ONE YR	Unknown	0=None
2	2DR SEDAN/HT/CPE	Oldsmobile	Calais	1990	1	26	FEMALE-NOT PREG	1=Minor

Occupant: 1998-13-147-1-1



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



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	DAYLIGHT
Atmospheric Conditions	No ADVERSE COND
Relation to Intersection	INTERSECTION REL
Traffic Control Device	
Police Reported Alcohol Presence	No ALCOHOL
Alcohol Test (< 95 indicates BAC 0.xx)	0

Crash Severity

Nr. Quarter Turns	No rollover
Impact Speed	998
Total, Longitudal, and Lateral δV	31 -23 20
Est. δV with sequence number	DELTA V CODED 1
CDC	71 F D E W 3
Damage (C1-C6)	24 22 34 42 47 75
Crush (L and D)	165 0
Object Contacted 1	VEHICLE NO. 2
Object Contacted 2	0

NASS Weighting Factor

Weighting factor	205.33178651
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Rollover Characteristics

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

Vehicle Factors

Make-Model	Buick Electra/Park Avenue
Year	1983
Class	PASSENGER CAR
Body Type	4-DR SEDAN/HDTOP
Weight	175

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	No DRIVER
Pre-impact Location	STAYED IN LANE

DRIVER Factors

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

Restraint Factors

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

Injuries

Occupant	1998-13-147-1-1
MAIS	0=None
Seat Position	Front left side

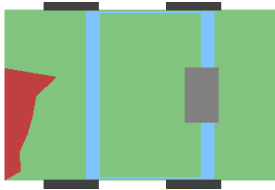
AIS Level	Injury Description	Contacts
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Occupant: 1998-13-147-1-2



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



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	DAYLIGHT
Atmospheric Conditions	No ADVERSE COND
Relation to Intersection	INTERSECTION REL
Traffic Control Device	
Police Reported Alcohol Presence	No ALCOHOL
Alcohol Test (< 95 indicates BAC 0.xx)	0

Crash Severity

Nr. Quarter Turns	No rollover
Impact Speed	998
Total, Longitudal, and Lateral δV	31 -23 20
Est. δV with sequence number	DELTA V CODED 1
CDC	71 F D E W 3
Damage (C1-C6)	24 22 34 42 47 75
Crush (L and D)	165 0
Object Contacted 1	VEHICLE NO. 2
Object Contacted 2	0

NASS Weighting Factor

Weighting factor	205.33178651
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Rollover Characteristics

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

Vehicle Factors

Make-Model	Buick Electra/Park Avenue
Year	1983
Class	PASSENGER CAR
Body Type	4-DR SEDAN/HDTOP
Weight	175

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	No DRIVER
Pre-impact Location	STAYED IN LANE

PASSENGER Factors

Age	LESS THAN ONE YR	Height	0	Weight	0
Gender					
Ejection					
Ejection Area					
Entrapment					

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	1998-13-147-1-2
MAIS	0=None
Seat Position	0

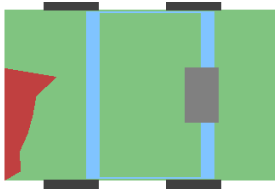
AIS Level	Injury Description	Contacts
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Occupant: 1998-13-147-1-3



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	Behind rear axle, centered
Fuel Cap Location	On back plane
Fuel Tank Damage	No damage
Fuel Type	Gasoline



Pre-Crash Environment

Traffic Flow	Not DIVIDED
Number of Travel Lanes	TWO
Roadway Alignment	STRAIGHT
Roadway Profile	LEVEL
Roadway Surface Type	ASPHALT
Roadway Surface Condition	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

Crash Severity

Nr. Quarter Turns	No rollover
Impact Speed	998
Total, Longitudal, and Lateral δV	31 -23 20
Est. δV with sequence number	DELTA V CODED 1
CDC	71 F D E W 3
Damage (C1-C6)	24 22 34 42 47 75
Crush (L and D)	165 0
Object Contacted 1	VEHICLE NO. 2
Object Contacted 2	0

NASS Weighting Factor

Weighting factor	205.33178651
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Rollover Characteristics

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

Vehicle Factors

Make-Model	Buick Electra/Park Avenue
Year	1983
Class	PASSENGER CAR
Body Type	4-DR SEDAN/HDTOP
Weight	175

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	No DRIVER
Pre-impact Location	STAYED IN LANE

PASSENGER Factors

Age	LESS THAN ONE YR	Height	0	Weight	0
Gender					
Ejection					
Ejection Area					
Entrapment					

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	1998-13-147-1-3
MAIS	0=None
Seat Position	0

AIS Level	Injury Description	Contacts
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Occupant: 1998-13-147-2-1



Fire Information

Fire Occurrence	No fire
Fire Origin	No fire
Location of Fuel Leakage	Filler neck
Type of Fuel Tank	Metallic
Fuel Tank Location	Forward of rear axle, centered
Fuel Cap Location	Left side, behind rear axle
Fuel Tank Damage	Deformed
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	DAYLIGHT
Atmospheric Conditions	No ADVERSE COND
Relation to Intersection	INTERCHANGE REL
Traffic Control Device	
Police Reported Alcohol Presence	No ALCOHOL
Alcohol Test (< 95 indicates BAC 0.xx)	0

Crash Severity

Nr. Quarter Turns	No rollover
Impact Speed	998
Total, Longitudal, and Lateral δV	42 -21 -36
Est. δV with sequence number	DELTA V CODED 1
CDC	2 R Z A W 3
Damage (C1-C6)	0 28 44 44 31 0
Crush (L and D)	243 -25
Object Contacted 1	VEHICLE NO. 1
Object Contacted 2	FENCE

NASS Weighting Factor

Weighting factor	205.33178651
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Rollover Characteristics

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

Vehicle Factors

Make-Model	Oldsmobile Calais
Year	1990
Class	PASSENGER CAR
Body Type	2DR SEDAN/HT/CPE
Weight	125

Pre-Crash Driver Data

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

DRIVER Factors

Age	26	Height	165	Weight	64
Gender					FEMALE-NOT PREG
Ejection					No EJECTION
Ejection Area					No EJECTION
Entrapment					Not ENTRAPPED

Restraint Factors

Restrain	None used/avail
AOPS	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

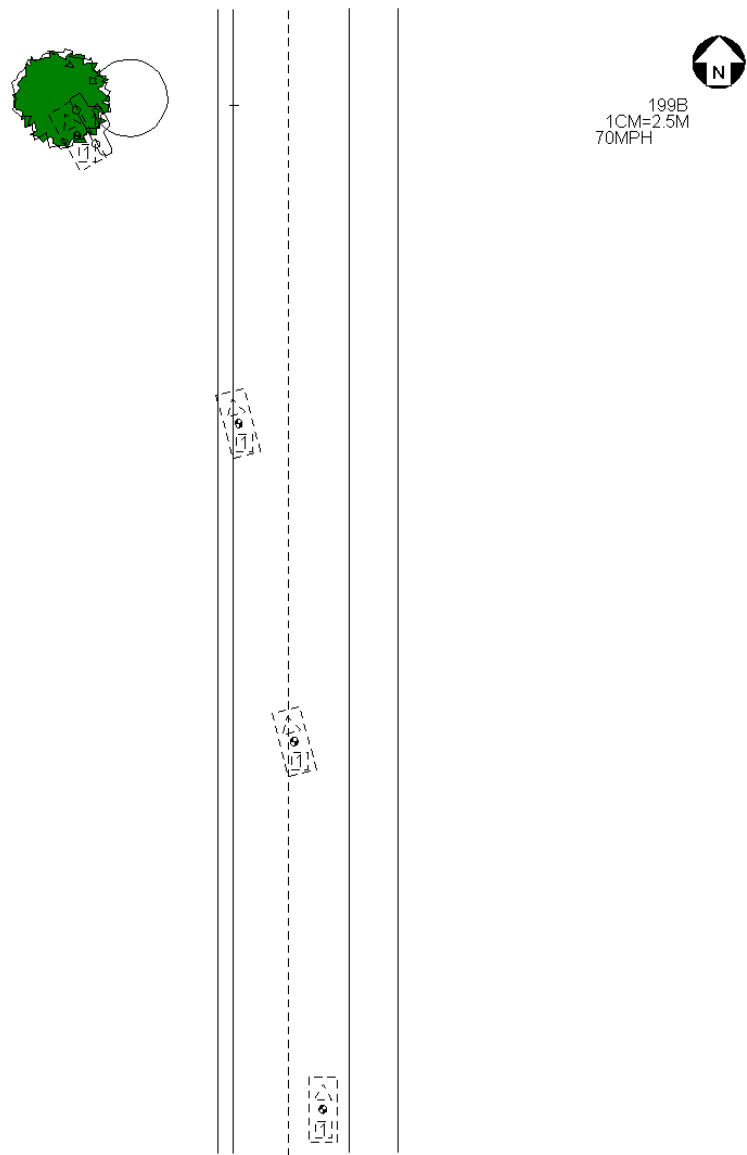
Occupant	1998-13-147-2-1
MAIS	1=Minor
Seat Position	Front left side

AIS Level	Injury Description	Contacts
1=Minor	Facial skin laceration, minor	Flying glass
1=Minor	Leg skin contusion (hematoma)	Belt webb/buckle
1=Minor	Upper extremity skin contusion	Transmiss lever
1=Minor	Thoracic skin contusion	Belt webb/buckle
1=Minor	Median, ulnar or radial nerve contusion	Transmiss lever
1=Minor	Leg skin contusion (hematoma)	Center panel

14 Case 1998-13-199

Summary:

VEHICLE # 1 WAS NORTH BOUND IN THE RIGHT LANE ON A 4 LANE DRY, 70MPH, DIVIDED HIGHWAY AND DRIFTED TO THE LEFT GOING INTO THE MEDIUM STRIKING A TREE HEADON AND ROLLING ONTO ITS SIDE AND BURNING. WHAT WAS LEFT OF THE VEHICLE WAS TOWED FROM THE SCENE DUE TO DAMAGE. THE DRIVER BURNED IN THE CAR AND THE OCCUPANT WAS REMOVED BY A PASSERBY AND HOSPITALIZED. Occupant 1-01 died from trauma, not the fire (per autopsy).



Vehicle	Body type	Make	Model	Year	Occ. #	Age	Occupant's sex	Maximum known occupant ais
1	4-DR SEDAN/HDTOP	Chevrolet	Caprice/Impala	1983	1	72	FEMALE-NOT PREG	6=Maximum
1	4-DR SEDAN/HDTOP	Chevrolet	Caprice/Impala	1983	2	73	FEMALE-NOT PREG	3=Serious

Occupant: 1998-13-199-1-1



Fire Information

Fire Occurrence	Major fire
Fire Origin	Engine compart
Location of Fuel Leakage	Line/pump/filter
Type of Fuel Tank	Metallic
Fuel Tank Location	Behind rear axle, centered
Fuel Cap Location	On back plane
Fuel Tank Damage	No damage
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 1
CDC	92 F Y E W 5
Damage (C1-C6)	142 135 109 106 51 0
Crush (L and D)	181 -59
Object Contacted 1	LARGE TREE
Object Contacted 2	ROLLOVER-OVERTURN

NASS Weighting Factor

Weighting factor	81.51723587
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Rollover Characteristics

Number of Events	4
Rollover Initiation Type	FLIP-OVER
Location of Rollover Initiation	ROADSIDE/MEDIAN
Rollover Initiation Object Contacted	SMALL TREE
Location on Vehicle where Principal Tripping Force was Applied	UNDERCARRIAGE
Direction of Initial Roll	ROLL RIGHT

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	NONINTER/NONJUNC
Traffic Control Device	
Police Reported Alcohol Presence	No ALCOHOL
Alcohol Test (< 95 indicates BAC 0.xx)	4

Vehicle Factors

Make-Model	Chevrolet Caprice/Impala
Year	1983
Class	PASSENGER CAR
Body Type	4-DR SEDAN/HDTOP
Weight	163

Pre-Crash Driver Data

Accident Type	6
Pre-event Movement	GOING STRAIGHT
Critical Pre-crash Event	Oth CRIT EVENT
Attempted Avoidance Maneuver	No AVOIDANCE
Pre-impact Stability	TRACKING
Pre-impact Location	DEPARTED ROADWAY

DRIVER Factors

Age	72	Height	165	Weight	77
Gender					FEMALE-NOT PREG
Ejection					No EJECTION
Ejection Area					No EJECTION
Entrapment					JAMMED DOOR/FIRE

Restraint Factors

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

Injuries

Occupant	1998-13-199-1-1
MAIS	6=Maximum
Seat Position	Front left side

AIS Level	Injury Description	Contacts
6=Maximum	Burn, 2nd or 3rd degree, >904=Severe	>3 rib fxs on each side, stable chest
Steering comb		
2=Moderate	Humeral fracture NFS	Center panel
3=Serious	Humeral fracture, open/displaced/comminuted	Left apnel
2=Moderate	Sternoclavicular joint dislocation	Steering rim
2=Moderate	Sternoclavicular joint dislocation	Steering rim
2=Moderate	851605	Left apnel
2=Moderate	Tibial fracture NFS	Left apnel
2=Moderate	Foot fracture NFS	Floor
4=Severe	Thoracic cord incomplete syndrome, with fx & dislocation	Steering comb
2=Moderate	Hepatic contusion, minor (subcapsular, <503=Serious	Lung laceration, unilateral NFS
Steering comb		
4=Severe	Lung contusion, bilateral	Steering comb
5=Critical	Thoracic aortic laceration, major, & mediastinal bleeding	Sterring hub
3=Serious	Myocardial contusion, minor	Sterring hub
4=Severe	Hepatic laceration, major (<505=Critical	Brain stem hemorrhage
Left apnel		
3=Serious	Cerebral subarachnoid hemorrhage	Left apnel

Occupant: 1998-13-199-1-2



Fire Information

Fire Occurrence	Major fire
Fire Origin	Engine compartment
Location of Fuel Leakage	Line/pump/filter
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	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	92 F Y E W 5
Damage (C1-C6)	142 135 109 106 51 0
Crush (L and D)	181 -59
Object Contacted 1	LARGE TREE
Object Contacted 2	ROLLOVER-OVERTURN

NASS Weighting Factor

Weighting factor	81.51723587
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Rollover Characteristics

Number of Events	4
Rollover Initiation Type	FLIP-OVER
Location of Rollover Initiation	ROADSIDE/MEDIAN
Rollover Initiation Object Contacted	SMALL TREE
Location on Vehicle where Principal Tripping Force was Applied	UNDERCARRIAGE
Direction of Initial Roll	ROLL RIGHT

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	NONINTER/NONJUNC
Traffic Control Device	
Police Reported Alcohol Presence	No ALCOHOL
Alcohol Test (< 95 indicates BAC 0.xx)	4

Vehicle Factors

Make-Model	Chevrolet Caprice/Impala
Year	1983
Class	PASSENGER CAR
Body Type	4-DR SEDAN/HDTOP
Weight	163

Pre-Crash Driver Data

Accident Type	6
Pre-event Movement	GOING STRAIGHT
Critical Pre-crash Event	Oth CRIT EVENT
Attempted Avoidance Manuever	No AVOIDANCE
Pre-impact Stability	TRACKING
Pre-impact Location	DEPARTED ROADWAY

PASSENGER Factors

Age	73	Height	168	Weight	73
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

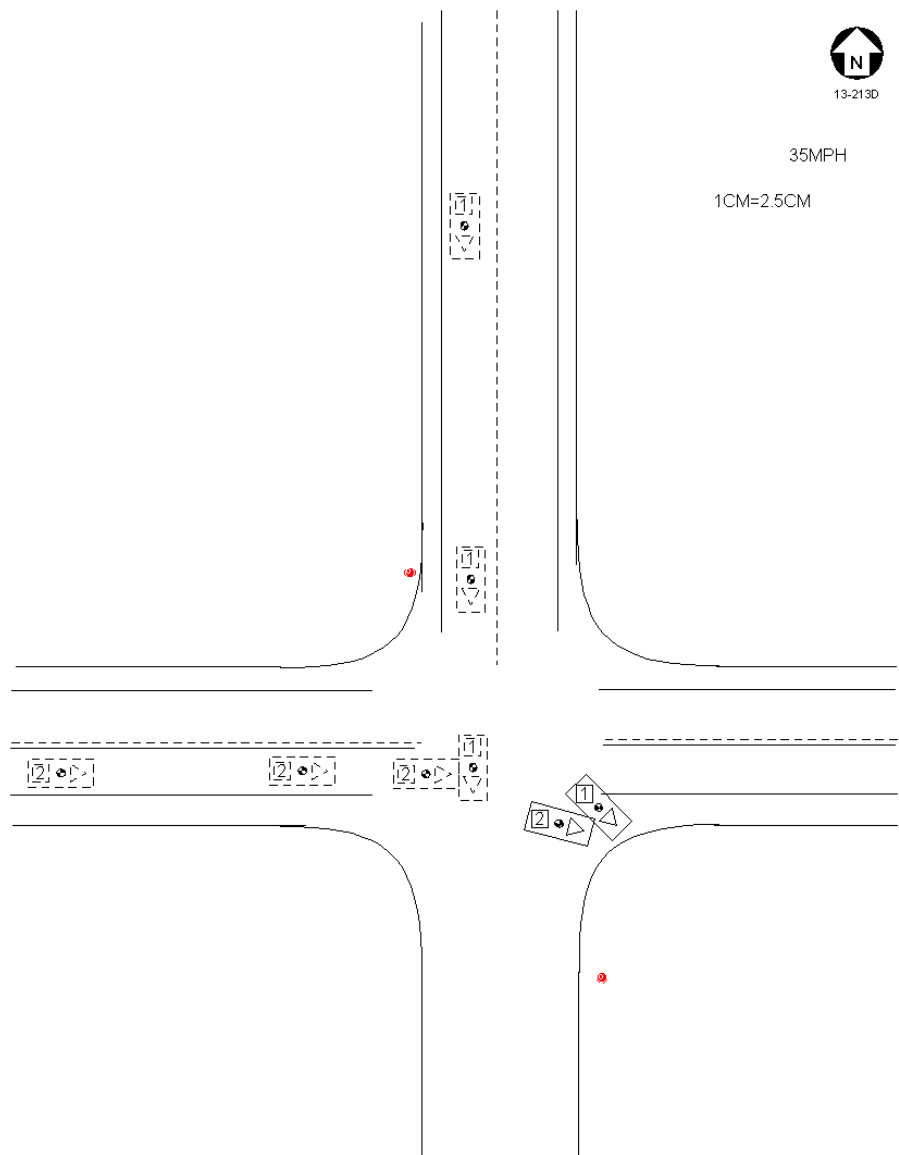
Injuries

Occupant	1998-13-199-1-2
MAIS	3=Serious
Seat Position	Front right side

AIS Level	Injury Description	Contacts
3=Serious	Unconscious on admission (GCS<=8) NFS	Unknown SOURCE
1=Minor	Leg skin abrasion	Right panel
1=Minor	Thoracic skin contusion	Right panel
1=Minor	Upper extremity skin contusion	Right interior
1=Minor	Upper extremity skin contusion	Right panel
1=Minor	Facial skin laceration NFS	Unknown SOURCE
1=Minor	Leg skin contusion (hematoma)	Left apnel
1=Minor	Leg skin laceration, minor	Right panel
2=Moderate	Pelvic fracture NFS	Right panel
2=Moderate	Pelvic fracture, closed	Seat, back
2=Moderate	Fibular head, neck, or shaft fracture	Floor
2=Moderate	Ankle joint dislocation NFS	Floor
2=Moderate	Tibial fracture NFS	Floor
3=Serious	Lung contusion NFS	Right panel
1=Minor	297602	Unknown SOURCE
1=Minor	Scalp laceration, minor	Unknown SOURCE
1=Minor	Facial skin avulsion, superficial	Unknown SOURCE
1=Minor	Facial skin laceration NFS	Unknown SOURCE

15 Case 1998-13-213

Summary:
VEHICLE # 1 WAS SOUTH BOUND ON A 2 LANE, ASPHALT, DRY, 35 MPH, LEVEL STREET. VEHICLE #1 WAS CONTACTED IN THE RIGHT SIDE BY VEHICLE # 2'S FRONT. BOTH VEHICLES WERE TOWED FROM THE SCENE. THE SINGLE OCCUPANT IN VEHICLE # 2 WAS TRANSPORTED TO THE HOSPITAL.



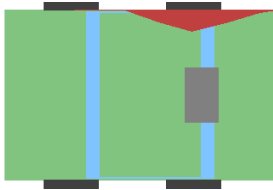
Vehicle	Body type	Make	Model	Year	Occ. Age	Occupant's sex	Maximum known occupant ais
1	LARGE PICKUP	Dodge	"D,W-series "	1971	18	MALE	0=None
1	LARGE PICKUP	Dodge	"D,W-series "	1972	17	MALE	0=None
2	2DR SEDAN/HT/CPE	Cadillac	Deville/Fleetwood	1989	52	FEMALE-NOT PREG	1=Minor

Occupant: 1998-13-213-1-1



Fire Information

Fire Occurrence	No fire
Fire Origin	No fire
Location of Fuel Leakage	Tank
Type of Fuel Tank	Metallic
Fuel Tank Location	Other (will specify)
Fuel Cap Location	Left side, forward rear axle
Fuel Tank Damage	Deform+seam fail
Fuel Type	Gasoline



Pre-Crash Environment

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

Crash Severity

Nr. Quarter Turns	No rollover
Impact Speed	998
Total, Longitudal, and Lateral δV	18 -9 -16
Est. δV with sequence number	DELTA V CODED 1
CDC	2 R Z E W 3
Damage (C1-C6)	0 0 17 31 18 3
Crush (L and D)	297 -61
Object Contacted 1	VEHICLE NO. 2
Object Contacted 2	0

NASS Weighting Factor

Weighting factor	126.41906025
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Rollover Characteristics

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

Vehicle Factors

Make-Model	Dodge "D,W-series "
Year	1972
Class	PASSENGER CAR
Body Type	LARGE PICKUP
Weight	146

Pre-Crash Driver Data

Accident Type	87
Pre-event Movement	GOING STRAIGHT
Critical Pre-crash Event	CROSS OVER INTER
Attempted Avoidance Manuever	BRAKE W/O LOCKUP
Pre-impact Stability	TRACKING
Pre-impact Location	STAYED IN LANE

DRIVER Factors

Age	18	Height	180	Weight	68
Gender					MALE
Ejection					No EJECTION
Ejection Area					No EJECTION
Entrapment					Not ENTRAPPED

Restraint Factors

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

Injuries

Occupant	1998-13-213-1-1
MAIS	0=None
Seat Position	Front left side

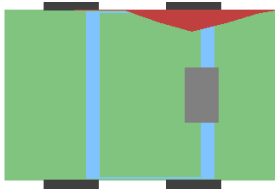
AIS Level	Injury Description	Contacts
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Occupant: 1998-13-213-1-2



Fire Information

Fire Occurrence	No fire
Fire Origin	No fire
Location of Fuel Leakage	Tank
Type of Fuel Tank	Metallic
Fuel Tank Location	Other (will specify)
Fuel Cap Location	Left side, forward rear axle
Fuel Tank Damage	Deform+seam fail
Fuel Type	Gasoline



Pre-Crash Environment

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

Crash Severity

Nr. Quarter Turns	No rollover
Impact Speed	998
Total, Longitudal, and Lateral δV	18 -9 -16
Est. δV with sequence number	DELTA V CODED 1
CDC	2 R Z E W 3
Damage (C1-C6)	0 0 17 31 18 3
Crush (L and D)	297 -61
Object Contacted 1	VEHICLE NO. 2
Object Contacted 2	0

NASS Weighting Factor

Weighting factor	126.41906025
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Rollover Characteristics

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

Vehicle Factors

Make-Model	Dodge "D,W-series "
Year	1972
Class	PASSENGER CAR
Body Type	LARGE PICKUP
Weight	146

Pre-Crash Driver Data

Accident Type	87
Pre-event Movement	GOING STRAIGHT
Critical Pre-crash Event	CROSS OVER INTER
Attempted Avoidance Manuever	BRAKE W/O LOCKUP
Pre-impact Stability	TRACKING
Pre-impact Location	STAYED IN LANE

PASSENGER Factors

Age	17	Height	183	Weight	79
Gender			MALE		
Ejection			No EJECTION		
Ejection Area			No EJECTION		
Entrapment			Not ENTRAPPED		

Restraint Factors

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

Injuries

Occupant	1998-13-213-1-2
MAIS	0=None
Seat Position	Front right side

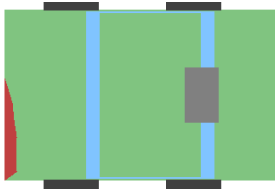
AIS Level	Injury Description	Contacts
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Occupant: 1998-13-213-2-1



Fire Information

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



Pre-Crash Environment

Traffic Flow	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	Cadillac Deville/Fleetwood
Year	1989
Class	PASSENGER CAR
Body Type	2DR SEDAN/HT/CPE
Weight	154

Crash Severity

Nr. Quarter Turns	No rollover
Impact Speed	998
Total, Longitudal, and Lateral δV	20 -18 10
Est. δV with sequence number	DELTA V CODED 1
CDC	11 F D E W 1
Damage (C1-C6)	18 17 18 14 12 4
Crush (L and D)	151 0
Object Contacted 1	VEHICLE NO. 1
Object Contacted 2	0

Pre-Crash Driver Data

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

NASS Weighting Factor

Weighting factor	126.41906025
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DRIVER Factors

Rollover Characteristics

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

Age	52	Height	155	Weight	51
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

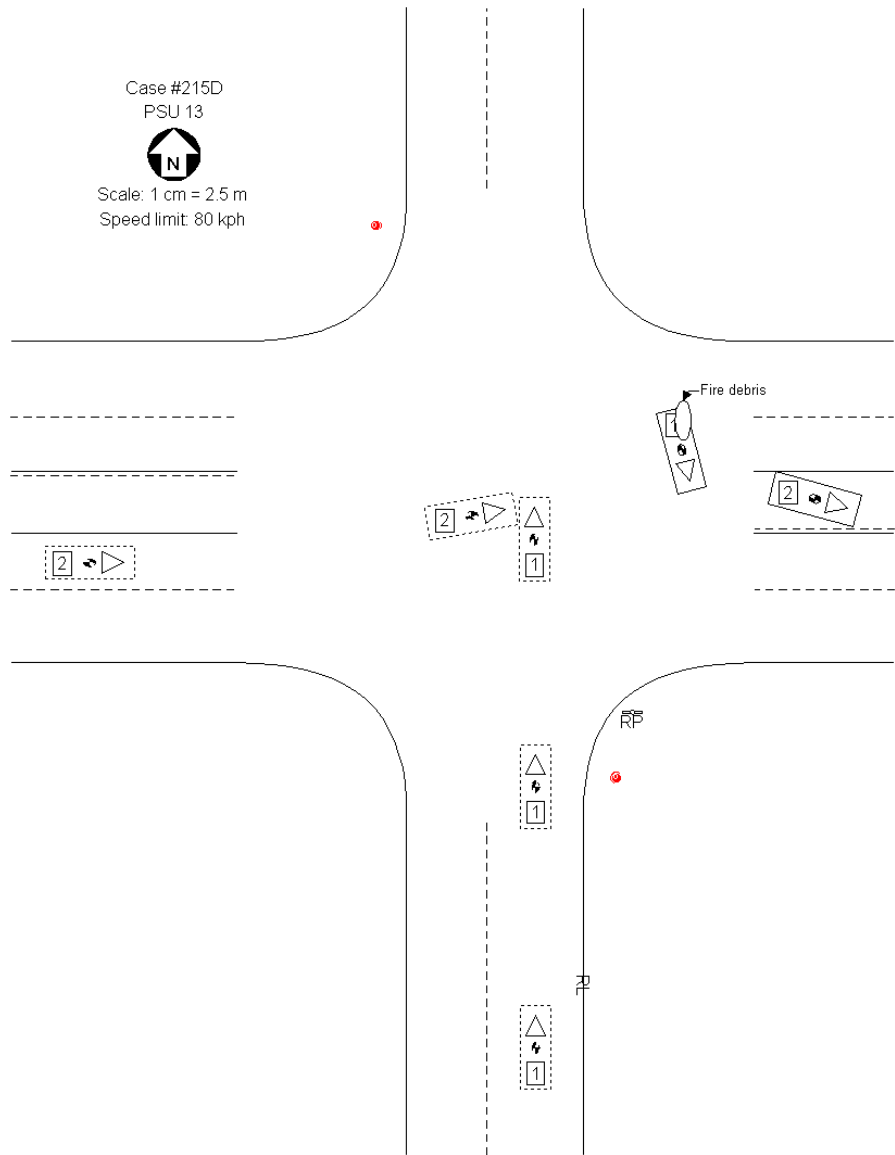
Occupant	1998-13-213-2-1
MAIS	1=Minor
Seat Position	Front left side

AIS Level	Injury Description	Contacts
1=Minor	Facial skin laceration, minor	Sunvisor
1=Minor	Scalp laceration, NFS	Sunvisor
1=Minor	Acute cervical spine strain without fracture or dislocation	Other noncontact
1=Minor	Thoracic spine strain, acute without fracture or dislocation	Other noncontact

16 Case 1998-13-215

Summary:

Vehicle 1 was travelling northbound on a dry, 2-lane, 2-way, asphalt road in the daylight, and crossed over an intersection at same time as V2, which was travelling eastbound in the second lane of a dry, 5-lane, 2-way asphalt road. The front of V2 impacted the left side of V1. V1 spun 180 degrees clockwise, the gas tank ruptured, and the back of the vehicle caught on fire. Both vehicles were towed. V1 was severely damaged, V2 was moderately damaged. The driver of V2 was wearing a seatbelt and was not injured. The occupants of V1 were not wearing seatbelts, the 2 occupants in front sustained minor injuries and the 2 in back were not injured. All occupants from both vehicles were transported to the hospital per police instruction.



Vehicle	Body type	Make	Model	Year	Occ.#	Age	Occupant's sex	Maximum known occupant ais
1	2DR SEDAN/HT/CPE	Buick	Regal	1986	1	33	FEMALE-NOT PREG	1=Minor
1	2DR SEDAN/HT/CPE	Buick	Regal	1986	2	14	FEMALE-NOT PREG	1=Minor
1	2DR SEDAN/HT/CPE	Buick	Regal	1986	3	15	FEMALE-NOT PREG	1=Minor
1	2DR SEDAN/HT/CPE	Buick	Regal	1986	4	3	FEMALE-NOT PREG	0=None
2	LARGE PICKUP	Ford	F-series P/U	1993	1	67	MALE	0=None

Occupant: 1998-13-215-1-1



Fire Information

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



Crash Severity

Nr. Quarter Turns	No rollover
Impact Speed	998
Total, Longitudal, and Lateral δV	23 -11 20
Est. δV with sequence number	DELTA V CODED 1
CDC	10 L F E W 4
Damage (C1-C6)	0 10 38 53 36 33
Crush (L and D)	135 139
Object Contacted 1	VEHICLE NO. 2
Object Contacted 2	0

NASS Weighting Factor

Weighting factor	173.97118383
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Rollover Characteristics

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

Pre-Crash Environment

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

Vehicle Factors

Make-Model	Buick Regal
Year	1986
Class	PASSENGER CAR
Body Type	2DR SEDAN/HT/CPE
Weight	145

Pre-Crash Driver Data

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

DRIVER Factors

Age	33	Height	158	Weight	61
Gender					FEMALE-NOT PREG
Ejection					No EJECTION
Ejection Area					No EJECTION
Entrapment					JAMMED DOOR/FIRE

Restraint Factors

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

Injuries

Occupant	1998-13-215-1-1
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	Lumbar spine acute strain without fracture or dislocation	Seat, back

Occupant: 1998-13-215-1-2



Fire Information

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



Crash Severity

Nr. Quarter Turns	No rollover
Impact Speed	998
Total, Longitudal, and Lateral δV	23 -11 20
Est. δV with sequence number	DELTA V CODED 1
CDC	10 L F E W 4
Damage (C1-C6)	0 10 38 53 36 33
Crush (L and D)	135 139
Object Contacted 1	VEHICLE NO. 2
Object Contacted 2	0

NASS Weighting Factor

Weighting factor	173.97118383
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Rollover Characteristics

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

Pre-Crash Environment

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

Vehicle Factors

Make-Model	Buick Regal
Year	1986
Class	PASSENGER CAR
Body Type	2DR SEDAN/HT/CPE
Weight	145

Pre-Crash Driver Data

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

PASSENGER Factors

Age	14	Height	168	Weight	52
Gender					FEMALE-NOT PREG
Ejection					No EJECTION
Ejection Area					No EJECTION
Entrapment					JAMMED DOOR/FIRE

Restraint Factors

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

Injuries

Occupant	1998-13-215-1-2
MAIS	1=Minor
Seat Position	Front right side

AIS Level	Injury Description	Contacts
1=Minor	Upper extremity skin contusion	Center panel
1=Minor	Leg skin contusion (hematoma)	Right interior
1=Minor	Thoracic skin contusion	Center panel

Occupant: 1998-13-215-1-3



Fire Information

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



Crash Severity

Nr. Quarter Turns	No rollover
Impact Speed	998
Total, Longitudal, and Lateral δV	23 -11 20
Est. δV with sequence number	DELTA V CODED 1
CDC	10 L F E W 4
Damage (C1-C6)	0 10 38 53 36 33
Crush (L and D)	135 139
Object Contacted 1	VEHICLE NO. 2
Object Contacted 2	0

NASS Weighting Factor

Weighting factor	173.97118383
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Rollover Characteristics

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

Pre-Crash Environment

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

Vehicle Factors

Make-Model	Buick Regal
Year	1986
Class	PASSENGER CAR
Body Type	2DR SEDAN/HT/CPE
Weight	145

Pre-Crash Driver Data

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

PASSENGER Factors

Age	15	Height	168	Weight	54
Gender					FEMALE-NOT PREG
Ejection					No EJECTION
Ejection Area					No EJECTION
Entrapment					JAMMED DOOR/FIRE

Restraint Factors

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

Injuries

Occupant	1998-13-215-1-3
MAIS	1=Minor
Seat Position	Second left

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

Occupant: 1998-13-215-1-4



Fire Information

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



Crash Severity

Nr. Quarter Turns	No rollover
Impact Speed	998
Total, Longitudal, and Lateral δV	23 -11 20
Est. δV with sequence number	DELTA V CODED 1
CDC	10 L F E W 4
Damage (C1-C6)	0 10 38 53 36 33
Crush (L and D)	135 139
Object Contacted 1	VEHICLE NO. 2
Object Contacted 2	0

NASS Weighting Factor

Weighting factor	173.97118383
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Rollover Characteristics

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

Pre-Crash Environment

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

Vehicle Factors

Make-Model	Buick Regal
Year	1986
Class	PASSENGER CAR
Body Type	2DR SEDAN/HT/CPE
Weight	145

Pre-Crash Driver Data

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

PASSENGER Factors

Age	3	Height	84	Weight	14
Gender					FEMALE-NOT PREG
Ejection					No EJECTION
Ejection Area					No EJECTION
Entrapment					JAMMED DOOR/FIRE

Restraint Factors

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

Injuries

Occupant	1998-13-215-1-4
MAIS	0=None
Seat Position	Second middle

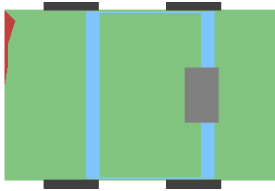
AIS Level	Injury Description	Contacts
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Occupant: 1998-13-215-2-1



Fire Information

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



Crash Severity

Nr. Quarter Turns	No rollover
Impact Speed	998
Total, Longitudal, and Lateral δV	19 -16 -9
Est. δV with sequence number	DELTA V CODED 1
CDC	1 F Z E W 1
Damage (C1-C6)	0 0 0 6 6 15
Crush (L and D)	186 43
Object Contacted 1	VEHICLE NO. 1
Object Contacted 2	0

NASS Weighting Factor

Weighting factor	173.97118383
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Rollover Characteristics

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

Pre-Crash Environment

Traffic Flow	Not DIVIDED
Number of Travel Lanes	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	Ford F-series P/U
Year	1993
Class	TRUCK
Body Type	LARGE PICKUP
Weight	193

Pre-Crash Driver Data

Accident Type	88
Pre-event Movement	GOING STRAIGHT
Critical Pre-crash Event	IN CROSSOVER
Attempted Avoidance Manuever	BRAKE+STEER LEFT
Pre-impact Stability	TRACKING
Pre-impact Location	Left TRAVEL LANE

DRIVER Factors

Age	67	Height	170	Weight	75
Gender					MALE
Ejection					No EJECTION
Ejection Area					No EJECTION
Entrapment					Not ENTRAPPED

Restraint Factors

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

Injuries

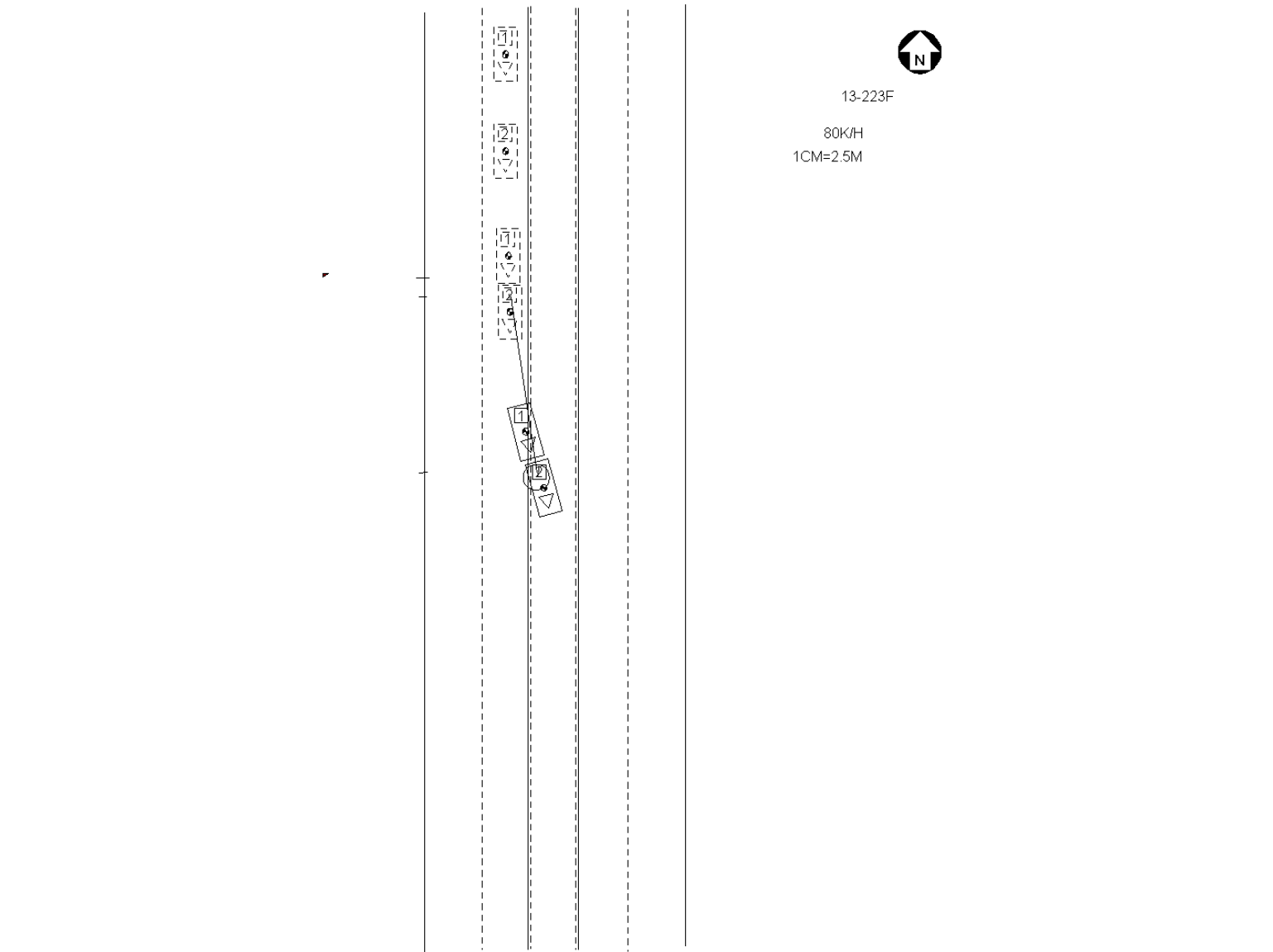
Occupant	1998-13-215-2-1
MAIS	0=None
Seat Position	Front left side

AIS Level	Injury Description	Contacts
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17 Case 1998-13-223

Summary:

VEHICLE # 1 WAS EAST BOUND ON A 5 LANE, ASPHALT, DRY, 80K/H, STATE HIGHWAY. THE FRONT PLANE OF VEHICLE #1 WAS CONTACTED BY THE REAR OF VEHICLE #2. VEHICLE #2 EXITED A DRIVEWAY AND STALLED IN THE ROAD, FACING THE SAME DIRECTION AS VEHICLE #1. BOTH VEHICLES WERE TOWED FROM THE SCENE WITH MINOR DAMAGE TO VEHICLE #1 AND MAJOR DAMAGE TO VEHICLE # 2. THE PASSENGER IN VEHICLE #1 WAS TRANSPORTED TO THEHOSPITAL WITH BRUISES FROM THE SEAT BELT RESTRAINT.



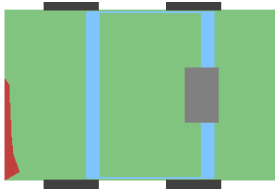
Vehicle	Body type	Make	Model	Year	Occ.#	Age	Occupant's sex	Maximum known occupant ais
1	COMPACT PICKUP	Ford	Ranger	1993	1	23	MALE	1=Minor
1	COMPACT PICKUP	Ford	Ranger	1993	2	13	MALE	1=Minor
2	2DR SEDAN/HT/CPE	Chrysler	Lebaron	1987	1	21	FEMALE-NOT PREG	7=Unk. sev.

Occupant: 1998-13-223-1-1



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	42 -41 -7
Est. δV with sequence number	DELTA V CODED 1
CDC	12 F D E W 1
Damage (C1-C6)	22 13 10 9 8 8
Crush (L and D)	150 0
Object Contacted 1	VEHICLE NO. 2
Object Contacted 2	0

NASS Weighting Factor

Weighting factor	228.6349657
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Rollover Characteristics

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

Pre-Crash Environment

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

Vehicle Factors

Make-Model	Ford Ranger
Year	1993
Class	TRUCK
Body Type	COMPACT PICKUP
Weight	136

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	23	Height	178	Weight	91
Gender					MALE
Ejection					No EJECTION
Ejection Area					No EJECTION
Entrapment					Not ENTRAPPED

Restraint Factors

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

Injuries

Occupant	1998-13-223-1-1
MAIS	1=Minor
Seat Position	Front left side

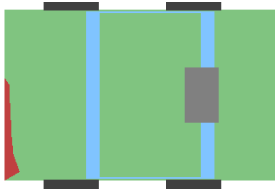
AIS Level	Injury Description	Contacts
1=Minor	Leg skin contusion (hematoma)	Left ankle
1=Minor	Ankle joint sprain	Foot controls

Occupant: 1998-13-223-1-2



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	42 -41 -7
Est. δV with sequence number	DELTA V CODED 1
CDC	12 F D E W 1
Damage (C1-C6)	22 13 10 9 8 8
Crush (L and D)	150 0
Object Contacted 1	VEHICLE NO. 2
Object Contacted 2	0

NASS Weighting Factor

Weighting factor	228.6349657
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Rollover Characteristics

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

Pre-Crash Environment

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

Vehicle Factors

Make-Model	Ford Ranger
Year	1993
Class	TRUCK
Body Type	COMPACT PICKUP
Weight	136

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

PASSENGER Factors

Age	13	Height	147	Weight	41
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	1998-13-223-1-2
MAIS	1=Minor
Seat Position	Front right side

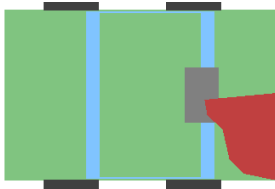
AIS Level	Injury Description	Contacts
1=Minor	Upper extremity skin abrasion	Belt webb/buckle
1=Minor	Thoracic skin abrasion	Belt webb/buckle
1=Minor	Thoracic skin contusion	Belt webb/buckle

Occupant: 1998-13-223-2-1



Fire Information

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



Pre-Crash Environment

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

Vehicle Factors

Make-Model	Chrysler Lebaron
Year	1987
Class	PASSENGER CAR
Body Type	2DR SEDAN/HT/CPE
Weight	134

Crash Severity

Nr. Quarter Turns	No rollover
Impact Speed	998
Total, Longitudal, and Lateral δV	43 43 < 0.5 KMPH
Est. δV with sequence number	DELTA V CODED 1
CDC	6 B D E W 6
Damage (C1-C6)	48 70 74 79 102 106
Crush (L and D)	129 0
Object Contacted 1	VEHICLE NO. 1
Object Contacted 2	0

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	228.6349657
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DRIVER Factors

Age	21	Height	0	Weight	0
Gender					FEMALE-NOT PREG
Ejection					No EJECTION
Ejection Area					No EJECTION
Entrapment					Not ENTRAPPED

Rollover Characteristics

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

Restraint Factors

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

Injuries

Occupant	1998-13-223-2-1
MAIS	7=Unk. sev.
Seat Position	Front left side

AIS Level	Injury Description	Contacts
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18 Case 1998-13-54

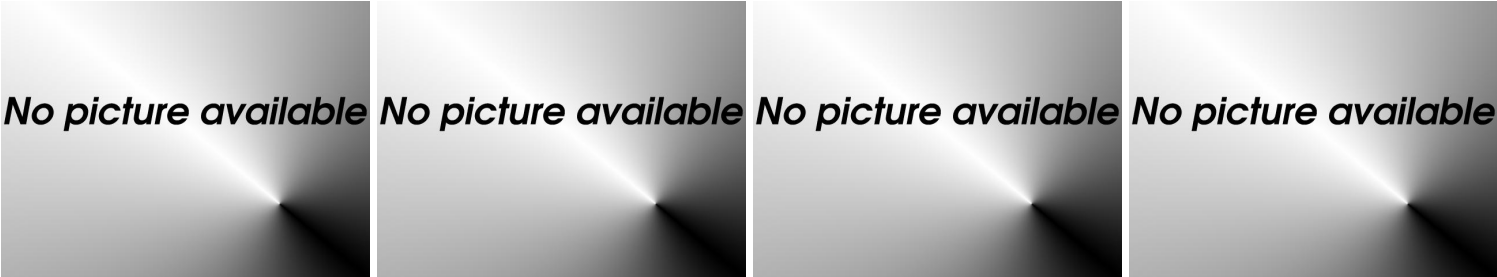
Summary:

VEHICLE # 1 WAS EAST BOUND ON A 55 MPH ,WASHBOARD, GRAVEL ROAD AND WENT OFF THE NORTH SIDE STRIKING 3 MAILBOXES AND PUTTING THE POSTS THRU THE FUEL TANK, THEN STRIKING A CULVERT , AND CONTACTING A TREE WHILE AIR BORNE AND LANDING ON ITS TOP. THE VEHICLE WAS TOWED FROM THE SCENE AND THE LONE OCCUPANT WAS TRANSPORTED TO THE HOSPITAL.



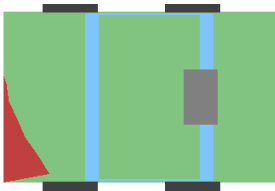
Vehicle	Body type	Make	Model	Year	Occ.#	Age	Occupant's sex	Maximum known occupant ais
1	MINIVAN	Chevrolet	Lumina APV	1992	1	44	MALE	4=Severe

Occupant: 1998-13-54-1-1



Fire Information

Fire Occurence	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	Diesel



Pre-Crash Environment

Traffic Flow	Not DIVIDED
Number of Travel Lanes	TWO
Roadway Alignment	STRAIGHT
Roadway Profile	LEVEL
Roadway Surface Type	SLAG/GRAVL/STONE
Roadway Surface Condition	SAND/DIRT/OIL
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)	19

Crash Severity

Nr. Quarter Turns	2 QUARTER TURNS
Impact Speed	998
Total, Longitudal, and Lateral δV	40 -37 14
Est. δV with sequence number	DELTA V CODED 5
CDC	11 F D E W 5
Damage (C1-C6)	67 51 32 20 8 4
Crush (L and D)	157 0
Object Contacted 1	LARGE TREE
Object Contacted 2	Oth FIXED OBJECT

NASS Weighting Factor

Weighting factor	86.985591913
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Rollover Characteristics

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

Vehicle Factors

Make-Model	Chevrolet Lumina APV
Year	1992
Class	PASSENGER CAR
Body Type	MINIVAN
Weight	157

Pre-Crash Driver Data

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

DRIVER Factors

Age	44	Height	196	Weight	84
Gender			MALE		
Ejection			No EJECTION		
Ejection Area			No EJECTION		
Entrapment			Not ENTRAPPED		

Restraint Factors

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

Injuries

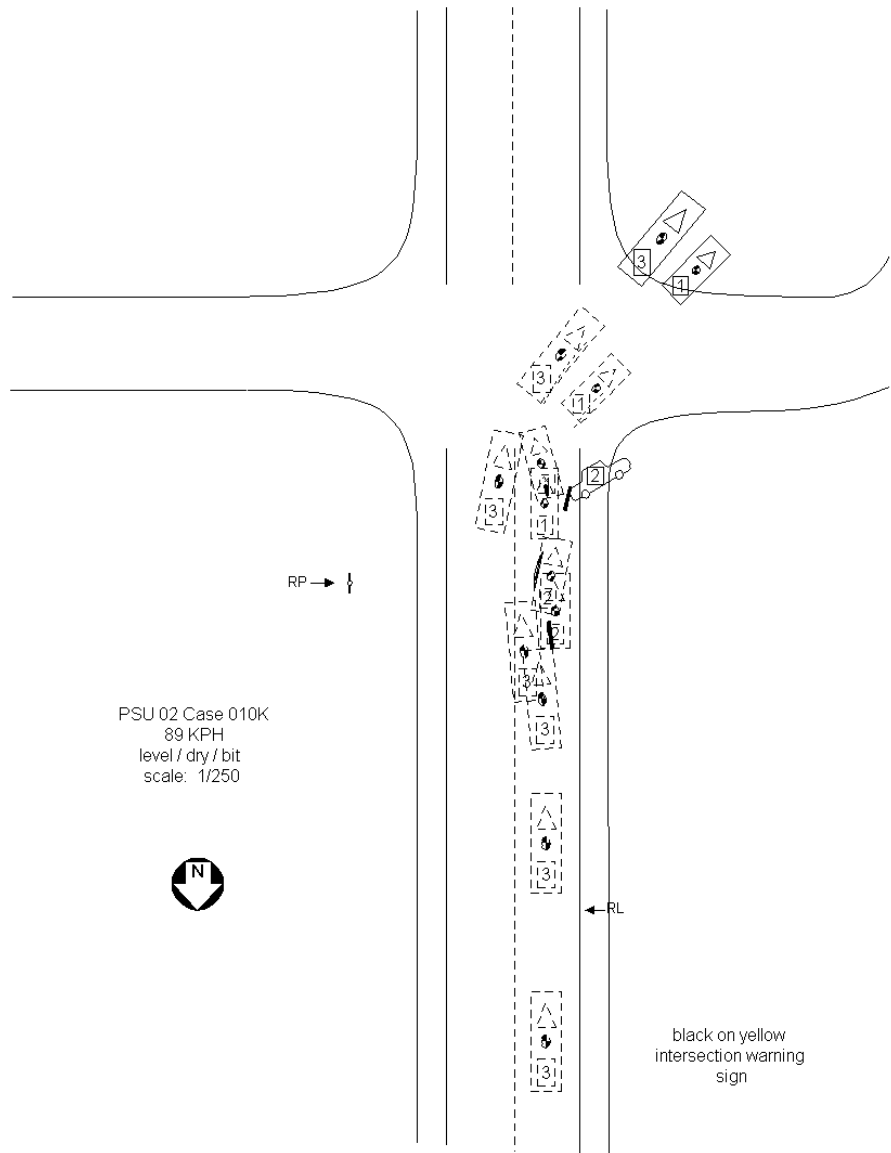
Occupant	1998-13-54-1-1
MAIS	4=Severe
Seat Position	Front left side

AIS Level	Injury Description	Contacts
3=Serious	Basilar skull fracture, with CSF leak	Roof
3=Serious	Skull fracture, vault, comminuted (compound, depressed)	Roof
2=Moderate	Nose fracture, open/displaced/comminuted	Steering rim
4=Severe	Cerebral laceration	Roof
3=Serious	Cerebral contusion, single, small (<30ccs)	Roof
3=Serious	Orbit fracture, open/displaced/comminuted	Steering rim
4=Severe	Cerebral hematoma, NFS	Roof
1=Minor	Leg skin laceration, minor	Left apnel
3=Serious	Cerebral edema, mild (compressed ventricles w/o brain stem)	Roof

19 Case 1998-2-10

Summary:

Vehicle #1, #2 and #3 traveling south on two lane undivided roadway. Vehicle #1 and Vehicle #2 stop in southbound lane waiting to make a left hand turn. Vehicle #3 strikes Vehicle #2 in rear. Vehicle #2 then strikes Vehicle #1 in rear with front. Vehicle #2 rolls over onto left side and comes to rest. Vehicle #3 continues around Vehicle #2 and strikes Vehicle #3 in the left side. Vehicle #1 and Vehicle #3 continue off right side of roadway and come to rest. The weather was clear, the roadway dry and it was daylight at the time of the accident. All 3 vehicles were towed due to damage. Occupants of Vehicle #1, 2 occupants in Vehicle #2 and occupant in Vehicle #3 were transported, treated and released at local hospitals. Occupant #3 in Vehicle #2 was hospitalized due to injuries.



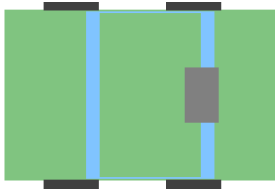
Vehicle	Body type	Make	Model	Year	Occ.#	Age	Occupant's sex	Maximum known occupant ais
1	5DR/4DR HATCHBAK	Ford	Escort/EXP	1990	1	38	FEMALE-NOT PREG	1=Minor
1	5DR/4DR HATCHBAK	Ford	Escort/EXP	1990	2	17	FEMALE-NOT PREG	1=Minor
2	STATION WAGON	Ford	Pinto	1975	1	17	MALE	1=Minor
2	STATION WAGON	Ford	Pinto	1975	2	18	MALE	1=Minor
2	STATION WAGON	Ford	Pinto	1975	3	16	FEMALE-NOT PREG	4=Severe
3	Other VAN TYPE	Ford	Van derivative	1993	1	21	MALE	1=Minor

Occupant: 1998-2-10-1-1



Fire Information

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



Pre-Crash Environment

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

Crash Severity

Nr. Quarter Turns	No rollover
Impact Speed	< 0.5KMPH
Total, Longitudal, and Lateral δV	< 0.5 KMPH < 0.5 KMPH < 0.5 KMPH
Est. δV with sequence number	MODERATE 2
CDC	46 B Z E W 6
Damage (C1-C6)	0 0 0 0 0 0
Crush (L and D)	0 0
Object Contacted 1	VEHICLE NO. 2
Object Contacted 2	VEHICLE NO. 3

NASS Weighting Factor

Weighting factor	31.48491267
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Rollover Characteristics

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

Vehicle Factors

Make-Model	Ford Escort/EXP
Year	1990
Class	PASSENGER CAR
Body Type	5DR/4DR HATCHBAK
Weight	105

Pre-Crash Driver Data

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

DRIVER Factors

Age	38	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	1998-2-10-1-1
MAIS	1=Minor
Seat Position	Front left side

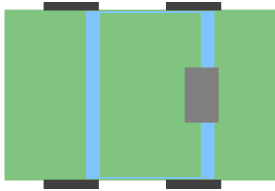
AIS Level	Injury Description	Contacts
1=Minor	Neck skin contusion (hematoma)	Belt webb/buckle

Occupant: 1998-2-10-1-2



Fire Information

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



Pre-Crash Environment

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

Vehicle Factors

Make-Model	Ford Escort/EXP
Year	1990
Class	PASSENGER CAR
Body Type	5DR/4DR HATCHBAK
Weight	105

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	46 B Z E W 6
Damage (C1-C6)	0 0 0 0 0 0
Crush (L and D)	0 0
Object Contacted 1	VEHICLE NO. 2
Object Contacted 2	VEHICLE NO. 3

Pre-Crash Driver Data

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

NASS Weighting Factor

Weighting factor	31.48491267
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PASSENGER Factors

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

Rollover Characteristics

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

Restraint Factors

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

Injuries

Occupant	1998-2-10-1-2
MAIS	1=Minor
Seat Position	Second right

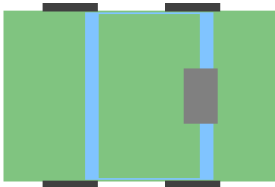
AIS Level	Injury Description	Contacts
1=Minor	Scalp contusion	Head restraint

Occupant: 1998-2-10-2-1



Fire Information

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



Crash Severity

Nr. Quarter Turns	1 QUARTER TURN
Impact Speed	< 0.5KMPH
Total, Longitudal, and Lateral δV	< 0.5 KMPH < 0.5 KMPH < 0.5 KMPH
Est. δV with sequence number	>39 AND <55 KMPH 1
CDC	46 B Y A W 5
Damage (C1-C6)	0 0 0 0 0 0
Crush (L and D)	0 0
Object Contacted 1	VEHICLE NO. 3
Object Contacted 2	VEHICLE NO. 1

NASS Weighting Factor

Weighting factor	31.48491267
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Rollover Characteristics

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

Pre-Crash Environment

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

Vehicle Factors

Make-Model	Ford Pinto
Year	1975
Class	PASSENGER CAR
Body Type	STATION WAGON
Weight	134

Pre-Crash Driver Data

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

DRIVER Factors

Age	17	Height	163	Weight	59
Gender			MALE		
Ejection			No EJECTION		
Ejection Area			No EJECTION		
Entrapment			Not ENTRAPPED		

Restraint Factors

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

Injuries

Occupant	1998-2-10-2-1
MAIS	1=Minor
Seat Position	Front left side

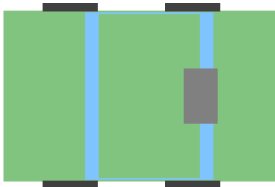
AIS Level	Injury Description	Contacts
1=Minor	Facial skin contusion	Steering rim
1=Minor	Facial skin laceration, minor	Steering rim

Occupant: 1998-2-10-2-2



Fire Information

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



Crash Severity

Nr. Quarter Turns	1 QUARTER TURN
Impact Speed	< 0.5KMPH
Total, Longitudal, and Lateral δV	< 0.5 KMPH < 0.5 KMPH < 0.5 KMPH
Est. δV with sequence number	>39 AND <55 KMPH 1
CDC	46 B Y A W 5
Damage (C1-C6)	0 0 0 0 0 0
Crush (L and D)	0 0
Object Contacted 1	VEHICLE NO. 3
Object Contacted 2	VEHICLE NO. 1

NASS Weighting Factor

Weighting factor	31.48491267
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Rollover Characteristics

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

Pre-Crash Environment

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

Vehicle Factors

Make-Model	Ford Pinto
Year	1975
Class	PASSENGER CAR
Body Type	STATION WAGON
Weight	134

Pre-Crash Driver Data

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

PASSENGER Factors

Age	18	Height	183	Weight	82
Gender			MALE		
Ejection			No EJECTION		
Ejection Area			No EJECTION		
Entrapment			Not ENTRAPPED		

Restraint Factors

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

Injuries

Occupant	1998-2-10-2-2
MAIS	1=Minor
Seat Position	Front right side

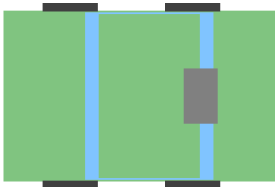
AIS Level	Injury Description	Contacts
1=Minor	Upper extremity skin laceration, minor	Left interior
1=Minor	Facial skin abrasion	Flying glass

Occupant: 1998-2-10-2-3



Fire Information

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



Crash Severity

Nr. Quarter Turns	1 QUARTER TURN
Impact Speed	< 0.5KMPH
Total, Longitudal, and Lateral δV	< 0.5 KMPH < 0.5 KMPH < 0.5 KMPH
Est. δV with sequence number	>39 AND <55 KMPH 1
CDC	46 B Y A W 5
Damage (C1-C6)	0 0 0 0 0 0
Crush (L and D)	0 0
Object Contacted 1	VEHICLE NO. 3
Object Contacted 2	VEHICLE NO. 1

NASS Weighting Factor

Weighting factor	31.48491267
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Rollover Characteristics

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

Pre-Crash Environment

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

Vehicle Factors

Make-Model	Ford Pinto
Year	1975
Class	PASSENGER CAR
Body Type	STATION WAGON
Weight	134

Pre-Crash Driver Data

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

PASSENGER Factors

Age	16	Height	158	Weight	45
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	1998-2-10-2-3
MAIS	4=Severe
Seat Position	Second right

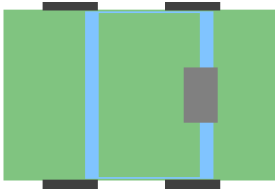
AIS Level	Injury Description	Contacts
3=Serious	Skull fracture, vault, comminuted (compound, depressed)	OMV front bumper
4=Severe	Cerebral subdural hematoma, NFS	OMV front bumper
3=Serious	Orbit fracture, open/displaced/comminuted	OMV unk exterior
3=Serious	Cerebral contusions, multiple, bilateral but NFS	OMV unk exterior

Occupant: 1998-2-10-3-1



Fire Information

Fire Occurence	No fire
Fire Origin	No fire
Location of Fuel Leakage	No fuel leakage
Type of Fuel Tank	Metallic
Fuel Tank Location	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	MODERATE 1
CDC	12 F Z E W 2
Damage (C1-C6)	0 0 0 0 0 0
Crush (L and D)	0 0
Object Contacted 1	VEHICLE NO. 2
Object Contacted 2	VEHICLE NO. 1

NASS Weighting Factor

Weighting factor	31.48491267
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Rollover Characteristics

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

Pre-Crash Environment

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

Vehicle Factors

Make-Model	Ford Van derivative
Year	1993
Class	TRUCK
Body Type	Other VAN TYPE
Weight	0

Pre-Crash Driver Data

Accident Type	20
Pre-event Movement	GOING STRAIGHT
Critical Pre-crash Event	STOPPED
Attempted Avoidance Manuever	BRAKE+STEER LEFT
Pre-impact Stability	TRACKING
Pre-impact Location	STAYED IN LANE

DRIVER Factors

Age	21	Height	165	Weight	68
Gender					MALE
Ejection					No EJECTION
Ejection Area					No EJECTION
Entrapment					Not ENTRAPPED

Restraint Factors

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

Injuries

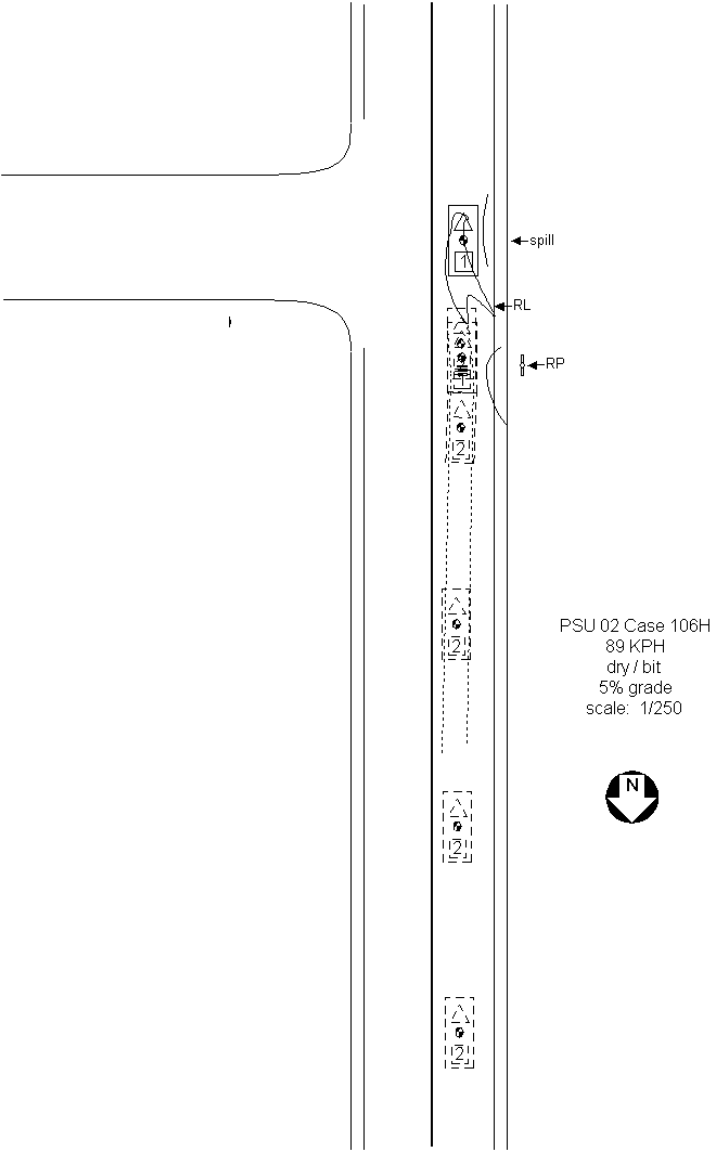
Occupant	1998-2-10-3-1
MAIS	1=Minor
Seat Position	Front left side

AIS Level	Injury Description	Contacts
1=Minor	Upper extremity skin abrasion	Steering rim
1=Minor	Upper extremity skin contusion	Steering rim
1=Minor	Leg skin contusion (hematoma)	Left apnel

20 Case 1998-2-106

Summary:

Vehicle #1 and Vehicle #2 traveling south on two lane undivided roadway. Vehicle #1 stops in lane to make a left turn and is struck in rear by Vehicle #2. The weather was clear, the roadway dry and it was daylight at the time of the accident. Both vehicles were towed due to damage. Operator of Vehicle #1 had complaint of pain to the neck, but was not transported.



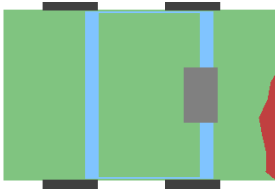
Vehicle #	Body type	Make	Model	Year	Occ. #	Age	Occupant's sex	Maximum known occupant ais
1	COMPACT UTILITY	Jeep	Cherokee84-	1992	1	38	FEMALE-NOT PREG	1=Minor
1	COMPACT UTILITY	Jeep	Cherokee84-	1992	2	2	MALE	0=None
1	COMPACT UTILITY	Jeep	Cherokee84-	1992	3	5	MALE	0=None
2	2DR SEDAN/HT/CPE	Porsche	944	1985	1	18	MALE	0=None
2	2DR SEDAN/HT/CPE	Porsche	944	1985	2	18	MALE	0=None
2	2DR SEDAN/HT/CPE	Porsche	944	1985	3	16	MALE	0=None

Occupant: 1998-2-106-1-1



Fire Information

Fire Occurence	No fire
Fire Origin	No fire
Location of Fuel Leakage	Filler neck
Type of Fuel Tank	Metallic
Fuel Tank Location	Behind rear axle, centered
Fuel Cap Location	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	28 28 < 0.5 KMPH
Est. δV with sequence number	DELTA V CODED 1
CDC	6 B D E W 2
Damage (C1-C6)	15 13 19 24 12 7
Crush (L and D)	158 0
Object Contacted 1	VEHICLE NO. 2
Object Contacted 2	0

NASS Weighting Factor

Weighting factor	1914.2075987
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Rollover Characteristics

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

Pre-Crash Environment

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

Vehicle Factors

Make-Model	Jeep Cherokee84-
Year	1992
Class	TRUCK
Body Type	COMPACT UTILITY
Weight	142

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	38	Height	175	Weight	76
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	1998-2-106-1-1
MAIS	1=Minor
Seat Position	Front left side

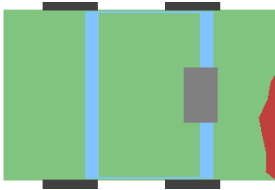
AIS Level	Injury Description	Contacts
1=Minor	Scalp contusion	Unknown SOURCE
1=Minor	Acute cervical spine strain without fracture or dislocation	Other noncontact

Occupant: 1998-2-106-1-2



Fire Information

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



Pre-Crash Environment

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

Crash Severity

Nr. Quarter Turns	No rollover
Impact Speed	998
Total, Longitudal, and Lateral δV	28 28 < 0.5 KMPH
Est. δV with sequence number	DELTA V CODED 1
CDC	6 B D E W 2
Damage (C1-C6)	15 13 19 24 12 7
Crush (L and D)	158 0
Object Contacted 1	VEHICLE NO. 2
Object Contacted 2	0

NASS Weighting Factor

Weighting factor	1914.2075987
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Rollover Characteristics

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

Vehicle Factors

Make-Model	Jeep Cherokee84-
Year	1992
Class	TRUCK
Body Type	COMPACT UTILITY
Weight	142

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

PASSENGER Factors

Age	2	Height	86	Weight	15
Gender			MALE		
Ejection			No EJECTION		
Ejection Area			No EJECTION		
Entrapment			Not ENTRAPPED		

Restraint Factors

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

Injuries

Occupant	1998-2-106-1-2
MAIS	0=None
Seat Position	Second left

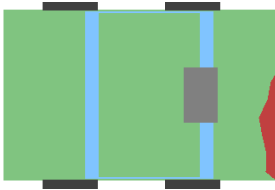
AIS Level	Injury Description	Contacts
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Occupant: 1998-2-106-1-3



Fire Information

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



Pre-Crash Environment

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

Crash Severity

Nr. Quarter Turns	No rollover
Impact Speed	998
Total, Longitudal, and Lateral δV	28 28 < 0.5 KMPH
Est. δV with sequence number	DELTA V CODED 1
CDC	6 B D E W 2
Damage (C1-C6)	15 13 19 24 12 7
Crush (L and D)	158 0
Object Contacted 1	VEHICLE NO. 2
Object Contacted 2	0

NASS Weighting Factor

Weighting factor	1914.2075987
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Rollover Characteristics

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

Vehicle Factors

Make-Model	Jeep Cherokee84-
Year	1992
Class	TRUCK
Body Type	COMPACT UTILITY
Weight	142

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

PASSENGER Factors

Age	5	Height	114	Weight	25
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	1998-2-106-1-3
MAIS	0=None
Seat Position	Second right

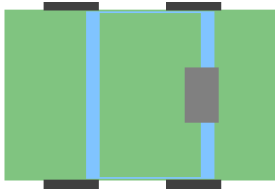
AIS Level	Injury Description	Contacts
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Occupant: 1998-2-106-2-1



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	29 -29 < 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	1914.2075987
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Rollover Characteristics

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

Pre-Crash Environment

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

Vehicle Factors

Make-Model	Porsche 944
Year	1985
Class	PASSENGER CAR
Body Type	2DR SEDAN/HT/CPE
Weight	128

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	18	Height	165	Weight	0
Gender			MALE		
Ejection			No EJECTION		
Ejection Area			No EJECTION		
Entrapment			Not ENTRAPPED		

Restraint Factors

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

Injuries

Occupant	1998-2-106-2-1
MAIS	0=None
Seat Position	Front left side

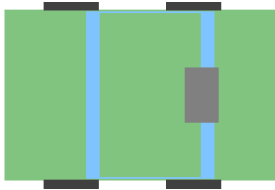
AIS Level	Injury Description	Contacts
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Occupant: 1998-2-106-2-2



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	29 -29 < 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	1914.2075987
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Rollover Characteristics

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

Pre-Crash Environment

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

Vehicle Factors

Make-Model	Porsche 944
Year	1985
Class	PASSENGER CAR
Body Type	2DR SEDAN/HT/CPE
Weight	128

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

Restraint Factors

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

Injuries

Occupant	1998-2-106-2-2
MAIS	0=None
Seat Position	Front right side

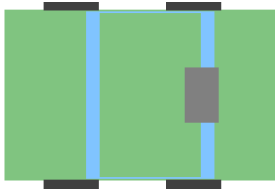
AIS Level	Injury Description	Contacts
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Occupant: 1998-2-106-2-3



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	29 -29 < 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	1914.2075987
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Rollover Characteristics

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

Pre-Crash Environment

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

Vehicle Factors

Make-Model	Porsche 944
Year	1985
Class	PASSENGER CAR
Body Type	2DR SEDAN/HT/CPE
Weight	128

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	0	Weight	0
Gender			MALE		
Ejection			No EJECTION		
Ejection Area			No EJECTION		
Entrapment			Not ENTRAPPED		

Restraint Factors

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

Injuries

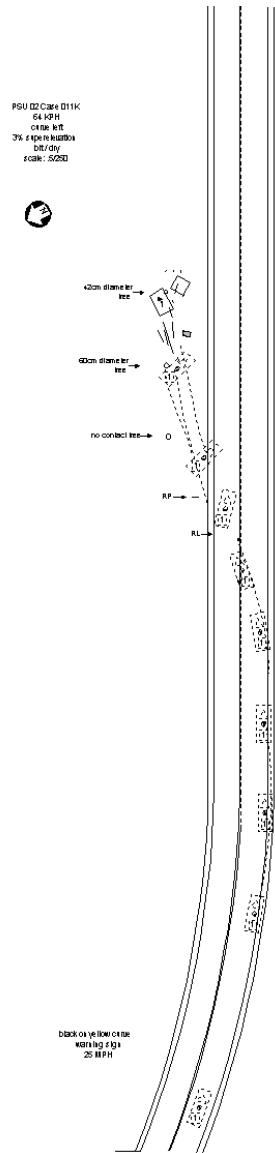
Occupant	1998-2-106-2-3
MAIS	0=None
Seat Position	Second right

AIS Level	Injury Description	Contacts
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21 Case 1998-2-11

Summary:

Vehicle #1 traveling in an easterly direction negotiating a curve to the left. Vehicle #1 goes off right side of roadway, corrects to left and crosses centerline rotating slightly counterclockwise. Vehicle #1 corrects to right and begins to rotate clockwise going off left side of roadway striking a tree with left side. Vehicle #1 breaks into two pieces and continues with the front half striking a second tree on right side and the rear half coming to rest against same tree. The weather was cloudy, the roadway was dry and it was daylight at the time of the accident. Vehicle #1 was towed due to damage. Operator Vehicle #1 was transported, treated and hospitalized due to injuries.



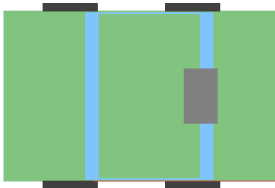
Vehicle	Body type	Make	Model	Year	Occ.#	Age	Occupant's sex	Maximum known occupant ais
1	4-DR SEDAN/HDTOP	Honda	Accord	1987	1	17	MALE	4=Severe

Occupant: 1998-2-11-1-1



Fire Information

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



Crash Severity

Nr. Quarter Turns	No rollover
Impact Speed	< 0.5KMPH
Total, Longitudal, and Lateral δV	< 0.5 KMPH < 0.5 KMPH < 0.5 KMPH
Est. δV with sequence number	SEVERE 1
CDC	90 L Z A W 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	31.48491267
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Rollover Characteristics

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

Pre-Crash Environment

Traffic Flow	Not DIVIDED
Number of Travel Lanes	TWO
Roadway Alignment	CURVE 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	Honda Accord
Year	1987
Class	PASSENGER CAR
Body Type	4-DR SEDAN/HDTOP
Weight	110

Pre-Crash Driver Data

Accident Type	7
Pre-event Movement	PASSING/OVERTAKE
Critical Pre-crash Event	OVER LINE-RIGHT
Attempted Avoidance Maneuver	No DRIVER
Pre-impact Stability	LATERAL SKID-CLK
Pre-impact Location	DEPARTED ROADWAY

DRIVER Factors

Age	17	Height	158	Weight	54
Gender			MALE		
Ejection			PARTIAL EJECTION		
Ejection Area			ROOF		
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

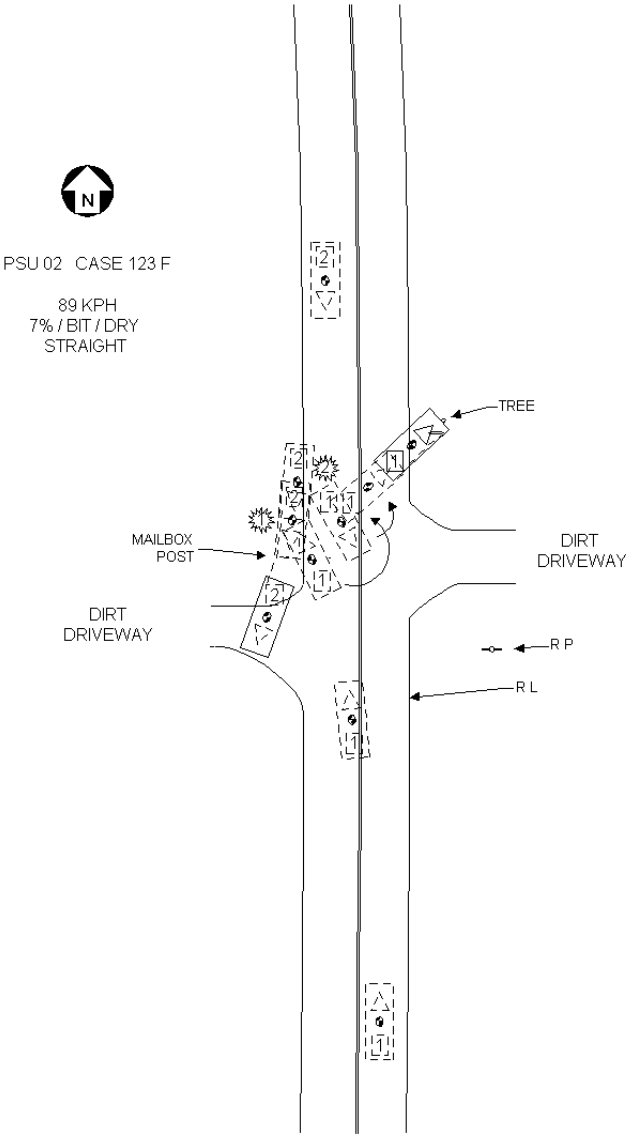
Occupant	1998-2-11-1-1
MAIS	4=Severe
Seat Position	Front left side

AIS Level	Injury Description	Contacts
1=Minor	Facial skin laceration, minor	Windshield
1=Minor	Upper extremity skin contusion	Belt webb/buckle
1=Minor	Upper extremity skin abrasion	Belt webb/buckle
1=Minor	Thoracic skin contusion	Belt webb/buckle
1=Minor	Thoracic skin abrasion	Belt webb/buckle
2=Moderate	Splenic laceration NFS	Seat, back
4=Severe	Flail chest NFS	Seat, back
2=Moderate	Splenic contusion, minor (<502=Moderate	Kidney contusion (hematoma) NFS
	Seat, back	
1=Minor	Facial skin abrasion	Windshield

22 Case 1998-2-123

Summary:

VEHICLE 1 WAS TRAVELING NORTH ON AN UNDIVIDED TWO LANE ROAD. VEHICLE 2 WAS TRAVELING SOUTH ON THE SAME UNDIVIDED TWO LANE ROAD. VEHICLE 1 ROTATED COUNTERCLOCKWISE AND CROSSED INTO THE NORTHBOUND LANE. THE FRONT OF VEHICLE 1 STRUCK THE FRONT OF VEHICLE 2. VEHICLE 1 CONTINUED TO ROTATE COUNTERCLOCKWISE AND THE RIGHT SIDE OF VEHICLE 1 STRUCK THE LEFT SIDE OF VEHICLE 2. VEHICLE 1 CONTINUED TO ROTATE AND WENT OFF THE RIGHT SIDE OF THE ROAD AND STRUCK A SMALL DIAMETER TREE. VEHICLE 1 THEN IGNITED INTO FLAMES. VEHICLE 2 WENT OFF THE RIGHT SIDE OF THE ROAD, STRUCK A MAILBOX POST AND CAME TO REST. BOTH VEHICLES WERE TOWED DUE TO DAMAGE. THE THREE OCCUPANTS OF VEHICLE 2 WERE TRANSPORTED DUE TO INJURIES. THE WEATHER WAS CLEAR, THE ROAD WAS DRY, IT WAS DARK AND THE ROAD WAS NOT LIGHTED AT THE TIME OF THE ACCIDENT.



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	18	MALE	2=Moderate
2	COMPACT UTILITY	Ford	Bronco II	1992	1	44	MALE	1=Minor
2	COMPACT UTILITY	Ford	Bronco II	1992	2	66	MALE	1=Minor
2	COMPACT UTILITY	Ford	Bronco II	1992	3	47	FEMALE-NOT PREG	1=Minor

Occupant: 1998-2-123-1-1



Fire Information

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



Pre-Crash Environment

Traffic Flow	Not DIVIDED
Number of Travel Lanes	TWO
Roadway Alignment	STRAIGHT
Roadway Profile	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	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 -30 -17
Est. δV with sequence number	DELTA V CODED 1
CDC	1 F Z E W 2
Damage (C1-C6)	6 13 18 21 23 32
Crush (L and D)	138 32
Object Contacted 1	VEHICLE NO. 2
Object Contacted 2	VEHICLE NO. 2

NASS Weighting Factor

Weighting factor	22.794502685
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Rollover Characteristics

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

Vehicle Factors

Make-Model	Pontiac Grand AM
Year	1993
Class	PASSENGER CAR
Body Type	4-DR SEDAN/HDTOP
Weight	126

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	LAT SKID-CTR CLK
Pre-impact Location	Left TRAVEL LANE

DRIVER Factors

Age	18	Height	183	Weight	76
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	1998-2-123-1-1
MAIS	2=Moderate
Seat Position	Front left side

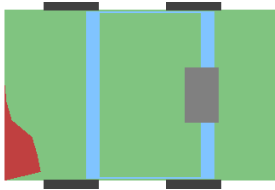
AIS Level	Injury Description	Contacts
1=Minor	Leg skin contusion (hematoma)	Left apnel
1=Minor	Leg skin contusion (hematoma)	Left apnel
2=Moderate	Renal injury NFS	Belt webb/buckle

Occupant: 1998-2-123-2-1



Fire Information

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



Crash Severity

Nr. Quarter Turns	No rollover
Impact Speed	998
Total, Longitudal, and Lateral δV	22 -22 < 0.5 KMPH
Est. δV with sequence number	DELTA V CODED 1
CDC	12 F Y E W 3
Damage (C1-C6)	53 48 40 11 3 0
Crush (L and D)	152 -30
Object Contacted 1	VEHICLE NO. 1
Object Contacted 2	VEHICLE NO. 1

NASS Weighting Factor

Weighting factor	22.794502685
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Rollover Characteristics

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

Pre-Crash Environment

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

Vehicle Factors

Make-Model	Ford Bronco II
Year	1992
Class	PASSENGER CAR
Body Type	COMPACT UTILITY
Weight	184

Pre-Crash Driver Data

Accident Type	51
Pre-event Movement	GOING STRAIGHT
Critical Pre-crash Event	OPP DIR-OVR LEFT
Attempted Avoidance Manuever	STEERING RIGHT
Pre-impact Stability	TRACKING
Pre-impact Location	DEPARTED ROADWAY

DRIVER Factors

Age	44	Height	165	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	1998-2-123-2-1
MAIS	1=Minor
Seat Position	Front left side

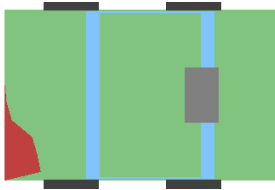
AIS Level	Injury Description	Contacts
1=Minor	Rib cage fracture NFS	Steering rim
1=Minor	Leg skin abrasion	Left apnel
1=Minor	Thoracic skin contu- sion	Steering rim
1=Minor	Upper extremity skin contusion	Steering rim

Occupant: 1998-2-123-2-2



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, 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	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	22 -22 < 0.5 KMPH
Est. δV with sequence number	DELTA V CODED 1
CDC	12 F Y E W 3
Damage (C1-C6)	53 48 40 11 3 0
Crush (L and D)	152 -30
Object Contacted 1	VEHICLE NO. 1
Object Contacted 2	VEHICLE NO. 1

NASS Weighting Factor

Weighting factor	22.794502685
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Rollover Characteristics

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

Vehicle Factors

Make-Model	Ford Bronco II
Year	1992
Class	PASSENGER CAR
Body Type	COMPACT UTILITY
Weight	184

Pre-Crash Driver Data

Accident Type	51
Pre-event Movement	GOING STRAIGHT
Critical Pre-crash Event	OPP DIR-OVR LEFT
Attempted Avoidance Manuever	STEERING RIGHT
Pre-impact Stability	TRACKING
Pre-impact Location	DEPARTED ROADWAY

PASSENGER Factors

Age	66	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	1998-2-123-2-2
MAIS	1=Minor
Seat Position	Front right side

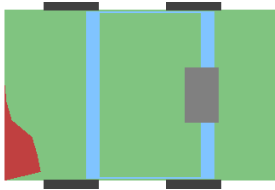
AIS Level	Injury Description	Contacts
1=Minor	Single rib fracture	Belt webb/buckle
1=Minor	Thoracic skin abrasion	Belt webb/buckle

Occupant: 1998-2-123-2-3



Fire Information

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



Pre-Crash Environment

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

Crash Severity

Nr. Quarter Turns	No rollover
Impact Speed	998
Total, Longitudal, and Lateral δV	22 -22 < 0.5 KMPH
Est. δV with sequence number	DELTA V CODED 1
CDC	12 F Y E W 3
Damage (C1-C6)	53 48 40 11 3 0
Crush (L and D)	152 -30
Object Contacted 1	VEHICLE NO. 1
Object Contacted 2	VEHICLE NO. 1

NASS Weighting Factor

Weighting factor	22.794502685
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Rollover Characteristics

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

Vehicle Factors

Make-Model	Ford Bronco II
Year	1992
Class	PASSENGER CAR
Body Type	COMPACT UTILITY
Weight	184

Pre-Crash Driver Data

Accident Type	51
Pre-event Movement	GOING STRAIGHT
Critical Pre-crash Event	OPP DIR-OVR LEFT
Attempted Avoidance Manuever	STEERING RIGHT
Pre-impact Stability	TRACKING
Pre-impact Location	DEPARTED ROADWAY

PASSENGER Factors

Age	47	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

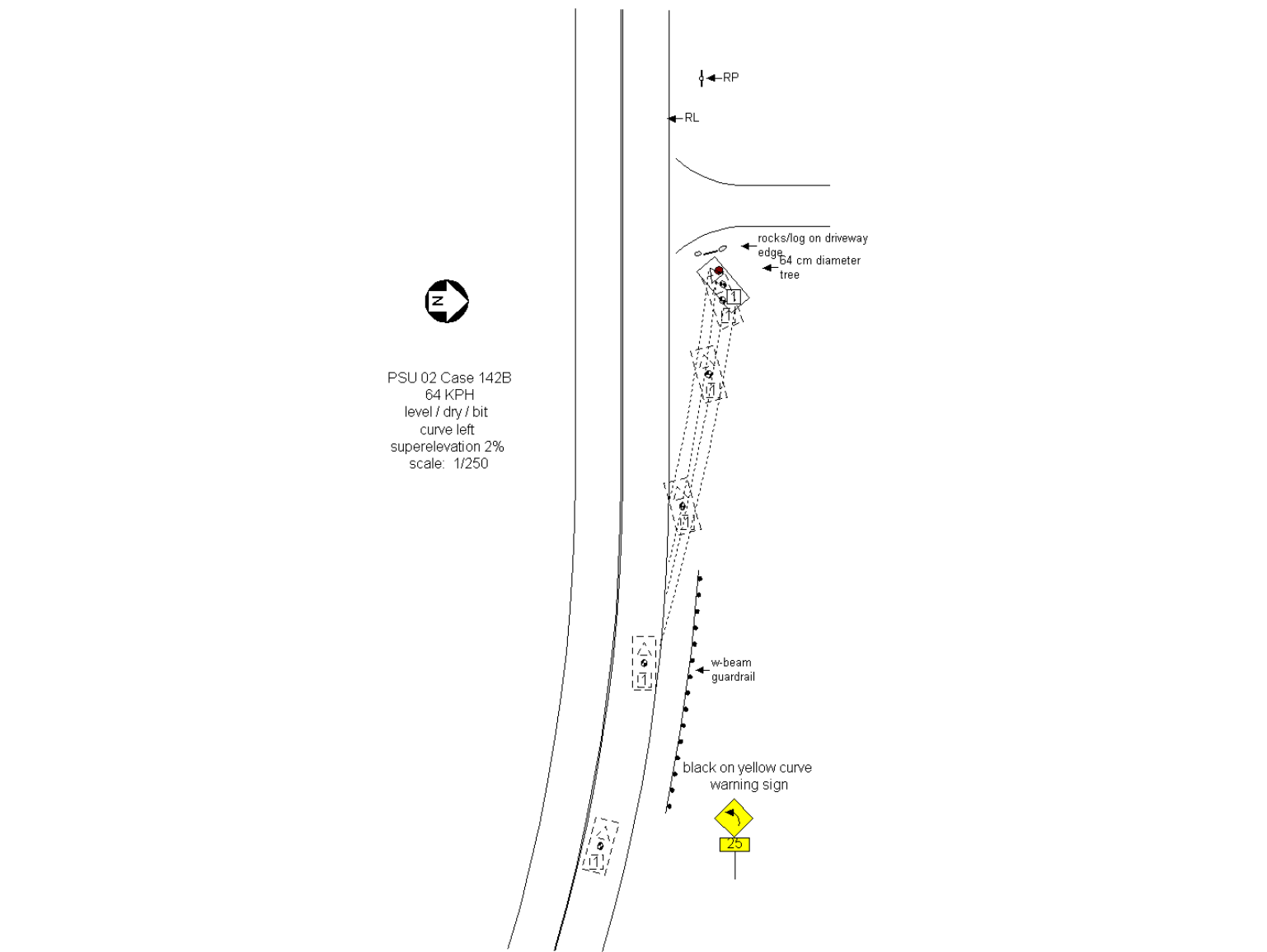
Occupant	1998-2-123-2-3
MAIS	1=Minor
Seat Position	Second left

AIS Level	Injury Description	Contacts
1=Minor	Leg skin contusion (hematoma)	Transmiss lever

23 Case 1998-2-142

Summary:

Vehicle #1 traveling west on two lane undivided roadway negotiating a curve to the left. Vehicle #1 runs off right side of roadway rotating counterclockwise and strikes a tree with front. Vehicle #1 rotates counterclockwise, catches fire and comes to rest facing in a westerly direction. The weather was clear, the roadway dry and it was dark, but lighted at the time of the crash. Vehicle #1 was towed due to damage. Operator was transported and expired at a local hospital.



Vehicle	Body type	Make	Model	Year	Occ.#	Age	Occupant's sex	Maximum known occupant ais
1	4-DR SEDAN/HDTOP	Dodge	Aries	1988	1	27	MALE	5=Critical

Occupant: 1998-2-142-1-1



Fire Information

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



Pre-Crash Environment

Traffic Flow	Not DIVIDED
Number of Travel Lanes	TWO
Roadway Alignment	CURVE LEFT
Roadway Profile	LEVEL
Roadway Surface Type	ASPHALT
Roadway Surface Condition	DRY
Light Conditions	DARK/LIGHTED
Atmospheric Conditions	No ADVERSE COND
Relation to Intersection	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	61 F R A W 7
Damage (C1-C6)	68 132 177 202 0 0
Crush (L and D)	150 50
Object Contacted 1	LARGE TREE
Object Contacted 2	0

NASS Weighting Factor

Weighting factor	72.37433726
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Rollover Characteristics

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

Vehicle Factors

Make-Model	Dodge Aries
Year	1988
Class	PASSENGER CAR
Body Type	4-DR SEDAN/HDTOP
Weight	110

Pre-Crash Driver Data

Accident Type	2
Pre-event Movement	NEGOTIATE CURVE
Critical Pre-crash Event	OFF EDGE-RIGHT
Attempted Avoidance Manuever	BRAKE+STEER LEFT
Pre-impact Stability	LAT SKID-CTR CLK
Pre-impact Location	DEPARTED ROADWAY

DRIVER Factors

Age	27	Height	183	Weight	100
Gender			MALE		
Ejection			No EJECTION		
Ejection Area			No EJECTION		
Entrapment			Not ENTRAPPED		

Restraint Factors

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

Injuries

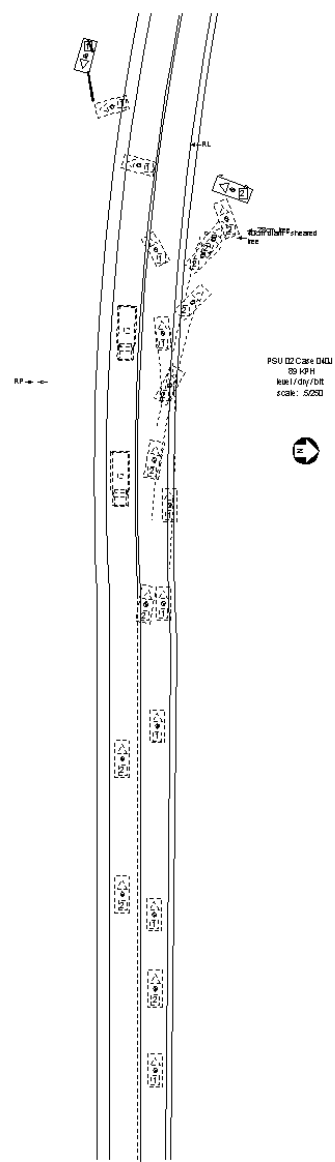
Occupant	1998-2-142-1-1
MAIS	5=Critical
Seat Position	Front left side

AIS Level	Injury Description	Contacts
5=Critical	Burn, 2nd or 3rd degree, 403=Serious	Pelvic fracture, open/displaced/comminuted
Left apnel		
1=Minor	Leg skin laceration, minor	Steering rim
1=Minor	Leg skin laceration NFS	Left apnel
1=Minor	Thoracic skin contusion	Sterring hub
1=Minor	Abdominal skin contusion	Steering comb
2=Moderate	Foot fracture NFS	Floor
2=Moderate	Foot fracture NFS	Floor

24 Case 1998-2-40

Summary:

Vehicle #1 was traveling West on a two lane, undivided roadway. Vehicle #2 was traveling behind Vehicle #1 and attempted to pass same. As Vehicle #2 is passing, another vehicle approaches in the Eastbound lane. Vehicle #2 attempts to re-enter lane to right and strikes Vehicle #1. Vehicle #2 continues to the right, rotating clockwise, departing the road to the right side. Vehicle #2 struck a tree with its left side, struck another tree with the front (shearing tree and deploying both driver and passenger air bags), rotates counterclockwise, and strikes another tree with right side. Vehicle #2 came to rest facing South. Vehicle #1 attempts to avoid Vehicle #2 by going to right, corrects to left, rotates counterclockwise across both lanes, and comes to rest facing East on the left side of the roadway. The weather was clear, the roadway dry, and it was daylight at the time of the accident. Both Vehicles were towed due to damage. Both operators were transported, treated, and hospitalized due to injuries.



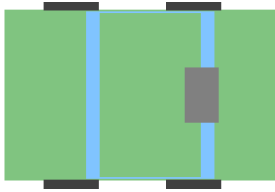
Vehicle	Body type	Make	Model	Year	Occ.#	Age	Occupant's sex	Maximum known occupant ais
1	Unk LIGHT VEH	Jeep	Unk Lt Truck	1992	1	30	MALE	1=Minor
2	COMPACT UTILITY	Ford	Bronco II	1998	1	44	FEMALE-NOT PREG	4=Severe

Occupant: 1998-2-40-1-1



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	31.451029438
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Rollover Characteristics

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

Pre-Crash Environment

Traffic Flow	Not DIVIDED
Number of Travel Lanes	TWO
Roadway Alignment	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	Jeep Unk It Truck
Year	1992
Class	Unknown
Body Type	Unk LIGHT VEH
Weight	0

Pre-Crash Driver Data

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

DRIVER Factors

Age	30	Height	168	Weight	84
Gender			MALE		
Ejection			No EJECTION		
Ejection Area			No EJECTION		
Entrapment			Not ENTRAPPED		

Restraint Factors

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

Injuries

Occupant	1998-2-40-1-1
MAIS	1=Minor
Seat Position	Front left side

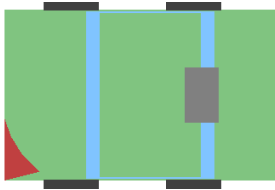
AIS Level	Injury Description	Contacts
1=Minor	Awake on admission, never unconscious	Unknown SOURCE
1=Minor	Thoracic skin contusion	Belt webb/buckle

Occupant: 1998-2-40-2-1



Fire Information

Fire Occurrence	No fire
Fire Origin	No fire
Location of Fuel Leakage	Line/pump/filter
Type of Fuel Tank	Metallic
Fuel Tank Location	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	MODERATE 2
CDC	12 F L E E 3
Damage (C1-C6)	51 25 9 0 0 0
Crush (L and D)	154 -56
Object Contacted 1	LARGE TREE
Object Contacted 2	LARGE TREE

NASS Weighting Factor

Weighting factor	31.451029438
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Rollover Characteristics

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

Pre-Crash Environment

Traffic Flow	Not DIVIDED
Number of Travel Lanes	TWO
Roadway Alignment	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 Bronco II
Year	1998
Class	PASSENGER CAR
Body Type	COMPACT UTILITY
Weight	182

Pre-Crash Driver Data

Accident Type	46
Pre-event Movement	PASSING/OVERTAKE
Critical Pre-crash Event	OVER LINE-LEFT
Attempted Avoidance Manuever	BRAKE+STEER RT
Pre-impact Stability	LONGITUDINAL SKID
Pre-impact Location	DEPARTED ROADWAY

DRIVER Factors

Age	44	Height	165	Weight	0
Gender					FEMALE-NOT PREG
Ejection					No EJECTION
Ejection Area					No EJECTION
Entrapment					Not ENTRAPPED

Restraint Factors

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

Injuries

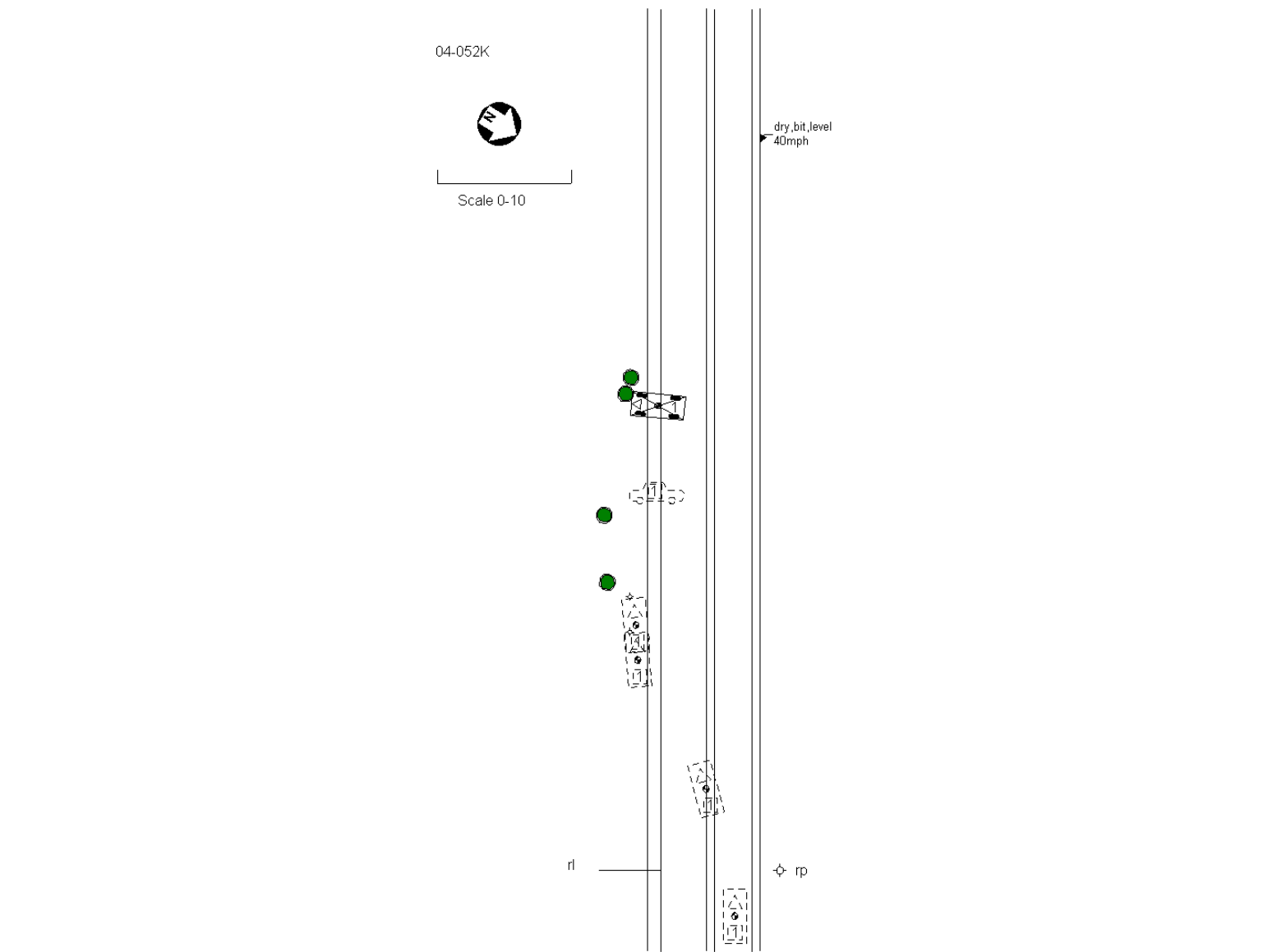
Occupant	1998-2-40-2-1
MAIS	4=Severe
Seat Position	Front left side

AIS Level	Injury Description	Contacts
1=Minor	Leg skin abrasion	Knee bolster
1=Minor	Leg skin abrasion	Floor
2=Moderate	Scalp avulsion, major (>100 cms ² , blood loss <201=Minor	Elbow joint dislocation +/- radial head involvement
Transmiss lever		
4=Severe	Cerebral subdural hematoma, small (<50ccs)	Left B pillar

25 Case 1998-4-52

Summary:

V1 was southbound on a two-lane roadway. The driver of V1 either fell asleep or passed out. V1 went off the roadway to the left. The vehicle initially struck two metal poles designed to keep vehicles from striking a generator located on the roadside. V1 became airborne and began to rollover to the right. V1 then glanced off a tree and rolled onto it's roof. During the removal of the vehicle by the tow facility V1's engine compartment caught on fire while being turned rightside. The fire was extinguished and V1 was towed due to damage. The driver of V1 was transported sustaining "A" injuries.



Vehicle	Body type	Make	Model	Year	Occ.#	Age	Occupant's sex	Maximum known occupant ais
1	4-DR SEDAN/HDTOP	Toyota	Corolla	1987	1	81	MALE	2=Moderate

Occupant: 1998-4-52-1-1



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	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	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 1
CDC	12 F L E N 2
Damage (C1-C6)	1 24 31 24 11 0
Crush (L and D)	145 -37
Object Contacted 1	SMALL POLE
Object Contacted 2	SMALL POLE

NASS Weighting Factor

Weighting factor	13.613734914
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Rollover Characteristics

Number of Events	5
Rollover Initiation Type	BOUNCE-OVER
Location of Rollover Initiation	ROADSIDE/MEDIAN
Rollover Initiation Object Contacted	SMALL POLE
Location on Vehicle where Principal Tripping Force was Applied	END PLANE
Direction of Initial Roll	ROLL RIGHT

Vehicle Factors

Make-Model	Toyota Corolla
Year	1987
Class	PASSENGER CAR
Body Type	4-DR SEDAN/HDTOP
Weight	97

Pre-Crash Driver Data

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

DRIVER Factors

Age	81	Height	178	Weight	67
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

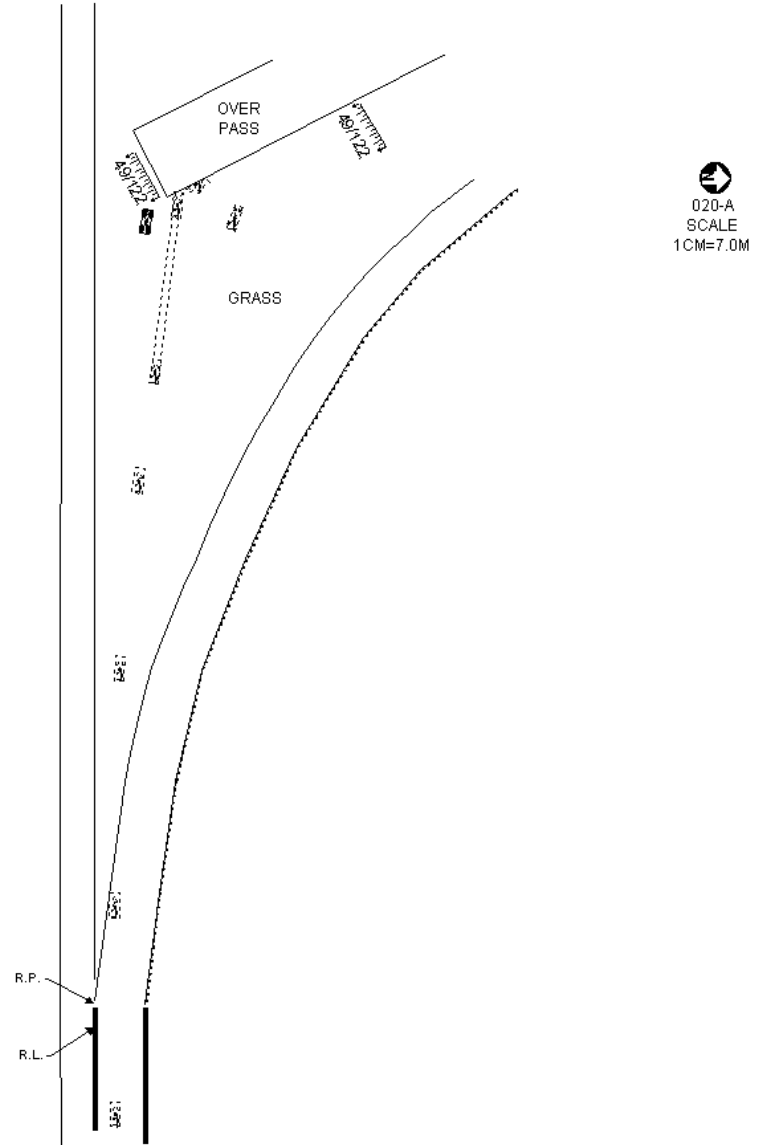
Occupant	1998-4-52-1-1
MAIS	2=Moderate
Seat Position	Front left side

AIS Level	Injury Description	Contacts
1=Minor	Scalp laceration, minor	Roof
1=Minor	Upper extremity skin laceration NFS	Flying glass
1=Minor	Leg skin laceration, minor	Flying glass
1=Minor	Scalp abrasion	Roof
1=Minor	Leg skin abrasion	Flying glass
1=Minor	Upper extremity skin abrasion	Flying glass
1=Minor	Scalp contusion	Roof
2=Moderate	Awake on admission, prior unconscious, length NFS	Roof
1=Minor	Thoracic skin contusion	Belt webb/buckle
1=Minor	Acute cervical spine strain without fracture or dislocation	Roof

26 Case 1998-41-20

Summary:

VEHICLE ONE WAS TRAVELING WESTBOUND ON INTERSTATE ROADWAY ON EXIT RAMP,ROAD SURFACE BLACK-TOP,LEVEL,DRY DURING NIGHT HOURS.VEHICLE ONE DEPARTED THE LEFT SIDE OF ROADWAY CONTINUING WEST AND COLLIDING WITH A CONCRETE OVER PASS,BECOMING AIRBORN IN A NORTHERLY DIRECTION AND TURNING OVER ON CONCRETE STRUCTURE,SLIDING BACK DOWN IN A SOUTHERLY DIRECTION CATCHING FIRE AND FINALLY COMING TO REST FACING WEST UPSIDE DOWN.VEHICLE ONE WAS TOWED FROM SCENE.DRIVER WAS PRONOUNCED AT THE SCENE.....



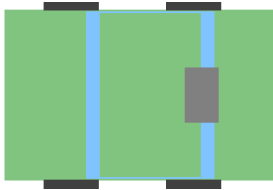
Vehicle	Body type	Make	Model	Year	Occ.#	Age	Occupant's sex	Maximum known occupant ais
1	2DR SEDAN/HT/CPE	BMW	3-series	1995	1	23	MALE	6=Maximum

Occupant: 1998-41-20-1-1



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	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	26.854571035
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Rollover Characteristics

Number of Events	3
Rollover Initiation Type	CLIMB-OVER
Location of Rollover Initiation	ROADSIDE/MEDIAN
Rollover Initiation Object	WALL
Contacted	
Location on Vehicle where Principal Tripping Force was Applied	UNDERCARRIAGE
Direction of Initial Roll	ROLL RIGHT

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	DARK
Atmospheric Conditions	No ADVERSE COND
Relation to Intersection	Other JUNCTION
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	1995
Class	PASSENGER CAR
Body Type	2DR SEDAN/HT/CPE
Weight	144

Pre-Crash Driver Data

Accident Type	14
Pre-event Movement	NEGOTIATE CURVE
Critical Pre-crash Event	0
Attempted Avoidance Maneuver	No DRIVER
Pre-impact Stability	No DRIVER
Pre-impact Location	DEPARTED ROADWAY

DRIVER Factors

Age	23	Height	147	Weight	74
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 Seat

Injuries

Occupant	1998-41-20-1-1
MAIS	6=Maximum
Seat Position	Front left side

AIS Level

Injury Description

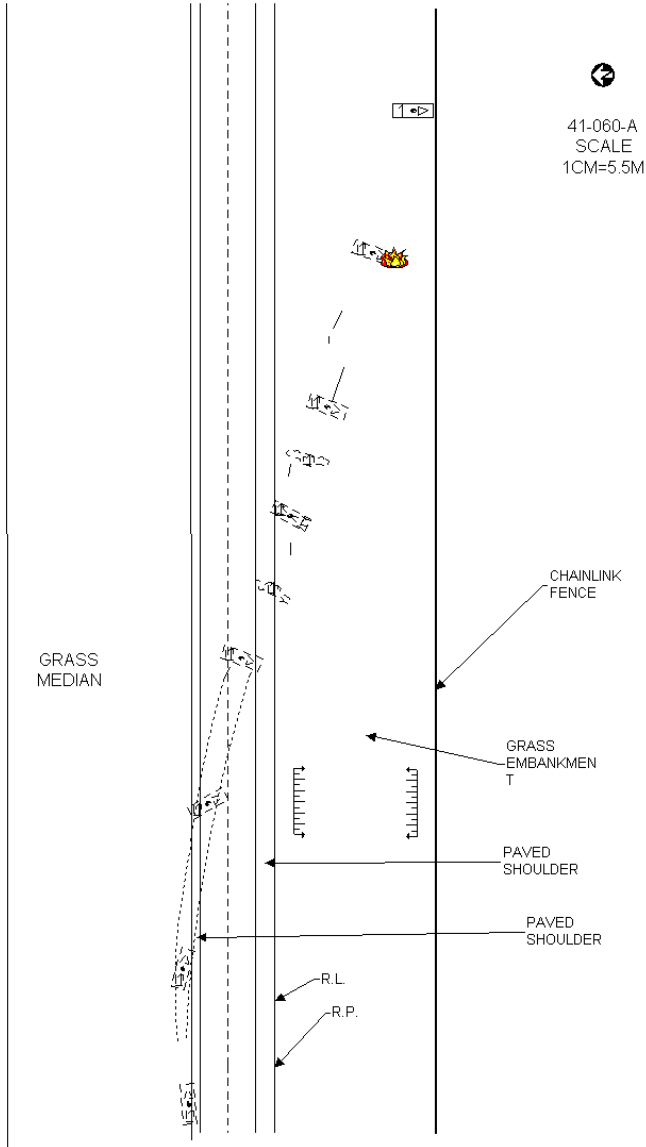
Contacts

6=Maximum	Burn, 2nd or 3rd degree, >902=Moderate	Clavicle fracture
Unknown SOURCE		
2=Moderate	Sternal fracture	Unknown SOURCE
3=Serious	>3 rib fractures one side & <3 other side, with stable chest	Unknown SOURCE
2=Moderate	Pelvic fracture, closed	Unknown SOURCE
3=Serious	Myocardial contusion, minor	Unknown SOURCE
6=Maximum	Myocardial lacerations, multiple	Unknown SOURCE
2=Moderate	Pericardial laceration (puncture)	Unknown SOURCE
4=Severe	Lung laceration, bilateral NFS	Unknown SOURCE
2=Moderate	Splenic laceration NFS	Unknown SOURCE
2=Moderate	Kidney laceration, minor (<1cm, no urinary extravasation)	Unknown SOURCE
2=Moderate	Kidney laceration, minor (<1cm, no urinary extravasation)	Unknown SOURCE
5=Critical	Thoracic cord laceration, complete, no fx or dislocation	Unknown SOURCE
3=Serious	Cerebellar subarachnoid hemorrhage	Unknown SOURCE
4=Severe	Cerebral intraventricular hemorrhage	Unknown SOURCE
2=Moderate	Fibular head, neck, or shaft fracture	Unknown SOURCE
2=Moderate	Tibial shaft fracture	Unknown SOURCE
4=Severe	Lung contusion, bilateral	Unknown SOURCE
2=Moderate	Hepatic laceration NFS	Unknown SOURCE

27 Case 1998-41-60

Summary:

VEHICLE ONE WAS TRAVELING EASTBOUND ON TWO LANE ROADWAY,ROAD SURFACE BLACK TOP,LEVEL,DRY DURING NIGHT HOURS, VEHICLE ONE DEPARTED ROADWAY ON LEFT SIDE INTO GRASS MEDIAN CAME BACK ONTO ROADWAY IN WHAT APPEARED TO BE AN OVERSTEER SITUATION TO THE RIGHT FLIP OVER TO THE RIGHT ON THE ROADWAY CONTINUING TO ROLLOVER ONTO THE SHOULDER OF THE ROAD AT WHICH TIME THE DRIVER WAS EJECTED AND VEHICLE ONE THEN ENGULFED IN FLAMES COMING TO FINAL REST FACING SOUTH.VEHICLE ONE WAS TOWED FROM THE SCENE AND THE DRIVER WAS AIR LIFTED TO A MEDICAL FACILITY AND EXPIRED.....



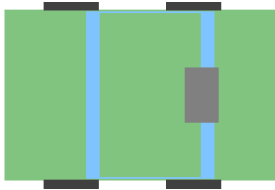
Vehicle	Body type	Make	Model	Year	Occ.#	Age	Occupant's sex	Maximum known occupant ais
1	COMPACT PICKUP	Dodge	Dakota	1997	1	19	FEMALE-NOT PREG	4=Severe

Occupant: 1998-41-60-1-1



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	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	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	26.903176594
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Rollover Characteristics

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

Pre-Crash Environment

Traffic Flow	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	Dodge Dakota
Year	1997
Class	TRUCK
Body Type	COMPACT PICKUP
Weight	171

Pre-Crash Driver Data

Accident Type	2
Pre-event Movement	GOING STRAIGHT
Critical Pre-crash Event	OVER LINE-RIGHT
Attempted Avoidance Maneuver	No DRIVER
Pre-impact Stability	TRACKING
Pre-impact Location	RETURNED TO ROAD

DRIVER Factors

Age	19	Height	165	Weight	59
Gender			FEMALE-NOT PREG		
Ejection			COMPLETE EJECT		
Ejection Area			No EJECTION		
Entrapment			Not ENTRAPPED		

Restraint Factors

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

Injuries

Occupant	1998-41-60-1-1
MAIS	4=Severe
Seat Position	Front left side

AIS Level	Injury Description	Contacts
1=Minor	Scalp contusion	Unknown SOURCE
4=Severe	Cerebral subdural hematoma, small (<50ccs)	Unknown SOURCE
4=Severe	Cerebral subdural hematoma, small (<50ccs)	Unknown SOURCE
3=Serious	Cerebral subarachnoid hemorrhage	Unknown SOURCE
3=Serious	Cerebral edema, NFS	Unknown SOURCE
4=Severe	Lung contusion, bilateral	Unknown SOURCE
1=Minor	690202	Unknown SOURCE
1=Minor	690402	Unknown SOURCE
1=Minor	Upper extremity skin abrasion	Unknown SOURCE
1=Minor	Facial skin contusion	Unknown SOURCE
4=Severe	Cerebral intraventricular hemorrhage	Unknown SOURCE
1=Minor	Leg skin abrasion	Unknown SOURCE

28 Case 1998-43-101

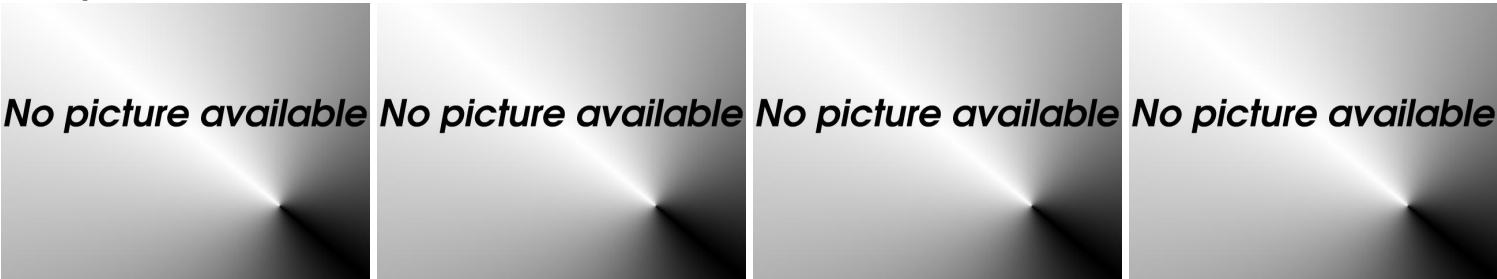
Summary:

Vehicle one was traveling south on a dry, bituminous, two-lane rural roadway in the daytime. The roadway was a downward slope. Vehicle one lost control and drifted slightly off the road to the right. Upon reentering the road, the vehicle crossed to the left of the centerline and began a clockwise spin. The vehicle slid sideways off the road to the right. The vehicle then traveled down an embankment, and upon reaching the bottom, was overturned partially onto its left side. Still moving at a high rate of speed, the vehicle contacted a 25cm wide tree with its top rear while the vehicle was in the aforementioned position. The vehicle knocked the tree most of the way over, and rode along the entire length of the trunk, breaking most of the branches off. The vehicle came to rest several meters off the shoulder of the road, just beyond the end of where the tree had broken. At this point a fire began which was caused by the filler cap hose coming off of the gas tank, and the hot exhaust pipe being in close proximity. The fire consumed the entire car and damaged the surrounding area. Both the driver and right front passenger suffered "C" injuries, and were transported directly from the scene. The vehicle was towed due to damage.



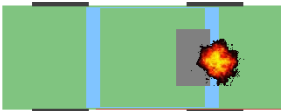
Vehicle	Body type	Make	Model	Year	Occ.#	Age	Occupant's sex	Maximum known occupant ais
1	4-DR SEDAN/HDTOP	Pontiac	Grand AM	1997	1	16	MALE	1=Minor
1	4-DR SEDAN/HDTOP	Pontiac	Grand AM	1997	2	15	MALE	1=Minor

Occupant: 1998-43-101-1-1



Fire Information

Fire Occurence	Major fire
Fire Origin	Fuel tank
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	Fill neck separation
Fuel Type	Gasoline



Pre-Crash Environment

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

Crash Severity

Nr. Quarter Turns	No rollover
Impact Speed	< 0.5KMPH
Total, Longitudal, and Lateral δV	< 0.5 KMPH < 0.5 KMPH < 0.5 KMPH
Est. δV with sequence number	0.5 KMPH
CDC	SEVERE 1
Damage (C1-C6)	80 L Z A W 0
Crush (L and D)	0 0 0 0 0 0
Object Contacted 1	0 0
Object Contacted 2	LARGE TREE
	0

NASS Weighting Factor

Weighting factor	754.82733173
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Rollover Characteristics

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

Vehicle Factors

Make-Model	Pontiac Grand AM
Year	1997
Class	PASSENGER CAR
Body Type	4-DR SEDAN/HDTOP
Weight	130

Pre-Crash Driver Data

Accident Type	2
Pre-event Movement	GOING STRAIGHT
Critical Pre-crash Event	TRAVEL TOO FAST
Attempted Avoidance Manuever	BRAKE+STEER RT
Pre-impact Stability	LATERAL SKID-CLK
Pre-impact Location	DEPARTED ROADWAY

DRIVER Factors

Age	16	Height	180	Weight	77
Gender			MALE		
Ejection			No EJECTION		
Ejection Area			No EJECTION		
Entrapment			Not ENTRAPPED		

Restraint Factors

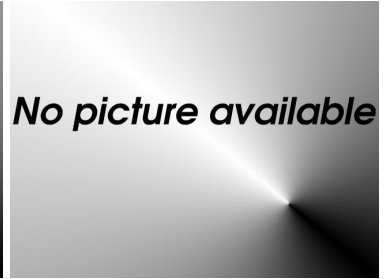
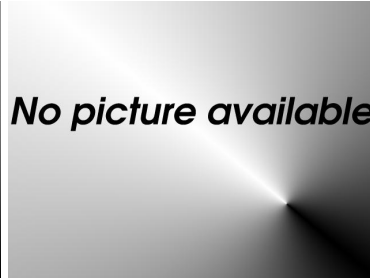
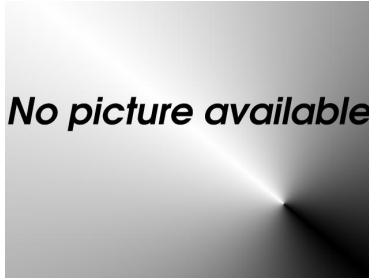
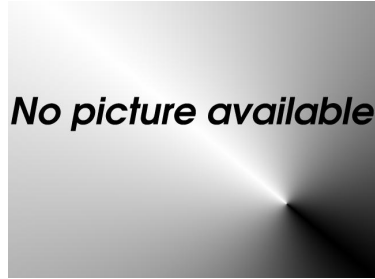
Restrain	Lap and shoulder
AOPS	YES-RES DET
Airbag Deployment	NONDEPLOYED
Airbag Deployment - 1 st Seat	NONDEPLOYED
Airbag Deployment - Oth Seat	Not EQUIP W/ OTH

Injuries

Occupant	1998-43-101-1-1
MAIS	1=Minor
Seat Position	Front left side

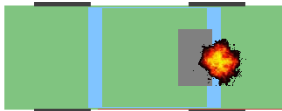
AIS Level	Injury Description	Contacts
1=Minor	792002	Fire in vehicle
1=Minor	Corneal abrasion	Flying glass
1=Minor	Corneal abrasion	Flying glass
1=Minor	Leg skin laceration, minor	Other veh or obj
1=Minor	Leg skin laceration, minor	Other veh or obj
1=Minor	Upper extremity skin contusion	Belt webb/buckle
1=Minor	Facial skin abrasion	Flying glass
1=Minor	Facial skin laceration, minor	Flying glass

Occupant: 1998-43-101-1-2



Fire Information

Fire Occurrence	Major fire
Fire Origin	Fuel tank
Location of Fuel Leakage	Filler neck
Type of Fuel Tank	Metallic
Fuel Tank Location	Forward of rear axle, centered
Fuel Cap Location	Right side, behind rear axle
Fuel Tank Damage	Fill neck separation
Fuel Type	Gasoline



Pre-Crash Environment

Traffic Flow	Not DIVIDED
Number of Travel Lanes	TWO
Roadway Alignment	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	0.5 KMPH
CDC	SEVERE 1
Damage (C1-C6)	80 L Z A W 0
Crush (L and D)	0 0 0 0 0 0
Object Contacted 1	0 0
Object Contacted 2	LARGE TREE
	0

NASS Weighting Factor

Weighting factor	754.82733173
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Rollover Characteristics

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

Vehicle Factors

Make-Model	Pontiac Grand AM
Year	1997
Class	PASSENGER CAR
Body Type	4-DR SEDAN/HDTOP
Weight	130

Pre-Crash Driver Data

Accident Type	2
Pre-event Movement	GOING STRAIGHT
Critical Pre-crash Event	TRAVEL TOO FAST
Attempted Avoidance Manuever	BRAKE+STEER RT
Pre-impact Stability	LATERAL SKID-CLK
Pre-impact Location	DEPARTED ROADWAY

PASSENGER Factors

Age	15	Height	175	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	NONDEPLOYED
Airbag Deployment - 1 st Seat	NONDEPLOYED
Airbag Deployment - Oth Seat	Not EQUIP W/ OTH

Injuries

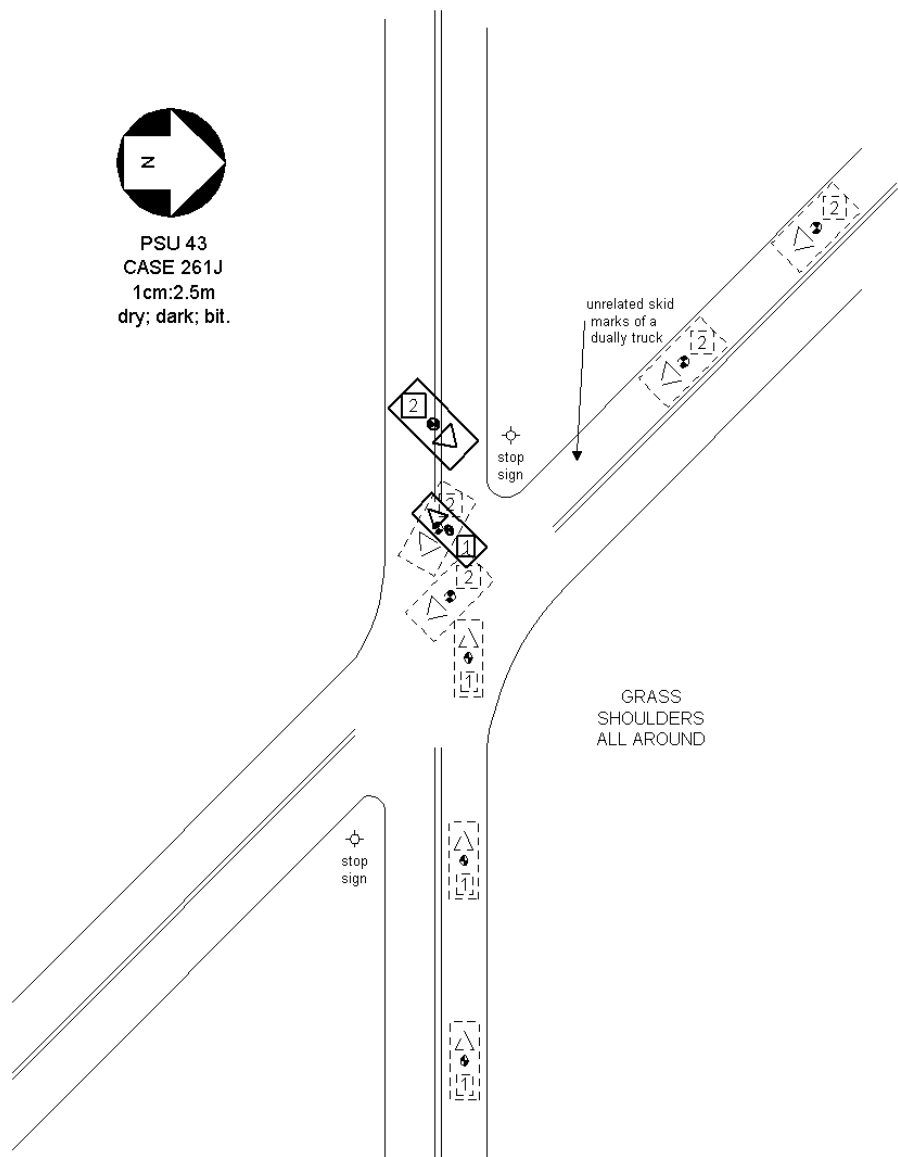
Occupant	1998-43-101-1-2
MAIS	1=Minor
Seat Position	Front right side

AIS Level	Injury Description	Contacts
1=Minor	Scalp abrasion	Unknown SOURCE
1=Minor	Neck skin abrasion	Unknown SOURCE
1=Minor	Upper extremity skin abrasion	Flying glass
1=Minor	Upper extremity skin laceration, minor	Flying glass
1=Minor	Neck skin laceration, minor	Flying glass
1=Minor	Scalp contusion	Unknown SOURCE
1=Minor	Abdominal skin contusion	Belt webb/buckle
1=Minor	Awake on admission, never unconscious	Unknown SOURCE

29 Case 1998-43-261

Summary:

Vehicle one was traveling West on a dry, two-lane, bituminous roadway in dark conditions. Vehicle two was traveling Southeast on a two-lane roadway. As both vehicles approached the same intersection, vehicle two's brakes gave out. Vehicle two traveled past a stop sign and into the intersection. The front of vehicle one collided with the left side of vehicle two. Both vehicles came to rest in the roadway, and were towed due to damage. The driver of V1 suffered "A" injuries, was transported to a trauma center, and hospitalized. The driver of V2 suffered "A" injuries, was transported to a trauma center, treated, and released.



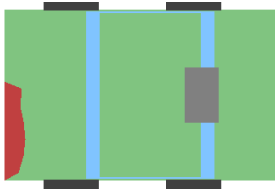
Vehicle	Body type	Make	Model	Year	Occ.#	Age	Occupant's sex	Maximum known occupant ais
1	4-DR SEDAN/HDTOP	Honda	Accord	1996	1	48	MALE	2=Moderate
2	LARGE PICKUP	Chevrolet	C/K-series Pickup	1968	1	44	MALE	1=Minor

Occupant: 1998-43-261-1-1



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



Pre-Crash Environment

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

Crash Severity

Nr. Quarter Turns	No rollover
Impact Speed	998
Total, Longitudal, and Lateral δV	24 -23 -8
Est. δV with sequence number	DELTA V CODED 1
CDC	1 F D E W 2
Damage (C1-C6)	20 28 30 28 23 25
Crush (L and D)	146 0
Object Contacted 1	VEHICLE NO. 2
Object Contacted 2	0

NASS Weighting Factor

Weighting factor	77.955365811
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Rollover Characteristics

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

Vehicle Factors

Make-Model	Honda Accord
Year	1996
Class	PASSENGER CAR
Body Type	4-DR SEDAN/HDTOP
Weight	130

Pre-Crash Driver Data

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

DRIVER Factors

Age	48	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	BAG DEPLOYED
Airbag Deployment - 1 st Seat	DR
PAS BAG DEPLY	
Airbag Deployment - Oth Seat	Not EQUIP W/ OTH

Injuries

Occupant	1998-43-261-1-1
MAIS	2=Moderate
Seat Position	Front left side

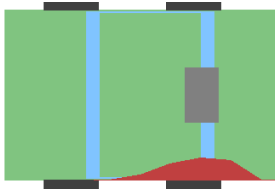
AIS Level	Injury Description	Contacts
2=Moderate	Thoracic vertebral body fracture, minor (<202=Moderate	Clavicle fracture
Belt webbing/buckle 1=Minor	Thoracic skin contusion	Belt webbing/buckle

Occupant: 1998-43-261-2-1



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, left side
Fuel Cap Location	Left side, forward rear axle
Fuel Tank Damage	Other damage
Fuel Type	Gasoline



Crash Severity

Nr. Quarter Turns	No rollover
Impact Speed	998
Total, Longitudal, and Lateral δV	18 -9 16
Est. δV with sequence number	DELTA V CODED 1
CDC	10 L B E W 3
Damage (C1-C6)	0 8 24 33 29 0
Crush (L and D)	268 -144
Object Contacted 1	VEHICLE NO. 1
Object Contacted 2	0

NASS Weighting Factor

Weighting factor	77.955365811
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Rollover Characteristics

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

Pre-Crash Environment

Traffic Flow	Not DIVIDED
Number of Travel Lanes	TWO
Roadway Alignment	STRAIGHT
Roadway Profile	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	Chevrolet C/K-series Pickup
Year	1968
Class	TRUCK
Body Type	LARGE PICKUP
Weight	167

Pre-Crash Driver Data

Accident Type	89
Pre-event Movement	GOING STRAIGHT
Critical Pre-crash Event	DISABL VEH FAIL
Attempted Avoidance Manuever	BRAKE W/O LOCKUP
Pre-impact Stability	TRACKING
Pre-impact Location	STAYED IN LANE

DRIVER Factors

Age	44	Height	173	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

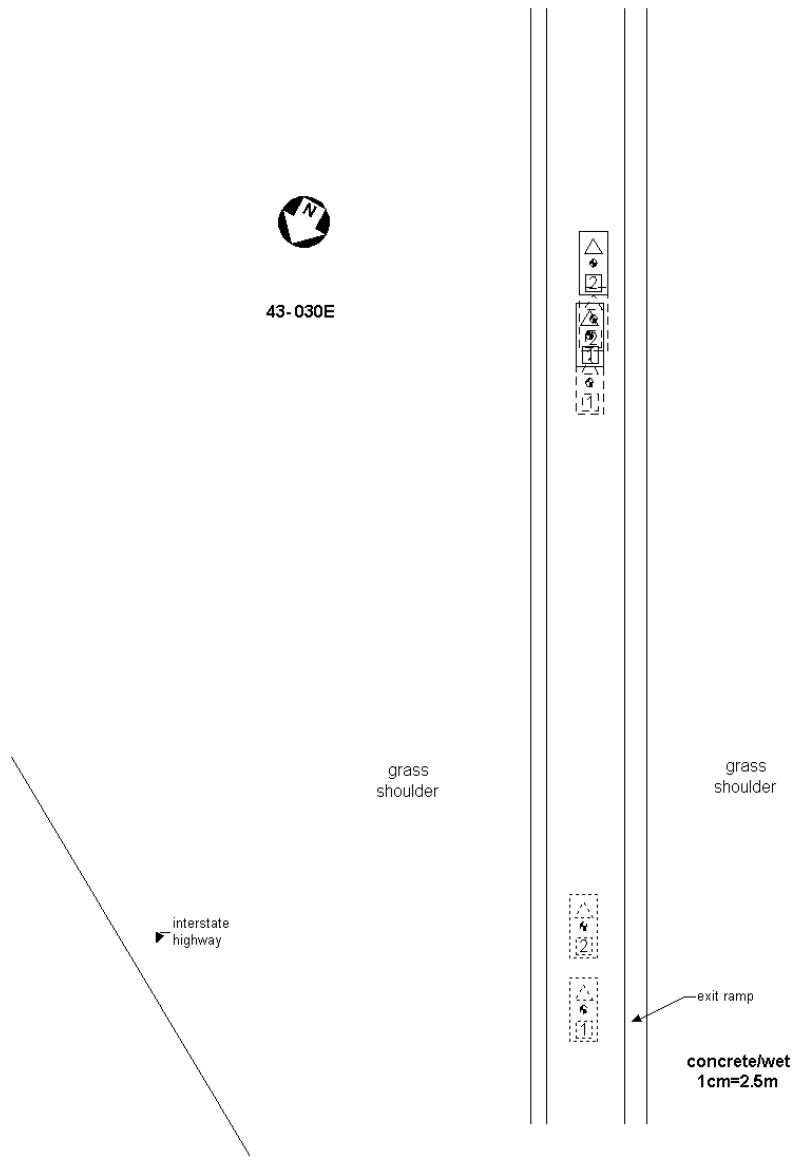
Occupant	1998-43-261-2-1
MAIS	1=Minor
Seat Position	Front left side

AIS Level	Injury Description	Contacts
1=Minor	Scalp laceration, minor	Left window glass
1=Minor	Leg skin contusion (hematoma)	Left ankle
1=Minor	Neck skin contusion (hematoma)	Other left obj
1=Minor	Upper extremity skin contusion	Left hardware

30 Case 1998-43-30

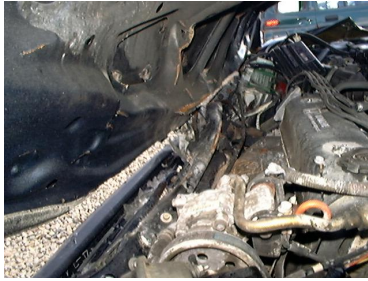
Summary:

Vehicle one was traveling southeast on a one way exit ramp interchange. Vehicle two was traveling southeast directly behind Vehicle one. Vehicle one decelerated. Vehicle one's rear impacted Vehicle two's front. Vehicle two came to rest in the roadway. Vehicle two experienced a minor engine fire.



Vehicle	Body type	Make	Model	Year	Occ.#	Age	Occupant's sex	Maximum known occupant ais
2	4-DR SEDAN/HDTOP	Honda	Accord	1990	1	17	MALE	0=None

Occupant: 1998-43-30-2-1



Fire Information

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



Pre-Crash Environment

Traffic Flow	ONE WAY
Number of Travel Lanes	ONE
Roadway Alignment	STRAIGHT
Roadway Profile	LEVEL
Roadway Surface Type	CONCRETE
Roadway Surface Condition	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	12 F D E W 2
Damage (C1-C6)	0 8 10 4 6 22
Crush (L and D)	154 0
Object Contacted 1	VEHICLE NO. 1
Object Contacted 2	0

NASS Weighting Factor

Weighting factor	489.36874907
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Rollover Characteristics

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

Vehicle Factors

Make-Model	Honda Accord
Year	1990
Class	PASSENGER CAR
Body Type	4-DR SEDAN/HDTOP
Weight	124

Pre-Crash Driver Data

Accident Type	28
Pre-event Movement	GOING STRAIGHT
Critical Pre-crash Event	Same DIR-DECELER
Attempted Avoidance Manuever	No DRIVER
Pre-impact Stability	No DRIVER
Pre-impact Location	STAYED IN LANE

DRIVER Factors

Age	17	Height	173	Weight	59
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

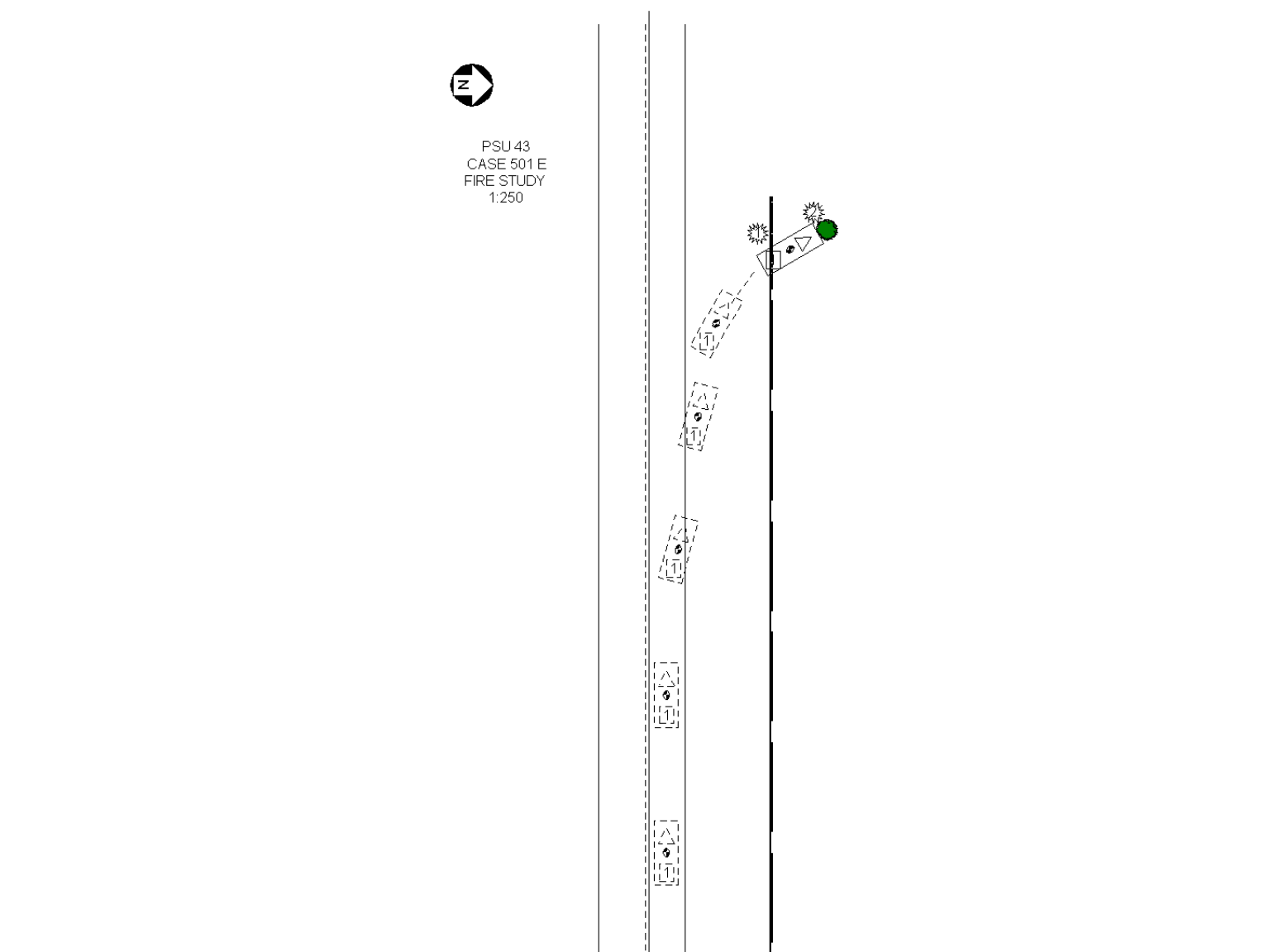
Occupant	1998-43-30-2-1
MAIS	0=None
Seat Position	Front left side

AIS Level	Injury Description	Contacts
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31 Case 1998-43-501

Summary:

VEHICLE ONE WAS TRAVELING WEST ON A TWO LANE UNDIVIDED ROADWAY. VEHICLE ONE SWEARVED RIGHT TO AVOID IMPACT WITH A POSSUM. VEHICLE ONE LEFT THE ROAD WAY ON THE LEFT, IMPACTED A FENCE WITH ITS FRONT PLANE, IMPACTED A TREE WITH ITS FRONT PLANE AND THEN CAUGHT ON FIRE. THE FIRE APPEARS TO HAVE STARTED UNDER HOOD. VEHICLE ONE WAS TOWED DUE TO DAMAGE. THE DRIVER OF VEHICLE ON RECEIVED A "B" INJURY AND WAS TRANSPORTED AND RELEASED.



Vehicle #	Body type	Make	Model	Year	Occ.#	Age	Occupant's sex	Maximum known occupant ais
1	2DR SEDAN/HT/CPE	Lexus	SC-300/400	1995	1	45	FEMALE-NOT PREG	1=Minor

Occupant: 1998-43-501-1-1



Fire Information

Fire Occurrence	Major fire
Fire Origin	Engine compart
Location of Fuel Leakage	No fuel leakage
Type of Fuel Tank	Metallic
Fuel Tank Location	Forward of rear axle, 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	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)	21

Crash Severity

Nr. Quarter Turns	No rollover
Impact Speed	998
Total, Longitudal, and Lateral δV	49 -49 < 0.5 KMPH
Est. δV with sequence number	DELTA V CODED 2
CDC	12 F Y E W 4
Damage (C1-C6)	6 31 79 77 38 15
Crush (L and D)	140 -24
Object Contacted 1	LARGE TREE
Object Contacted 2	FENCE

NASS Weighting Factor

Weighting factor	0
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Rollover Characteristics

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

Vehicle Factors

Make-Model	Lexus SC-300/400
Year	1995
Class	PASSENGER CAR
Body Type	2DR SEDAN/HT/CPE
Weight	161

Pre-Crash Driver Data

Accident Type	3
Pre-event Movement	GOING STRAIGHT
Critical Pre-crash Event	OFF EDGE-RIGHT
Attempted Avoidance Manuever	No AVOIDANCE
Pre-impact Stability	LONGITUDINAL SKID
Pre-impact Location	DEPARTED ROADWAY

DRIVER Factors

Age	45	Height	160	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	Not EQUIP W/ OTH

Injuries

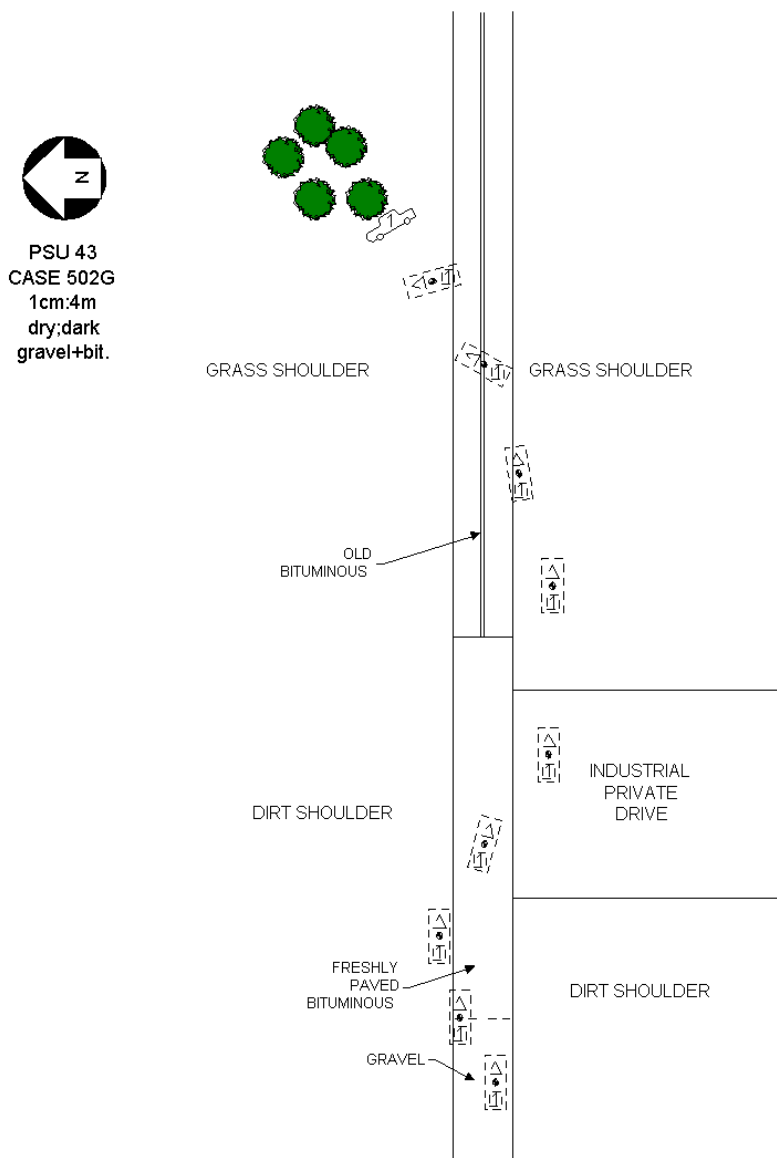
Occupant	1998-43-501-1-1
MAIS	1=Minor
Seat Position	Front left side

AIS Level	Injury Description	Contacts
1=Minor	Facial skin laceration, minor	Flying glass
1=Minor	Abdominal skin contusion	Air bag-DR side
1=Minor	Abdominal skin abrasion	Air bag-DR side
1=Minor	Abdominal skin laceration, minor	Flying glass
1=Minor	Upper extremity skin laceration, minor	Flying glass

32 Case 1998-43-502

Summary:

Vehicle was traveling east on a dry, two-lane, gravel roadway at night without light. The vehicle lost control and ran off the road to the left. At this point the roadway became an unlighted two-lane bituminous roadway. The vehicle then traveled across the road and off the right side of the roadway. The vehicle crossed the road one final time, rotating counterclockwise, and traveling off the left roadside. The vehicle rolled over to the right one quarter turn down an embankment and into a small patch of trees. The driver fled the vehicle, and was later apprehended by authorities, with whom he remained in custody as of the release of this case. After the fire department arrived at the scene to assist with the accident, the vehicle caught on fire. The small electrical blaze in the engine compartment was put out without extensive damage being done. The vehicle was towed due to damage. The injury status of the driver was listed as unknown.



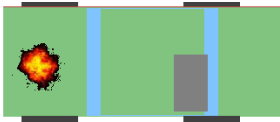
Vehicle	Body type	Make	Model	Year	Occ.#	Age	Occupant's sex	Maximum known occupant ais
1	LARGE PICKUP	Dodge	Ram 1500 P/U	1996	1	LESS THAN ONE YR	MALE	0=None

Occupant: 1998-43-502-1-1



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, forward rear axle
Fuel Tank Damage	No damage
Fuel Type	Gasoline



Crash Severity

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

NASS Weighting Factor

Weighting factor	0
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Rollover Characteristics

Number of Events	2
Rollover Initiation Type	FALL-OVER
Location of Rollover Initiation	ROADSIDE/MEDIAN
Rollover Initiation Object Contacted	TURN/FALL-OVER
Location on Vehicle where Principal Tripping Force was Applied	NONCONTACT FORCE
Direction of Initial Roll	ROLL RIGHT

Pre-Crash Environment

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

Vehicle Factors

Make-Model	Dodge Ram 1500 P/U
Year	1996
Class	TRUCK
Body Type	LARGE PICKUP
Weight	207

Pre-Crash Driver Data

Accident Type	7
Pre-event Movement	GOING STRAIGHT
Critical Pre-crash Event	TRAVEL TOO FAST
Attempted Avoidance Manuever	No DRIVER
Pre-impact Stability	LAT SKID-CTR CLK
Pre-impact Location	DEPARTED ROADWAY

DRIVER Factors

Age	LESS THAN ONE YR	Height	185	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

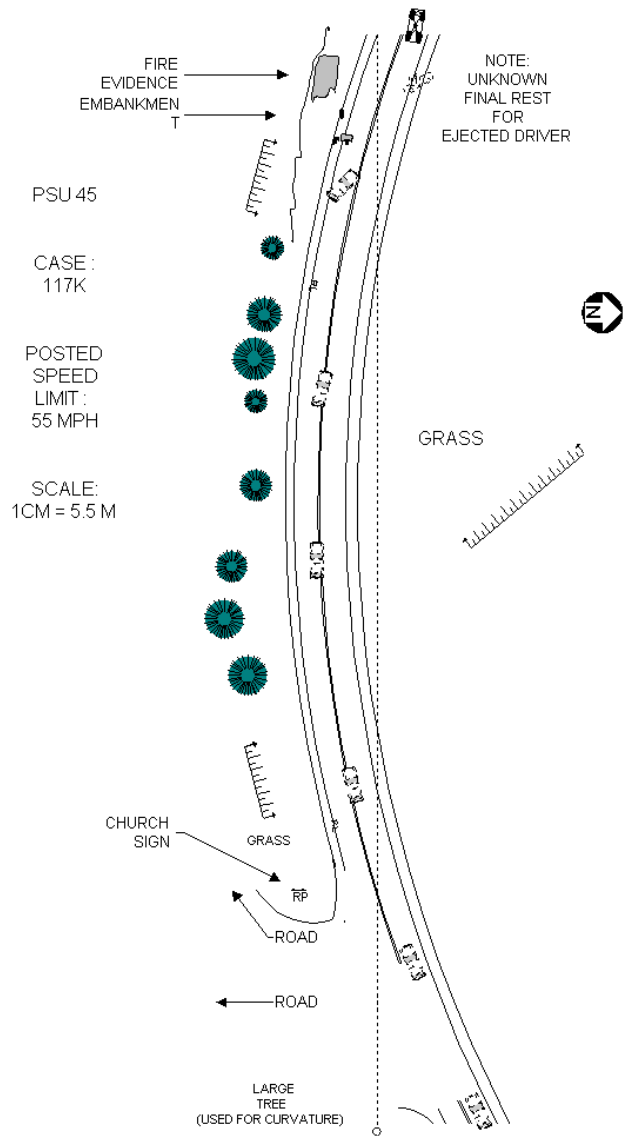
Occupant	1998-43-502-1-1
MAIS	0=None
Seat Position	Front left side

AIS Level	Injury Description	Contacts
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33 Case 1998-45-117

Summary:

VEHICLE #1 WAS TRAVELING WEST ON A TWO LANE ROADWAY WITH NARROW SHOULDERS. THE ROAD IS LOCATED IN A RURAL RESIDENTIAL AREA. THE CONDITIONS WERE DRY AND DARK. THE ROADWAY CURVES TO THE RIGHT SHARPLY AND HAS A STEEP DOWNWARD GRADE. VEHICLE #1 CROSSED THE CENTER LINE, THEN CROSSED THE EASTBOUND LANE, AND THEN BEGAN TO SPIN CLOCKWISE. IT THEN ROLLED OVER (TOWARD THE LEFT SIDE) AND STRUCK IT'S TOP AGAINST THE GROUND AND IT'S FRONT AGAINST AN EMBANKMENT WHERE IT CAME TO REST ON IT'S TOP FACING WEST. THE VEHICLE WAS THEN COMPLETELY BURNED. THE DRIVER WAS COMPLETELY EJECTED.



Vehicle	Body type	Make	Model	Year	Occ.#	Age	Occupant's sex	Maximum known occupant ais
1	2DR SEDAN/HT/CPE	Nissan	NX 1600/2000	1992	1	54	MALE	4=Severe

Occupant: 1998-45-117-1-1



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	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 PRESENT
Alcohol Presence	
Alcohol Test (< 95 indicates BAC 0.xx)	22

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	MINOR 1
CDC	0 T D D O 2
Damage (C1-C6)	0 0 0 0 0 0
Crush (L and D)	0 0
Object Contacted 1	ROLLOVER-OVERTURN
Object Contacted 2	0

NASS Weighting Factor

Weighting factor	68.479996538
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Rollover Characteristics

Number of Events	2
Rollover Initiation Type	TRIP-OVER
Location of Rollover Initiation	ON SHLDER-PAVED
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	Nissan NX 1600/2000
Year	1992
Class	PASSENGER CAR
Body Type	2DR SEDAN/HT/CPE
Weight	107

Pre-Crash Driver Data

Accident Type	7
Pre-event Movement	NEGOTIATE CURVE
Critical Pre-crash Event	0
Attempted Avoidance Manuever	No DRIVER
Pre-impact Stability	LATERAL SKID-CLK
Pre-impact Location	DEPARTED ROADWAY

DRIVER Factors

Age	54	Height	180	Weight	86
Gender					MALE
Ejection					COMPLETE EJECT
Ejection Area					No EJECTION
Entrapment					Not ENTRAPPED

Restraint Factors

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

Injuries

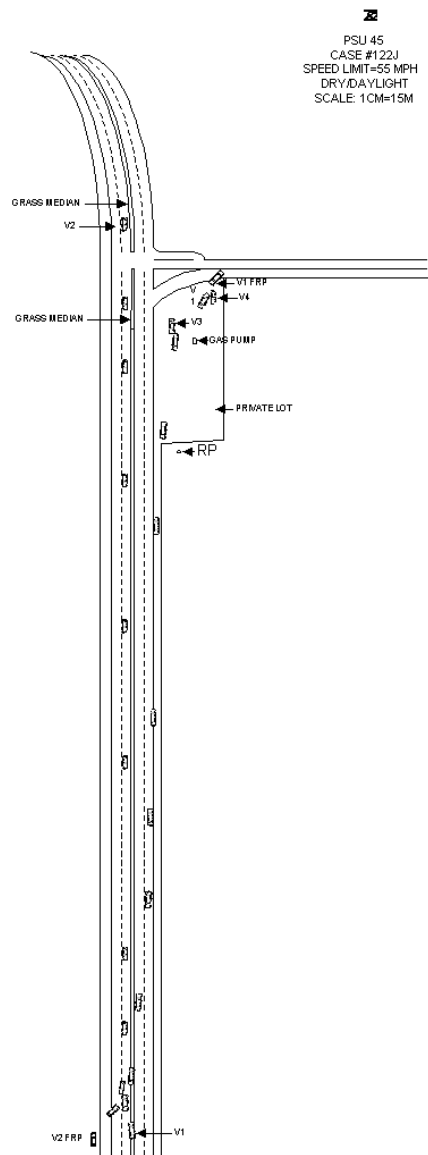
Occupant	1998-45-117-1-1
MAIS	4=Severe
Seat Position	Front left side

AIS Level	Injury Description	Contacts
3=Serious	Tibial condylar fracture, open/displaced/comminuted	Ground
4=Severe	>3 rib fxs on one side & <3 other side & hemo-/pneumothorax	Ground
1=Minor	Facial skin laceration, minor	Ground
1=Minor	Facial skin abrasion	Ground
1=Minor	Upper extremity skin contusion	Ground
2=Moderate	Radial fracture, closed	Ground
1=Minor	Scalp laceration, minor	Ground
2=Moderate	Orbit fracture NFS	Ground

34 Case 1998-45-122

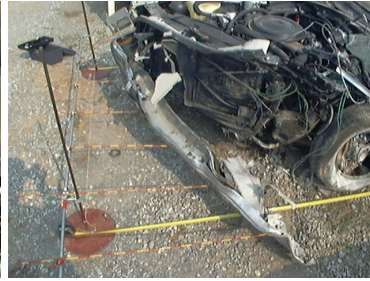
Summary:

VEHICLE #1 WEST BOUND ON UNDIVIDED 4 LANE STATE HIGHWAY WITH SPEED LIMIT OF 55 MPH UNDER DARK/UNLIT/DRY CONDITIONS. VEHICLE #2 EAST BOUND ON SAME ROADWAY. FRONT OF V1 IMPACTED FRONT OF V2. V1 TRAVELED APPROXIMATELY 266 METERS EAST AFTER IMPACT WITH V2 AND IMPACTED V3 WHICH WAS PARKED IN A PARKING LOT. AFTER IMPACT WITH V3, V1 CONTINUED NORTHEAST AND STRUCK V4 WHICH WAS PARKED IN SAME LOT. V1 FRP APPROXIMATELY 284 METERS EAST OF IMPACT WITH V2. V2 LEFT ROADWAY AFTER IMPACT WITH V1 AND CAME TO REST ON SIDE OF ROAD IN GRASSY AREA. DRIVER OF V1 WAS UNBELTED. DRIVER OF V2 WAS WEARING SHOULDER BELT ONLY. V1 COMPONENT FAILURES WERE THE LEFT FRONT DOOR LATCH/STRIKER ASSEMBLY. LEFT FRONT SEAT ADJUSTERS FAILED ALSO. BOTH B PILLARS WERE CUT DURING EXTRICATION. V2 COMPONENT FAILURES WERE THE RIGHT FRONT DOOR LATCH/STRIKER ASSEMBLY. LEFT FRONT SEAT ADJUSTERS ALSO FAILED. BOTH B-PILLARS WERE CUT DURING EXTRICATION.



Vehicle	Body type	Make	Model	Year	Occ. Age	Occupant's sex	Maximum known occupant ais
1	4-DR SEDAN/HDTOP	Buick	Electra/Park Avenue	1984	41	MALE	4=Severe
2	3DR/2DR HATCHBAK	Ford	Probe	1992	17	FEMALE-NOT PREG	3=Serious

Occupant: 1998-45-122-1-1



Fire Information

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



Pre-Crash Environment

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

Crash Severity

Nr. Quarter Turns	No rollover
Impact Speed	998
Total, Longitudal, and Lateral δV	54 -53 9
Est. δV with sequence number	DELTA V CODED 1
CDC	12 F Y E W 4
Damage (C1-C6)	141 124 89 60 20 10
Crush (L and D)	186 -31
Object Contacted 1	VEHICLE NO. 2
Object Contacted 2	Not IN TRAN LGTVEH

NASS Weighting Factor

Weighting factor	137.1048526
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Rollover Characteristics

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

Vehicle Factors

Make-Model	Buick Electra/Park Avenue
Year	1984
Class	PASSENGER CAR
Body Type	4-DR SEDAN/HDTOP
Weight	175

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	41	Height	190	Weight	109
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	1998-45-122-1-1
MAIS	4=Severe
Seat Position	Front left side

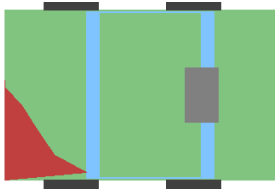
AIS Level	Injury Description	Contacts
3=Serious	Femoral condyle fracture	Left apnel
3=Serious	Femoral shaft fracture	Left apnel
2=Moderate	Fibular head, neck, or shaft fracture	Left apnel
3=Serious	Tibial condylar fracture, open/displaced/comminuted	Left apnel
2=Moderate	Hepatic laceration, minor (<3cms deep, EBL<202=Moderate	Mesenteric contusion NFS
Steering rim	Bladder injury NFS	Steering rim
2=Moderate	Splenic laceration, minor (tear<3cms deep, no major vessel)	Steering rim
1=Minor	Scalp laceration, NFS	Roof left rail
1=Minor	Facial skin abrasion	Windshield
1=Minor	Thoracic skin abrasion	Unknown SOURCE
1=Minor	Arm skin avulsion, superficial (<25cms2 hand or <100cms2 arm	Left interior
2=Moderate	2-3 rib fractures with stable chest	Steering rim
1=Minor	Burn degree unknown, body area unknown	Unknown SOURCE
1=Minor	Facial skin laceration, minor	Windshield
1=Minor	Thoracic skin contusion	Sterring hub
1=Minor	690402	Unknown SOURCE
1=Minor	Leg skin contusion (hematoma)	Left apnel
4=Severe	Unconscious on admission, moves appropriately only to pain	Roof left rail

Occupant: 1998-45-122-2-1



Fire Information

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



Pre-Crash Environment

Traffic Flow	Not DIVIDED
Number of Travel Lanes	FOUR
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	No ALCOHOL
Alcohol Test (< 95 indicates BAC 0.xx)	0

Vehicle Factors

Make-Model	Ford Probe
Year	1992
Class	PASSENGER CAR
Body Type	3DR/2DR HATCHBAK
Weight	124

Crash Severity

Nr. Quarter Turns	No rollover
Impact Speed	998
Total, Longitudal, and Lateral δV	80 -79 14
Est. δV with sequence number	DELTA V CODED 1
CDC	12 F Y E W 5
Damage (C1-C6)	121 74 57 41 25 2
Crush (L and D)	148 -45
Object Contacted 1	VEHICLE NO. 1
Object Contacted 2	0

Pre-Crash Driver Data

Accident Type	51
Pre-event Movement	GOING STRAIGHT
Critical Pre-crash Event	OPP DIR-OVR LEFT
Attempted Avoidance Manuever	STEERING RIGHT
Pre-impact Stability	TRACKING
Pre-impact Location	Left TRAVEL LANE

NASS Weighting Factor

Weighting factor	137.1048526
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DRIVER Factors

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

Age	17	Height	158	Weight	53
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

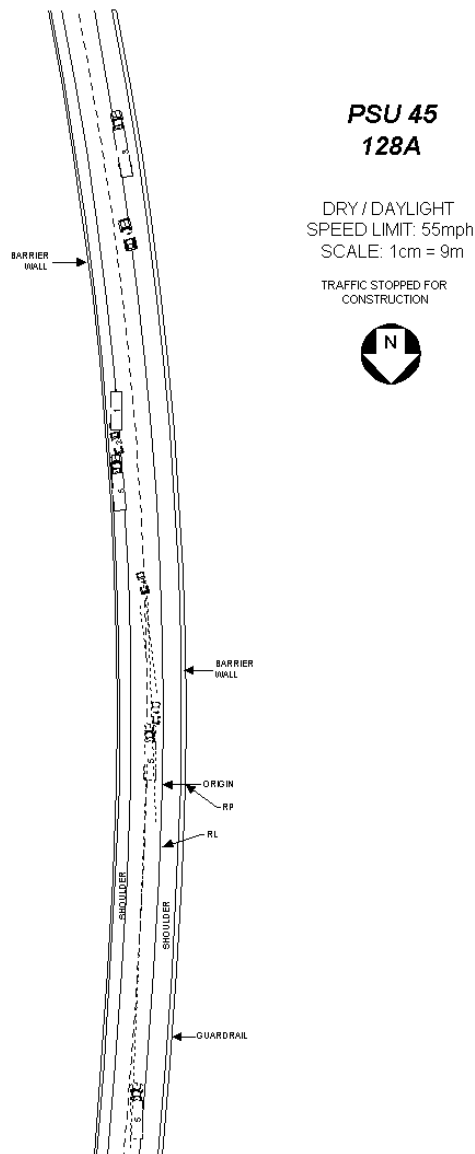
Occupant	1998-45-122-2-1
MAIS	3=Serious
Seat Position	Front left side

AIS Level	Injury Description	Contacts
1=Minor	Awake on admission, NFS	Steering rim
2=Moderate	Fibular fracture, bi-malleolar or trimalleolar	Left interior
2=Moderate	Pelvic fracture, closed	Left hardware
2=Moderate	Lumbar fracture of transverse process without cord injury	Left hardware
1=Minor	Thoracic skin contusion	Steering rim
1=Minor	Upper extremity skin laceration, minor	Flying glass
1=Minor	Leg skin laceration NFS	Left apnel
1=Minor	Leg skin contusion (hematoma)	Unknown SOURCE
1=Minor	Leg skin contusion (hematoma)	Left apnel
1=Minor	Leg skin abrasion	Left apnel
3=Serious	Skull fracture, vault, comminuted (compound, depressed)	Steering rim
1=Minor	Facial skin laceration, minor	Steering comb
1=Minor	Facial skin laceration NFS	Steering hub
3=Serious	Thoracic cavity injury NFS, with hemo-/pneumothorax	Left interior
1=Minor	297402	Steering rim
1=Minor	Abdominal skin contusion	Steering rim

35 Case 1998-45-128

Summary:

The roadway is a four lane, concrete median divided, interstate roadway with shoulders and concrete barriers on each side. The crash was located on a rural, uphill section of the interstate with a slight curvature to the left, in dry, daylight conditions. Southbound traffic, on the interstate, was stopped due to construction approximately two miles ahead. V1, (a non-CDS tractor- trailer), was stopped, facing South, in the left lane. V2, (a van), was also stopped and facing South, behind V1. V3, (a non-CDS tractor-trailer), was stopped, facing South, in the right lane. V4, (a compact utility), was stopped, facing South, behind V3. V5, a non-CDS tractor-trailer), was southbound in the right lane approaching the stopped traffic. V5 was unable to stop and its front plane stuck V4's back plane, pushing V4's front left corner into the back of V3's trailer. V4 then contacted the right barrier wall with its right rear. After initial impact, V5 continued South and went into the left lane where V5's front plane struck V2's back plane, pushing V2's front into the back of V1's trailer. The impacts caused a major fire with V1's trailer, V2 and V5 all burning. The drivers of both CDS vehicles (V2 and V4) were fatally injured.



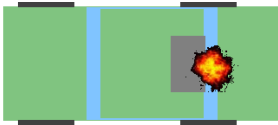
Vehicle	Body type	Make	Model	Year	Occ.#	Age	Occupant's sex	Maximum known occupant ais
2	MINIVAN	Chevrolet	Astrovan	1995	1	33	MALE	6=Maximum
4	COMPACT UTILITY	Toyota	4-Runner	1995	1	31	MALE	1=Minor

Occupant: 1998-45-128-2-1



Fire Information

Fire Occurrence	Major fire
Fire Origin	Fuel tank
Location of Fuel Leakage	Filler neck
Type of Fuel Tank	Metallic
Fuel Tank Location	Forward of rear axle, centered
Fuel Cap Location	Left side, forward rear axle
Fuel Tank Damage	Fill neck separation
Fuel Type	Gasoline



Pre-Crash Environment

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

Crash Severity

Nr. Quarter Turns	No rollover
Impact Speed	< 0.5KMPH
Total, Longitudal, and Lateral δV	< 0.5 KMPH < 0.5 KMPH < 0.5 KMPH
Est. δV with sequence number	SEVERE 3
CDC	6 B D A W 0
Damage (C1-C6)	0 0 0 0 0 0
Crush (L and D)	0 0
Object Contacted 1	VEHICLE NO. 5
Object Contacted 2	VEHICLE NO. 1

NASS Weighting Factor

Weighting factor	68.141972805
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Rollover Characteristics

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

Vehicle Factors

Make-Model	Chevrolet Astrovan
Year	1995
Class	PASSENGER CAR
Body Type	MINIVAN
Weight	198

Pre-Crash Driver Data

Accident Type	98
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	33	Height	183	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	1998-45-128-2-1
MAIS	6=Maximum
Seat Position	Front left side

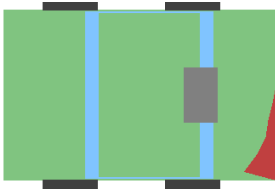
AIS Level	Injury Description	Contacts
6=Maximum	Burn, 2nd or 3rd degree, >90	

Occupant: 1998-45-128-4-1



Fire Information

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



Pre-Crash Environment

Traffic Flow	DVDED/W/BARRIER
Number of Travel Lanes	TWO
Roadway Alignment	CURVE LEFT
Roadway Profile	UPHILL GRADE
Roadway Surface Type	ASPHALT
Roadway Surface Condition	DRY
Light Conditions	DAYLIGHT
Atmospheric Conditions	No ADVERSE COND
Relation to Intersection	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	7 B D A W 3
Damage (C1-C6)	46 27 15 11 5 0
Crush (L and D)	150 0
Object Contacted 1	VEHICLE NO. 5
Object Contacted 2	VEHICLE NO. 3

NASS Weighting Factor

Weighting factor	68.141972805
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Rollover Characteristics

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

Vehicle Factors

Make-Model	Toyota 4-Runner
Year	1995
Class	PASSENGER CAR
Body Type	COMPACT UTILITY
Weight	187

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

Restraint Factors

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

Injuries

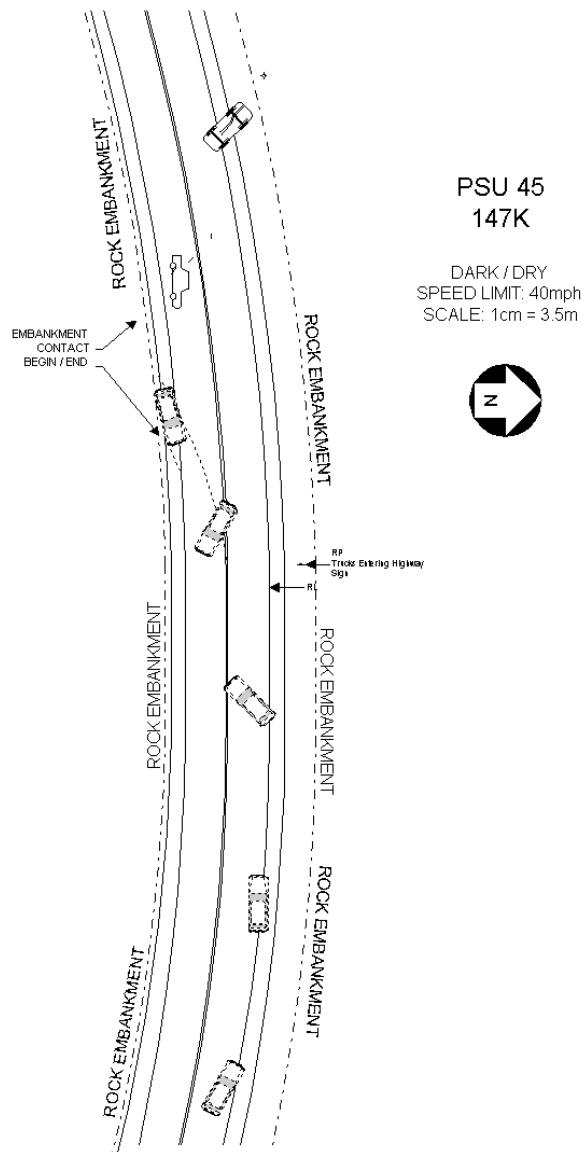
Occupant	1998-45-128-4-1
MAIS	1=Minor
Seat Position	Front left side

AIS Level	Injury Description	Contacts
1=Minor	Mandible fracture NFS	Oth left pillar
1=Minor	297402	Unknown SOURCE
1=Minor	Facial skin laceration NFS	Roof
1=Minor	Neck skin abrasion	Unknown SOURCE
1=Minor	Thoracic skin abrasion	Unknown SOURCE
1=Minor	Abdominal skin abrasion	Unknown SOURCE

36 Case 1998-45-147

Summary:

V1 was westbound on a two lane, rural roadway in dark, wet conditions with fog. As V1 attempted to negotiate a curve to the left the driver lost control. The vehicle began to rotate counter-clockwise and departed the left (south) side of the road. The vehicle struck a rock embankment with its back and then rolled two quarter turns. V1 came to rest facing south off the north edge of the road. After impact the vehicle burned. Both occupants of the vehicle were ejected.



Vehicle	Body type	Make	Model	Year	Occ. Age	Occupant's sex	Maximum known occupant ais
1	3DR/2DR HATCHBAK	Ford	Mustang/Mustang II	1988	23	FEMALE-NOT PREG	3=Serious
1	3DR/2DR HATCHBAK	Ford	Mustang/Mustang II	1988	25	FEMALE-NOT PREG	4=Severe

Occupant: 1998-45-147-1-1



Fire Information

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



Crash Severity

Nr. Quarter Turns	2 QUARTER TURNS
Impact Speed	998
Total, Longitudal, and Lateral δV	20 19 -7
Est. δV with sequence number	DELTA V CODED 1
CDC	5 B D A W 2
Damage (C1-C6)	2 11 24 29 27 24
Crush (L and D)	148 0
Object Contacted 1	EMBANKMENT
Object Contacted 2	ROLLOVER-OVERTURN

NASS Weighting Factor

Weighting factor	49.777775261
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Rollover Characteristics

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

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	FOG
Relation to Intersection	NONINTER/NONJUNC
Traffic Control Device	
Police Reported Alcohol Presence	ALCOHOL PRESENT
Alcohol Test (< 95 indicates BAC 0.xx)	17

Vehicle Factors

Make-Model	Ford Mustang/Mustang II
Year	1988
Class	Unknown
Body Type	3DR/2DR HATCHBACK
Weight	141

Pre-Crash Driver Data

Accident Type	2
Pre-event Movement	NEGOTIATE CURVE
Critical Pre-crash Event	OFF EDGE-RIGHT
Attempted Avoidance Manuever	BRAKE+STEER LEFT
Pre-impact Stability	LAT SKID-CTR CLK
Pre-impact Location	DEPARTED ROADWAY

DRIVER Factors

Age	23	Height	163	Weight	57
Gender					FEMALE-NOT PREG
Ejection					COMPLETE EJECT
Ejection Area					ROOF
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	1998-45-147-1-1
MAIS	3=Serious
Seat Position	Front left side

AIS Level	Injury Description	Contacts
1=Minor	Leg skin abrasion	Ground
1=Minor	Facial skin abrasion	Ground
2=Moderate	Clavicle fracture	Ground
3=Serious	Humeral fracture, open/displaced/comminuted	Ground
2=Moderate	Shoulder dislocation (glenohumeral joint)	Ground
1=Minor	Facial skin abrasion	Ground
1=Minor	Facial skin laceration, minor	Ground
1=Minor	Abdominal skin abrasion	Ground
1=Minor	Upper extremity skin abrasion	Ground
1=Minor	Leg skin laceration, minor	Ground

Occupant: 1998-45-147-1-2



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	Behind rear axle, centered
Fuel Cap Location	Right side, behind rear axle
Fuel Tank Damage	Deformed
Fuel Type	Gasoline



Crash Severity

Nr. Quarter Turns	2 QUARTER TURNS
Impact Speed	998
Total, Longitudal, and Lateral δV	20 19 -7
Est. δV with sequence number	DELTA V CODED 1
CDC	5 B D A W 2
Damage (C1-C6)	2 11 24 29 27 24
Crush (L and D)	148 0
Object Contacted 1	EMBANKMENT
Object Contacted 2	ROLLOVER-OVERTURN

NASS Weighting Factor

Weighting factor	49.777775261
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Rollover Characteristics

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

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	FOG
Relation to Intersection	NONINTER/NONJUNC
Traffic Control Device	
Police Reported Alcohol Presence	ALCOHOL PRESENT
Alcohol Test (< 95 indicates BAC 0.xx)	17

Vehicle Factors

Make-Model	Ford Mustang/Mustang II
Year	1988
Class	Unknown
Body Type	3DR/2DR HATCHBACK
Weight	141

Pre-Crash Driver Data

Accident Type	2
Pre-event Movement	NEGOTIATE CURVE
Critical Pre-crash Event	OFF EDGE-RIGHT
Attempted Avoidance Manuever	BRAKE+STEER LEFT
Pre-impact Stability	LAT SKID-CTR CLK
Pre-impact Location	DEPARTED ROADWAY

PASSENGER Factors

Age	25	Height	160	Weight	79
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

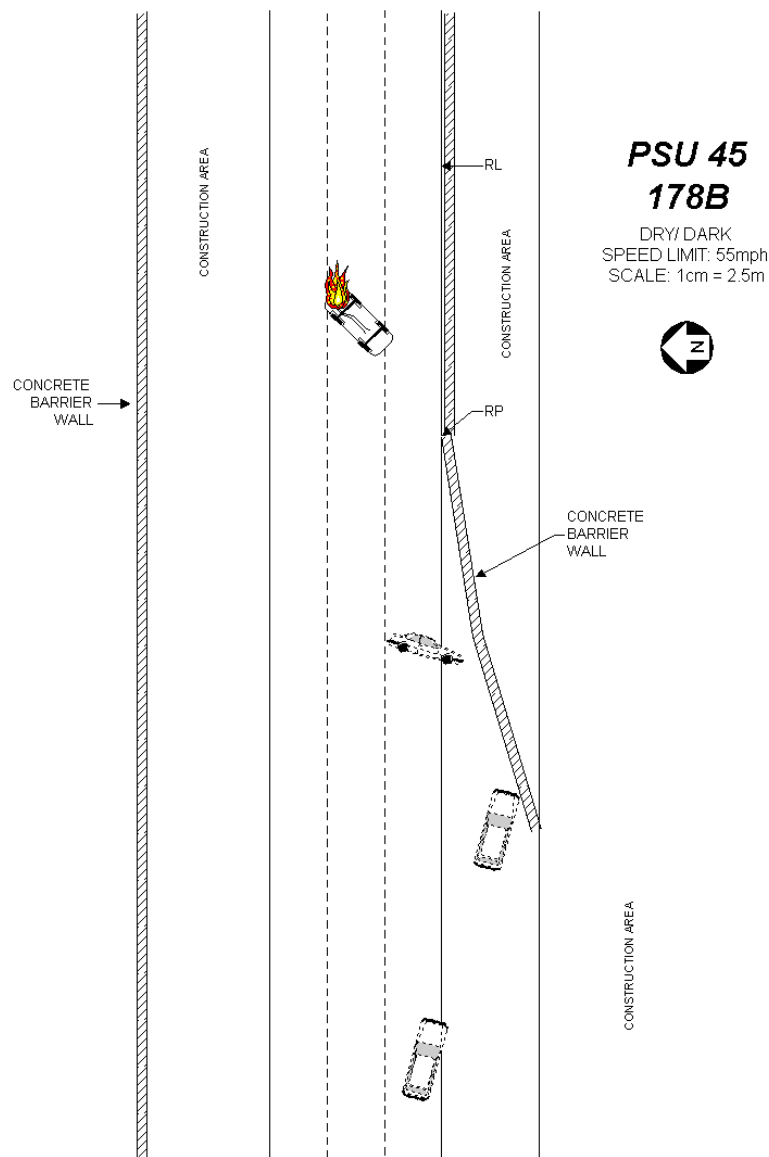
Occupant	1998-45-147-1-2
MAIS	4=Severe
Seat Position	Front right side

AIS Level	Injury Description	Contacts
2=Moderate	Lethargic on admission, NFS	Ground
2=Moderate	Scapular fracture	Ground
3=Serious	2-3 rib fractures with stable chest and hemo-/pneumothorax	Ground
4=Severe	Lung contusion, bilateral	Ground
3=Serious	Ulnar fracture, open/displaced/comminuted	Ground
3=Serious	Femoral neck fracture	Ground
3=Serious	Tibial shaft fracture, open/displaced/comminuted	Ground
2=Moderate	Fibular head, neck, or shaft fracture	Ground
2=Moderate	Colonic contusion (hematoma)	Ground
3=Serious	Splenic laceration, moderate (>3 cms deep, no hilar injury)	Ground
2=Moderate	Hepatic laceration, minor (<3cms deep, EBL<202=Moderate)	Kidney laceration, minor (<1cm, no urinary extravasation)
Ground		
2=Moderate	Lumbar fracture of transverse process without cord injury	Ground
2=Moderate	Lumbar fracture of transverse process without cord injury	Ground

37 Case 1998-45-178

Summary:

V1 was Eastbound in an interstate interchange construction area. There were three Eastbound lanes with a shoulder which came to an end on the South side of the road and a wide shoulder on the North side of the road. V1 departed the right (South) side of the road and struck a concrete barrier wall with its front plane. After impact, the vehicle overturned toward the left and came to rest facing Southwest on its top plane. During the rollover the left front door, apparently, came open due to latch/ striker failure and the unbelted driver was completely ejected. The driver was dead on arrival.



Vehicle	Body type	Make	Model	Year	Occ.#	Age	Occupant's sex	Maximum known occupant ais
1	2DR SEDAN/HT/CPE	Pontiac	Grand AM	1987	1	23	MALE	7=Unk. sev.

Occupant: 1998-45-178-1-1



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	Deformed
Fuel Type	Gasoline



Pre-Crash Environment

Traffic Flow	DVDED/W/BARRIER
Number of Travel Lanes	THREE
Roadway Alignment	STRAIGHT
Roadway Profile	UPHILL GRADE
Roadway Surface Type	ASPHALT
Roadway Surface Condition	DRY
Light Conditions	DARK/LIGHTED
Atmospheric Conditions	No ADVERSE COND
Relation to Intersection	INTERCHANGE REL
Traffic Control Device	
Police Reported Alcohol Presence	ALCOHOL PRESENT
Alcohol Test (< 95 indicates BAC 0.xx)	26

Crash Severity

Nr. Quarter Turns	2 QUARTER TURNS
Impact Speed	998
Total, Longitudal, and Lateral δV	47 -41 24
Est. δV with sequence number	DELTA V CODED 1
CDC	11 F D E W 3
Damage (C1-C6)	58 60 72 70 55 49
Crush (L and D)	150 0
Object Contacted 1	CONCRETE BARRIER
Object Contacted 2	ROLLOVER-OVERTRN

NASS Weighting Factor

Weighting factor	68.141972805
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Rollover Characteristics

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

Vehicle Factors

Make-Model	Pontiac Grand AM
Year	1987
Class	PASSENGER CAR
Body Type	2DR SEDAN/HT/CPE
Weight	113

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	23	Height	183	Weight	82
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

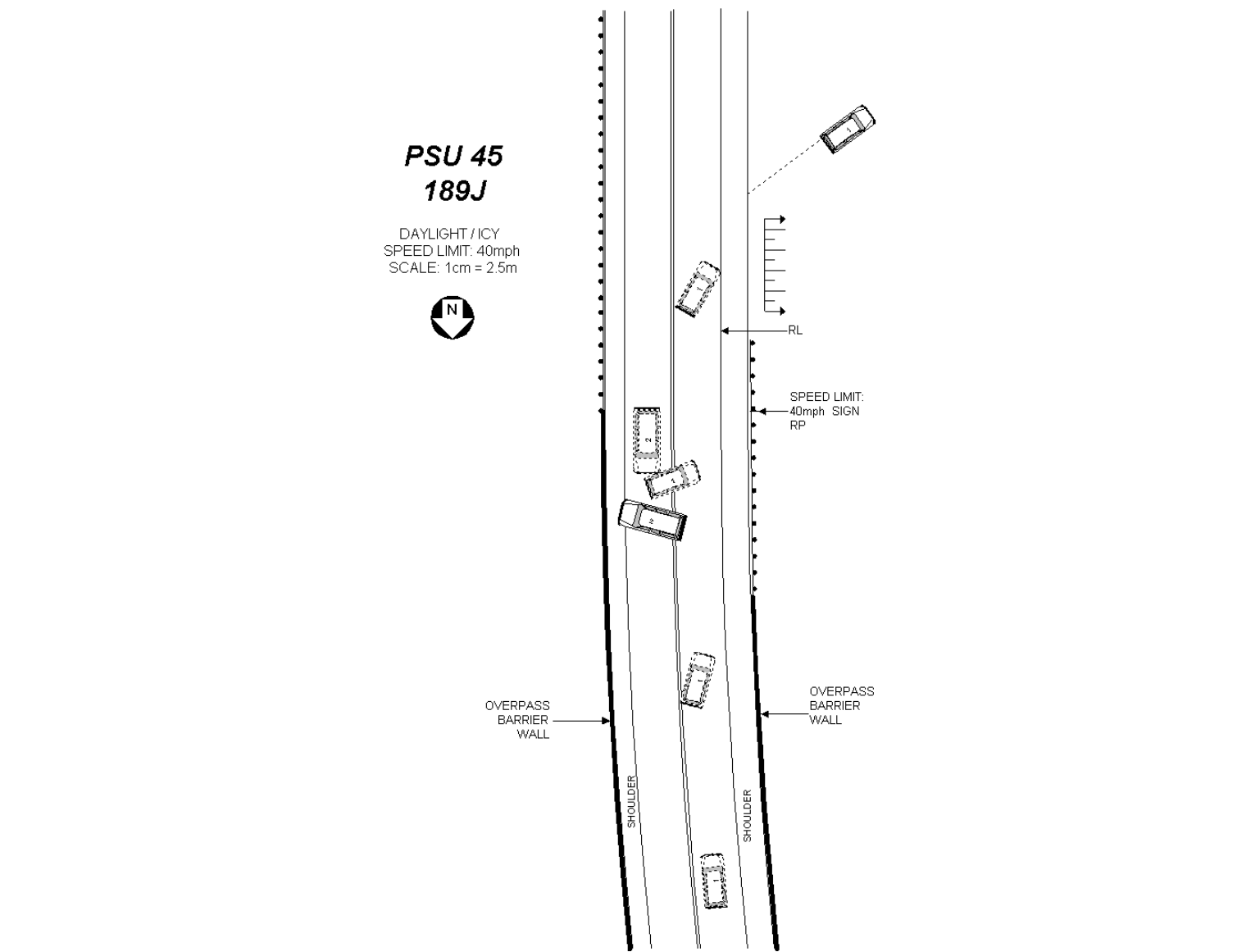
Occupant	1998-45-178-1-1
MAIS	7=Unk. sev.
Seat Position	Front left side

AIS Level	Injury Description	Contacts
7=Unk. sev.	Head injury, closed, NFS	Front header
7=Unk. sev.	215099	Unknown SOURCE
7=Unk. sev.	715009	Left A pillar
7=Unk. sev.	Blunt chest trauma NFS	Steering comb
7=Unk. sev.	815099	Left apnel

38 Case 1998-45-189

Summary:

V1 was southbound on a two lane, urban overpass in daylight, icy conditions. V2 was northbound on the same road. As V1 negotiated a curve to the right, the driver lost control on the icy roadway. V1 began to rotate clockwise and crossed over into the northbound lane. V1's left side was struck by V2's front. After impact V1 continued south and departed the west side of the road and came to rest facing west. V2 came to rest facing east.



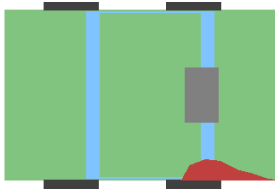
Vehicle	Body type	Make	Model	Year	Occ.#	Age	Occupant's sex	Maximum known occupant ais
1	COMPACT UTILITY	Jeep	YJ-Wrangler	1999	1	39	MALE	3=Serious
2	LARGE UTILITY	Chevrolet	Fullsize Blazer	1977	1	24	MALE	1=Minor

Occupant: 1998-45-189-1-1



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	Behind rear axle, centered
Fuel Cap Location	Left side, behind rear axle
Fuel Tank Damage	Fill neck separation
Fuel Type	Gasoline



Pre-Crash Environment

Traffic Flow	Not DIVIDED
Number of Travel Lanes	TWO
Roadway Alignment	CURVE RIGHT
Roadway Profile	LEVEL
Roadway Surface Type	CONCRETE
Roadway Surface Condition	ICE
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	15 -10 12
Est. δV with sequence number	DELTA V CODED 1
CDC	10 L Z A W 3
Damage (C1-C6)	22 30 28 16 9 2
Crush (L and D)	140 -132
Object Contacted 1	VEHICLE NO. 2
Object Contacted 2	0

NASS Weighting Factor

Weighting factor	55.677097503
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Rollover Characteristics

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

Vehicle Factors

Make-Model	Jeep YJ-Wrangler
Year	1999
Class	TRUCK
Body Type	COMPACT UTILITY
Weight	148

Pre-Crash Driver Data

Accident Type	64
Pre-event Movement	NEGOTIATE CURVE
Critical Pre-crash Event	OVER LINE-LEFT
Attempted Avoidance Manuever	BRAKE+STEER RT
Pre-impact Stability	TRACKING
Pre-impact Location	Left TRAVEL LANE

DRIVER Factors

Age	39	Height	178	Weight	79
Gender					MALE
Ejection					COMPLETE EJECT
Ejection Area					Left 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

Injuries

Occupant	1998-45-189-1-1
MAIS	3=Serious
Seat Position	Front left side

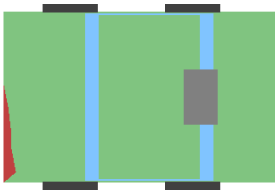
AIS Level	Injury Description	Contacts
1=Minor	Scalp laceration, minor	Ground
1=Minor	Facial skin laceration, minor	Ground
1=Minor	297602	Ground
1=Minor	Leg skin abrasion	Left interior
2=Moderate	Lethargic on admission, NFS	Ground
3=Serious	Thoracic cavity injury NFS, with hemo-/pneumothorax	Left interior
2=Moderate	Maxillary fracture, LeFort I	Ground
2=Moderate	Maxillary fracture, LeFort II	Ground
2=Moderate	Zygoma fracture	Ground
2=Moderate	Skull fracture, vault, NFS	Ground

Occupant: 1998-45-189-2-1



Fire Information

Fire Occurence	No fire
Fire Origin	No fire
Location of Fuel Leakage	No fuel leakage
Type of Fuel Tank	Metallic
Fuel Tank Location	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	12 -11 -6
Est. δV with sequence number	DELTA V CODED 1
CDC	1 F Y E W 1
Damage (C1-C6)	18 12 11 7 0 0
Crush (L and D)	190 -48
Object Contacted 1	VEHICLE NO. 1
Object Contacted 2	0

NASS Weighting Factor

Weighting factor	55.677097503
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Rollover Characteristics

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

Pre-Crash Environment

Traffic Flow	Not DIVIDED
Number of Travel Lanes	TWO
Roadway Alignment	STRAIGHT
Roadway Profile	LEVEL
Roadway Surface Type	CONCRETE
Roadway Surface Condition	ICE
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 Fullsize Blazer
Year	1977
Class	PASSENGER CAR
Body Type	LARGE UTILITY
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/O LOCKUP
Pre-impact Stability	TRACKING
Pre-impact Location	STAYED IN LANE

DRIVER Factors

Age	24	Height	193	Weight	76
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

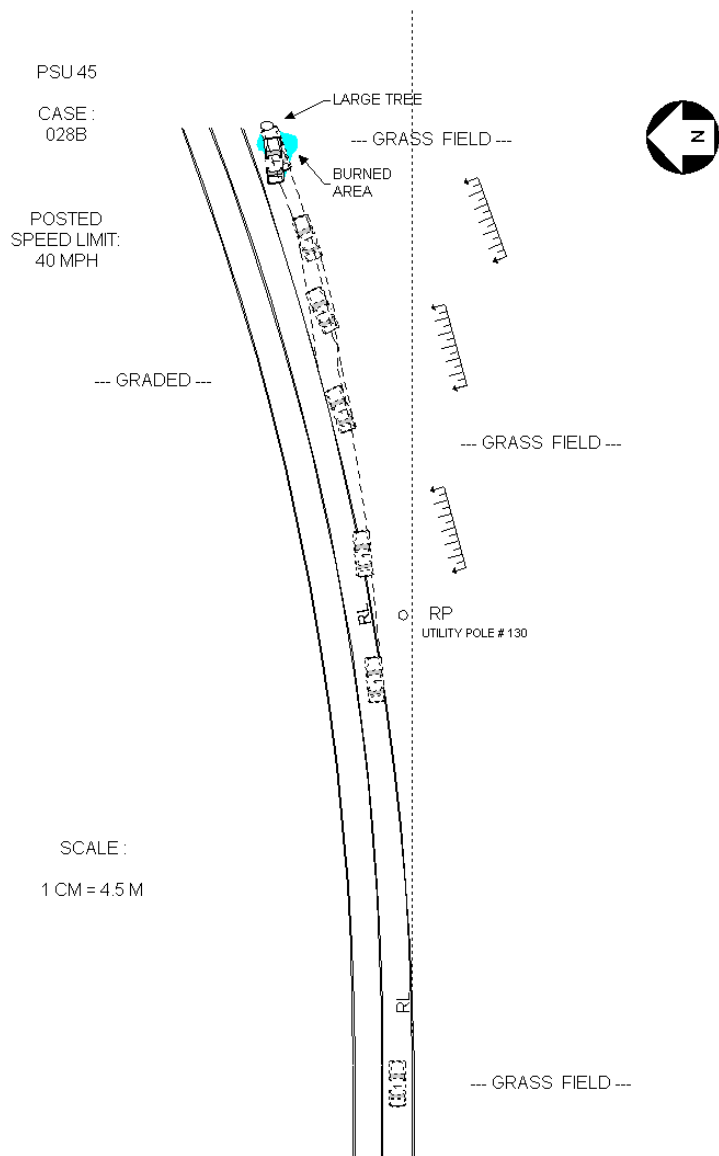
Occupant	1998-45-189-2-1
MAIS	1=Minor
Seat Position	Front left side

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

39 Case 1998-45-28

Summary:

VEHICLE #1 WAS TRAVELINE WEST ON A TWO LANE ROADWAY WITH NO SHOULDERS IN DRY, DAYLIGHT CONDITIONS. THE AREA IS A RESIDENTIAL AND RURAL MIX. VEHICLE #1 LEFT THE ROADWAY ON THE RIGHT SIDE WHERE THE ROADWAY CURVES TO THE LEFT. VEHICLE FOLLOWED THE DITCH LINE, THEN WENT BEYOND THE DITCH LINE ROTATING SLIGHTY COUNTERCLOCKWISE, AND THEN TRAVELED STRAIGHT INTO A LARGE TREE STRIKING IT WITH IT'S FRONT. THE VEHICLE EXPERIENCED A FIRE FOLLOWING THE IMPACT WITH THE TREE.



Vehicle	Body type	Make	Model	Year	Occ.#	Age	Occupant's sex	Maximum known occupant ais
1	2DR SEDAN/HT/CPE	BMW	8-series	1994	1	55	MALE	1=Minor

Occupant: 1998-45-28-1-1



Fire Information

Fire Occurence	Major fire
Fire Origin	Engine compart
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	< 0.5KMPH
Total, Longitudal, and Lateral δV	< 0.5 KMPH < 0.5 KMPH <
Est. δV with sequence number	0.5 KMPH SEVERE 1
CDC	12 F D E W 6
Damage (C1-C6)	124 141 147 136 118 69
Crush (L and D)	108 0
Object Contacted 1	LARGE TREE
Object Contacted 2	0

NASS Weighting Factor

Weighting factor	68.141972805
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Rollover Characteristics

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

Pre-Crash Environment

Traffic Flow	Not DIVIDED
Number of Travel Lanes	TWO
Roadway Alignment	CURVE 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	BMW 8-series
Year	1994
Class	PASSENGER CAR
Body Type	2DR SEDAN/HT/CPE
Weight	187

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	TRACKING
Pre-impact Location	DEPARTED ROADWAY

DRIVER Factors

Age	55	Height	180	Weight	84
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

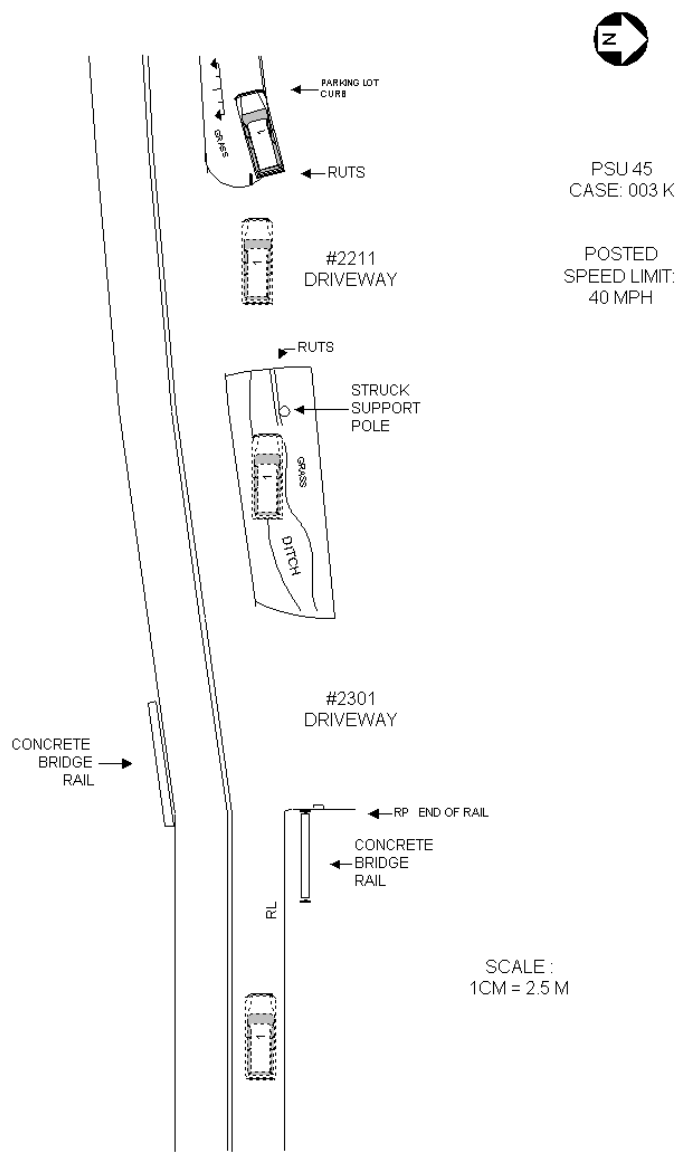
Occupant	1998-45-28-1-1
MAIS	1=Minor
Seat Position	Front left side

AIS Level	Injury Description	Contacts
1=Minor	Burn degree unknown, body area unknown	Unknown SOURCE

40 Case 1998-45-3

Summary:

VEHICLE #1 WAS TRAVELING WEST ON A TWO LANE ROADWAY WITH DEEP DITCHES ON THE NORTH SIDE OF THE ROADWAY. THERE ARE SEVERAL DRIVEWAYS THAT GO OVER THE DITCH LINE THAT HAVE CULVERS, THESE DRIVEWAYS SERVE BUSINESSES ALONG THE ROADWAY. VEHICLE #1 WAS NEGOTIATING A CURVE TO THE LEFT ON A DRY AND DARK (BUT LIGHTED WITH STREET LIGHTS) NIGHT. VEHICLE #1 LEFT THE ROADWAY ON THE RIGHT SIDE AND FOLLOWED THE DITCH LINE WITH IT'S RIGHT WHEEL, THEN STRUCK A UTILITY SUPPORT POLE ON THE RIGHT SIDE (THE POLE IS IN THE DITCH LINE AND LEANS TO THE LEFT FROM PREVIOUS IMPACTS BY VEHICLES) , THEN STRUCK A CULVER WITH IT'S UNDERCARRIAGE, THEN WENT ACROSS A PAVED BUSINESS DRIVEWAY, THEN CAME TO REST WITH ALL BUT THE RIGHT REAR WHEEL IN A GRASS AREA ABOVE THE DITCH LINE ON THE OTHER SIDE OF THE DRIVEWAY. THE RIGHT REAR WHEEL REMAINED ON THE PAVED SECTION OF A PARKING LOT. THE VEHICLE WAS FACING WEST AT FINAL REST.



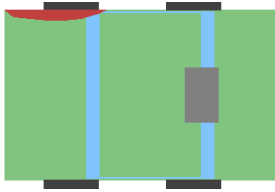
Vehicle #	Body type	Make	Model	Year	Occ.#	Age	Occupant's sex	Maximum known occupant ais
1	STATION WAGON	Chevrolet	Malibu/Chevelle	1979	1	40	FEMALE-NOT PREG	3=Serious

Occupant: 1998-45-3-1-1



Fire Information

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



Crash Severity

Nr. Quarter Turns	No rollover
Impact Speed	998
Total, Longitudal, and Lateral δV	17 -16 -6
Est. δV with sequence number	DELTA V CODED 1
CDC	1 R Y A W 2
Damage (C1-C6)	10 12 14 15 12 4
Crush (L and D)	150 139
Object Contacted 1	MEDIUM POLE
Object Contacted 2	DITCH/CULVERT

NASS Weighting Factor

Weighting factor	250.05035773
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Rollover Characteristics

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

Pre-Crash Environment

Traffic Flow	Not DIVIDED
Number of Travel Lanes	TWO
Roadway Alignment	CURVE LEFT
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)	29

Vehicle Factors

Make-Model	Chevrolet Malibu/Chevelle
Year	1979
Class	PASSENGER CAR
Body Type	STATION WAGON
Weight	145

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	40	Height	155	Weight	46
Gender					FEMALE-NOT PREG
Ejection					No EJECTION
Ejection Area					No EJECTION
Entrapment					JAMMED DOOR/FIRE

Restraint Factors

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

Injuries

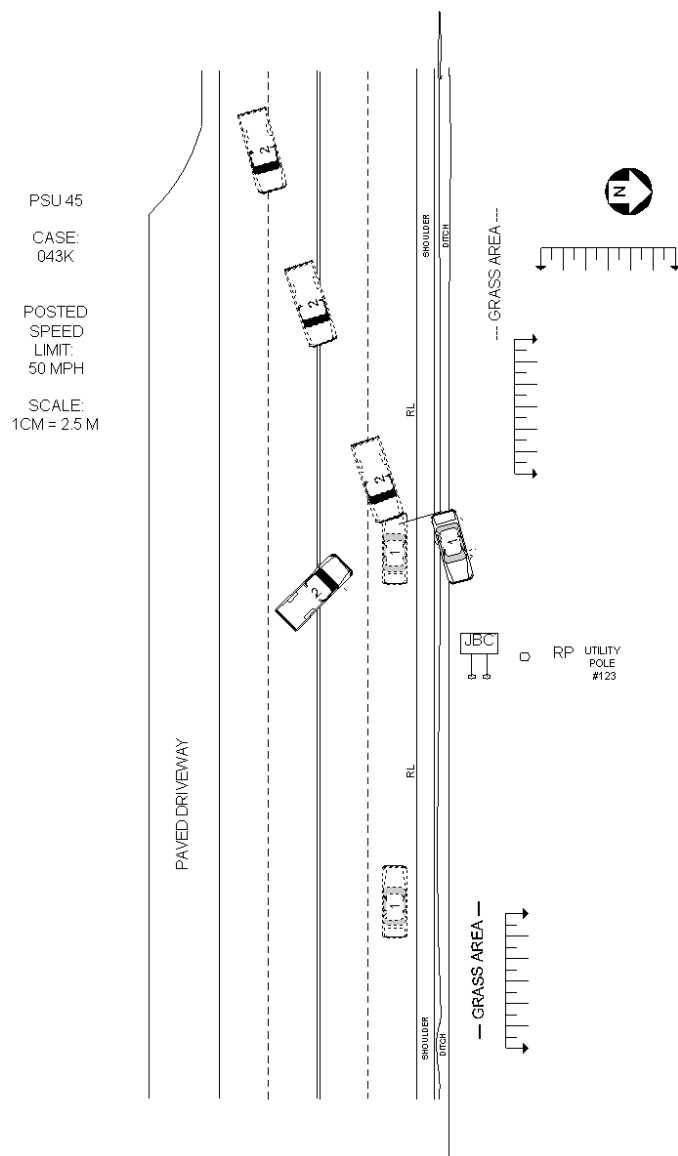
Occupant	1998-45-3-1-1
MAIS	3=Serious
Seat Position	Front left side

AIS Level	Injury Description	Contacts
3=Serious	Humeral fracture, open/displaced/comminuted	Right panel
1=Minor	Facial skin laceration NFS	Windshield
1=Minor	Facial skin abrasion	Windshield
1=Minor	Upper extremity skin laceration NFS	Right panel

41 Case 1998-45-43

Summary:

VEHICLE #1 WAS TRAVELING WEST IN THE OUTSIDE TRAVEL LANE ON A FOURLANE ROADWAY WITH A NARROW SHOULDER ON THE NORTH SIDE AND A PAVED DRIVEWAY (RUNNING PARALEL WITH THE ROADWAY) ON THE SOUTH SIDE. IT WAS DRY AND DARK WITH NO STREET LIGHTS. THE SCENE IS LOCATED IN A COMMERCIAL AREA ON A MAJOR ROADWAY. VEHICLE #2 WAS TRAVELING EAST ON THE SAME FOURLANE ROADWAY AND CROSSED OVER THE CENTER DIVIDER LINE, THE INSIDE WESTBOUND LANE, AND THEN THE OUTSIDE TRAVEL LANE; STRIKING VEHICLE #1 IN THE FRONT WITH IT'S FRONT. FOLLOWING THE IMPACT, VEHICLE #1 SPUN CLOCKWISE AND CAME TO REST OFF OF THE ROADWAY ON THE NORTH SIDE FACING EAST. THE RIGHT REAR WHEEL REMAINED ON THE SHOULDER OF THE ROADWAY, THE OTHER THREE WHEELS WERE IN THE THE GRASS JUST BEYOND THE SHOULDER. VEHICLE #2 SPUN COUNTERCLOCKWISE AND CAME TO REST IN THE CENTER OF THE FOURLANE ROADWAY FACING NORTH WEST.



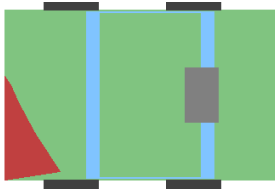
Vehicle #	Body type	Make	Model	Year	Occ.#	Age	Occupant's sex	Maximum known occupant ais
1	4-DR SEDAN/HDTOP	Honda	Accord	1990	1	16	MALE	5=Critical
1	4-DR SEDAN/HDTOP	Honda	Accord	1990	2	17	MALE	3=Serious
1	4-DR SEDAN/HDTOP	Honda	Accord	1990	3	16	MALE	1=Minor
2	LARGE PICKUP	Chevrolet	C/K-series Pickup	1976	1	30	MALE	3=Serious
2	LARGE PICKUP	Chevrolet	C/K-series Pickup	1976	2	33	MALE	2=Moderate

Occupant: 1998-45-43-1-1



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	Not DIVIDED
Number of Travel Lanes	FOUR
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	998
Total, Longitudal, and Lateral δV	84 -79 -29
Est. δV with sequence number	DELTA V CODED 1
CDC	1 F D E W 4
Damage (C1-C6)	82 65 48 34 20 9
Crush (L and D)	154 0
Object Contacted 1	VEHICLE NO. 2
Object Contacted 2	0

NASS Weighting Factor

Weighting factor	62.166910437
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Rollover Characteristics

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

Vehicle Factors

Make-Model	Honda Accord
Year	1990
Class	PASSENGER CAR
Body Type	4-DR SEDAN/HDTOP
Weight	125

Pre-Crash Driver Data

Accident Type	51
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	16	Height	178	Weight	77
Gender			MALE		
Ejection			No EJECTION		
Ejection Area			No EJECTION		
Entrapment			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	1998-45-43-1-1
MAIS	5=Critical
Seat Position	Front left side

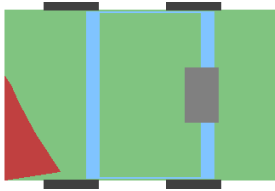
AIS Level	Injury Description	Contacts
2=Moderate	Awake on admission, prior unconscious, length NFS	Left A pillar
2=Moderate	Scalp laceration, major (>10 cms and into sub-Q)	Left A pillar
3=Serious	Radial fracture, open/displaced/comminuted	Left apnel
2=Moderate	Kidney laceration NFS	Left hardware
5=Critical	Massive splenic injury (hilar disruption, tissue loss)	Left hardware

Occupant: 1998-45-43-1-2



Fire Information

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



Pre-Crash Environment

Traffic Flow	Not DIVIDED
Number of Travel Lanes	FOUR
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	998
Total, Longitudal, and Lateral δV	84 -79 -29
Est. δV with sequence number	DELTA V CODED 1
CDC	1 F D E W 4
Damage (C1-C6)	82 65 48 34 20 9
Crush (L and D)	154 0
Object Contacted 1	VEHICLE NO. 2
Object Contacted 2	0

NASS Weighting Factor

Weighting factor	62.166910437
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Rollover Characteristics

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

Vehicle Factors

Make-Model	Honda Accord
Year	1990
Class	PASSENGER CAR
Body Type	4-DR SEDAN/HDTOP
Weight	125

Pre-Crash Driver Data

Accident Type	51
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	17	Height	180	Weight	82
Gender			MALE		
Ejection			No EJECTION		
Ejection Area			No EJECTION		
Entrapment			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	1998-45-43-1-2
MAIS	3=Serious
Seat Position	Front right side

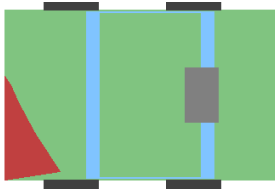
AIS Level	Injury Description	Contacts
1=Minor	Leg skin abrasion	Belt webb/buckle
1=Minor	Upper extremity skin contusion	Center panel
1=Minor	Scalp laceration, minor	Right panel
1=Minor	Upper extremity skin abrasion	Center panel
2=Moderate	Lumbar fracture of transverse process without cord injury	Seat, back
3=Serious	Lumbar fracture of pedicle without cord injury	Seat, back
1=Minor	Thoracic skin contusion	Belt webb/buckle
1=Minor	Thoracic skin abrasion	Belt webb/buckle

Occupant: 1998-45-43-1-3



Fire Information

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



Pre-Crash Environment

Traffic Flow	Not DIVIDED
Number of Travel Lanes	FOUR
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	998
Total, Longitudal, and Lateral δV	84 -79 -29
Est. δV with sequence number	DELTA V CODED 1
CDC	1 F D E W 4
Damage (C1-C6)	82 65 48 34 20 9
Crush (L and D)	154 0
Object Contacted 1	VEHICLE NO. 2
Object Contacted 2	0

NASS Weighting Factor

Weighting factor	62.166910437
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Rollover Characteristics

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

Vehicle Factors

Make-Model	Honda Accord
Year	1990
Class	PASSENGER CAR
Body Type	4-DR SEDAN/HDTOP
Weight	125

Pre-Crash Driver Data

Accident Type	51
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	16	Height	175	Weight	75
Gender			MALE		
Ejection			No EJECTION		
Ejection Area			No EJECTION		
Entrapment			ENTRAPPED		

Restraint Factors

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

Injuries

Occupant	1998-45-43-1-3
MAIS	1=Minor
Seat Position	Second right

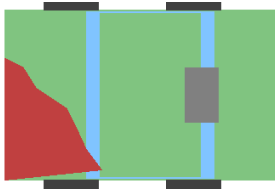
AIS Level	Injury Description	Contacts
1=Minor	Scalp contusion	Head restraint
1=Minor	Abdominal skin laceration, minor	Belt webb/buckle
1=Minor	Facial skin abrasion	Flying glass
1=Minor	Neck skin abrasion	Flying glass
1=Minor	Thoracic skin abrasion	Belt webb/buckle
1=Minor	Leg skin contusion (hematoma)	Seat, back
1=Minor	Upper extremity skin contusion	Seat, back

Occupant: 1998-45-43-2-1



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	Deform+seam fail
Fuel Type	Gasoline



Pre-Crash Environment

Traffic Flow	Not DIVIDED
Number of Travel Lanes	FOUR
Roadway Alignment	STRAIGHT
Roadway Profile	DOWNHILL GRADE
Roadway Surface Type	ASPHALT
Roadway Surface Condition	DRY
Light Conditions	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

Crash Severity

Nr. Quarter Turns	No rollover
Impact Speed	998
Total, Longitudal, and Lateral δV	60 -59 10
Est. δV with sequence number	DELTA V CODED 1
CDC	12 F D E W 6
Damage (C1-C6)	143 121 107 92 47 28
Crush (L and D)	180 -37
Object Contacted 1	VEHICLE NO. 1
Object Contacted 2	0

NASS Weighting Factor

Weighting factor	62.166910437
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Rollover Characteristics

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

Vehicle Factors

Make-Model	Chevrolet C/K-series Pickup
Year	1976
Class	TRUCK
Body Type	LARGE PICKUP
Weight	190

Pre-Crash Driver Data

Accident Type	50
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	30	Height	180	Weight	88
Gender			MALE		
Ejection			No EJECTION		
Ejection Area			No EJECTION		
Entrapment			Not ENTRAPPED		

Restraint Factors

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

Injuries

Occupant	1998-45-43-2-1
MAIS	3=Serious
Seat Position	Front left side

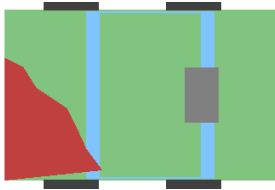
AIS Level	Injury Description	Contacts
2=Moderate	Lethargic on admission, unconscious (length NFS)	Steering rim
1=Minor	Facial skin laceration, minor	Steering rim
1=Minor	Gingival laceration	Steering rim
1=Minor	Leg skin contusion (hematoma)	Seat, back
1=Minor	Leg skin abrasion	Left apnel
2=Moderate	Pelvic fracture, closed	Left apnel
2=Moderate	Cervical vertebral body fracture, no cord injury NFS	Steering rim
3=Serious	Lumbar fracture of vertebral body >203=Serious	Lumbar fracture of lamina without cord injury
Seat, back		
2=Moderate	Maxillary fracture, LeFort I	Steering rim
2=Moderate	Maxillary fracture, LeFort II	Steering rim
2=Moderate	Mandible sub-condylar fracture, open/displaced/comminuted	Steering rim
2=Moderate	Alveolar ridge fracture +/- tooth injury	Steering rim
1=Minor	Tympanic membrane rupture	Steering rim

Occupant: 1998-45-43-2-2



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	Deform+seam fail
Fuel Type	Gasoline



Pre-Crash Environment

Traffic Flow	Not DIVIDED
Number of Travel Lanes	FOUR
Roadway Alignment	STRAIGHT
Roadway Profile	DOWNHILL GRADE
Roadway Surface Type	ASPHALT
Roadway Surface Condition	DRY
Light Conditions	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

Crash Severity

Nr. Quarter Turns	No rollover
Impact Speed	998
Total, Longitudal, and Lateral δV	60 -59 10
Est. δV with sequence number	DELTA V CODED 1
CDC	12 F D E W 6
Damage (C1-C6)	143 121 107 92 47 28
Crush (L and D)	180 -37
Object Contacted 1	VEHICLE NO. 1
Object Contacted 2	0

NASS Weighting Factor

Weighting factor	62.166910437
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Rollover Characteristics

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

Vehicle Factors

Make-Model	Chevrolet C/K-series Pickup
Year	1976
Class	TRUCK
Body Type	LARGE PICKUP
Weight	190

Pre-Crash Driver Data

Accident Type	50
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

PASSENGER Factors

Age	33	Height	163	Weight	59
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

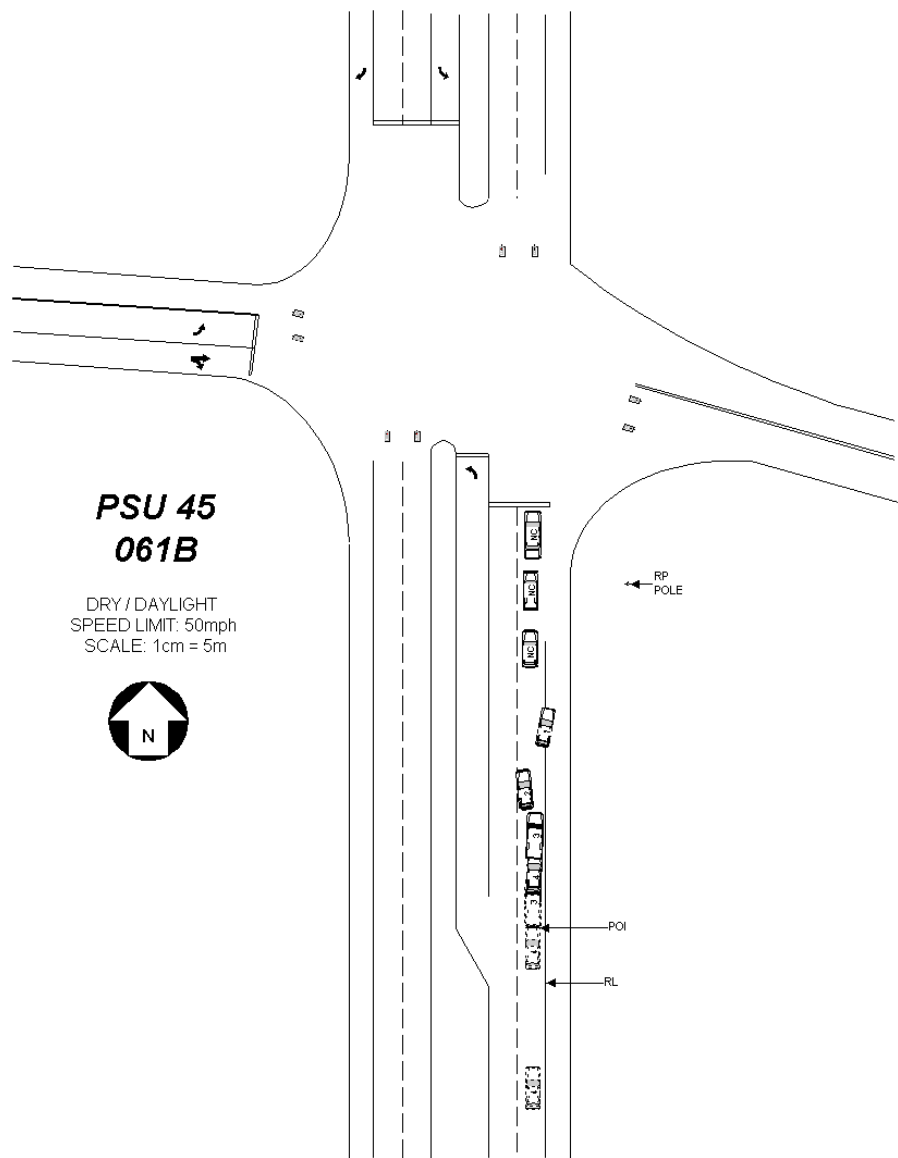
Occupant	1998-45-43-2-2
MAIS	2=Moderate
Seat Position	Front right side

AIS Level	Injury Description	Contacts
1=Minor	Facial skin abrasion	Sunvisor
1=Minor	Scalp contusion	Sunvisor
1=Minor	Leg skin abrasion	Right panel
1=Minor	Teeth dislocated or loosened	Right panel
2=Moderate	Fibular head, neck, or shaft fracture	Right panel
2=Moderate	Ankle collateral or cruciate ligament laceration	Right panel
2=Moderate	Ankle joint dislocation NFS	Right panel

42 Case 1998-45-61

Summary:

THE ROADWAY IS A FOUR LANE NORTH/SOUTH HIGHWAY WITH TURN LANES AND MEDIAN THAT IS INTERSECTED BY A TWO LANE EAST/WEST RURAL ROAD. THE INTERSECTION IS CONTROLLED BY A TRAFFIC SIGNAL. CONDITIONS AT THE TIME OF THE CRASH WERE DAYLIGHT AND DRY. V1, V2, AND V3 WERE ALL STOPPED NORTHBOUND ON THE FOUR LANE HIGHWAY IN THE RIGHT LANE AT THE SIGNAL CONTROLLED INTERSECTION. V4 WHICH WAS ALSO NORTHBOUND IN THE RIGHT LANE DID NOT STOP AND V4'S FRONT STRUCK V3'S BACK. THE INITIAL IMPACT CAUSED A CHAIN REACTION WITH V3'S FRONT STRIKING V2'S BACK AND V2'S FRONT CONTACTING V1'S BACK. THE DRIVERS OF V1, V2, AND V3 WERE NOT INJURED. THE UNBELTED DRIVER OF V4 RECEIVED FATAL INJURIES AND WAS DOA. THERE WAS A GAS TANK LACERATION TO V3 WHICH WAS A MODIFIED OLD MODEL PICK-UP TRUCK.



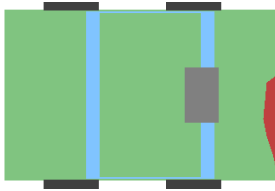
Vehicle #	Body type	Make	Model	Year	Occ.#	Age	Occupant's sex	Maximum known occupant ais
2	4-DR SEDAN/HDTOP	Ford	Tempo	1991	1	39	FEMALE-NOT PREG	0=None
3	LARGE PICKUP	Ford	F-series P/U	1977	1	30	MALE	1=Minor
4	4-DR SEDAN/HDTOP	Mercury	Sable	1987	1	55	MALE	1=Minor

Occupant: 1998-45-61-2-1



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	TWO
Roadway Alignment	STRAIGHT
Roadway Profile	LEVEL
Roadway Surface Type	ASPHALT
Roadway Surface Condition	DRY
Light Conditions	DAYLIGHT
Atmospheric Conditions	No ADVERSE COND
Relation to Intersection	INTERSECTION REL
Traffic Control Device	
Police Reported Alcohol Presence	No ALCOHOL
Alcohol Test (< 95 indicates BAC 0.xx)	0

Vehicle Factors

Make-Model	Ford Tempo
Year	1991
Class	PASSENGER CAR
Body Type	4-DR SEDAN/HDTOP
Weight	118

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	6 B D E W 2
Damage (C1-C6)	0 6 14 19 17 15
Crush (L and D)	156 0
Object Contacted 1	VEHICLE NO. 3
Object Contacted 2	VEHICLE NO. 1

Pre-Crash Driver Data

Accident Type	98
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	68.141972805
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DRIVER Factors

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

Age	39	Height	168	Weight	61
Gender					FEMALE-NOT PREG
Ejection					No EJECTION
Ejection Area					No EJECTION
Entrapment					Not ENTRAPPED

Restraint Factors

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

Injuries

Occupant	1998-45-61-2-1
MAIS	0=None
Seat Position	Front left side

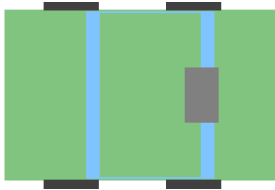
AIS Level	Injury Description	Contacts
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Occupant: 1998-45-61-3-1



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



Pre-Crash Environment

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

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	6 B D E W 0
Damage (C1-C6)	0 0 0 0 0 0
Crush (L and D)	0 0
Object Contacted 1	VEHICLE NO. 4
Object Contacted 2	VEHICLE NO. 2

NASS Weighting Factor

Weighting factor	68.141972805
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Rollover Characteristics

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

Vehicle Factors

Make-Model	Ford F-series P/U
Year	1977
Class	TRUCK
Body Type	LARGE PICKUP
Weight	177

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	30	Height	168	Weight	64
Gender					MALE
Ejection					No EJECTION
Ejection Area					No EJECTION
Entrapment					Not ENTRAPPED

Restraint Factors

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

Injuries

Occupant	1998-45-61-3-1
MAIS	1=Minor
Seat Position	Front left side

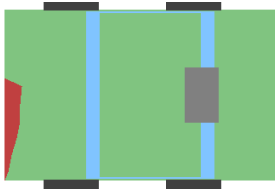
AIS Level	Injury Description	Contacts
1=Minor	Scalp contusion	Backlight

Occupant: 1998-45-61-4-1



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	TWO
Roadway Alignment	STRAIGHT
Roadway Profile	LEVEL
Roadway Surface Type	ASPHALT
Roadway Surface Condition	DRY
Light Conditions	DAYLIGHT
Atmospheric Conditions	No ADVERSE COND
Relation to Intersection	INTERSECTION REL
Traffic Control Device	
Police Reported Alcohol Presence	No ALCOHOL
Alcohol Test (< 95 indicates BAC 0.xx)	0

Vehicle Factors

Make-Model	Mercury Sable
Year	1987
Class	PASSENGER CAR
Body Type	4-DR SEDAN/HDTOP
Weight	138

Crash Severity

Nr. Quarter Turns	No rollover
Impact Speed	< 0.5KMPH
Total, Longitudal, and Lateral δV	< 0.5 KMPH < 0.5 KMPH < 0.5 KMPH
Est. δV with sequence number	DELTA V CODED 1
CDC	12 F D E W 3
Damage (C1-C6)	5 10 18 23 23 25
Crush (L and D)	150 0
Object Contacted 1	VEHICLE NO. 3
Object Contacted 2	0

Pre-Crash Driver Data

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

NASS Weighting Factor

Weighting factor	68.141972805
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DRIVER Factors

Age	55	Height	190	Weight	129
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	NO
Airbag Deployment	Not EQUIP/AVAIL
Airbag Deployment - 1 st Seat	Not EQUIP/AVAIL
Airbag Deployment - Oth Seat	Not EQUIP W/ OTH Seat

Injuries

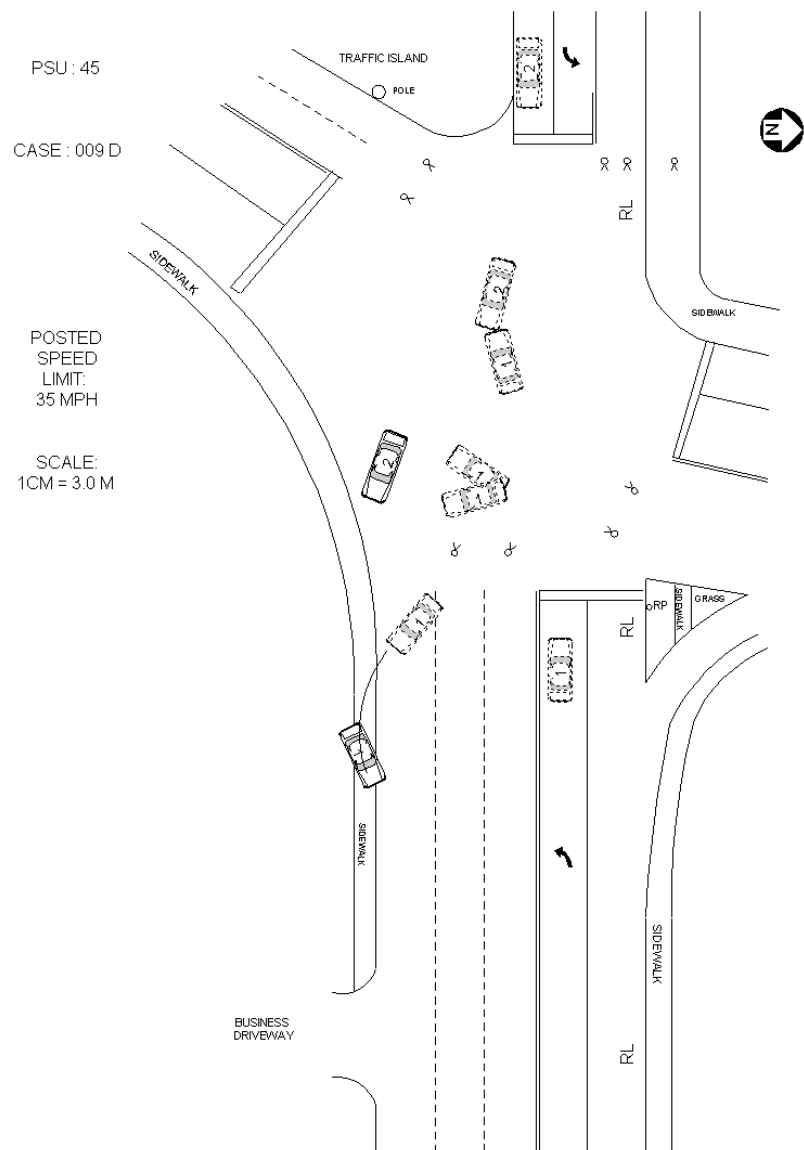
Occupant	1998-45-61-4-1
MAIS	1=Minor
Seat Position	Front left side

AIS Level	Injury Description	Contacts
1=Minor	Facial skin laceration NFS	Windshield
1=Minor	Facial skin laceration NFS	Windshield
1=Minor	Facial skin laceration NFS	Windshield
7=Unk. sev.	Blunt chest trauma NFS	Steering comb

43 Case 1998-45-9

Summary:

VEHICLE #1 WAS TRAVELING WEST ON FIVE LANE ROADWAY IN THE CENTER LANE, WHICH SERVES AS A TURN LANE ONTO ANOTHER ROADWAY THAT RUNS SOUTHWEST AND NORTHEAST. VEHICLE #2 WAS TRAVELING EAST ON A THREE LANE ROADWAY THAT INTERSECTS WITH THE ROADWAY THAT RUNS SOUTHWEST AND NORTHEAST. VEHICLE #2 WAS GOING STRAIGHT. VEHICLE #1 WAS TURNING ACROSS THE INTERSECTION STILL IN A WESTERLY DIRECTION WHEN IT STRUCK VEHICLE #2 VEHICLE #2 ON THE LEFT FRONT WITH IT'S LEFT FRONT. VEHICLE #1 SPUN COUNTERCLOCKWISE AND CAME TO REST ON A SIDEWALK ON THE SOUTH SIDE OF THE INTERSECTION FACING NORTHEAST. VEHICLE #2 CAME TO REST IN THE INTERSECTION FACING EAST. VEHICLE #2 EXPERIENCED A FIRE AFTER THE IMPACT.



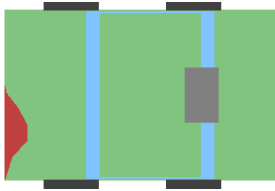
Vehicle	Body type	Make	Model	Year	Occ.#	Age	Occupant's sex	Maximum known occupant ais
1	2DR SEDAN/HT/CPE	Honda	Prelude	1995	1	31	MALE	1=Minor
1	2DR SEDAN/HT/CPE	Honda	Prelude	1995	2	26	MALE	0=None
2	4-DR SEDAN/HDTOP	Oldsmobile	Cutlass RWD	1980	1	45	MALE	1=Minor
2	4-DR SEDAN/HDTOP	Oldsmobile	Cutlass RWD	1980	2	31	MALE	2=Moderate

Occupant: 1998-45-9-1-1



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	Not DIVIDED
Number of Travel Lanes	FIVE
Roadway Alignment	STRAIGHT
Roadway Profile	DOWNHILL GRADE
Roadway Surface Type	ASPHALT
Roadway Surface Condition	DRY
Light Conditions	DARK/LIGHTED
Atmospheric Conditions	No ADVERSE COND
Relation to Intersection	INTERSECTION REL
Traffic Control Device	
Police Reported Alcohol Presence	ALCOHOL PRESENT
Alcohol Test (< 95 indicates BAC 0.xx)	2

Vehicle Factors

Make-Model	Honda Prelude
Year	1995
Class	PASSENGER CAR
Body Type	2DR SEDAN/HT/CPE
Weight	129

Crash Severity

Nr. Quarter Turns	No rollover
Impact Speed	998
Total, Longitudal, and Lateral δV	30 -29 -5
Est. δV with sequence number	DELTA V CODED 1
CDC	12 F D E W 2
Damage (C1-C6)	4 12 33 33 21 3
Crush (L and D)	140 0
Object Contacted 1	VEHICLE NO. 2
Object Contacted 2	0

Pre-Crash Driver Data

Accident Type	50
Pre-event Movement	TURNING LEFT
Critical Pre-crash Event	OVER LINE-LEFT
Attempted Avoidance Manuever	No AVOIDANCE
Pre-impact Stability	TRACKING
Pre-impact Location	Left TRAVEL LANE

NASS Weighting Factor

Weighting factor	261.83109787
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DRIVER Factors

Rollover Characteristics

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

Age	31	Height	183	Weight	64
Gender			MALE		
Ejection			No EJECTION		
Ejection Area			No EJECTION		
Entrapment			Not ENTRAPPED		

Restraint Factors

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

Injuries

Occupant	1998-45-9-1-1
MAIS	1=Minor
Seat Position	Front left side

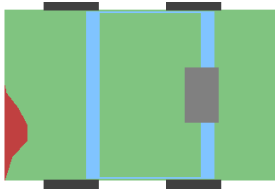
AIS Level	Injury Description	Contacts
1=Minor	Upper extremity skin contusion	Windshield

Occupant: 1998-45-9-1-2



Fire Information

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



Pre-Crash Environment

Traffic Flow	Not DIVIDED
Number of Travel Lanes	FIVE
Roadway Alignment	STRAIGHT
Roadway Profile	DOWNHILL GRADE
Roadway Surface Type	ASPHALT
Roadway Surface Condition	DRY
Light Conditions	DARK/LIGHTED
Atmospheric Conditions	No ADVERSE COND
Relation to Intersection	INTERSECTION REL
Traffic Control Device	
Police Reported Alcohol Presence	ALCOHOL PRESENT
Alcohol Test (< 95 indicates BAC 0.xx)	2

Vehicle Factors

Make-Model	Honda Prelude
Year	1995
Class	PASSENGER CAR
Body Type	2DR SEDAN/HT/CPE
Weight	129

Crash Severity

Nr. Quarter Turns	No rollover
Impact Speed	998
Total, Longitudal, and Lateral δV	30 -29 -5
Est. δV with sequence number	DELTA V CODED 1
CDC	12 F D E W 2
Damage (C1-C6)	4 12 33 33 21 3
Crush (L and D)	140 0
Object Contacted 1	VEHICLE NO. 2
Object Contacted 2	0

Pre-Crash Driver Data

Accident Type	50
Pre-event Movement	TURNING LEFT
Critical Pre-crash Event	OVER LINE-LEFT
Attempted Avoidance Manuever	No AVOIDANCE
Pre-impact Stability	TRACKING
Pre-impact Location	Left TRAVEL LANE

NASS Weighting Factor

Weighting factor	261.83109787
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PASSENGER Factors

Age	26	Height	173	Weight	79
Gender			MALE		
Ejection			No EJECTION		
Ejection Area			No EJECTION		
Entrapment			Not ENTRAPPED		

Rollover Characteristics

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

Restraint Factors

Restrain	Lap 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	1998-45-9-1-2
MAIS	0=None
Seat Position	Front right side

AIS Level	Injury Description	Contacts
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Occupant: 1998-45-9-2-1



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	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	25 -24 6
Est. δV with sequence number	DELTA V CODED 1
CDC	12 F D E W 2
Damage (C1-C6)	49 33 21 12 2 0
Crush (L and D)	176 0
Object Contacted 1	VEHICLE NO. 1
Object Contacted 2	0

NASS Weighting Factor

Weighting factor	261.83109787
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Rollover Characteristics

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

Pre-Crash Environment

Traffic Flow	Not DIVIDED
Number of Travel Lanes	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	Oldsmobile Cutlass RWD
Year	1980
Class	PASSENGER CAR
Body Type	4-DR SEDAN/HDTOP
Weight	154

Pre-Crash Driver Data

Accident Type	51
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	45	Height	175	Weight	97
Gender			MALE		
Ejection			No EJECTION		
Ejection Area			No EJECTION		
Entrapment			Not ENTRAPPED		

Restraint Factors

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

Injuries

Occupant	1998-45-9-2-1
MAIS	1=Minor
Seat Position	Front left side

AIS Level	Injury Description	Contacts
1=Minor	Leg skin abrasion	Left apnel
1=Minor	Upper extremity skin abrasion	Flying glass
1=Minor	Leg skin contusion (hematoma)	Left apnel
1=Minor	Upper extremity skin contusion	Center panel
1=Minor	Facial skin laceration, minor	Flying glass

Occupant: 1998-45-9-2-2



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	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	25 -24 6
Est. δV with sequence number	DELTA V CODED 1
CDC	12 F D E W 2
Damage (C1-C6)	49 33 21 12 2 0
Crush (L and D)	176 0
Object Contacted 1	VEHICLE NO. 1
Object Contacted 2	0

NASS Weighting Factor

Weighting factor	261.83109787
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Rollover Characteristics

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

Pre-Crash Environment

Traffic Flow	Not DIVIDED
Number of Travel Lanes	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	Oldsmobile Cutlass RWD
Year	1980
Class	PASSENGER CAR
Body Type	4-DR SEDAN/HDTOP
Weight	154

Pre-Crash Driver Data

Accident Type	51
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	31	Height	173	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

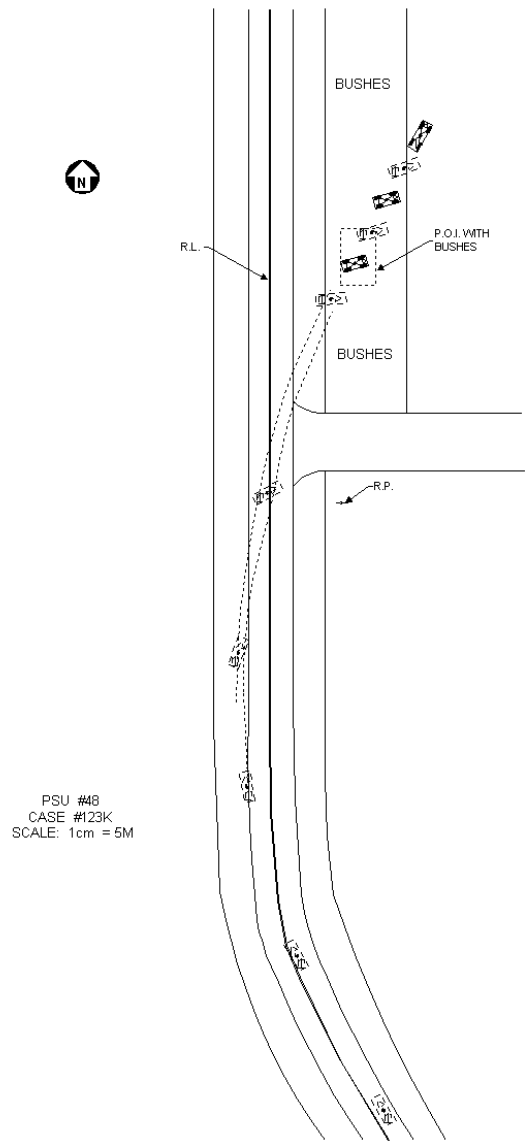
Occupant	1998-45-9-2-2
MAIS	2=Moderate
Seat Position	Front right side

AIS Level	Injury Description	Contacts
1=Minor	Facial skin laceration, minor	Right panel
2=Moderate	Alveolar ridge fracture +/- tooth injury	Right panel
2=Moderate	Maxillary fracture, LeFort I	Right panel
1=Minor	Gingival laceration	Right panel
1=Minor	Facial skin laceration, minor	Right panel
2=Moderate	Clavicle fracture	Right panel
1=Minor	Leg skin contusion (hematoma)	Right panel
1=Minor	Leg skin abrasion	Right panel
1=Minor	Thoracic skin contusion	Right panel
1=Minor	Upper extremity skin laceration, minor	Right panel

44 Case 1998-48-123

Summary:

V1 WAS TRAVELING NORTH ON A TWO-LANE UNDIVIDED ROADWAY. AS V1 ENTERED A RIGHT-HAND CURVE IT TRAVELED ACROSS THE CENTERLINE AND OFF THE LEFT SIDE OF THE ROAD. V1 RE-ENTERED THE ROADWAY AND TRAVELED ACROSS THE ROAD IN A CLOCKWISE YAW. V1 DEPARTED THE RIGHT SIDE OF THE ROADWAY AND TRAVELED OVER AN EMBANKMENT ROLLING 10 QUARTER TURNS TO FINAL REST. V1 CAME TO REST ON ITS TOP FACING NORTHEAST. V1 WAS TOWED FROM THE SCENE DUE TO DISABLING DAMAGE. THE UNRESTRAINED DRIVER OF V1 WAS HOSPITALIZED DUE TO INJURIES SUSTAINED IN THE CRASH.



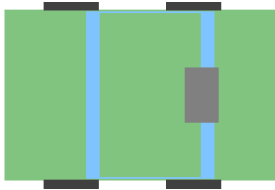
Vehicle	Body type	Make	Model	Year	Occ.#	Age	Occupant's sex	Maximum known occupant ais
1	COMPACT PICKUP	Chevrolet	S-10	1994	1	24	MALE	3=Serious

Occupant: 1998-48-123-1-1



Fire Information

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



Pre-Crash Environment

Traffic Flow	Not DIVIDED
Number of Travel Lanes	TWO
Roadway Alignment	CURVE RIGHT
Roadway Profile	LEVEL
Roadway Surface Type	ASPHALT
Roadway Surface Condition	DRY
Light Conditions	DAYLIGHT
Atmospheric Conditions	No ADVERSE COND
Relation to Intersection	NONINTER/NONJUNC
Traffic Control Device	
Police Reported Alcohol Presence	ALCOHOL PRESENT
Alcohol Test (< 95 indicates BAC 0.xx)	25

Crash Severity

Nr. Quarter Turns	10 QUARTER TURNS
Impact Speed	< 0.5KMPH
Total, Longitudal, and Lateral δV	< 0.5 KMPH < 0.5 KMPH < 0.5 KMPH
Est. δV with sequence number	MODERATE 1
CDC	0 T D D O 3
Damage (C1-C6)	0 0 0 0 0 0
Crush (L and D)	0 0
Object Contacted 1	ROLLOVER-OVERTURN
Object Contacted 2	0

NASS Weighting Factor

Weighting factor	275.44403995
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Rollover Characteristics

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

Vehicle Factors

Make-Model	Chevrolet S-10
Year	1994
Class	TRUCK
Body Type	COMPACT PICKUP
Weight	135

Pre-Crash Driver Data

Accident Type	6
Pre-event Movement	NEGOTIATE CURVE
Critical Pre-crash Event	OFF EDGE-LEFT
Attempted Avoidance Manuever	BRAKE+STEER RT
Pre-impact Stability	LATERAL SKID-CLK
Pre-impact Location	DEPARTED ROADWAY

DRIVER Factors

Age	24	Height	175	Weight	64
Gender					MALE
Ejection					No EJECTION
Ejection Area					No EJECTION
Entrapment					Not ENTRAPPED

Restraint Factors

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

Injuries

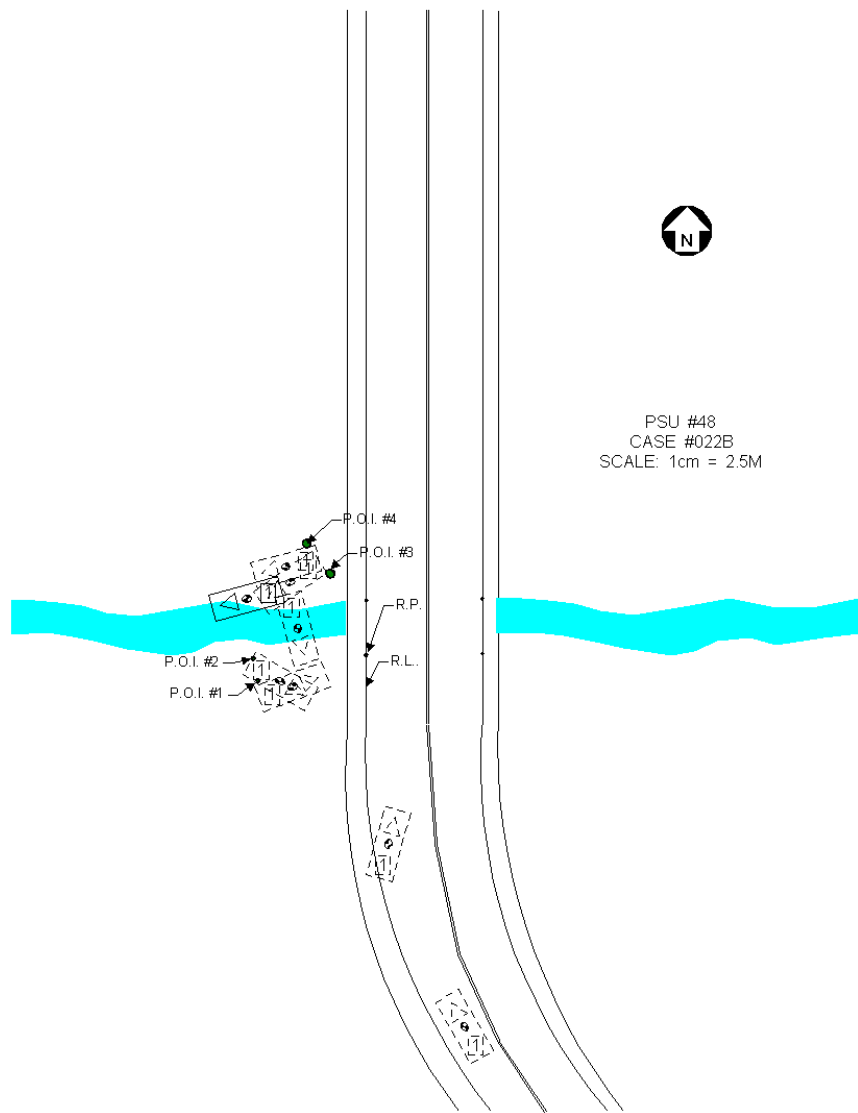
Occupant	1998-48-123-1-1
MAIS	3=Serious
Seat Position	Front left side

AIS Level	Injury Description	Contacts
3=Serious	Tibial condylar fracture, open/displaced/comminuted	Left apnel
2=Moderate	Scalp laceration, major (>10 cms and into sub-Q)	Int loose obj
1=Minor	690402	Seat, back
1=Minor	Facial skin laceration, minor	Int loose obj
1=Minor	Leg skin abrasion	Floor
1=Minor	Thoracic skin contusion	Steering comb
1=Minor	Abdominal skin contusion	Steering rim
2=Moderate	Awake on admission, unconscious <1 hour	Int loose obj
1=Minor	297402	Steering comb
1=Minor	297402	Steering comb

45 Case 1998-48-22

Summary:

V1 WAS NORTHBOUND ON A TWO-LANE COUNTY ROADWAY NEGOTIATING A RIGHT-HAND CURVE. V1 WENT OUT OF CONTROL ON THE WET PAVEMENT AND DEPARTED THE LEFT SIDE OF THE ROAD IN A CLOCKWISE ROTATION. V1 STRUCK TWO SMALL TREES WITH ITS LEFT REAR. V1 THEN CROSSED A SMALL STREAM BEFORE STRIKING TWO LARGE TREES WITH ITS BACK AND RIGHT SIDES. V1 CAME TO REST NEAR THE LAST IMPACT. V1 WAS TOWED FROM THE SCENE DUE TO DISABLING DAMAGE. THE RIGHT REAR PASSENGER (RESTRAINED IN A CHILD RESTRAINT) WAS FATALY INJURED. THE UNRESTRAINED DRIVER, RIGHT FRONT PASSENGER AND LEFT REAR PASSENGER WERE ALL TRANSPORTED TO A TRAUMA CENTER FOR TREATMENT.



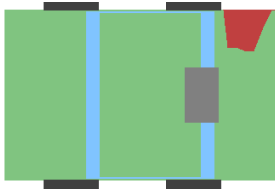
Vehicle #	Body type	Make	Model	Year	Occ.#	Age	Occupant's sex	Maximum known occupant ais
1	2DR SEDAN/HT/CPE	Nissan	200SX/240SX	1989	1	17	FEMALE-NOT PREG	2=Moderate
1	2DR SEDAN/HT/CPE	Nissan	200SX/240SX	1989	2	14	MALE	1=Minor
1	2DR SEDAN/HT/CPE	Nissan	200SX/240SX	1989	3	20	MALE	3=Serious
1	2DR SEDAN/HT/CPE	Nissan	200SX/240SX	1989	4	1	FEMALE-NOT PREG	5=Critical

Occupant: 1998-48-22-1-1



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	Deformed
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	WET
Light Conditions	DAYLIGHT
Atmospheric Conditions	RAIN
Relation to Intersection	NONINTER/NONJUNC
Traffic Control Device	
Police Reported Alcohol Presence	No ALCOHOL
Alcohol Test (< 95 indicates BAC 0.xx)	0

Crash Severity

Nr. Quarter Turns	No rollover
Impact Speed	998
Total, Longitudal, and Lateral δV	38 36 -13
Est. δV with sequence number	DELTA V CODED 4
CDC	5 R Z A W 4
Damage (C1-C6)	54 55 60 59 24 0
Crush (L and D)	78 -128
Object Contacted 1	LARGE TREE
Object Contacted 2	LARGE TREE

NASS Weighting Factor

Weighting factor	624.165598
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Rollover Characteristics

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

Vehicle Factors

Make-Model	Nissan 200SX/240SX
Year	1989
Class	PASSENGER CAR
Body Type	2DR SEDAN/HT/CPE
Weight	120

Pre-Crash Driver Data

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

DRIVER Factors

Age	17	Height	175	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	Not EQUIP/AVAIL
Airbag Deployment - Oth Seat	Not EQUIP W/ OTH

Injuries

Occupant	1998-48-22-1-1
MAIS	2=Moderate
Seat Position	Front left side

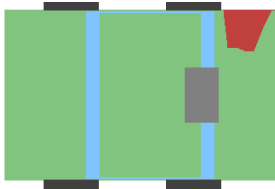
AIS Level	Injury Description	Contacts
2=Moderate	Thoracic spine fracture, no cord injury, NFS	Unknown SOURCE

Occupant: 1998-48-22-1-2



Fire Information

Fire Occurrence	No fire
Fire Origin	No fire
Location of Fuel Leakage	Filler neck
Type of Fuel Tank	Metallic
Fuel Tank Location	Forward of rear axle, 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	CURVE RIGHT
Roadway Profile	DOWNHILL GRADE
Roadway Surface Type	ASPHALT
Roadway Surface Condition	WET
Light Conditions	DAYLIGHT
Atmospheric Conditions	RAIN
Relation to Intersection	NONINTER/NONJUNC
Traffic Control Device	
Police Reported Alcohol Presence	No ALCOHOL
Alcohol Test (< 95 indicates BAC 0.xx)	0

Crash Severity

Nr. Quarter Turns	No rollover
Impact Speed	998
Total, Longitudal, and Lateral δV	38 36 -13
Est. δV with sequence number	DELTA V CODED 4
CDC	5 R Z A W 4
Damage (C1-C6)	54 55 60 59 24 0
Crush (L and D)	78 -128
Object Contacted 1	LARGE TREE
Object Contacted 2	LARGE TREE

NASS Weighting Factor

Weighting factor	624.165598
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Rollover Characteristics

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

Vehicle Factors

Make-Model	Nissan 200SX/240SX
Year	1989
Class	PASSENGER CAR
Body Type	2DR SEDAN/HT/CPE
Weight	120

Pre-Crash Driver Data

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

PASSENGER Factors

Age	14	Height	170	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	Not EQUIP/AVAIL
Airbag Deployment - Oth Seat	Not EQUIP W/ OTH

Injuries

Occupant	1998-48-22-1-2
MAIS	1=Minor
Seat Position	Front right side

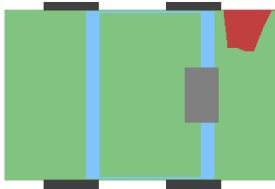
AIS Level	Injury Description	Contacts
1=Minor	Facial skin contusion	Right B pillar

Occupant: 1998-48-22-1-3



Fire Information

Fire Occurrence	No fire
Fire Origin	No fire
Location of Fuel Leakage	Filler neck
Type of Fuel Tank	Metallic
Fuel Tank Location	Forward of 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	CURVE RIGHT
Roadway Profile	DOWNHILL GRADE
Roadway Surface Type	ASPHALT
Roadway Surface Condition	WET
Light Conditions	DAYLIGHT
Atmospheric Conditions	RAIN
Relation to Intersection	NONINTER/NONJUNC
Traffic Control Device	
Police Reported Alcohol Presence	No ALCOHOL
Alcohol Test (< 95 indicates BAC 0.xx)	0

Crash Severity

Nr. Quarter Turns	No rollover
Impact Speed	998
Total, Longitudal, and Lateral δV	38 36 -13
Est. δV with sequence number	DELTA V CODED 4
CDC	5 R Z A W 4
Damage (C1-C6)	54 55 60 59 24 0
Crush (L and D)	78 -128
Object Contacted 1	LARGE TREE
Object Contacted 2	LARGE TREE

NASS Weighting Factor

Weighting factor	624.165598
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Rollover Characteristics

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

Vehicle Factors

Make-Model	Nissan 200SX/240SX
Year	1989
Class	PASSENGER CAR
Body Type	2DR SEDAN/HT/CPE
Weight	120

Pre-Crash Driver Data

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

PASSENGER Factors

Age	20	Height	168	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	Not EQUIP/AVAIL
Airbag Deployment - Oth Seat	Not EQUIP W/ OTH

Injuries

Occupant	1998-48-22-1-3
MAIS	3=Serious
Seat Position	Second left

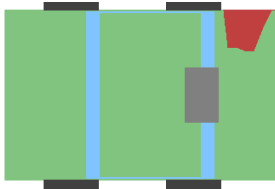
AIS Level	Injury Description	Contacts
1=Minor	Multiple hand tendons laceration/rupture/tear NFS	Rear header
3=Serious	Small arm artery laceration, major (complete, EBL>202=Moderate	Median, ulnar or radial nerve, with motor loss
Rear header 3=Serious	752006	Rear header

Occupant: 1998-48-22-1-4



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	Deformed
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	WET
Light Conditions	DAYLIGHT
Atmospheric Conditions	RAIN
Relation to Intersection	NONINTER/NONJUNC
Traffic Control Device	
Police Reported Alcohol Presence	No ALCOHOL
Alcohol Test (< 95 indicates BAC 0.xx)	0

Crash Severity

Nr. Quarter Turns	No rollover
Impact Speed	998
Total, Longitudal, and Lateral δV	38 36 -13
Est. δV with sequence number	DELTA V CODED 4
CDC	5 R Z A W 4
Damage (C1-C6)	54 55 60 59 24 0
Crush (L and D)	78 -128
Object Contacted 1	LARGE TREE
Object Contacted 2	LARGE TREE

NASS Weighting Factor

Weighting factor	624.165598
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Rollover Characteristics

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

Vehicle Factors

Make-Model	Nissan 200SX/240SX
Year	1989
Class	PASSENGER CAR
Body Type	2DR SEDAN/HT/CPE
Weight	120

Pre-Crash Driver Data

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

PASSENGER Factors

Age	1	Height	61	Weight	14
Gender					FEMALE-NOT PREG
Ejection					No EJECTION
Ejection Area					No EJECTION
Entrapment					Not ENTRAPPED

Restraint Factors

Restrain	W/ch seat-tp unk
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

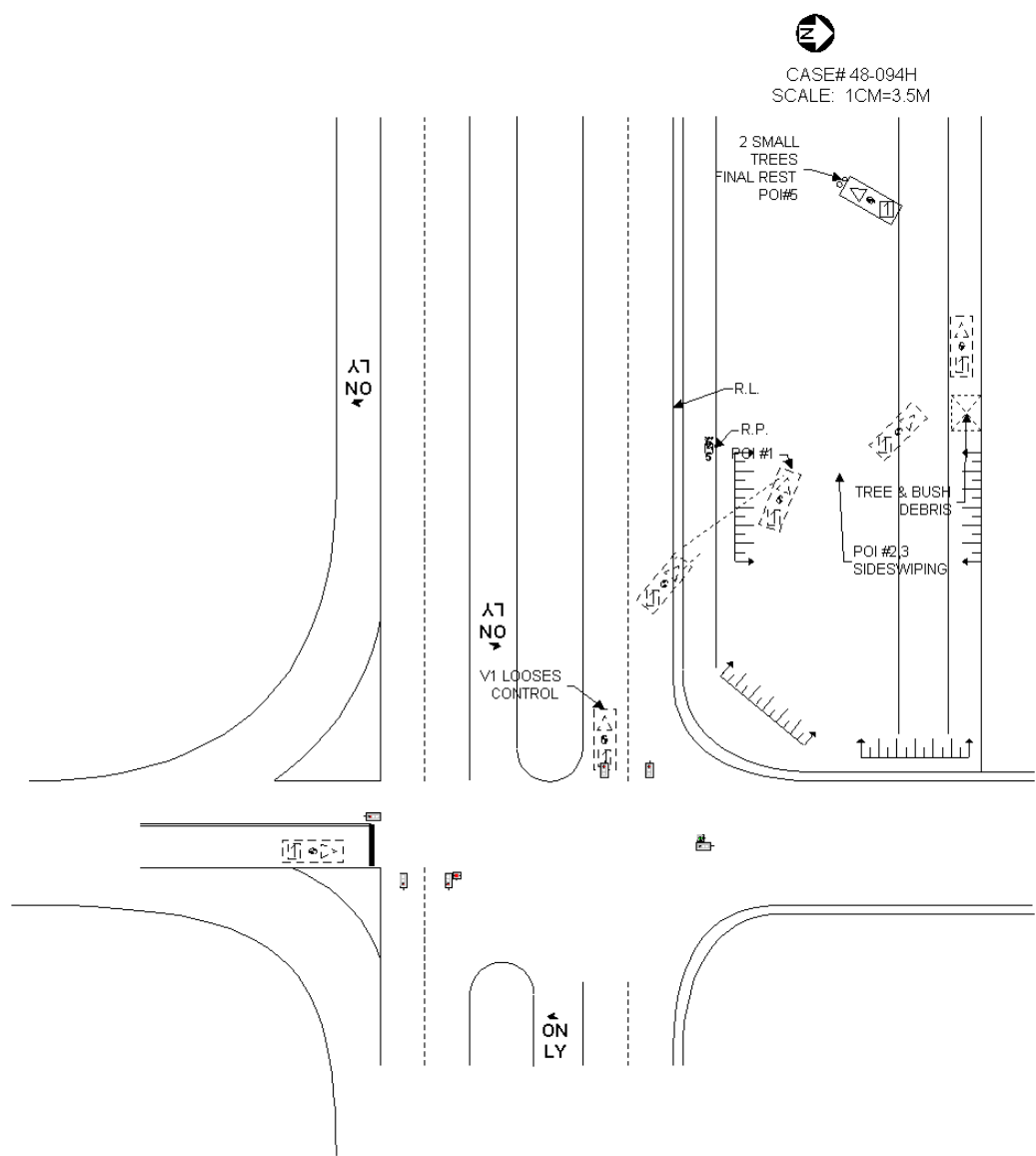
Occupant	1998-48-22-1-4
MAIS	5=Critical
Seat Position	Second right

AIS Level	Injury Description	Contacts
4=Severe	Kidney laceration, major (with collecting system or vessels)	Seat, back
4=Severe	Hepatic laceration, major (<505=Critical	Vena cava laceration, major, with air embolus
Seat, back		
5=Critical	Flail chest, <15 years old	Seat, back
1=Minor	Facial bone fracture NFS	Other occupants
3=Serious	Cerebral subarachnoid hemorrhage	Other occupants

46 Case 1998-48-94

Summary:

V1 WAS TRAVELING NORTH ON A TWO-LANED TWO-WAY MUNICIPAL ROADWAY. V1 MADE A LEFT TURN (WEST) ONTO AN INTERSECTING FOUR LANED PHYSICALLY DIVIDED TWO-WAY MUNICIPAL ROADWAY. IT HAD BEEN RAINING HEAVILY EARLIER AND WAS SLIGHTLY RAINING; WHICH ALLOWED WATER TO BUILD IN THE INTERSECTION. AS V1 REACHED TO PEAK OF ITS TURN IT HYDROPLANED AND VEERED TO THE RIGHT(NORTH). THE DRIVER STEERED LEFT IN AN ATTEMPT TO REGAIN CONTROL. V1 CONTACTED THE CURB AND EXITED THE ROADWAY ON THE RIGHT. V1 THEN TRAVELED DOWN AN EMBANKMENT YAWING WITH THE RF LEADING. V1 CONTACTED SEVERAL SMALL TREES ON THE WAY DOWN. V1, ONCE REACHING THE BOTTOM BEGAN UPHILL ON THE OPPOSITE BANK. THE DRIVER APPARENTLY STEERED LEFT (WEST) AGAIN RIDING ALONG THE SIDE OF THE OPPOSITE EMBANKMENT. V1 TRAVELED BACK DOWN TO THE BOTTOM AND ACROSS IT WHERE IT STRUCK TWO SMALL TREES AND CAME TO REST FACING IN A SOUTHWESTERLY DIRECTION. THE RESTRAINED DRIVER OF V1 WAS NOT REPORTED INJURED AND WAS NOT TRANSPORTED OR TREATED. V1 WAS TOWED DUE TO DISABLING DAMAGE.



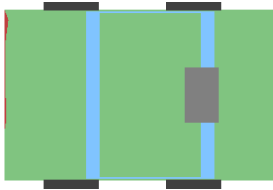
Vehicle	Body type	Make	Model	YearOcc.	Age	Occupant's sex	Maximum known occupant ais
1	4-DR SEDAN/HDTOP	Oldsmobile	Cutlass RWD	1986	20	FEMALE-NOT PREG	0=None

Occupant: 1998-48-94-1-1



Fire Information

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



Pre-Crash Environment

Traffic Flow	DVDED/W/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	RAIN
Relation to Intersection	INTERSECTION REL
Traffic Control Device	
Police Reported Alcohol Presence	No ALCOHOL
Alcohol Test (< 95 indicates BAC 0.xx)	0

Crash Severity

Nr. Quarter Turns	No rollover
Impact Speed	< 0.5KMPH
Total, Longitudal, and Lateral δV	< 0.5 KMPH < 0.5 KMPH < 0.5 KMPH
Est. δV with sequence number	MINOR 5
CDC	12 F Z L W 1
Damage (C1-C6)	3 2 2 2 2 5
Crush (L and D)	173 32
Object Contacted 1	LARGE TREE
Object Contacted 2	BUSH

NASS Weighting Factor

Weighting factor	9649.0231102
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Rollover Characteristics

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

Vehicle Factors

Make-Model	Oldsmobile Cutlass RWD
Year	1986
Class	PASSENGER CAR
Body Type	4-DR SEDAN/HDTOP
Weight	146

Pre-Crash Driver Data

Accident Type	2
Pre-event Movement	GOING STRAIGHT
Critical Pre-crash Event	POOR ROAD CONDIT
Attempted Avoidance Manuever	STEERING LEFT
Pre-impact Stability	LATERAL SKID-CLK
Pre-impact Location	Left TRAVEL LANE

DRIVER Factors

Age	20	Height	168	Weight	73
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

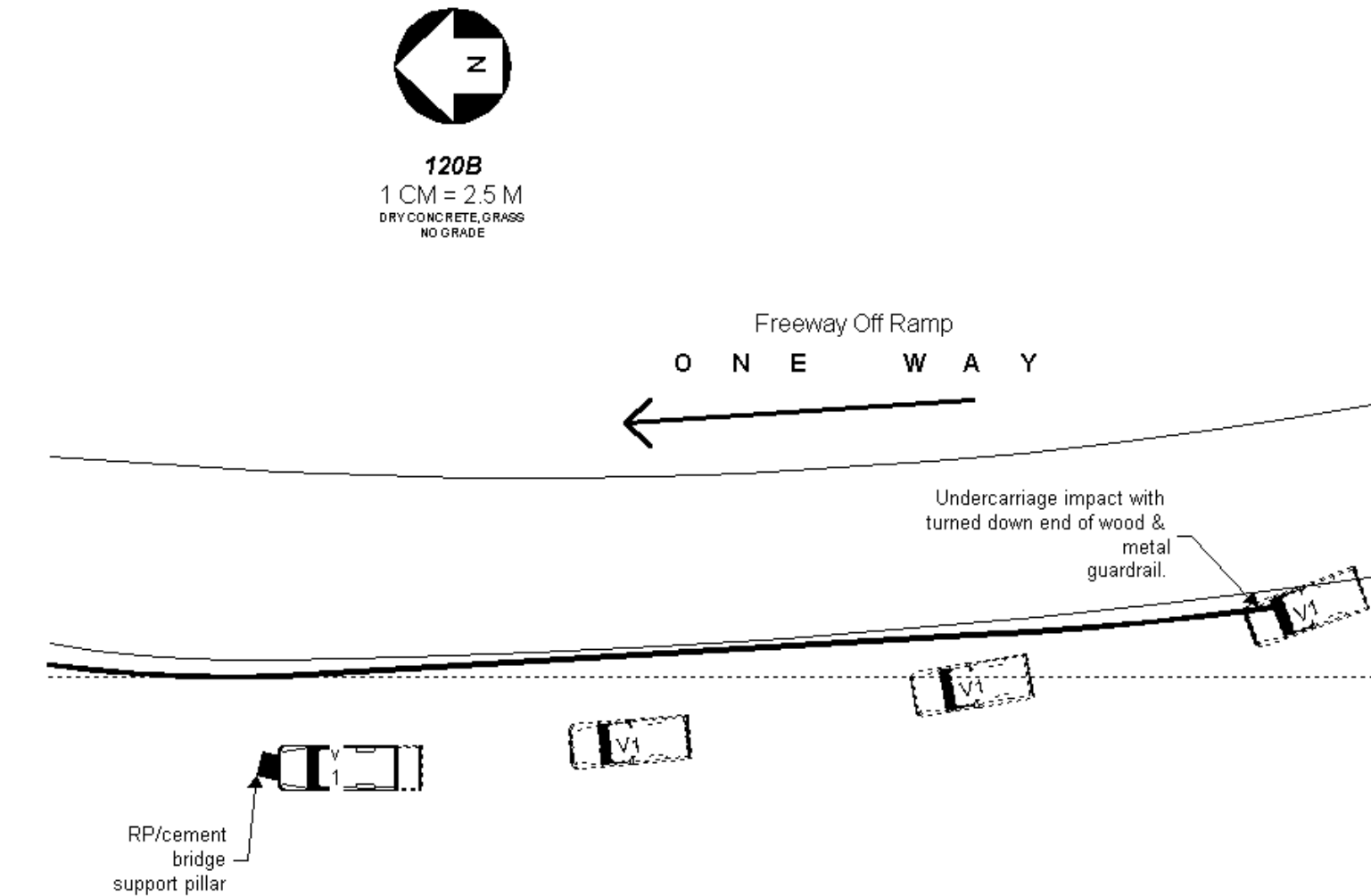
Occupant	1998-48-94-1-1
MAIS	0=None
Seat Position	Front left side

AIS Level	Injury Description	Contacts
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47 Case 1998-49-120

Summary:

VEHICLE 1 WAS INITIALLY TRAVELING WEST IN A ONE WAY EXPRESSWAY RAMP. THE RAMP CURVES RIGHT TO THE NORTH AND THE VEHICLE DEPARTED THE ROAD TO THE LEFT. THE FRONT AND/OR UNDERCARRIAGE COLLIDED WITH THE TURNED DOWN END OF A STEEL GUARDRAIL AND CONTINUED OFF THE ROAD. THE FRONT THEN COLLIDED WITH A CONCRETE BRIDGE PILLAR. THE DRIVER WAS FATALY INJURED AND THE VEHICLE WAS TOWED.



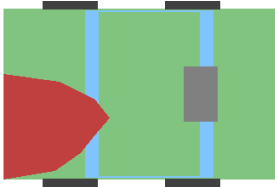
Vehicle	Body type	Make	Model	Year	Occ.#	Age	Occupant's sex	Maximum known occupant ais
1	LARGE PICKUP	Chevrolet	C/K-series Pickup	1993	1	20	MALE	6=Maximum

Occupant: 1998-49-120-1-1



Fire Information

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



Crash Severity

Nr. Quarter Turns	No rollover
Impact Speed	998
Total, Longitudal, and Lateral δV	118 -118 < 0.5 KMPH
Est. δV with sequence number	DELTA V CODED 2
CDC	12 F D A W 7
Damage (C1-C6)	75 113 134 155 134 82
Crush (L and D)	156 2
Object Contacted 1	BRIDGE
Object Contacted 2	Other BARRIER

NASS Weighting Factor

Weighting factor	4.0365628874
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Rollover Characteristics

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

Pre-Crash Environment

Traffic Flow	ONE WAY
Number of Travel Lanes	ONE
Roadway Alignment	CURVE RIGHT
Roadway Profile	LEVEL
Roadway Surface Type	CONCRETE
Roadway Surface Condition	DRY
Light Conditions	DARK/LIGHTED
Atmospheric Conditions	No ADVERSE COND
Relation to Intersection	INTERCHANGE REL
Traffic Control Device	
Police Reported Alcohol Presence	ALCOHOL PRESENT
Alcohol Test (< 95 indicates BAC 0.xx)	25

Vehicle Factors

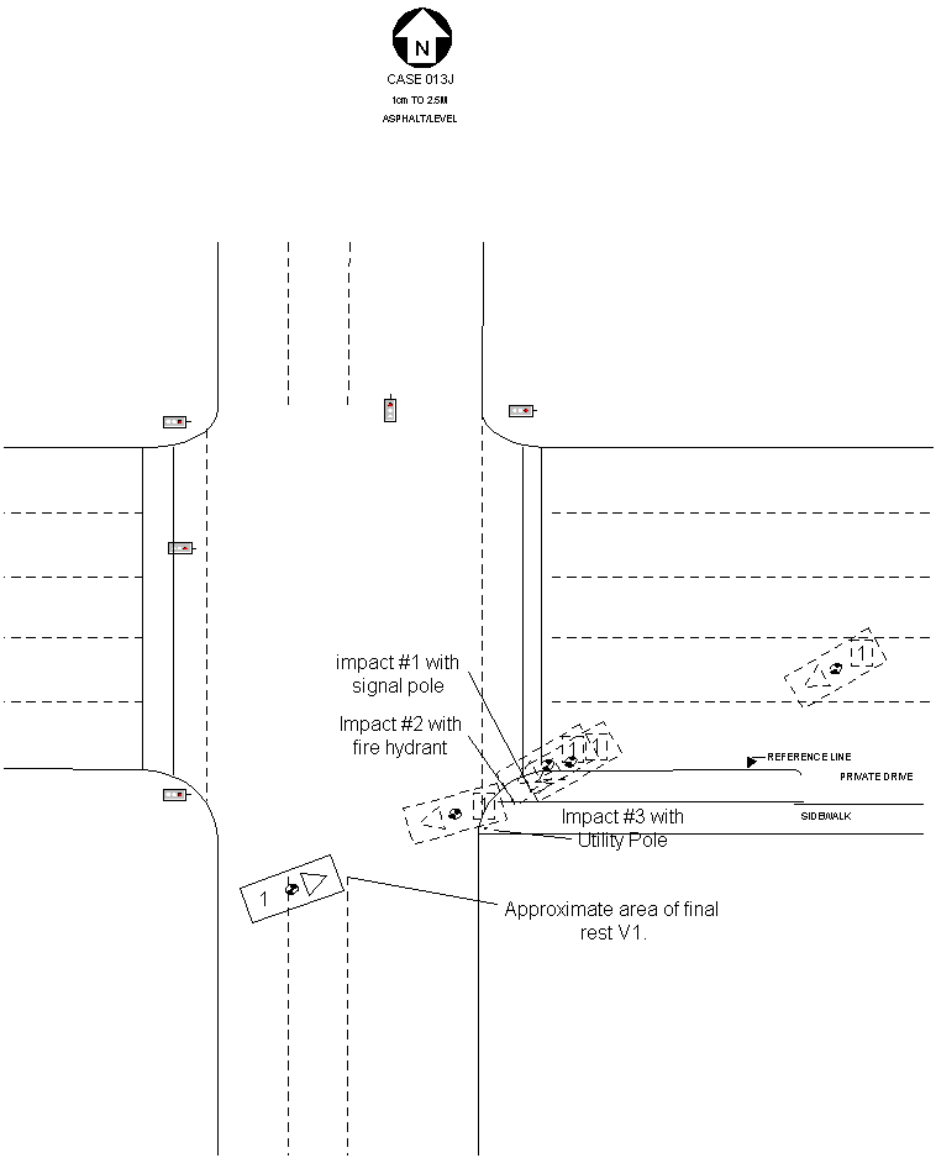
Make-Model	Chevrolet C/K-series Pickup
Year	1993
Class	TRUCK
Body Type	LARGE PICKUP
Weight	171

Pre-Crash Driver Data				AIS Level	Injury Description	Contacts
Accident Type	6					
Pre-event Movement	NEGOTIATE CURVE			6=Maximum	Brain stem laceration	Head restraint
Critical Pre-crash Event	OFF EDGE-LEFT					
Attempted Avoidance Manuever	No DRIVER			5=Critical	Cerebral contusions, multiple, bilateral, extensive	Steering comb
Pre-impact Stability	TRACKING					
Pre-impact Location	DEPARTED ROADWAY			3=Serious	Cerebral subarachnoid hemorrhage	Steering comb
DRIVER Factors				3=Serious	Cerebral subarachnoid hemorrhage	Steering comb
Age 20	Height	180	Weight 88	4=Severe	Cerebral edema, moderate (compressed ventricles&cisterns)	Steering comb
Gender		MALE				
Ejection		No EJECTION				
Ejection Area		No EJECTION		5=Critical	Cerebral subdural hematoma, small (<50ccs), bilateral	Steering comb
Entrapment		ENTRAPPED				
Restraint Factors				5=Critical	Brainstem contusion	Head restraint
				2=Moderate	Hyoid bone fracture	Steering rim
				2=Moderate	Laryngeal laceration without perforation, mucosal tear	Steering rim
Restrain		None used/avail				
AOPS		NO				
Airbag Deployment		Not EQUIP/AVAIL		3=Serious	Femur fracture NFS	Steering rim
Airbag Deployment - 1 st Seat		Not EQUIP/AVAIL		3=Serious	Femur fracture NFS	Steering rim
Airbag Deployment - Oth Seat		Not EQUIP W/ OTH		3=Serious	>3 rib fractures one side & <3 other side, with stable chest	Seat, back
Injuries				3=Serious	Hepatic laceration, moderate (>3cms deep, EBL>204=Severe	Myocardial contusion, severe
Occupant		1998-49-120-1-1				
MAIS		6=Maximum				
Seat Position		Front left side		Steering comb		
				1=Minor	Facial skin abrasion	Steering comb
				1=Minor	297402	Steering comb
				1=Minor	297402	Steering comb
				1=Minor	Facial skin laceration, minor	Steering comb
				1=Minor	Facial skin contusion	Steering comb
				1=Minor	Facial skin laceration, minor	Steering comb
				1=Minor	Scalp abrasion	Sterring hub
				1=Minor	Scalp contusion	Steering comb
				1=Minor	Scalp contusion	Steering comb
				1=Minor	Neck skin abrasion	Steering comb
				1=Minor	Neck skin contusion (hematoma)	Steering comb
				1=Minor	Thoracic skin abrasion	Steering comb
				1=Minor	Upper extremity skin abrasion	Left apnel
				1=Minor	Leg skin contusion (hematoma)	Seat, back
				1=Minor	Leg skin contusion (hematoma)	Steering rim
				1=Minor	Leg skin contusion (hematoma)	Left apnel
				1=Minor	Leg skin abrasion	Left apnel
				1=Minor	Leg skin abrasion	Floor
				1=Minor	Leg skin abrasion	Floor

48 Case 1998-49-13

Summary:

VEHICLE 1 EASTBOUND ON A 5 LANE UNDIVIDED ROADWAY WITH REVERSIBLE LANES DEPARTED THE ROADWAY TO THE LEFT, CROSSED A CONCRETE SIDEWALK AND COLLIDED HEAD ON WITH A SIGNAL LIGHT POLE WITH CONCRETE BASE. VEHICLE 1 THEN ROTATED CLOCKWISE EJECTING OCCUPANT 2 THROUGH THE RIGHT FRONT DOOR. THE VEHICLE CONTINUED ROTATING CLOCKWISE, COLLIDING LEFT FRONT WITH A FIRE HYDRANT AND LEFT REAR WITH A UTILITY POLE. THE VEHICLE WAS TOWED DUE TO DAMAGE. THE THREE OCCUPANTS WERE TRANSPORTED WITH A, B, AND C INJURIES..



Vehicle	Body type	Make	Model	Year	Occ.#	Age	Occupant's sex	Maximum known occupant ais
1	LARGE UTILITY	Ford	Expedition	1997	1	19	MALE	7=Unk. sev.
1	LARGE UTILITY	Ford	Expedition	1997	2	19	MALE	7=Unk. sev.
1	LARGE UTILITY	Ford	Expedition	1997	3	24	MALE	7=Unk. sev.

Occupant: 1998-49-13-1-1

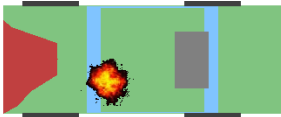


Fire Information

Fire Occurence	Major fire
Fire Origin	Instrument panel
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

Rollover Characteristics

Number of Events	4
Rollover Initiation Type	No rollover
Location of Rollover Initiation	No rollover
Rollover Initiation Object	No rollover
Contacted	
Location on Vehicle where	No rollover
Principal Tripping Force was Applied	
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 1
CDC	12 F D E W 4
Damage (C1-C6)	26 52 99 102 100 15
Crush (L and D)	174 -8
Object Contacted 1	LARGE POLE
Object Contacted 2	FIRE HYDRANT

Pre-Crash Environment

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

Vehicle Factors

Make-Model	Ford Expedition
Year	1997
Class	PASSENGER CAR
Body Type	LARGE UTILITY
Weight	218

NASS Weighting Factor

Weighting factor	6.6752735233
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Pre-Crash Driver Data

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

DRIVER Factors

Age	19	Height	158	Weight	64
Gender			MALE		
Ejection			No EJECTION		
Ejection Area			No EJECTION		
Entrapment			Not ENTRAPPED		

Restraint Factors

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

Injuries

Occupant	1998-49-13-1-1
MAIS	7=Unk. sev.
Seat Position	Front left side

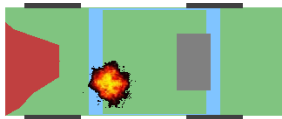
AIS Level	Injury Description	Contacts
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Occupant: 1998-49-13-1-2



Fire Information

Fire Occurrence	Major fire
Fire Origin	Instrument panel
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



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 4
Damage (C1-C6)	26 52 99 102 100 15
Crush (L and D)	174 -8
Object Contacted 1	LARGE POLE
Object Contacted 2	FIRE HYDRANT

NASS Weighting Factor

Weighting factor	6.6752735233
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Rollover Characteristics

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

Pre-Crash Environment

Traffic Flow	Not DIVIDED
Number of Travel Lanes	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 Expedition
Year	1997
Class	PASSENGER CAR
Body Type	LARGE UTILITY
Weight	218

Pre-Crash Driver Data

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

PASSENGER Factors

Age	19	Height	0	Weight	0
Gender			MALE		
Ejection			EJECTION UNK DEG		
Ejection Area			Right FRONT		
Entrapment			Not ENTRAPPED		

Restraint Factors

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

Injuries

Occupant	1998-49-13-1-2
MAIS	7=Unk. sev.
Seat Position	Front right side

AIS Level	Injury Description	Contacts
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Occupant: 1998-49-13-1-3

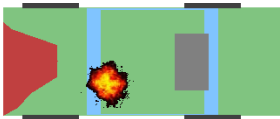


Fire Information

Fire Occurrence	Major fire
Fire Origin	Instrument panel
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

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



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 4
Damage (C1-C6)	26 52 99 102 100 15
Crush (L and D)	174 -8
Object Contacted 1	LARGE POLE
Object Contacted 2	FIRE HYDRANT

Pre-Crash Environment

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

Vehicle Factors

Make-Model	Ford Expedition
Year	1997
Class	PASSENGER CAR
Body Type	LARGE UTILITY
Weight	218

NASS Weighting Factor

Weighting factor	6.6752735233
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Pre-Crash Driver Data

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

PASSENGER Factors

Age	24	Height	0	Weight	0
Gender			MALE		
Ejection			No EJECTION		
Ejection Area			No EJECTION		
Entrapment			Not ENTRAPPED		

Restraint Factors

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

Injuries

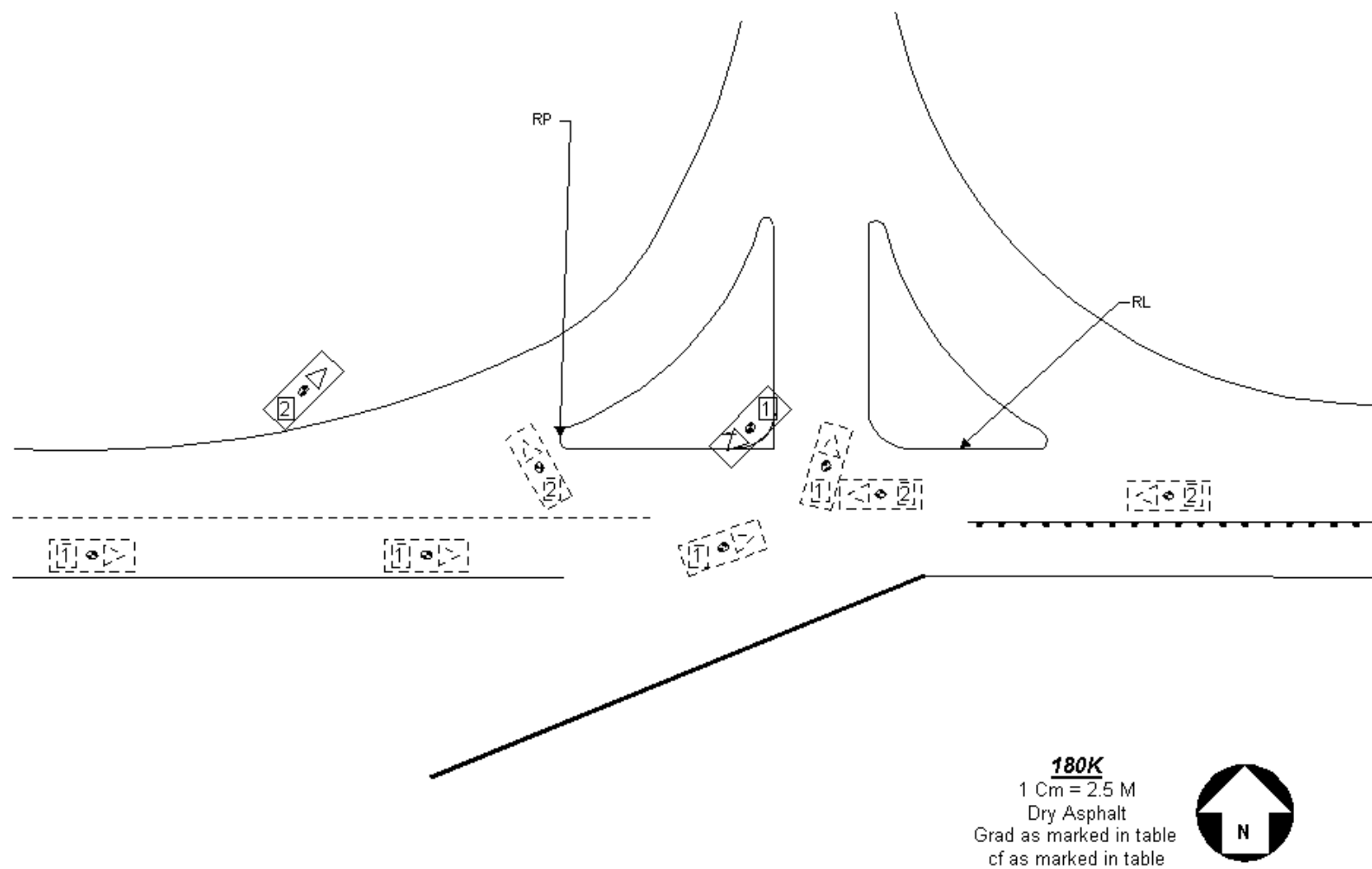
Occupant	1998-49-13-1-3
MAIS	7=Unk. sev.
Seat Position	Second right

AIS Level	Injury Description	Contacts
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49 Case 1998-49-180

Summary:

Vehicle 1 was initially traveling east on a two lane, unidivided roadway and was turning north into a private driveway. Vehicle 2 was traveling west on a divided portion of the same roadway. As Vehicle 1 was making it's left turn, the front of Vehicle 2 collided with the right side of vehicle 1, which began to rotate clockwise. V1 then collided with a curb and a sign post. Meanwhile, Vehicle 2 went off the roadway to the right and rolled an undetermined number of times. The driver and passenger of Vehicle 1 were transported and the vehicle was towed. The driver of Vehicle 2 was towed and the driver was transported.



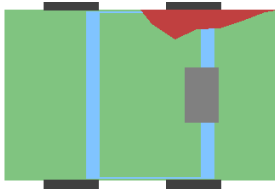
Vehicle	Body type	Make	Model	Year	Occ.#	Age	Occupant's sex	Maximum known occupant ais
1	4-DR SEDAN/HDTOP	Dodge	Spirit	1992	1	21	FEMALE-NOT PREG	1=Minor
1	4-DR SEDAN/HDTOP	Dodge	Spirit	1992	2	31	MALE	1=Minor
2	COMPACT PICKUP	Chevrolet	S-10	1992	1	74	MALE	7=Unk. sev.

Occupant: 1998-49-180-1-1



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	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	DARK/LIGHTED
Atmospheric Conditions	No ADVERSE COND
Relation to Intersection	DRIVEWAY RELATED
Traffic Control Device	
Police Reported Alcohol Presence	No ALCOHOL
Alcohol Test (< 95 indicates BAC 0.xx)	0

Crash Severity

Nr. Quarter Turns	No rollover
Impact Speed	998
Total, Longitudal, and Lateral δV	23 -4 -23
Est. δV with sequence number	DELTA V CODED 1
CDC	3 R Z A W 3
Damage (C1-C6)	19 42 27 26 14 2
Crush (L and D)	200 -153
Object Contacted 1	VEHICLE NO. 2
Object Contacted 2	Oth FIXED OBJECT

NASS Weighting Factor

Weighting factor	6.0092534211
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Rollover Characteristics

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

Vehicle Factors

Make-Model	Dodge Spirit
Year	1992
Class	PASSENGER CAR
Body Type	4-DR SEDAN/HDTOP
Weight	126

Pre-Crash Driver Data

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

DRIVER Factors

Age	21	Height	180	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	1998-49-180-1-1
MAIS	1=Minor
Seat Position	Front left side

AIS Level	Injury Description	Contacts
1=Minor	Facial skin laceration, minor	Oth interior obj
1=Minor	Leg skin contusion (hematoma)	Belt webb/buckle
1=Minor	Leg skin contusion (hematoma)	Knee bolster
1=Minor	Upper extremity skin contusion	Seat, back

Occupant: 1998-49-180-1-2



Fire Information

Fire Occurrence	No fire
Fire Origin	No fire
Location of Fuel Leakage	Filler neck
Type of Fuel Tank	Metallic
Fuel Tank Location	Forward of rear axle, 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	ASPHALT
Roadway Surface Condition	DRY
Light Conditions	DARK/LIGHTED
Atmospheric Conditions	No ADVERSE COND
Relation to Intersection	DRIVEWAY RELATED
Traffic Control Device	
Police Reported Alcohol Presence	No ALCOHOL
Alcohol Test (< 95 indicates BAC 0.xx)	0

Crash Severity

Nr. Quarter Turns	No rollover
Impact Speed	998
Total, Longitudal, and Lateral δV	23 -4 -23
Est. δV with sequence number	DELTA V CODED 1
CDC	3 R Z A W 3
Damage (C1-C6)	19 42 27 26 14 2
Crush (L and D)	200 -153
Object Contacted 1	VEHICLE NO. 2
Object Contacted 2	Oth FIXED OBJECT

NASS Weighting Factor

Weighting factor	6.0092534211
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Rollover Characteristics

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

Vehicle Factors

Make-Model	Dodge Spirit
Year	1992
Class	PASSENGER CAR
Body Type	4-DR SEDAN/HDTOP
Weight	126

Pre-Crash Driver Data

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

PASSENGER Factors

Age	31	Height	183	Weight	82
Gender			MALE		
Ejection			No EJECTION		
Ejection Area			No EJECTION		
Entrapment			Not ENTRAPPED		

Restraint Factors

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

Injuries

Occupant	1998-49-180-1-2
MAIS	1=Minor
Seat Position	Front right side

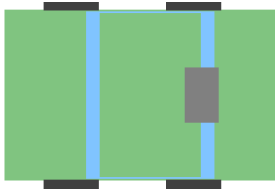
AIS Level	Injury Description	Contacts
1=Minor	Abdominal skin contusion	Right hardware
7=Unk. sev.	Blunt chest trauma	Unknown SOURCE
7=Unk. sev.	Abdominal injury, blunt	Unknown SOURCE

Occupant: 1998-49-180-2-1



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	26 -26 < 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	6.0092534211
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Rollover Characteristics

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

Pre-Crash Environment

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

Vehicle Factors

Make-Model	Chevrolet S-10
Year	1992
Class	TRUCK
Body Type	COMPACT PICKUP
Weight	125

Pre-Crash Driver Data

Accident Type	69
Pre-event Movement	GOING STRAIGHT
Critical Pre-crash Event	OPP DIR-OVR LEFT
Attempted Avoidance Maneuver	No DRIVER
Pre-impact Stability	No DRIVER
Pre-impact Location	STAYED IN LANE

DRIVER Factors

Age	74	Height	178	Weight	88
Gender			MALE		
Ejection			No EJECTION		
Ejection Area			No EJECTION		
Entrapment			Not ENTRAPPED		

Restraint Factors

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

Injuries

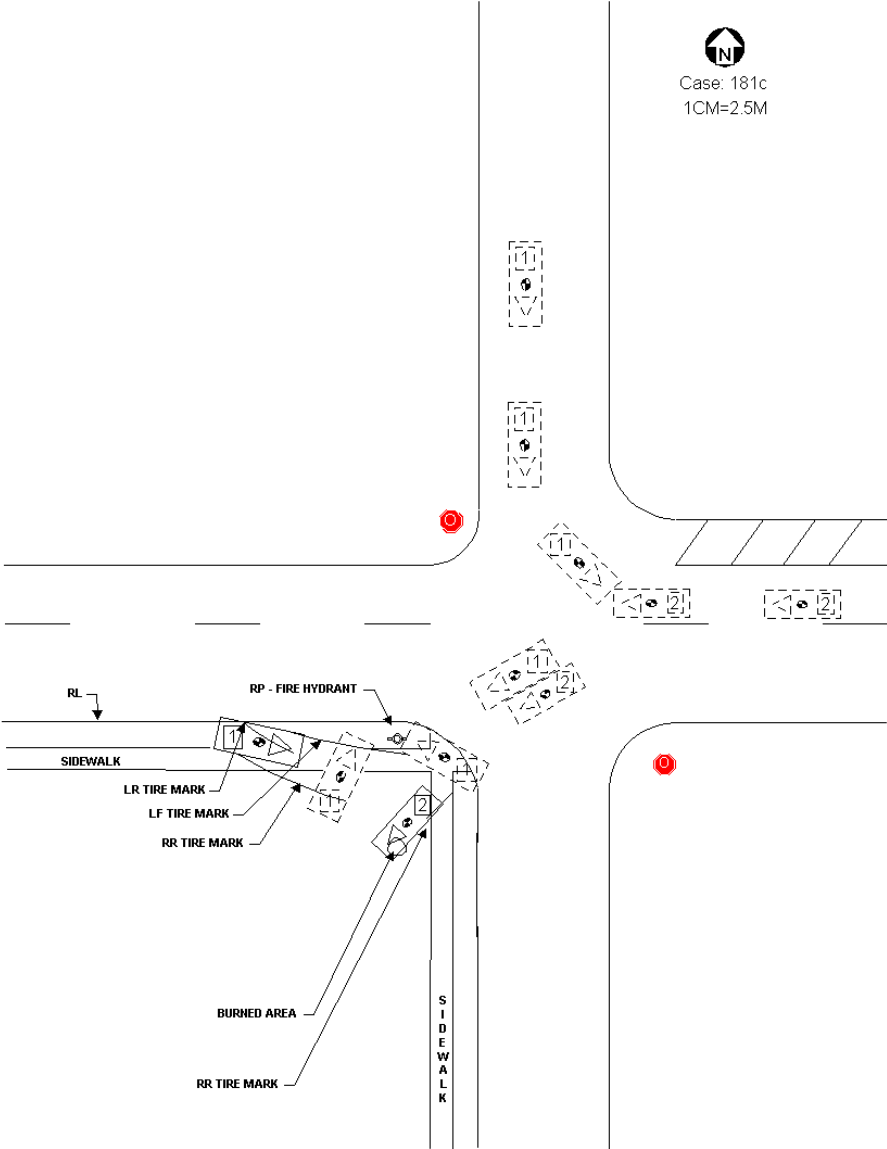
Occupant	1998-49-180-2-1
MAIS	7=Unk. sev.
Seat Position	Front left side

AIS Level	Injury Description	Contacts
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50 Case 1998-49-181

Summary:

VEHICLE 1 WAS TRAVELING SOUTH ON A TWO LANE TWO-WAY ASPHALT ROADWAY AND STARTING FROM A STOP SIGN AT AN INTERSECTION. VEHICLE 2 WAS TRAVELING WEST ON A TWO LANE TWO-WAY ASPHALT ROADWAY AND APPROACHING THE SAME INTERSECTION. WHILE VEHICLE 1 WAS TURNING LEFT AT THE INTERSECTION, THE FRONT OF VEHICLE 1 IMPACTED THE FRONT OF VEHICLE 2. THE TWO VEHICLES THEN SIDESLAPPED WITH THE LEFT SIDE OF VEHICLE 1 IMPACTING THE RIGHT SIDE OF VEHICLE 2. VEHICLE 1 DEPARTED THE ROADWAY ON THE SOUTHWEST CORNER AND IMPACTED THE FRON TO A FIRE HYDRANT. VEHICLE 2 ALSO DEPARTED THE ROADWAY ON THE SOUTHWEST CORNER AND CAUGHT FIRE DUE TO THE IMPACT. BOTH VEHICLES WERE TOWED AND THE DRIVER AND PASSENGER OF VEHICLE 2 WERE TRANSPORTED AND RELEASED.



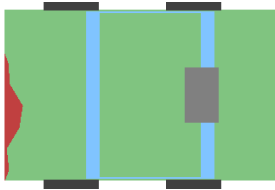
Vehicle	Body type	Make	Model	Year	Occ.#	Age	Occupant's sex	Maximum known occupant ais
1	LARGE PICKUP	Dodge	Ram 1500 P/U	1997	1	19	MALE	0=None
2	4-DR SEDAN/HDTOP	Mitsubishi	Galant	1990	1	21	MALE	1=Minor
2	4-DR SEDAN/HDTOP	Mitsubishi	Galant	1990	2	20	MALE	1=Minor

Occupant: 1998-49-181-1-1



Fire Information

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



Pre-Crash Environment

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

Crash Severity

Nr. Quarter Turns	No rollover
Impact Speed	998
Total, Longitudal, and Lateral δV	23 -22 8
Est. δV with sequence number	DELTA V CODED 1
CDC	11 F Y E W 2
Damage (C1-C6)	7 3 22 27 8 6
Crush (L and D)	187 -44
Object Contacted 1	VEHICLE NO. 2
Object Contacted 2	VEHICLE NO. 2

NASS Weighting Factor

Weighting factor	12.380723691
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Rollover Characteristics

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

Vehicle Factors

Make-Model	Dodge Ram 1500 P/U
Year	1997
Class	TRUCK
Body Type	LARGE PICKUP
Weight	184

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	19	Height	188	Weight	93
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	Not EQUIP W/ OTH

Injuries

Occupant	1998-49-181-1-1
MAIS	0=None
Seat Position	Front left side

AIS Level	Injury Description	Contacts
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Occupant: 1998-49-181-2-1



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	TWO
Roadway Alignment	STRAIGHT
Roadway Profile	LEVEL
Roadway Surface Type	ASPHALT
Roadway Surface Condition	DRY
Light Conditions	DARK/LIGHTED
Atmospheric Conditions	No ADVERSE COND
Relation to Intersection	INTERSECTION REL
Traffic Control Device	
Police Reported Alcohol Presence	No ALCOHOL
Alcohol Test (< 95 indicates BAC 0.xx)	0

Crash Severity

Nr. Quarter Turns	No rollover
Impact Speed	998
Total, Longitudal, and Lateral δV	33 -26 -22
Est. δV with sequence number	DELTA V CODED 1
CDC	81 F D E W 2
Damage (C1-C6)	17 22 29 41 34 29
Crush (L and D)	145 20
Object Contacted 1	VEHICLE NO. 1
Object Contacted 2	VEHICLE NO. 1

NASS Weighting Factor

Weighting factor	12.380723691
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Rollover Characteristics

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

Vehicle Factors

Make-Model	Mitsubishi Galant
Year	1990
Class	PASSENGER CAR
Body Type	4-DR SEDAN/HDTOP
Weight	121

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	21	Height	158	Weight	41
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	1998-49-181-2-1
MAIS	1=Minor
Seat Position	Front left side

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

Occupant: 1998-49-181-2-2



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, behind rear axle
Fuel Tank Damage	No damage
Fuel Type	Gasoline



Pre-Crash Environment

Traffic Flow	Not DIVIDED
Number of Travel Lanes	TWO
Roadway Alignment	STRAIGHT
Roadway Profile	LEVEL
Roadway Surface Type	ASPHALT
Roadway Surface Condition	DRY
Light Conditions	DARK/LIGHTED
Atmospheric Conditions	No ADVERSE COND
Relation to Intersection	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	33 -26 -22
Est. δV with sequence number	DELTA V CODED 1
CDC	81 F D E W 2
Damage (C1-C6)	17 22 29 41 34 29
Crush (L and D)	145 20
Object Contacted 1	VEHICLE NO. 1
Object Contacted 2	VEHICLE NO. 1

NASS Weighting Factor

Weighting factor	12.380723691
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Rollover Characteristics

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

Vehicle Factors

Make-Model	Mitsubishi Galant
Year	1990
Class	PASSENGER CAR
Body Type	4-DR SEDAN/HDTOP
Weight	121

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

PASSENGER Factors

Age	20	Height	0	Weight	0
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

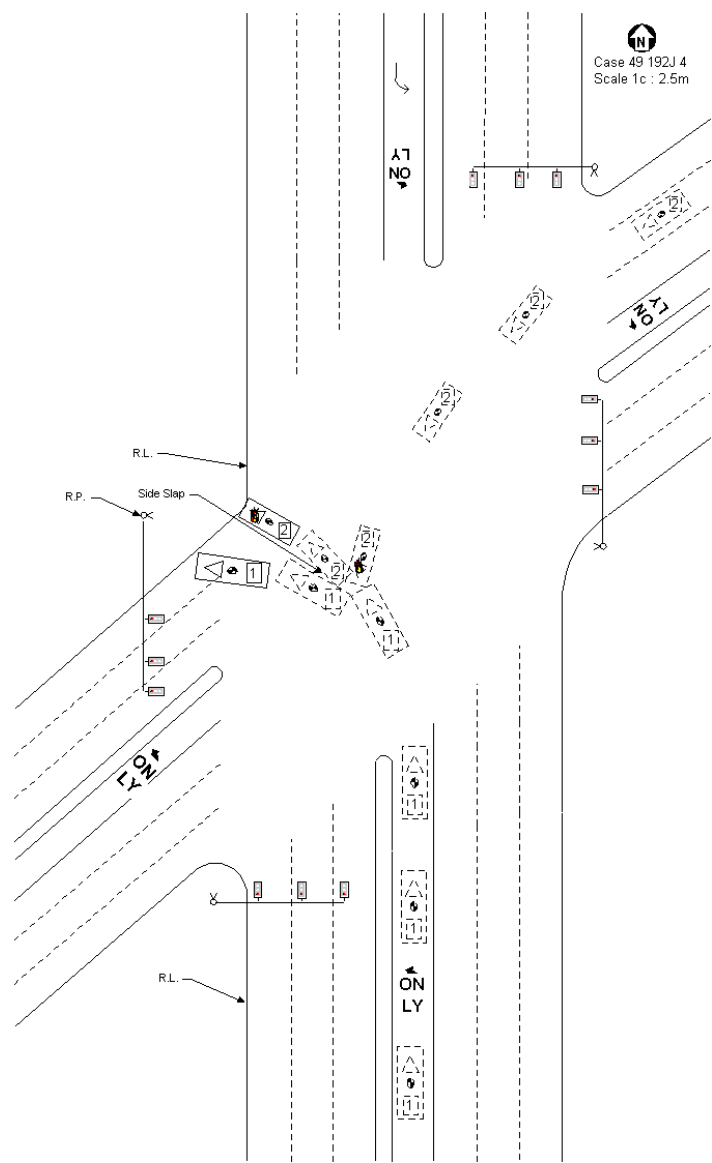
Occupant	1998-49-181-2-2
MAIS	1=Minor
Seat Position	Front right side

AIS Level	Injury Description	Contacts
1=Minor	Wrist (carpus) joint sprain	Right panel
1=Minor	Leg skin abrasion	Right panel
1=Minor	Leg skin contusion (hematoma)	Right panel
1=Minor	Scalp abrasion	Right B pillar
1=Minor	Acute cervical spine strain without fracture or dislocation	Other noncontact

51 Case 1998-49-192

Summary:

Vehicle #1 was north bound in the 4th lane of a dry four lane (including left turn lane) cement divided island, on a urban street, making a left turn at an intersection. Vehicle #2 was traveling west bound on a two lane, 4 laned of (including left turn lane) divided urban street passing through the same intersection. Vehicle #1 impacted front right to left front of Vehicle #2. Vehicle #2 after collision, immediately was engulfed in flames, engine fire. Both vehicles then rotated to where Vehicle #1 impacted right passenger near the left back quarter of Vehicle #2. Both vehicles then continued in a north westerly direction, Vehicle #1 coming to rest, facing west in the 1st west bound lane at the northwest corner of the intersection. Vehicle #2 came to rest facing north west in the 1st lane of south west traffic, also at the north west corner of the intersection. Both vehicles were towed due to damage. The driver of vehicle #1 escaped injury, but the single passenger was transported to a local truma hospital, and also the the driver, and sole occupant, of vehicle #2.



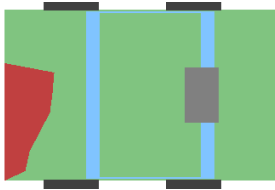
Vehicle	Body type	Make	Model	Year	Occ. Age	Occupant's sex	Maximum known occupant ais
1	4-DR SEDAN/HDTOP	Lincoln	TownCar/Continental	1990	57	MALE	0=None
1	4-DR SEDAN/HDTOP	Lincoln	TownCar/Continental	1990	48	MALE	7=Unk. sev.
2	COMPACT UTILITY	Chevrolet	S-10 Blazer	1992	41	MALE	7=Unk. sev.

Occupant: 1998-49-192-1-1



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	43 -41 -15
Est. δV with sequence number	DELTA V CODED 1
CDC	81 F D E W 3
Damage (C1-C6)	31 37 52 67 71 73
Crush (L and D)	173 0
Object Contacted 1	VEHICLE NO. 2
Object Contacted 2	VEHICLE NO. 2

NASS Weighting Factor

Weighting factor	12.380723691
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Rollover Characteristics

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

Pre-Crash Environment

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

Vehicle Factors

Make-Model	Lincoln TownCar/Continental
Year	1990
Class	PASSENGER CAR
Body Type	4-DR SEDAN/HDTOP
Weight	183

Pre-Crash Driver Data

Accident Type	76
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	57	Height	168	Weight	81
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	1998-49-192-1-1
MAIS	0=None
Seat Position	Front left side

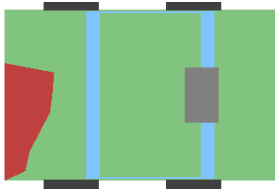
AIS Level	Injury Description	Contacts
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Occupant: 1998-49-192-1-2



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



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	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	43 -41 -15
Est. δV with sequence number	DELTA V CODED 1
CDC	81 F D E W 3
Damage (C1-C6)	31 37 52 67 71 73
Crush (L and D)	173 0
Object Contacted 1	VEHICLE NO. 2
Object Contacted 2	VEHICLE NO. 2

NASS Weighting Factor

Weighting factor	12.380723691
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Rollover Characteristics

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

Vehicle Factors

Make-Model	Lincoln TownCar/Continental
Year	1990
Class	PASSENGER CAR
Body Type	4-DR SEDAN/HDTOP
Weight	183

Pre-Crash Driver Data

Accident Type	76
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	48	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	1998-49-192-1-2
MAIS	7=Unk. sev.
Seat Position	Front right side

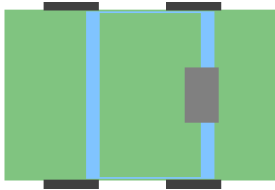
AIS Level	Injury Description	Contacts
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Occupant: 1998-49-192-2-1



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	56 -49 28
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	12.380723691
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Rollover Characteristics

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

Pre-Crash Environment

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

Vehicle Factors

Make-Model	Chevrolet S-10 Blazer
Year	1992
Class	PASSENGER CAR
Body Type	COMPACT UTILITY
Weight	144

Pre-Crash Driver Data

Accident Type	77
Pre-event Movement	GOING STRAIGHT
Critical Pre-crash Event	CROSS OVER INTER
Attempted Avoidance Maneuver	No DRIVER
Pre-impact Stability	No DRIVER
Pre-impact Location	STAYED IN LANE

DRIVER Factors

Age	41	Height	185	Weight	104
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

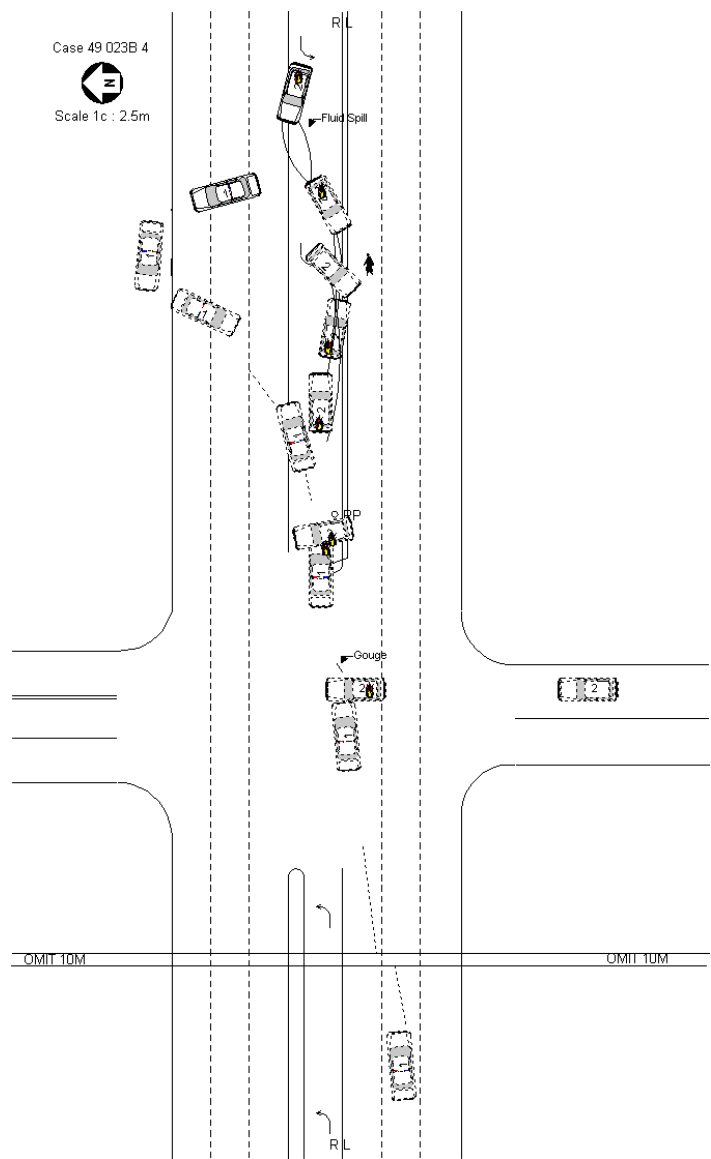
Occupant	1998-49-192-2-1
MAIS	7=Unk. sev.
Seat Position	Front left side

AIS Level	Injury Description	Contacts
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52 Case 1998-49-23

Summary:

Vehicle 1 was traveling EB in the 3rd lane of a dry asphalt divided 4-lane (including left turn lane) urban street crossing through an intersection. V2 was NB in the 1st lane of a 2-lane undivided urban asphalt street entering the same intersection. V1 braked with lock-up but impacted front distributed to the left passenger of V2, rupturing V2's gas tank, and both vehicles ignited. Both vehicles continued EB, rotating CW. V1 crossed the end of a concrete median curb, sideslapped right side to the right side of V2, then crossed the WB traffic lanes, going up on the north curb backwards, and continuing back onto the WB lanes where it came to rest facing NW blocking the first two WB lanes. V2 was pushed laterally at impact over the end of the same median curb, then impacted right passenger side to a signal pole, then rotating CW sideslapped left side to V1, then continued rotating CW, ejecting the driver and sole occupant, going back onto the median and returned to the WB lanes where it came to rest in the 4th (turning) lane, facing NW. Both vehicles were towed due to damage, and the driver of V1 was transported with non-incapacitating injuries. The driver of V2 was pronounced dead at the scene.



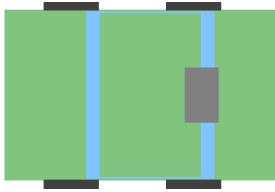
Vehicle	Body type	Make	Model	Year Occ.	Age	Occupant's sex	Maximum known occupant ais
1	4-DR SEDAN/HDTOP	Ford	Crown Victoria	1996	1	MALE	1=Minor
2	4-DR SEDAN/HDTOP	Daihatsu	Charade	1990	6	FEMALE-NOT PREG	6=Maximum

Occupant: 1998-49-23-1-1



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	6.8343921903
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Rollover Characteristics

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

Pre-Crash Environment

Traffic Flow	DVDED/NO BARRIER
Number of Travel Lanes	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	INTERSECTION REL
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	1996
Class	PASSENGER CAR
Body Type	4-DR SEDAN/HDTOP
Weight	172

Pre-Crash Driver Data

Accident Type	88
Pre-event Movement	GOING STRAIGHT
Critical Pre-crash Event	CROSS OVER INTER
Attempted Avoidance Maneuver	BRAKE W/ LOCKUP
Pre-impact Stability	LONGITUDINAL SKID
Pre-impact Location	Left TRAVEL LANE

DRIVER Factors

Age	28	Height	178	Weight	73
Gender			MALE		
Ejection			No EJECTION		
Ejection Area			No EJECTION		
Entrapment			Not ENTRAPPED		

Restraint Factors

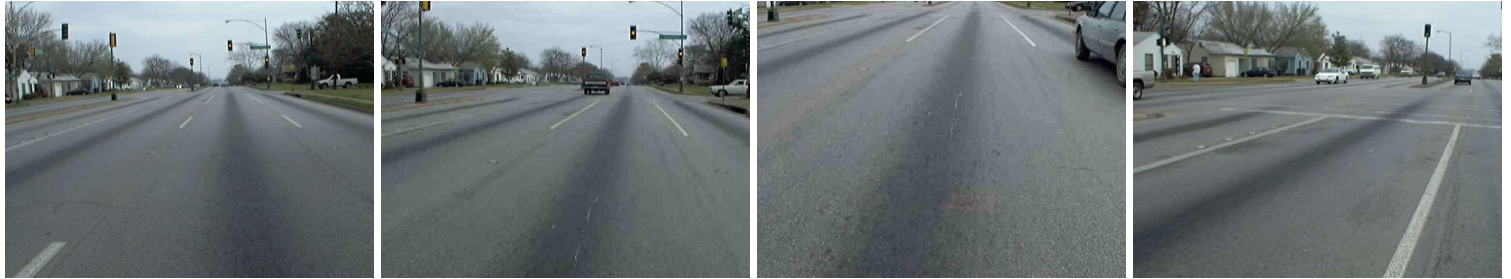
Restrain	Type unknown
AOPS	YES-RES DET
Airbag Deployment	Not EQUIP/AVAIL
Airbag Deployment - 1 st Seat	Not EQUIP/AVAIL
Airbag Deployment - Oth Seat	Not EQUIP W/ OTH Seat

Injuries

Occupant	1998-49-23-1-1
MAIS	1=Minor
Seat Position	Front left side

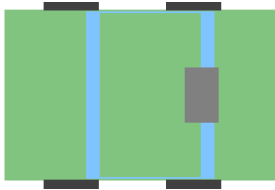
AIS Level	Injury Description	Contacts
1=Minor	292002	Fire in vehicle
1=Minor	292006	Fire in vehicle
1=Minor	Upper extremity skin abrasion	Knee bolster
1=Minor	Abdominal skin abrasion	Belt webb/buckle
1=Minor	Leg skin abrasion	Belt webb/buckle
1=Minor	Thoracic spine strain, acute without fracture or dislocation	Seat, back

Occupant: 1998-49-23-2-1



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	6.8343921903
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Rollover Characteristics

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

Pre-Crash Environment

Traffic Flow	Not DIVIDED
Number of Travel Lanes	TWO
Roadway Alignment	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	Daihatsu Charade
Year	1990
Class	PASSENGER CAR
Body Type	4-DR SEDAN/HDTOP
Weight	93

Pre-Crash Driver Data

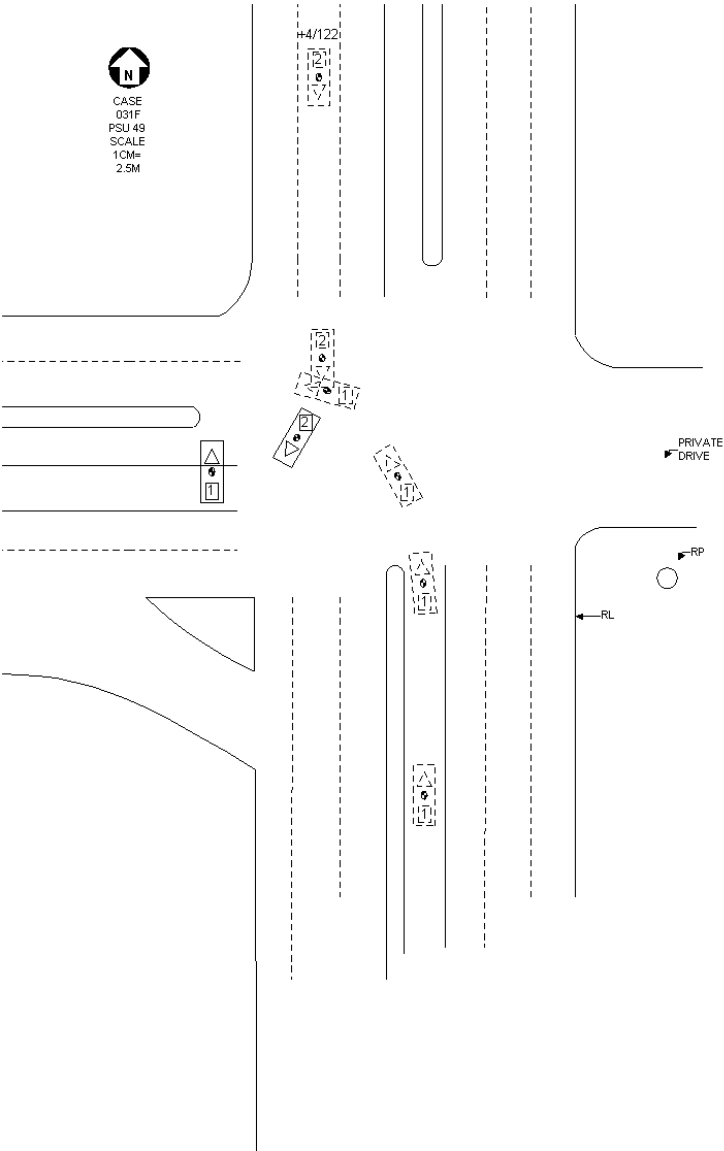
Accident Type	89
Pre-event Movement	GOING STRAIGHT
Critical Pre-crash Event	CROSS OVER INTER
Attempted Avoidance Maneuver	No DRIVER
Pre-impact Stability	No DRIVER
Pre-impact Location	STAYED IN LANE

DRIVER Factors				AIS Level	Injury Description	Contacts
Age	17	Height	155	Weight	50	
Gender			FEMALE-NOT PREG			
Ejection			COMPLETE EJECT			Unknown
Ejection Area			No EJECTION			SOURCE
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			Unknown
Airbag Deployment - Oth Seat			Not EQUIP W/ OTH			SOURCE
Injuries						
Occupant			1998-49-23-2-1			
MAIS			6=Maximum			Hepatic laceration
Seat Position			Front left side			NFS
				Unknown SOURCE		
				2=Moderate	Clavicle fracture	Unknown SOURCE
				2=Moderate	Pelvic fracture, closed	Unknown SOURCE
				2=Moderate	Pelvic fracture, closed	Unknown SOURCE
				3=Serious	Symphysis pubis separation or fracture	Unknown SOURCE
				2=Moderate	Hip joint dislocation NFS	Unknown SOURCE
				2=Moderate	Fibular head, neck, or shaft fracture	Unknown SOURCE
				2=Moderate	Tibial shaft fracture	Unknown SOURCE
				2=Moderate	Foot fracture NFS	Unknown SOURCE
				1=Minor	Facial skin abrasion	Unknown SOURCE
				1=Minor	Scalp abrasion	Unknown SOURCE
				1=Minor	Facial skin laceration, minor	Unknown SOURCE
				1=Minor	297202	Unknown SOURCE
				1=Minor	Neck skin abrasion	Unknown SOURCE
				1=Minor	Abdominal skin abrasion	Unknown SOURCE
				1=Minor	Leg skin laceration, minor	Unknown SOURCE
				1=Minor	Leg skin abrasion	Unknown SOURCE
				1=Minor	Leg skin contusion (hematoma)	Unknown SOURCE
				1=Minor	1=Minor	Unknown SOURCE

53 Case 1998-49-31

Summary:

VEH 1 IN LEFT TURN LANE OF N.BOUND, 4 LANE, DRY, LEVEL ROADWAY. VEH 2 IN LANE 2 OF S.BOUND, 4 LANE, DRY, POSITIVELY SLOPED ROADWAY. VEH 1 WAS TURNING LEFT, VEH 2 CONTACTED ITS FRONT PLANE WITH VEH 1'S RIGHT PLANE. BOTH VEHS WERE TOWED. DRIVER OF VEH 1 WAS TRANSPORTED.



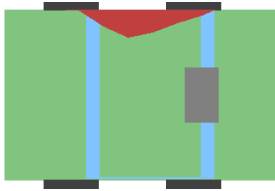
Vehicle	Body type	Make	Model	Year	Occ.#	Age	Occupant's sex	Maximum known occupant ais
1	4-DR SEDAN/HDTOP	Buick	Century	1987	1	66	FEMALE-NOT PREG	2=Moderate
2	4-DR SEDAN/HDTOP	Saturn	SL	1992	1	23	MALE	1=Minor

Occupant: 1998-49-31-1-1



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	Left side, behind rear axle
Fuel Tank Damage	Deform+seam fail
Fuel Type	Gasoline



Pre-Crash Environment

Traffic Flow	DVDED/NO BARRIER
Number of Travel Lanes	FOUR
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	Buick Century
Year	1987
Class	PASSENGER CAR
Body Type	4-DR SEDAN/HDTOP
Weight	122

Crash Severity

Nr. Quarter Turns	No rollover
Impact Speed	998
Total, Longitudal, and Lateral δV	26 -13 -22
Est. δV with sequence number	DELTA V CODED 1
CDC	2 R P E W 4
Damage (C1-C6)	0 23 40 32 18 7
Crush (L and D)	218 -30
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	194.5325451
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DRIVER Factors

Rollover Characteristics

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

Age	66	Height	175	Weight	122
Gender					FEMALE-NOT PREG
Ejection					No EJECTION
Ejection Area					No EJECTION
Entrapment					JAMMED DOOR/FIRE

Restraint Factors

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

Injuries

Occupant	1998-49-31-1-1
MAIS	2=Moderate
Seat Position	Front left side

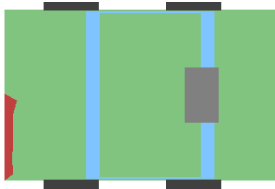
AIS Level	Injury Description	Contacts
2=Moderate	2-3 rib fractures with stable chest	Unknown SOURCE
2=Moderate	Arm, forearm, hand fracture NFS	Unknown SOURCE
1=Minor	Acute cervical spine strain without fracture or dislocation	Head restraint
1=Minor	Thoracic skin contusion	Belt webb/buckle
1=Minor	Abdominal skin contusion	Belt webb/buckle

Occupant: 1998-49-31-2-1



Fire Information

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



Pre-Crash Environment

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

Vehicle Factors

Make-Model	Saturn SL
Year	1992
Class	PASSENGER CAR
Body Type	4-DR SEDAN/HDTOP
Weight	109

Crash Severity

Nr. Quarter Turns	No rollover
Impact Speed	998
Total, Longitudal, and Lateral δV	29 -27 10
Est. δV with sequence number	DELTA V CODED 1
CDC	11 F D E W 1
Damage (C1-C6)	13 10 13 13 12 18
Crush (L and D)	128 0
Object Contacted 1	VEHICLE NO. 1
Object Contacted 2	0

Pre-Crash Driver Data

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

NASS Weighting Factor

Weighting factor	194.5325451
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DRIVER Factors

Rollover Characteristics

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

Age	23	Height	180	Weight	79
Gender			MALE		
Ejection			No EJECTION		
Ejection Area			No EJECTION		
Entrapment			Not ENTRAPPED		

Restraint Factors

Restrain	Lap belt
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

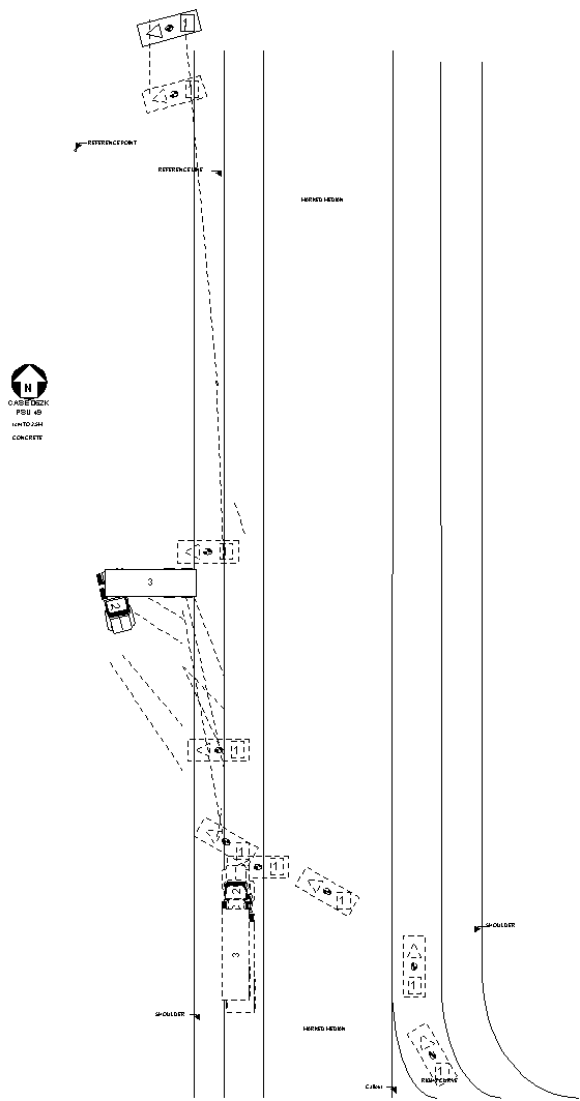
Occupant	1998-49-31-2-1
MAIS	1=Minor
Seat Position	Front left side

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

54 Case 1998-49-62

Summary:

VEHICLE 1 NORTHBOUND ON A CONCRETE SINGLE LANE RAMP, FOR UNKNOWN REASONS MADE A SHARP LEFT TURN ACROSS A MARKED MEDIAN AND ENTERED ANOTHER SINGLE LANE ROADWAY OCCUPIED BY VEHICLE 2 A TRACTOR/ TANKER. VEHICLE 2 COLLIDED FRONT TO LEFT WITH VEHICLE 1. VEHICLE 2 JACKKNIFED AND CAME TO REST ON THE LEFT SIDE OF THE ROADWAY. VEHICLE 1 CAME TO REST FARTHER NORTH WITH FRONT OFF THE SHOULDER AND REAR IN ORIGINAL LANE. BOTH VEHICLES WERE TOWED DUE TO DAMAGE. OCCUPANT 1 VEHICLE 2 WAS REPORTED AS POSSIBLY INJURED BUT REFUSED TRANSPORT. THE SINGLE OCCUPANT OF VEHICLE 1 WAS TRANSPORTED WITH INCAPACITATING INJURIES TO A TRAUMA CENTER. AFTER HOSPITALIZATION O1V1 WAS RELEASED TO A NURSING HOME. HE WAS LATER RETURNED TO THE HOSPITAL WHERE HE DIED..



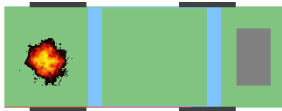
Vehicle #	Body type	Make	Model	Year	Occ.#	Age	Occupant's sex	Maximum known occupant ais
1	4-DR SEDAN/HDTOP	Lincoln	TownCar/Continental	1988	1	75	MALE	4=Severe

Occupant: 1998-49-62-1-1



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



Pre-Crash Environment

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

Crash Severity

Nr. Quarter Turns	No rollover
Impact Speed	< 0.5KMPH
Total, Longitudal, and Lateral δV	< 0.5 KMPH < 0.5 KMPH < 0.5 KMPH
Est. δV with sequence number	0.5 KMPH
Est. δV with sequence number	>39 AND <55 KMPH 1
CDC	69 L Y E W 4
Damage (C1-C6)	0 0 0 0 0 0
Crush (L and D)	0 0
Object Contacted 1	VEHICLE NO. 2
Object Contacted 2	VEHICLE NO. 2

NASS Weighting Factor

Weighting factor	5.9182516722
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Rollover Characteristics

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

Vehicle Factors

Make-Model	Lincoln TownCar/Continental
Year	1988
Class	PASSENGER CAR
Body Type	4-DR SEDAN/HDTOP
Weight	186

Pre-Crash Driver Data

Accident Type	98
Pre-event Movement	NEGOTIATE CURVE
Critical Pre-crash Event	OFF EDGE-LEFT
Attempted Avoidance Manuever	No AVOIDANCE
Pre-impact Stability	TRACKING
Pre-impact Location	RETURNED TO ROAD

DRIVER Factors

Age	75	Height	168	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

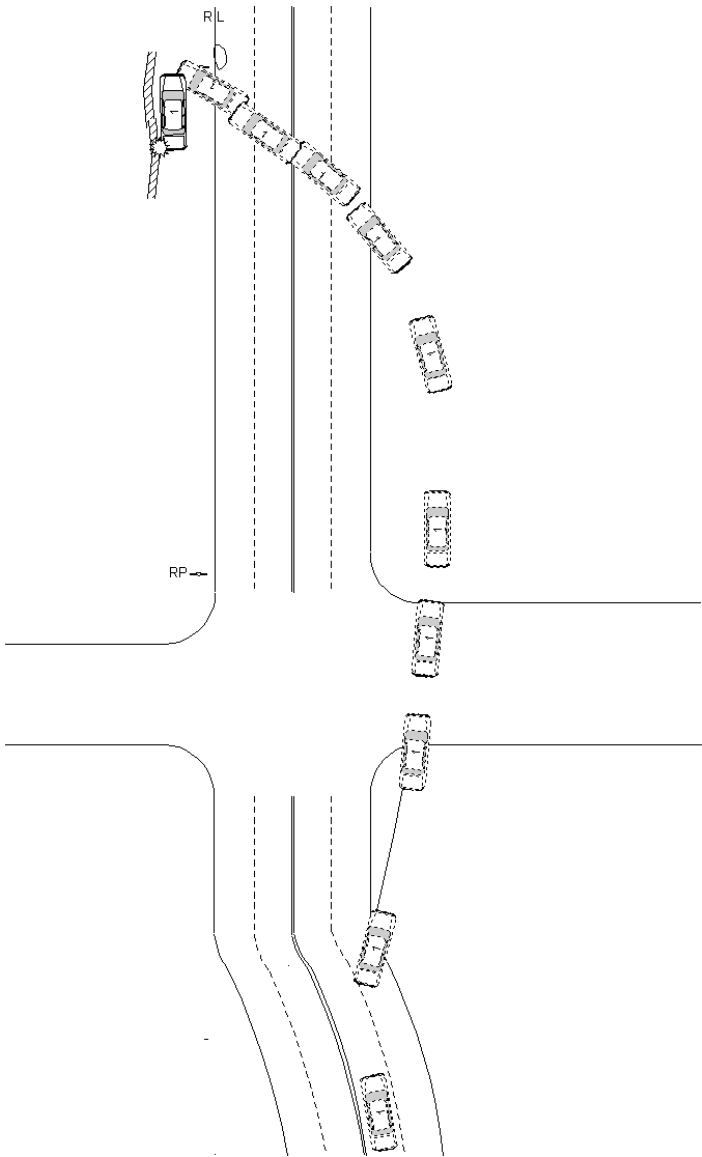
Occupant	1998-49-62-1-1
MAIS	4=Severe
Seat Position	Front left side

AIS Level	Injury Description	Contacts
4=Severe	Cerebral subdural hematoma, small (<50ccs)	Left B pillar
4=Severe	Cerebral subdural hematoma, small (<50ccs)	Left B pillar
2=Moderate	Kidney contusion, minor (subcapsular, nonexpanding)	Left B pillar
1=Minor	Abdominal skin contusion	Left hardware
1=Minor	Abdominal skin abrasion	Left hardware
2=Moderate	2-3 rib fractures with stable chest	Left B pillar
2=Moderate	Lethargic on admission, unconscious <1 hour	Left B pillar
1=Minor	Leg skin contusion (hematoma)	Steering column
1=Minor	Leg skin abrasion	Steering column

55 Case 1998-49-95

Summary:

Vehicle 1 was traveling NB in the 2nd lane of a dry 4-lane concrete undivided 2-way urban street, negotiating a curve just before an intersection. V1 went to the right, crossing the 1st lane and impacting a curb on the east side of the street. V1 continued northbound, across some grass, over the south curb of the cross street, over the north curb and across more grass. V1 then re-entered the street, began a CCW rotation, crossed all four lanes and impacted right front to a light pole on the west side of the street, where V1 came to rest and caught fire. The vehicle was towed due to damage and the driver and sole occupant was taken to the morgue where he was pronounced dead.



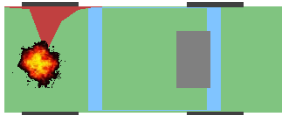
Vehicle	Body type	Make	Model	Year	Occ.#	Age	Occupant's sex	Maximum known occupant ais
1	4-DR SEDAN/HDTOP	BMW	7-series	1998	1	51	MALE	6=Maximum

Occupant: 1998-49-95-1-1



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	No fuel tank
Fuel Type	Gasoline



Crash Severity

Nr. Quarter Turns	No rollover
Impact Speed	998
Total, Longitudal, and Lateral δV	31 -27 -16
Est. δV with sequence number	DELTA V CODED 5
CDC	61 R Y A W 4
Damage (C1-C6)	2 3 81 25 5 0
Crush (L and D)	173 92
Object Contacted 1	MEDIUM POLE
Object Contacted 2	WALL

NASS Weighting Factor

Weighting factor	7.0764435804
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Rollover Characteristics

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

Pre-Crash Environment

Traffic Flow	Not DIVIDED
Number of Travel Lanes	FOUR
Roadway Alignment	CURVE RIGHT
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)	15

Vehicle Factors

Make-Model	BMW 7-series
Year	1998
Class	PASSENGER CAR
Body Type	4-DR SEDAN/HDTOP
Weight	193

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	51	Height	165	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	Unk IF DEPLOYED
Airbag Deployment - 1 st Seat	DR
PAS UNK DEPLY	
Airbag Deployment - Oth Seat	Unk IF DEPLOYED

Injuries

Occupant	1998-49-95-1-1
MAIS	6=Maximum
Seat Position	Front left side

AIS Level

6=Maximum

2-3 rib fractures with stable chest and hemo-/pneumothorax

3=Serious

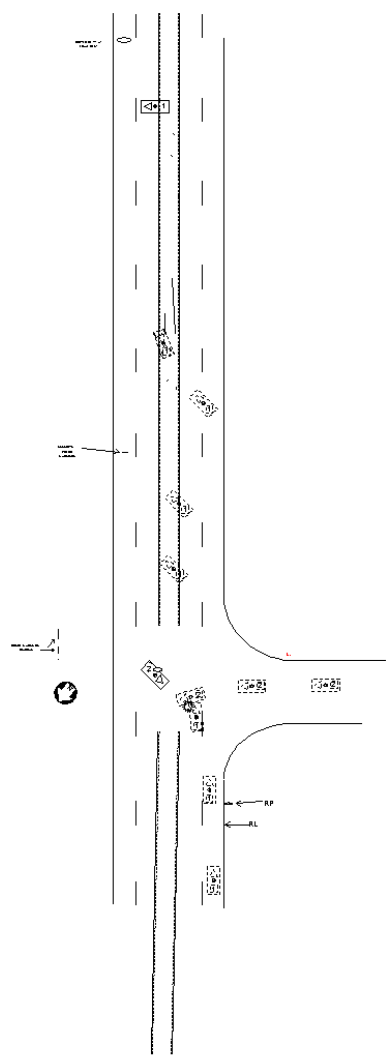
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56 Case 1998-5-2

Summary:

V1 WAS TRAVELING EAST IN THE OUTSIDE LANE OF A FIVE LANE, UNDIVIDED HIGHWAY. V2 WAS FACING NORTH ON A TWO LANE, UNDIVIDED ROADWAY. V2 MOVED FORWARD TO TRAVEL WEST, FROM A STOPPED POSITION, AT A STOP SIGN. UPON ENTERING THE INTERSECTION, V2 WAS IMPACTED ON THE LEFT SIDE BY THE FRONT OF V1. AFTER IMPACT, V2 ROTATED COUNTER CLOCKWISE TO FINAL REST. AS V1 CONTINUED, IT SUBSEQUENTLY ROLLED-OVER AND CAME TO A STOP 95 METERS FROM THE ORIGINAL POINT OF IMPACT. THE DRIVER OF V1 WAS COMPLETELY EJECTED FROM THE VEHICLE. V1 AND V2 WERE TOWED FROM THE SCENE AND A TOTAL OF THREE OCCUPANTS WERE TRANSPORTED TO AREA HOSPITALS FOR TREATMENT. THE DRIVER OF V1 DIED IN THE HOSPITAL, 19 DAYS AFTER THE ACCIDENT.



Vehicle	Body type	Make	Model	Year	Occ Age	Occupant's sex	Maximum known occupant ais
1	COMPACT PICKUP	Chevrolet	S-10	1994	20	MALE	5=Critical
2	4-DR SEDAN/HDTOP	Chrysler	New Yorker/E-Class	1987	68	MALE	5=Critical
2	4-DR SEDAN/HDTOP	Chrysler	New Yorker/E-Class	1987	62	FEMALE-NOT PREG	1=Minor

Occupant: 1998-5-2-1-1



Fire Information

Fire Occurrence	Minor fire
Fire Origin	Engine compartment
Location of Fuel Leakage	No fuel leakage
Type of Fuel Tank	Metallic
Fuel Tank Location	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	8 QUARTER TURNS
Impact Speed	998
Total, Longitudal, and Lateral δV	33 -31 -11
Est. δV with sequence number	DELTA V CODED 1
CDC	1 F D E W 2
Damage (C1-C6)	33 16 11 8 10 13
Crush (L and D)	145 0
Object Contacted 1	VEHICLE NO. 2
Object Contacted 2	ROLLOVER-OVERTURN

NASS Weighting Factor

Weighting factor	59.078016166
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Rollover Characteristics

Number of Events	3
Rollover Initiation Type	COLLISION W/VEH
Location of Rollover Initiation	ON ROADWAY
Rollover Initiation Object Contacted	VEHICLE NO. 2
Location on Vehicle where Principal Tripping Force was Applied	END PLANE
Direction of Initial Roll	ROLL RIGHT

Pre-Crash Environment

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

Vehicle Factors

Make-Model	Chevrolet S-10
Year	1994
Class	TRUCK
Body Type	COMPACT PICKUP
Weight	160

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	20	Height	0	Weight	0
Gender					MALE
Ejection					COMPLETE EJECT
Ejection Area					WINDSHIELD
Entrapment					Not ENTRAPPED

Restraint Factors

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

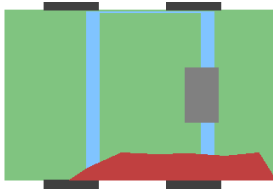
Injuries

Occupant 1998-5-2-1-1
 MAIS 5=Critical
 Seat Position Front left side

AIS Level	Injury Description	Contacts
5=Critical	Unconscious on admission, inappropriate movements	Front header
4=Severe	Cerebral intraventricular hemorrhage	Front header
4=Severe	Cerebral intraventricular hemorrhage	Front header
4=Severe	Cerebral subdural hematoma, small (<50ccs)	Front header
3=Serious	Cerebral contusion, single, NFS	Front header
3=Serious	Cerebral pneumocephalus	Front header
4=Severe	Cerebral edema, moderate (compressed ventricles&cisterns)	Front header
5=Critical	Brainstem compression (includes herniation)	Front header
4=Severe	Basilar skull fracture, open, with brain tissue loss.	Front header
3=Serious	Maxillary fracture, LeFort III	Front header
1=Minor	Facial skin avulsion, superficial	Front header
1=Minor	297602	Windshield
1=Minor	Facial skin laceration, minor	Windshield
1=Minor	Leg skin abrasion	Left apnel
1=Minor	Abdominal skin contusion	Center panel
2=Moderate	Cervical vertebral body fracture, no cord injury NFS	Front header
2=Moderate	Splenic laceration, minor (tear<3cms deep, no major vessel)	Center panel
2=Moderate	Kidney laceration, minor (<1cm, no urinary extravasation)	Center panel
2=Moderate	Splenic contusion NFS	Center panel
3=Serious	Lung contusion, unilateral	Center panel
2=Moderate	Kidney contusion, minor (subcapsular, nonexpanding)	Center panel
1=Minor	Abdominal skin contusion	Steering comb
1=Minor	Leg skin abrasion	Center panel

Occupant: 1998-5-2-2-1**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	Deformed
Fuel Type	Gasoline

**Pre-Crash Environment**

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

Vehicle Factors

Make-Model	Chrysler New Yorker/E-Class
Year	1987
Class	PASSENGER CAR
Body Type	4-DR SEDAN/HDTOP
Weight	125

Crash Severity

Nr. Quarter Turns	No rollover
Impact Speed	998
Total, Longitudal, and Lateral δV	42 -15 40
Est. δV with sequence number	DELTA V CODED 1
CDC	10 L Z A W 3
Damage (C1-C6)	18 40 38 39 35 40
Crush (L and D)	304 -24
Object Contacted 1	VEHICLE NO. 1
Object Contacted 2	0

Pre-Crash Driver Data

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

NASS Weighting Factor

Weighting factor	59.078016166
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DRIVER Factors

Age	68	Height	0	Weight	0
Gender					MALE
Ejection					No EJECTION
Ejection Area					No EJECTION
Entrapment					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	NO
Airbag Deployment	Not EQUIP/AVAIL
Airbag Deployment - 1 st Seat	Not EQUIP/AVAIL
Airbag Deployment - Oth Seat	Not EQUIP W/ OTH

Injuries

Occupant	1998-5-2-2-1
MAIS	5=Critical
Seat Position	Front left side

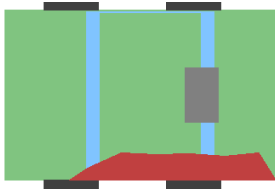
AIS Level	Injury Description	Contacts
5=Critical	Cerebral subdural hematoma, small (<50ccs), bilateral	Left interior
3=Serious	Cerebral contusions, multiple, bilateral, small	Left interior
4=Severe	Rib fxs (=>1), open/displaced/comminuted,& hemo-/pneumo thx	Left interior
2=Moderate	Awake on admission, prior unconscious, length NFS	Left interior
1=Minor	Abdominal skin contusion	Left hardware
1=Minor	Upper extremity skin abrasion	Left interior
1=Minor	Scalp abrasion	Flying glass
1=Minor	Facial skin abrasion	Flying glass
1=Minor	Leg skin contusion (hematoma)	Left hardware

Occupant: 1998-5-2-2-2



Fire Information

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



Pre-Crash Environment

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

Vehicle Factors

Make-Model	Chrysler New Yorker/E-Class
Year	1987
Class	PASSENGER CAR
Body Type	4-DR SEDAN/HDTOP
Weight	125

Crash Severity

Nr. Quarter Turns	No rollover
Impact Speed	998
Total, Longitudal, and Lateral δV	42 -15 40
Est. δV with sequence number	DELTA V CODED 1
CDC	10 L Z A W 3
Damage (C1-C6)	18 40 38 39 35 40
Crush (L and D)	304 -24
Object Contacted 1	VEHICLE NO. 1
Object Contacted 2	0

Pre-Crash Driver Data

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

NASS Weighting Factor

Weighting factor	59.078016166
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PASSENGER Factors

Age	62	Height	0	Weight	0
Gender					FEMALE-NOT PREG
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	NO
Airbag Deployment	Not EQUIP/AVAIL
Airbag Deployment - 1 st Seat	Not EQUIP/AVAIL
Airbag Deployment - Oth Seat	Not EQUIP W/ OTH

Injuries

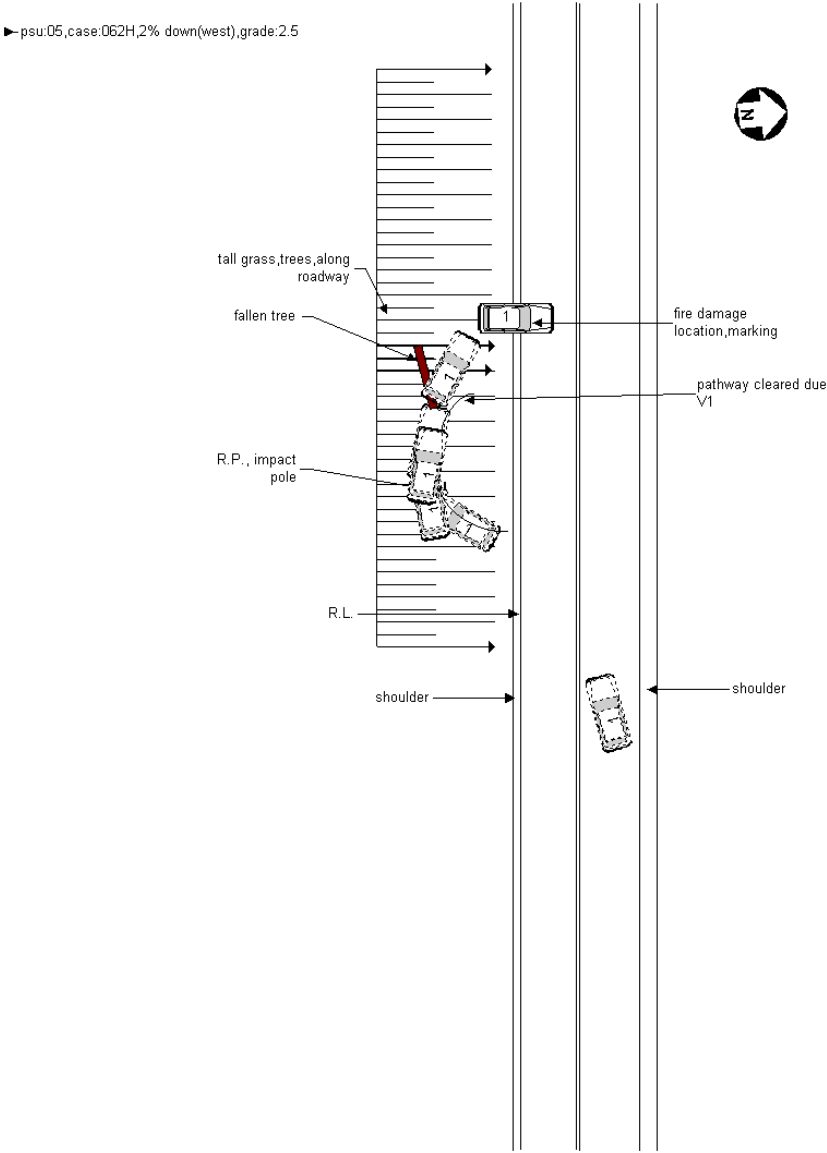
Occupant	1998-5-2-2-2
MAIS	1=Minor
Seat Position	Front right side

AIS Level	Injury Description	Contacts
1=Minor	Facial skin laceration, minor	Right panel
1=Minor	Facial skin abrasion	Right panel
1=Minor	Leg skin abrasion	Glove door
1=Minor	Leg skin contusion (hematoma)	Right hardware
1=Minor	Scalp contusion	Right panel

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Summary:

Vehicle One (V1) was travelling west on an undivided two lane roadway. V1 lost control off the left side of the roadway impacting with pole and a fixed object on the right side , a fallen tree on the front, and a non-fixed object on the left side ,shortly after ,V1 caught on fire. The occupant in V1 was not transported to a medical facility at the scene.



Vehicle	Body type	Make	Model	Year	Occ.#	Age	Occupant's sex	Maximum known occupant ais
1	3DR/2DR HATCHBAK	Acura	Integra	1992	1	20	MALE	0=None

Occupant: 1998-5-62-1-1



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	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	0 F D 9 W 0
Damage (C1-C6)	0 0 0 0 0
Crush (L and D)	0 0
Object Contacted 1	EMBANKMENT
Object Contacted 2	MEDIUM POLE

NASS Weighting Factor

Weighting factor	3480.8487093
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Rollover Characteristics

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

Vehicle Factors

Make-Model	Acura Integra
Year	1992
Class	PASSENGER CAR
Body Type	3DR/2DR HATCHBAK
Weight	116

Pre-Crash Driver Data

Accident Type	6
Pre-event Movement	GOING STRAIGHT
Critical Pre-crash Event	OFF EDGE-LEFT
Attempted Avoidance Manuever	BRAKE W/O LOCKUP
Pre-impact Stability	TRACKING
Pre-impact Location	DEPARTED ROADWAY

DRIVER Factors

Age	20	Height	170	Weight	104
Gender			MALE		
Ejection			No EJECTION		
Ejection Area			No EJECTION		
Entrapment			Not ENTRAPPED		

Restraint Factors

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

Injuries

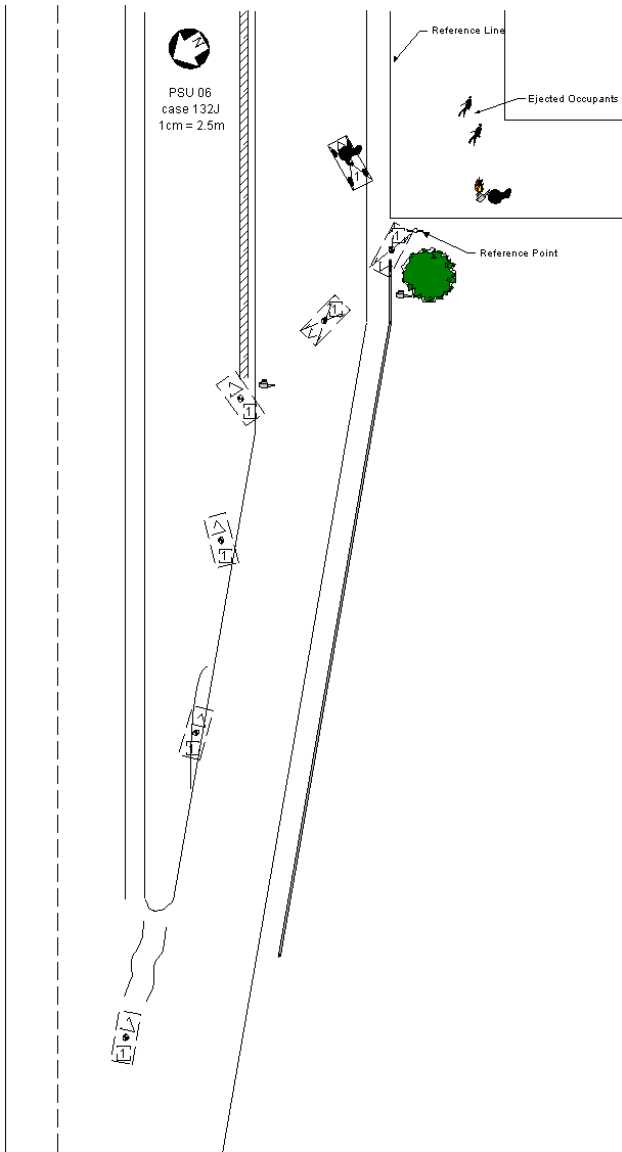
Occupant	1998-5-62-1-1
MAIS	0=None
Seat Position	Front left side

AIS Level	Injury Description	Contacts
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58 Case 1998-6-132

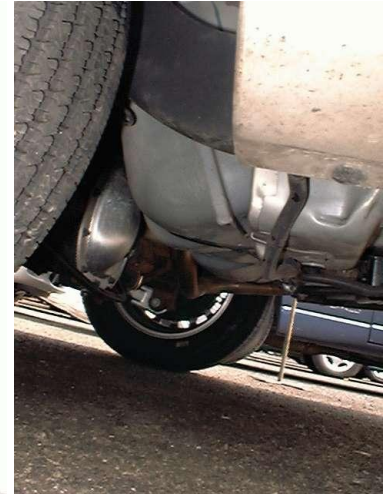
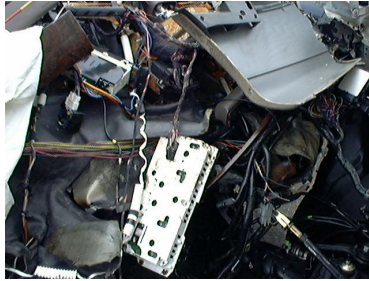
Summary:

V1 was travelling east on a two-lane, positively divided highway; approaching an exit ramp to an elevated street. V1 attempted to exit the highway and travelled onto a grassy, sloped median between the highway and the exit ramp. V1 began to rotate counter-clockwise while traversing the median and struck the end of a concrete retaining wall with it's right side. This impact cracked the frame of the vehicle behind the right front tire, causing the engine to separate from the vehicle. This impact also initiated a rollover to the right side. The engine and the vehicle travelled to the southeast through the air, across the exit ramp. Both objects then struck a chain-link fence, damaging the right side of the vehicle and knocking the fence over. The vehicle then struck a utility pole with it's right side while upside down. This impact changed the rotation of the vehicle to clockwise and ejected both occupants. The vehicle then came to rest on it's roof in the roadway. The engine travelled through the fence, struck a tree, then came to rest on a separate roadway, and caught fire. The vehicle required towing. One occupant sustained a serious injury, the other sustained a moderate injury. Both airbags deployed in the vehicle.



Vehicle #	Body type	Make	Model	Year	Occ.#	Age	Occupant's sex	Maximum known occupant ais
1	4-DR SEDAN/HDTOP	Lincoln	TownCar/Continental	1998	1	20	MALE	3=Serious
1	4-DR SEDAN/HDTOP	Lincoln	TownCar/Continental	1998	2	20	MALE	1=Minor

Occupant: 1998-6-132-1-1



Fire Information

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



Crash Severity

Nr. Quarter Turns	2 QUARTER TURNS
Impact Speed	998
Total, Longitudal, and Lateral δV	42 -36 -21
Est. δV with sequence number	DELTA V CODED 1
CDC	1 R Y A W 4
Damage (C1-C6)	0 23 77 36 7 2
Crush (L and D)	264 92
Object Contacted 1	WALL
Object Contacted 2	LARGE POLE

NASS Weighting Factor

Weighting factor	5.4485702695
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Rollover Characteristics

Number of Events	5
Rollover Initiation Type	BOUNCE-OVER
Location of Rollover Initiation	ROADSIDE/MEDIAN
Rollover Initiation Object	WALL
Contacted	
Location on Vehicle where Principal Tripping Force was Applied	SIDE PLANE
Direction of Initial Roll	ROLL RIGHT

Pre-Crash Environment

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

Vehicle Factors

Make-Model	Lincoln TownCar/Continental
Year	1998
Class	PASSENGER CAR
Body Type	4-DR SEDAN/HDTOP
Weight	183

Pre-Crash Driver Data

Accident Type	6
Pre-event Movement	GOING STRAIGHT
Critical Pre-crash Event	OFF EDGE-LEFT
Attempted Avoidance Maneuver	No DRIVER
Pre-impact Stability	LAT SKID-CTR CLK
Pre-impact Location	DEPARTED ROADWAY

DRIVER Factors

Age	20	Height	174	Weight	88
Gender			MALE		
Ejection			COMPLETE EJECT		
Ejection Area			Right FRONT		
Entrapment			Not ENTRAPPED		

Restraint Factors

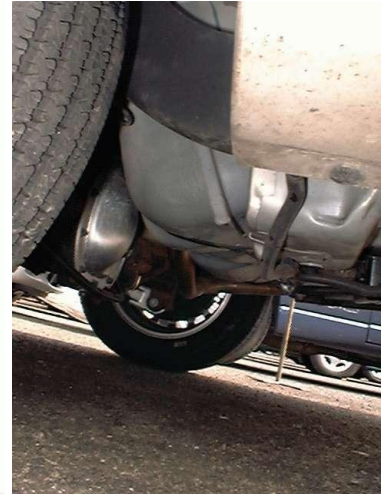
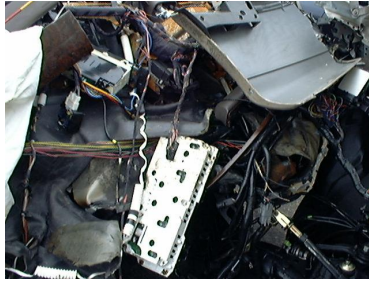
Restrain	None used/avail
AOPS	YES-RES DET
Airbag Deployment	BAG DEPLOYED
Airbag Deployment - 1 st Seat	DR
PAS BAG DEPLY	
Airbag Deployment - Oth Seat	Not EQUIP W/ OTH

Injuries

Occupant	1998-6-132-1-1
MAIS	3=Serious
Seat Position	Front left side

AIS Level	Injury Description	Contacts
2=Moderate	Awake on admission, prior unconscious, length NFS	Roof
1=Minor	Facial skin contusion	Roof
1=Minor	Facial skin abrasion	Roof
1=Minor	Leg skin abrasion	Floor
3=Serious	Femoral condyle fracture	Left apnel
2=Moderate	Tibial condylar fracture	Left apnel
2=Moderate	Metatarsal or tarsal fracture	Floor
2=Moderate	C-spine dislocation no bone or cord involvement NFS	Roof

Occupant: 1998-6-132-1-2



Fire Information

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



Crash Severity

Nr. Quarter Turns	2 QUARTER TURNS
Impact Speed	998
Total, Longitudal, and Lateral δV	42 -36 -21
Est. δV with sequence number	DELTA V CODED 1
CDC	1 R Y A W 4
Damage (C1-C6)	0 23 77 36 7 2
Crush (L and D)	264 92
Object Contacted 1	WALL
Object Contacted 2	LARGE POLE

NASS Weighting Factor

Weighting factor	5.4485702695
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Rollover Characteristics

Number of Events	5
Rollover Initiation Type	BOUNCE-OVER
Location of Rollover Initiation	ROADSIDE/MEDIAN
Rollover Initiation Object Contacted	WALL
Location on Vehicle where Principal Tripping Force was Applied	SIDE PLANE
Direction of Initial Roll	ROLL RIGHT

Pre-Crash Environment

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

Vehicle Factors

Make-Model	Lincoln TownCar/Continental
Year	1998
Class	PASSENGER CAR
Body Type	4-DR SEDAN/HDTOP
Weight	183

Pre-Crash Driver Data

Accident Type	6
Pre-event Movement	GOING STRAIGHT
Critical Pre-crash Event	OFF EDGE-LEFT
Attempted Avoidance Maneuver	No DRIVER
Pre-impact Stability	LAT SKID-CTR CLK
Pre-impact Location	DEPARTED ROADWAY

PASSENGER Factors

Age	20	Height	173	Weight	64
Gender			MALE		
Ejection			COMPLETE EJECT		
Ejection Area			WINDSHIELD		
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

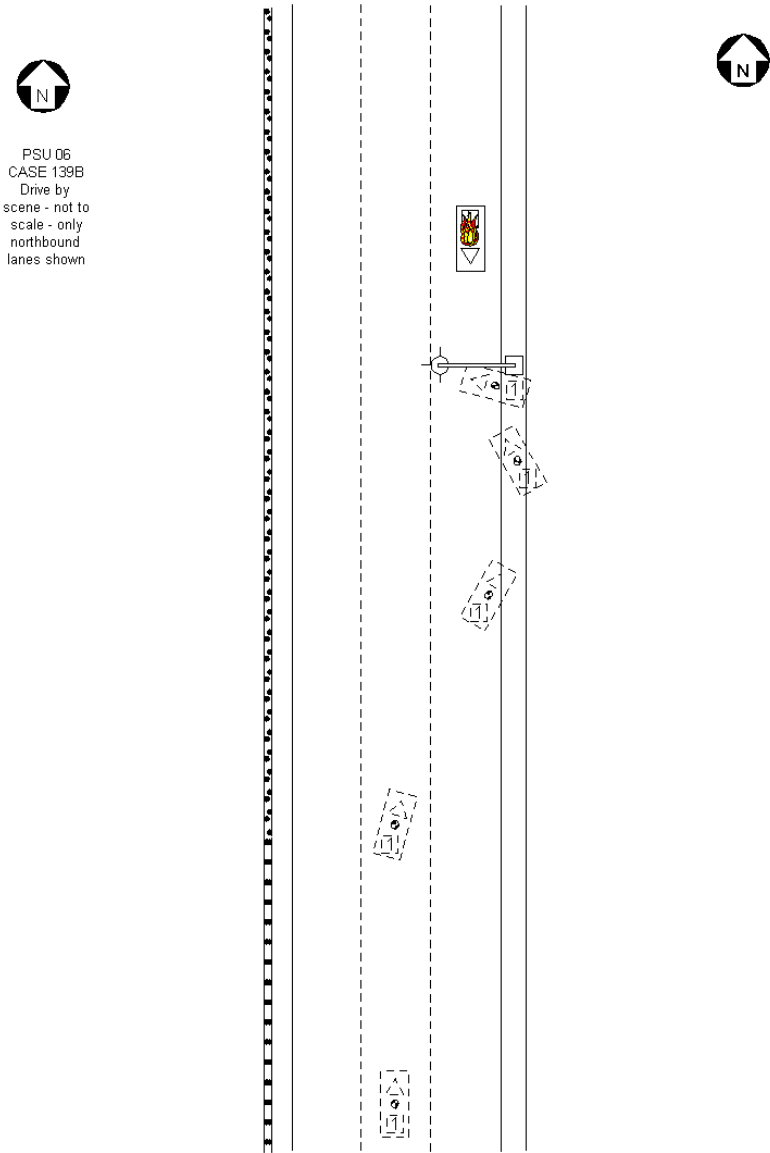
Occupant	1998-6-132-1-2
MAIS	1=Minor
Seat Position	Front right side

AIS Level	Injury Description	Contacts
1=Minor	Facial skin abrasion	Flying glass
1=Minor	Facial skin laceration, minor	Flying glass
1=Minor	Leg skin abrasion	Right interior
1=Minor	Leg skin contusion (hematoma)	Right interior
1=Minor	690402	Ground

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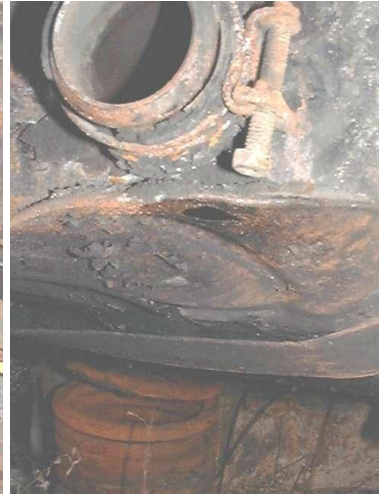
Summary:

V1 was travelling north on a three-lane (northbound) divided interstate highway. V1 struck a concrete traffic barrier (jersey style) with it's front plane. V1 rode up onto the barrier, damaging the underside of the vehicle and puncturing the fuel tank. V1 then struck a light pole that was mounted on the barrier. V1 then returned to the roadway, came to rest facing south , and caught fire. The driver was unable to exit the vehicle before it became fully engulfed in flames, and was killed by the fire. One other occupant suffered a moderate injury, two other occupants suffered minor injuries. The vehicle required towing.



Vehicle	Body type	Make	Model	Year	Occ.#	Age	Occupant's sex	Maximum known occupant ais
1	4-DR SEDAN/HDTOP	Hyundai	Excel	1989	1	18	FEMALE-NOT PREG	6=Maximum
1	4-DR SEDAN/HDTOP	Hyundai	Excel	1989	2	15	FEMALE-NOT PREG	3=Serious
1	4-DR SEDAN/HDTOP	Hyundai	Excel	1989	3	14	MALE	1=Minor
1	4-DR SEDAN/HDTOP	Hyundai	Excel	1989	4	17	MALE	1=Minor

Occupant: 1998-6-139-1-1



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	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	25 -19 -16
Est. δV with sequence number	DELTA V CODED 1
CDC	1 F D E W 3
Damage (C1-C6)	2 10 21 31 40 54
Crush (L and D)	138 0
Object Contacted 1	CONCRETE BARRIER
Object Contacted 2	MEDIUM POLE

NASS Weighting Factor

Weighting factor	8.5238031171
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Rollover Characteristics

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

Pre-Crash Environment

Traffic Flow	DVDED/W/BARRIER
Number of Travel Lanes	THREE
Roadway Alignment	STRAIGHT
Roadway Profile	LEVEL
Roadway Surface Type	CONCRETE
Roadway Surface Condition	DRY
Light Conditions	DARK/LIGHTED
Atmospheric Conditions	No ADVERSE COND
Relation to Intersection	NONINTER/NONJUNC
Traffic Control Device	
Police Reported Alcohol Presence	No ALCOHOL
Alcohol Test (< 95 indicates BAC 0.xx)	20

Vehicle Factors

Make-Model	Hyundai Excel
Year	1989
Class	PASSENGER CAR
Body Type	4-DR SEDAN/HDTOP
Weight	98

Pre-Crash Driver Data

Accident Type	1
Pre-event Movement	GOING STRAIGHT
Critical Pre-crash Event	OVER LINE-RIGHT
Attempted Avoidance Maneuver	No DRIVER
Pre-impact Stability	No DRIVER
Pre-impact Location	DEPARTED ROADWAY

DRIVER Factors

Age	18	Height	157	Weight	54
Gender					FEMALE-NOT PREG
Ejection					No EJECTION
Ejection Area					No EJECTION
Entrapment					JAMMED DOOR/FIRE

Restraint Factors

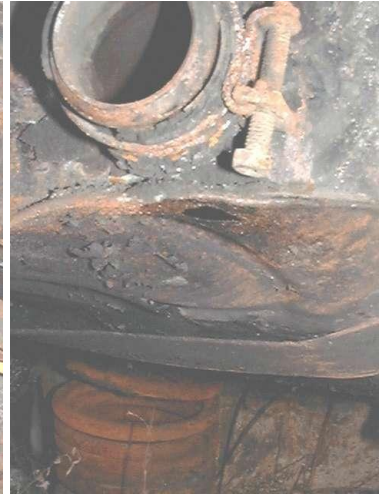
Restrain	None used/avail
AOPS	NO
Airbag Deployment	Not EQUIP/AVAIL
Airbag Deployment - 1 st Seat	Not EQUIP/AVAIL
Airbag Deployment - Oth Seat	Not EQUIP W/ OTH

Injuries

Occupant	1998-6-139-1-1
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

Occupant: 1998-6-139-1-2



Fire Information

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



Crash Severity

Nr. Quarter Turns	No rollover
Impact Speed	998
Total, Longitudal, and Lateral δV	25 -19 -16
Est. δV with sequence number	DELTA V CODED 1
CDC	1 F D E W 3
Damage (C1-C6)	2 10 21 31 40 54
Crush (L and D)	138 0
Object Contacted 1	CONCRETE BARRIER
Object Contacted 2	MEDIUM POLE

NASS Weighting Factor

Weighting factor	8.5238031171
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Rollover Characteristics

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

Pre-Crash Environment

Traffic Flow	DVDED/W/BARRIER
Number of Travel Lanes	THREE
Roadway Alignment	STRAIGHT
Roadway Profile	LEVEL
Roadway Surface Type	CONCRETE
Roadway Surface Condition	DRY
Light Conditions	DARK/LIGHTED
Atmospheric Conditions	No ADVERSE COND
Relation to Intersection	NONINTER/NONJUNC
Traffic Control Device	
Police Reported Alcohol Presence	No ALCOHOL
Alcohol Test (< 95 indicates BAC 0.xx)	20

Vehicle Factors

Make-Model	Hyundai Excel
Year	1989
Class	PASSENGER CAR
Body Type	4-DR SEDAN/HDTOP
Weight	98

Pre-Crash Driver Data

Accident Type	1
Pre-event Movement	GOING STRAIGHT
Critical Pre-crash Event	OVER LINE-RIGHT
Attempted Avoidance Manuever	No DRIVER
Pre-impact Stability	No DRIVER
Pre-impact Location	DEPARTED ROADWAY

PASSENGER Factors

Age	15	Height	157	Weight	54
Gender			FEMALE-NOT PREG		
Ejection			No EJECTION		
Ejection Area			No EJECTION		
Entrapment			Not ENTRAPPED		

Restraint Factors

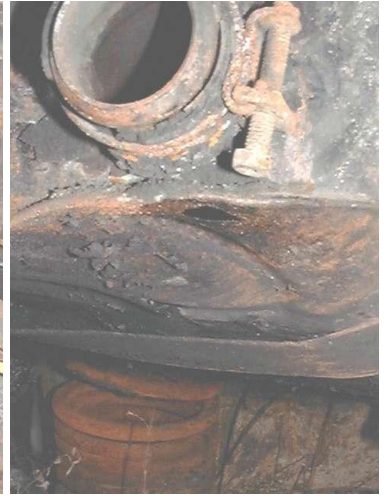
Restrain	None used/avail
AOPS	NO
Airbag Deployment	Not EQUIP/AVAIL
Airbag Deployment - 1 st Seat	Not EQUIP/AVAIL
Airbag Deployment - Oth Seat	Not EQUIP W/ OTH Seat

Injuries

Occupant	1998-6-139-1-2
MAIS	3=Serious
Seat Position	Front right side

AIS Level	Injury Description	Contacts
1=Minor	Facial skin laceration, minor	Unknown SOURCE
1=Minor	297402	Unknown SOURCE
1=Minor	297402	Unknown SOURCE
3=Serious	Maxillary fracture, LeFort III	Unknown SOURCE
3=Serious	Skull fracture, vault, comminuted (compound, depressed)	Unknown SOURCE
1=Minor	Mandible body fracture, closed, +/- ramus involvement	Unknown SOURCE
1=Minor	Leg skin contusion (hematoma)	Unknown SOURCE
1=Minor	Corneal contusion (includes hyphema)	Unknown SOURCE
1=Minor	Conjunctiva injury	Unknown SOURCE
2=Moderate	Alveolar ridge fracture +/- tooth injury	Unknown SOURCE
1=Minor	Facial skin laceration NFS	Unknown SOURCE
1=Minor	Burn degree unknown, body area unknown	Fire in vehicle

Occupant: 1998-6-139-1-3



Fire Information

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



Crash Severity

Nr. Quarter Turns	No rollover
Impact Speed	998
Total, Longitudal, and Lateral δV	25 -19 -16
Est. δV with sequence number	DELTA V CODED 1
CDC	1 F D E W 3
Damage (C1-C6)	2 10 21 31 40 54
Crush (L and D)	138 0
Object Contacted 1	CONCRETE BARRIER
Object Contacted 2	MEDIUM POLE

NASS Weighting Factor

Weighting factor	8.5238031171
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Rollover Characteristics

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

Pre-Crash Environment

Traffic Flow	DVDED/W/BARRIER
Number of Travel Lanes	THREE
Roadway Alignment	STRAIGHT
Roadway Profile	LEVEL
Roadway Surface Type	CONCRETE
Roadway Surface Condition	DRY
Light Conditions	DARK/LIGHTED
Atmospheric Conditions	No ADVERSE COND
Relation to Intersection	NONINTER/NONJUNC
Traffic Control Device	
Police Reported Alcohol Presence	No ALCOHOL
Alcohol Test (< 95 indicates BAC 0.xx)	20

Vehicle Factors

Make-Model	Hyundai Excel
Year	1989
Class	PASSENGER CAR
Body Type	4-DR SEDAN/HDTOP
Weight	98

Pre-Crash Driver Data

Accident Type	1
Pre-event Movement	GOING STRAIGHT
Critical Pre-crash Event	OVER LINE-RIGHT
Attempted Avoidance Maneuver	No DRIVER
Pre-impact Stability	No DRIVER
Pre-impact Location	DEPARTED ROADWAY

PASSENGER Factors

Age	14	Height	155	Weight	39
Gender			MALE		
Ejection			No EJECTION		
Ejection Area			No EJECTION		
Entrapment			Not ENTRAPPED		

Restraint Factors

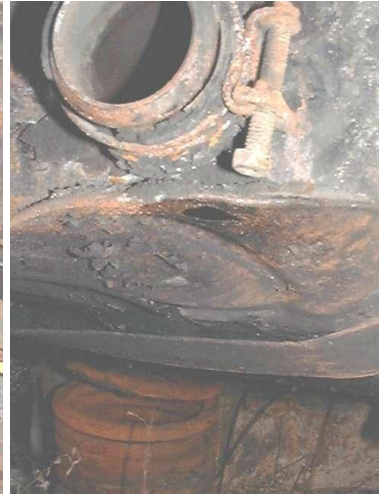
Restrain	None used/avail
AOPS	NO
Airbag Deployment	Not EQUIP/AVAIL
Airbag Deployment - 1 st Seat	Not EQUIP/AVAIL
Airbag Deployment - Oth Seat	Not EQUIP W/ OTH

Injuries

Occupant	1998-6-139-1-3
MAIS	1=Minor
Seat Position	Second left

AIS Level	Injury Description	Contacts
1=Minor	Ankle joint sprain	Seat, back

Occupant: 1998-6-139-1-4



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	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	25 -19 -16
Est. δV with sequence number	DELTA V CODED 1
CDC	1 F D E W 3
Damage (C1-C6)	2 10 21 31 40 54
Crush (L and D)	138 0
Object Contacted 1	CONCRETE BARRIER
Object Contacted 2	MEDIUM POLE

NASS Weighting Factor

Weighting factor	8.5238031171
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Rollover Characteristics

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

Pre-Crash Environment

Traffic Flow	DVDED/W/BARRIER
Number of Travel Lanes	THREE
Roadway Alignment	STRAIGHT
Roadway Profile	LEVEL
Roadway Surface Type	CONCRETE
Roadway Surface Condition	DRY
Light Conditions	DARK/LIGHTED
Atmospheric Conditions	No ADVERSE COND
Relation to Intersection	NONINTER/NONJUNC
Traffic Control Device	
Police Reported Alcohol Presence	No ALCOHOL
Alcohol Test (< 95 indicates BAC 0.xx)	20

Vehicle Factors

Make-Model	Hyundai Excel
Year	1989
Class	PASSENGER CAR
Body Type	4-DR SEDAN/HDTOP
Weight	98

Pre-Crash Driver Data

Accident Type	1
Pre-event Movement	GOING STRAIGHT
Critical Pre-crash Event	OVER LINE-RIGHT
Attempted Avoidance Maneuver	No DRIVER
Pre-impact Stability	No DRIVER
Pre-impact Location	DEPARTED ROADWAY

PASSENGER Factors

Age	17	Height	168	Weight	61
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

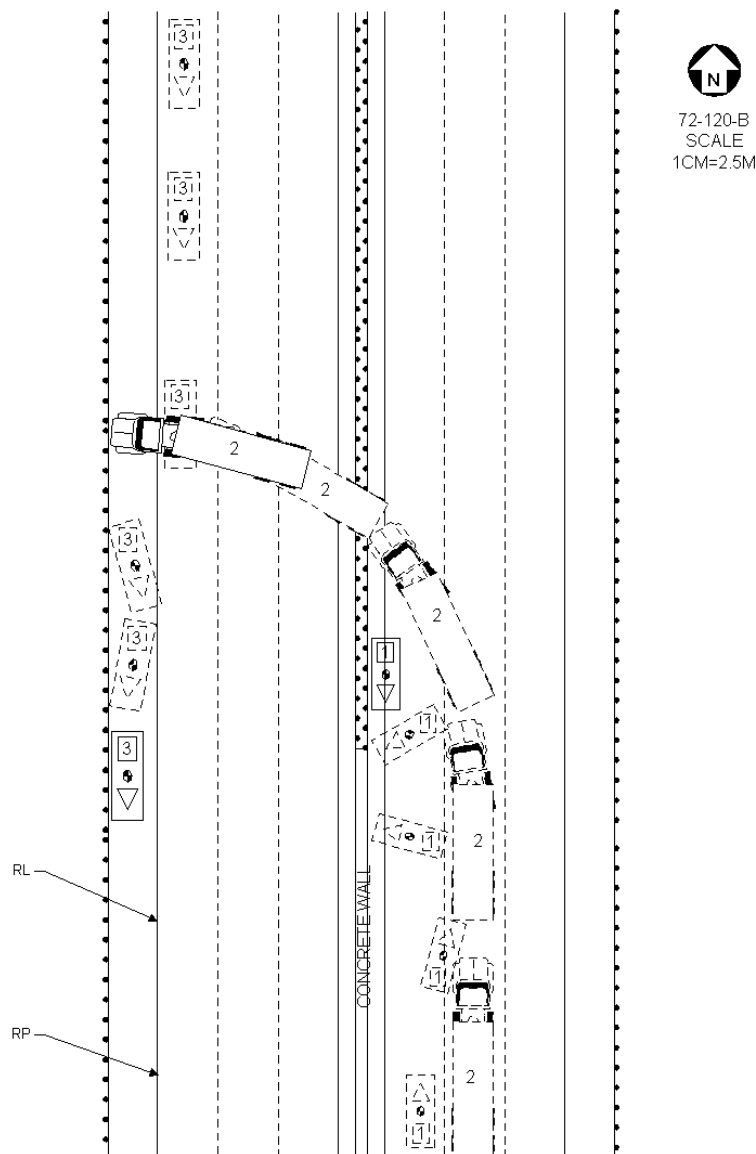
Occupant	1998-6-139-1-4
MAIS	1=Minor
Seat Position	Second right

AIS Level	Injury Description	Contacts
1=Minor	Facial skin laceration	Unknown SOURCE
	NFS	
1=Minor	Finger fracture	Unknown SOURCE

60 Case 1998-72-120

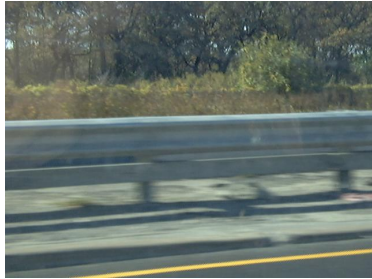
Summary:

Vehicle one was traveling northbound on a six lane divided expressway in the third travel lane. Vehicle two was traveling in the same direction, on the same expressway, in the second travel lane. Vehicle three was traveling southbound on the same expressway in the first travel lane. Vehicle one changed lanes to the right and impacted the front of vehicle two with its' right side. This impact caused vehicle two to lose control and jack knife. Vehicle two then impacted vehicle one's left rear with its' front, and proceeded to crash into the center guardrail. Vehicle two broke through the guardrail, crossed all three lanes of traffic, and impacted vehicle three's left side with its' front plane. This caused vehicle three to impact the right guardrail with its' right rear. The driver of vehicle three was fatally injured. The driver of vehicle one was transported to the hospital with "B" injuries. All three vehicles were towed from the scene.



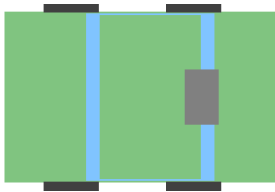
Vehicle	Body type	Make	Model	Year	Occ. Age	Occupant's sex	Maximum known occupant ais
1	4-DR SEDAN/HDTOP	Subaru	Impreza	1995	41	FEMALE-NOT PREG	7=Unk. sev.
3	4-DR SEDAN/HDTOP	Chevrolet	Caprice/Impala	1987	82	MALE	3=Serious

Occupant: 1998-72-120-1-1



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	4.8532051377
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Rollover Characteristics

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

Pre-Crash Environment

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

Vehicle Factors

Make-Model	Subaru Impreza
Year	1995
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 Maneuver	No DRIVER
Pre-impact Stability	No DRIVER
Pre-impact Location	STAYED IN LANE

DRIVER Factors

Age	41	Height	160	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		Not EQUIP/AVAIL
Airbag Deployment - Oth Seat		Not EQUIP W/ OTH

Injuries

Occupant	1998-72-120-1-1
MAIS	7=Unk. sev.
Seat Position	Front left side

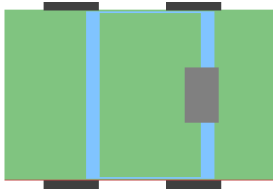
AIS Level	Injury Description	Contacts
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Occupant: 1998-72-120-3-1



Fire Information

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



Pre-Crash Environment

Traffic Flow	DVDED/NO BARRIER
Number of Travel Lanes	THREE
Roadway Alignment	STRAIGHT
Roadway Profile	LEVEL
Roadway Surface Type	ASPHALT
Roadway Surface Condition	WET
Light Conditions	DAYLIGHT
Atmospheric Conditions	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	MODERATE 4
CDC	10 L D A 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	Other BARRIER

NASS Weighting Factor

Weighting factor	4.8532051377
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Rollover Characteristics

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

Vehicle Factors

Make-Model	Chevrolet Caprice/Impala
Year	1987
Class	PASSENGER CAR
Body Type	4-DR SEDAN/HDTOP
Weight	159

Pre-Crash Driver Data

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

DRIVER Factors

Age	82	Height	165	Weight	103
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

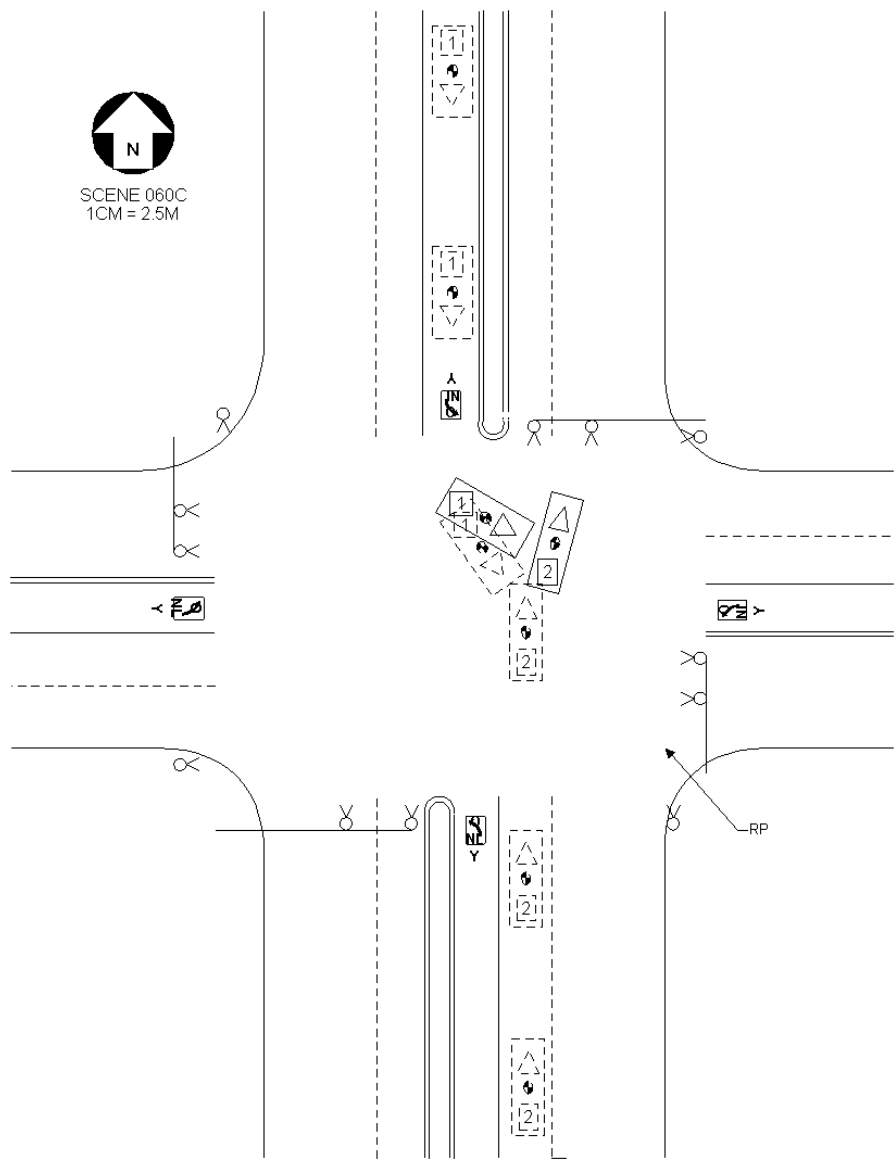
Occupant	1998-72-120-3-1
MAIS	3=Serious
Seat Position	Front left side

AIS Level	Injury Description	Contacts
2=Moderate	Skull fracture, vault, NFS	Unknown SOURCE
3=Serious	2-3 rib fractures with stable chest and hemo-/pneumothorax	Unknown SOURCE
2=Moderate	Arm, forearm, hand fracture NFS	Unknown SOURCE
1=Minor	Facial skin abrasion	Unknown SOURCE
1=Minor	Facial skin abrasion	Unknown SOURCE
1=Minor	Facial skin contusion	Unknown SOURCE
1=Minor	Facial skin abrasion	Unknown SOURCE
1=Minor	Scalp laceration, minor	Unknown SOURCE
1=Minor	Scalp laceration, minor	Unknown SOURCE
1=Minor	Thoracic skin contusion	Unknown SOURCE
1=Minor	Upper extremity skin abrasion	Unknown SOURCE
1=Minor	Upper extremity skin contusion	Unknown SOURCE
1=Minor	Upper extremity skin laceration, minor	Unknown SOURCE
1=Minor	Leg skin contusion (hematoma)	Unknown SOURCE
1=Minor	Leg skin abrasion	Unknown SOURCE
3=Serious	Pelvic fracture, open/displaced/comminuted	Unknown SOURCE
3=Serious	Pelvic fracture, open/displaced/comminuted	Unknown SOURCE

61 Case 1998-72-60

Summary:

Vehicle one was traveling southbound on a five lane divided roadway in the third travel lane approaching an intersection. Vehicle two was traveling northbound on the same roadway in the second travel lane passing through the same intersection. Vehicle one proceeded to make a left turn. Vehicle one impacted the front of vehicle two with its' own front plane. Following the impact, vehicle one sustained a small fire in the engine compartment (source: battery). Both vehicles were towed from the scene and both drivers were transported to the hospital with "A" injuries. There were no reported injuries for the two passengers in vehicle two.



Vehicle	Body type	Make	Model	Year	Occ.#	Age	Occupant's sex	Maximum known occupant ais
1	UTILITY STAWAGON	GMC	Suburban	1981	1	70	MALE	1=Minor
2	LARGE VAN	Ford	E-series Van	1996	1	29	MALE	1=Minor
2	LARGE VAN	Ford	E-series Van	1996	2	24	MALE	0=None
2	LARGE VAN	Ford	E-series Van	1996	3	23	MALE	1=Minor

Occupant: 1998-72-60-1-1



Fire Information

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



Crash Severity

Nr. Quarter Turns	No rollover
Impact Speed	998
Total, Longitudal, and Lateral δV	34 -22 -26
Est. δV with sequence number	DELTA V CODED 1
CDC	82 F D E W 2
Damage (C1-C6)	54 33 40 55 37 16
Crush (L and D)	190 0
Object Contacted 1	VEHICLE NO. 2
Object Contacted 2	0

NASS Weighting Factor

Weighting factor	13.93590262
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Rollover Characteristics

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

Pre-Crash Environment

Traffic Flow	DVDED/NO BARRIER
Number of Travel Lanes	THREE
Roadway Alignment	STRAIGHT
Roadway Profile	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 Suburban
Year	1981
Class	TRUCK
Body Type	UTILITY STAWAGON
Weight	225

Pre-Crash Driver Data

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

DRIVER Factors

Age	70	Height	165	Weight	109
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	1998-72-60-1-1
MAIS	1=Minor
Seat Position	Front left side

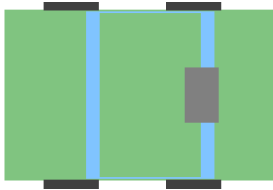
AIS Level	Injury Description	Contacts
1=Minor	Acute cervical spine strain without fracture or dislocation	Other noncontact
1=Minor	Thoracic skin contusion	Sterring hub
1=Minor	Leg skin contusion (hematoma)	Left apnel

Occupant: 1998-72-60-2-1



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	30 -30 -5
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	13.93590262
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Rollover Characteristics

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

Pre-Crash Environment

Traffic Flow	DVDED/NO BARRIER
Number of Travel Lanes	THREE
Roadway Alignment	STRAIGHT
Roadway Profile	LEVEL
Roadway Surface Type	ASPHALT
Roadway Surface Condition	DRY
Light Conditions	DAYLIGHT
Atmospheric Conditions	No ADVERSE COND
Relation to Intersection	INTERSECTION 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	1996
Class	TRUCK
Body Type	LARGE VAN
Weight	241

Pre-Crash Driver Data

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

DRIVER Factors

Age	29	Height	173	Weight	85
Gender			MALE		
Ejection			No EJECTION		
Ejection Area			No EJECTION		
Entrapment			ENTRAPPED		

Restraint Factors

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

Injuries

Occupant	1998-72-60-2-1
MAIS	1=Minor
Seat Position	Front left side

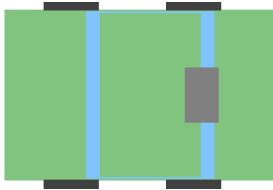
AIS Level	Injury Description	Contacts
1=Minor	Wrist (carpus) joint sprain	Steering rim
1=Minor	Wrist (carpus) joint sprain	Steering rim
1=Minor	Leg skin abrasion	Left interior
1=Minor	Leg skin laceration, minor	Left interior

Occupant: 1998-72-60-2-2



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	30 -30 -5
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	13.93590262
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Rollover Characteristics

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

Pre-Crash Environment

Traffic Flow	DVDED/NO BARRIER
Number of Travel Lanes	THREE
Roadway Alignment	STRAIGHT
Roadway Profile	LEVEL
Roadway Surface Type	ASPHALT
Roadway Surface Condition	DRY
Light Conditions	DAYLIGHT
Atmospheric Conditions	No ADVERSE COND
Relation to Intersection	INTERSECTION 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	1996
Class	TRUCK
Body Type	LARGE VAN
Weight	241

Pre-Crash Driver Data

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

PASSENGER Factors

Age	24	Height	175	Weight	82
Gender			MALE		
Ejection			No EJECTION		
Ejection Area			No EJECTION		
Entrapment			Not ENTRAPPED		

Restraint Factors

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

Injuries

Occupant	1998-72-60-2-2
MAIS	0=None
Seat Position	Front right side

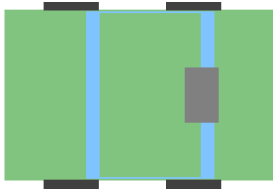
AIS Level	Injury Description	Contacts
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Occupant: 1998-72-60-2-3



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	30 -30 -5
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	13.93590262
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Rollover Characteristics

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

Pre-Crash Environment

Traffic Flow	DVDED/NO BARRIER
Number of Travel Lanes	THREE
Roadway Alignment	STRAIGHT
Roadway Profile	LEVEL
Roadway Surface Type	ASPHALT
Roadway Surface Condition	DRY
Light Conditions	DAYLIGHT
Atmospheric Conditions	No ADVERSE COND
Relation to Intersection	INTERSECTION 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	1996
Class	TRUCK
Body Type	LARGE VAN
Weight	241

Pre-Crash Driver Data

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

PASSENGER Factors

Age	23	Height	175	Weight	84
Gender			MALE		
Ejection			No EJECTION		
Ejection Area			No EJECTION		
Entrapment			Not ENTRAPPED		

Restraint Factors

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

Injuries

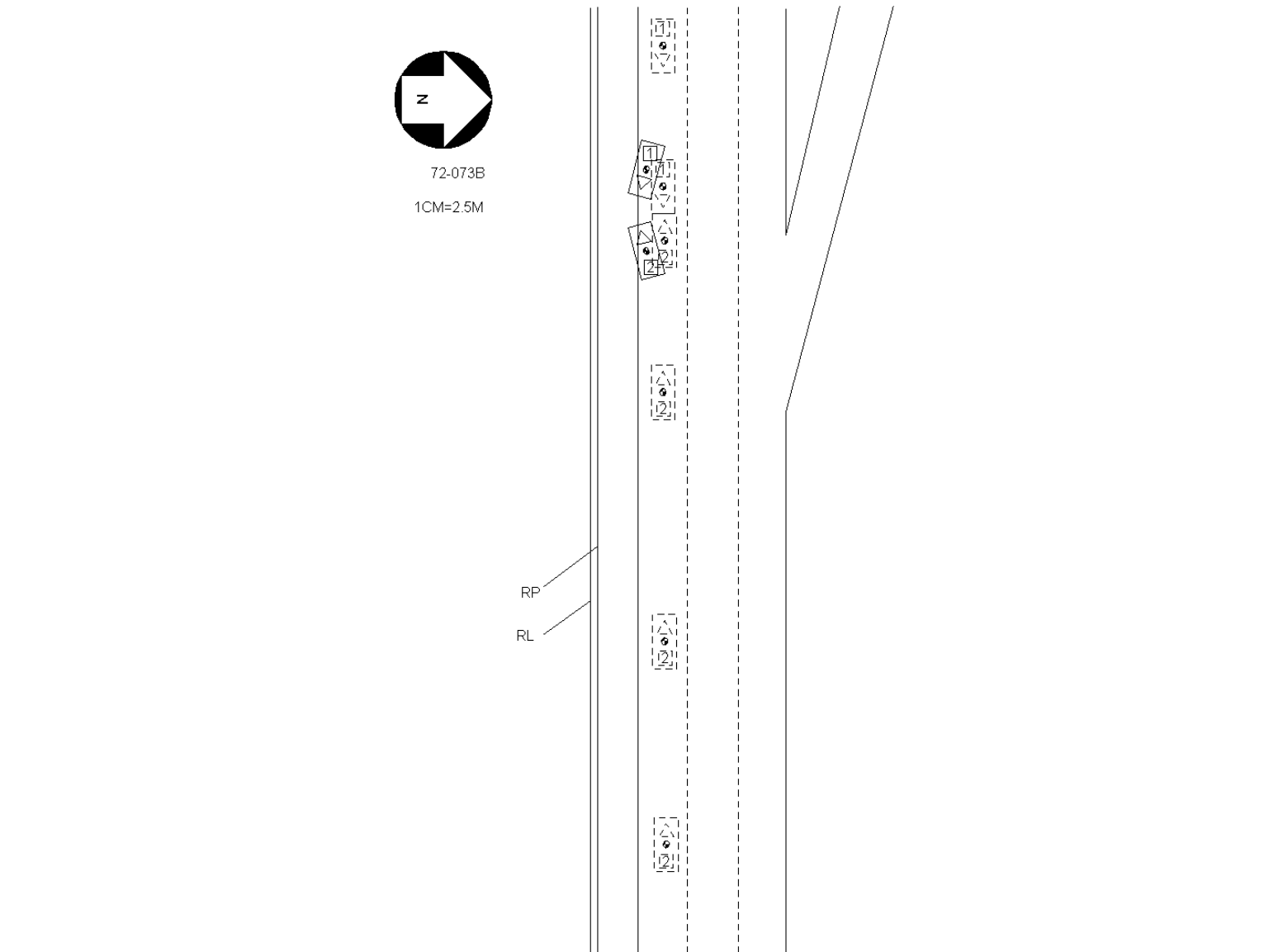
Occupant	1998-72-60-2-3
MAIS	1=Minor
Seat Position	Second middle

AIS Level	Injury Description	Contacts
1=Minor	Wrist (carpus) joint sprain	Seat, back

62 Case 1998-72-73

Summary:

VEHICLE ONE TRAVELING EASTBOUND IN THE WESTBOUND TRAVEL LANES OF A THREE-LANE, DIVIDED EXPRESSWAY. VEHICLE TWO TRAVELING WESTBOUND IN LANE THREE OF THE WESTBOUND TRAVEL LANES OF SAME EXPRESSWAY. VEHICLE ONE CONTACTED THE FRONT END OF VEHICLE TWO WITH ITS OWN FRONT END. UPON IMPACT VEHICLE TWO CAUGHT FIRE. BOTH VEHICLE WERE TOWED FROM THE SCENE DUE TO DAMAGE. THE DRIVER OF VEHICLE ONE SUSTAINED A "K" INJURY AND WAS TRANSPORTED. DRIVER OF VEHICLE TWO SUSTAINED A "K" INJURY AND WAS TRANSPORTED. PASSENGER IN VEHICLE TWO SUSTAINED AN "A" INJURY AND WAS TRANSPORTED.



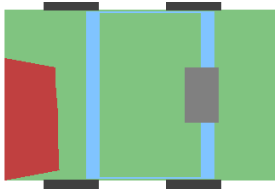
Vehicle	Body type	Make	Model	Year	Occ. Age	Occupant's sex	Maximum known occupant ais
1	4-DR SEDAN/HDTOP	Ford	Crown Victoria	1989	81	MALE	6=Maximum
2	4-DR SEDAN/HDTOP	Chevrolet	Caprice/Impala	1992	60	MALE	4=Severe
2	4-DR SEDAN/HDTOP	Chevrolet	Caprice/Impala	1992	28	FEMALE-NOT PREG	2=Moderate

Occupant: 1998-72-73-1-1



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



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	DAYLIGHT
Atmospheric Conditions	No ADVERSE COND
Relation to Intersection	INTERCHANGE REL
Traffic Control Device	
Police Reported Alcohol Presence	No ALCOHOL
Alcohol Test (< 95 indicates BAC 0.xx)	0

Crash Severity

Nr. Quarter Turns	No rollover
Impact Speed	998
Total, Longitudal, and Lateral δV	73 -73 < 0.5 KMPH
Est. δV with sequence number	DELTA V CODED 1
CDC	12 F D E W 3
Damage (C1-C6)	80 79 79 78 75 76
Crush (L and D)	180 0
Object Contacted 1	VEHICLE NO. 2
Object Contacted 2	0

NASS Weighting Factor

Weighting factor	3.9401959212
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Rollover Characteristics

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

Vehicle Factors

Make-Model	Ford Crown Victoria
Year	1989
Class	PASSENGER CAR
Body Type	4-DR SEDAN/HDTOP
Weight	169

Pre-Crash Driver Data

Accident Type	50
Pre-event Movement	GOING STRAIGHT
Critical Pre-crash Event	0
Attempted Avoidance Manuever	No AVOIDANCE
Pre-impact Stability	TRACKING
Pre-impact Location	STAYED IN LANE

DRIVER Factors

Age	81	Height	175	Weight	69
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	1998-72-73-1-1
MAIS	6=Maximum
Seat Position	Front left side

AIS Level	Injury Description	Contacts
6=Maximum	Brain stem laceration	Roof
3=Serious	Cerebellar subarachnoid hemorrhage	Roof
3=Serious	Cerebral subarachnoid hemorrhage	Front header
2=Moderate	Skull fracture, vault, closed (simple, undisplaced)	Roof
5=Critical	Myocardial laceration with perforation (+/- tamponade)	Steering comb
3=Serious	Lung laceration, unilateral NFS	Steering comb
4=Severe	>3 rib fxs on each side, stable chest	Steering comb
2=Moderate	Dislocation of atlanto-occipital	Roof
2=Moderate	Hyoid bone fracture	Steering rim
2=Moderate	Zygoma fracture	Front header
2=Moderate	Zygoma fracture	Front header
2=Moderate	Maxillary fracture NFS	Windshield
1=Minor	Mandible fracture NFS	Windshield
2=Moderate	Tibial shaft fracture	Left apnel
2=Moderate	Fibular head, neck, or shaft fracture	Left apnel
1=Minor	Facial skin laceration, minor	Front header
1=Minor	Facial skin contusion	Front header
1=Minor	Facial skin laceration, minor	Windshield
1=Minor	Facial skin laceration, minor	Windshield
1=Minor	Thoracic skin contusion	Steering comb
1=Minor	Thoracic skin abrasion	Steering comb
1=Minor	Upper extremity skin contusion	Steering comb
1=Minor	Upper extremity skin abrasion	Left apnel
1=Minor	Leg skin abrasion	Left apnel
1=Minor	Leg skin laceration, minor	Left apnel

Occupant: 1998-72-73-2-1



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	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	76 -76 < 0.5 KMPH
Est. δV with sequence number	DELTA V CODED 1
CDC	12 F D E W 4
Damage (C1-C6)	88 90 88 85 81 78
Crush (L and D)	185 0
Object Contacted 1	VEHICLE NO. 1
Object Contacted 2	0

NASS Weighting Factor

Weighting factor	3.9401959212
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Rollover Characteristics

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

Pre-Crash Environment

Traffic Flow	DVDED/W/BARRIER
Number of Travel Lanes	THREE
Roadway Alignment	STRAIGHT
Roadway Profile	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	Chevrolet Caprice/Impala
Year	1992
Class	PASSENGER CAR
Body Type	4-DR SEDAN/HDTOP
Weight	164

Pre-Crash Driver Data

Accident Type	51
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	60	Height	147	Weight	64
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 BAG DEPLOYED
Airbag Deployment - Oth Seat	Not EQUIP W/ OTH

Injuries

Occupant	1998-72-73-2-1
MAIS	4=Severe
Seat Position	Front left side

AIS Level	Injury Description	Contacts
1=Minor	Scalp laceration, minor	Bagcover-DR side
1=Minor	Scalp contusion	Bagcover-DR side
1=Minor	Thoracic skin contusion	Steering comb
4=Severe	>3 rib fxs on one side & <3 other side & hemo-/pneumothorax	Steering comb
1=Minor	Abdominal skin abrasion	Air bag-DR side
1=Minor	Leg skin abrasion	Center panel
1=Minor	Leg skin laceration, minor	Knee bolster
2=Moderate	Tibial shaft fracture	Knee bolster
3=Serious	Tibial shaft fracture, open/displaced/comminuted	Center panel
2=Moderate	Fibular head, neck, or shaft fracture	Center panel
2=Moderate	Foot fracture NFS	Center panel
7=Unk. sev.	Abdominal injury, blunt	Steering rim
3=Serious	Unconscious on admission, length <1 hour	Bagcover-DR side

Occupant: 1998-72-73-2-2



Fire Information

Fire Occurrence	Major fire
Fire Origin	Engine compartment
Location of Fuel Leakage	No fuel leakage
Type of Fuel Tank	Metallic
Fuel Tank Location	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	76 -76 < 0.5 KMPH
Est. δV with sequence number	DELTA V CODED 1
CDC	12 F D E W 4
Damage (C1-C6)	88 90 88 85 81 78
Crush (L and D)	185 0
Object Contacted 1	VEHICLE NO. 1
Object Contacted 2	0

NASS Weighting Factor

Weighting factor	3.9401959212
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Rollover Characteristics

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

Pre-Crash Environment

Traffic Flow	DVDED/W/BARRIER
Number of Travel Lanes	THREE
Roadway Alignment	STRAIGHT
Roadway Profile	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	Chevrolet Caprice/Impala
Year	1992
Class	PASSENGER CAR
Body Type	4-DR SEDAN/HDTOP
Weight	164

Pre-Crash Driver Data

Accident Type	51
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	28	Height	0	Weight	0
Gender					FEMALE-NOT PREG
Ejection					No EJECTION
Ejection Area					No EJECTION
Entrapment					Not ENTRAPPED

Restraint Factors

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

Injuries

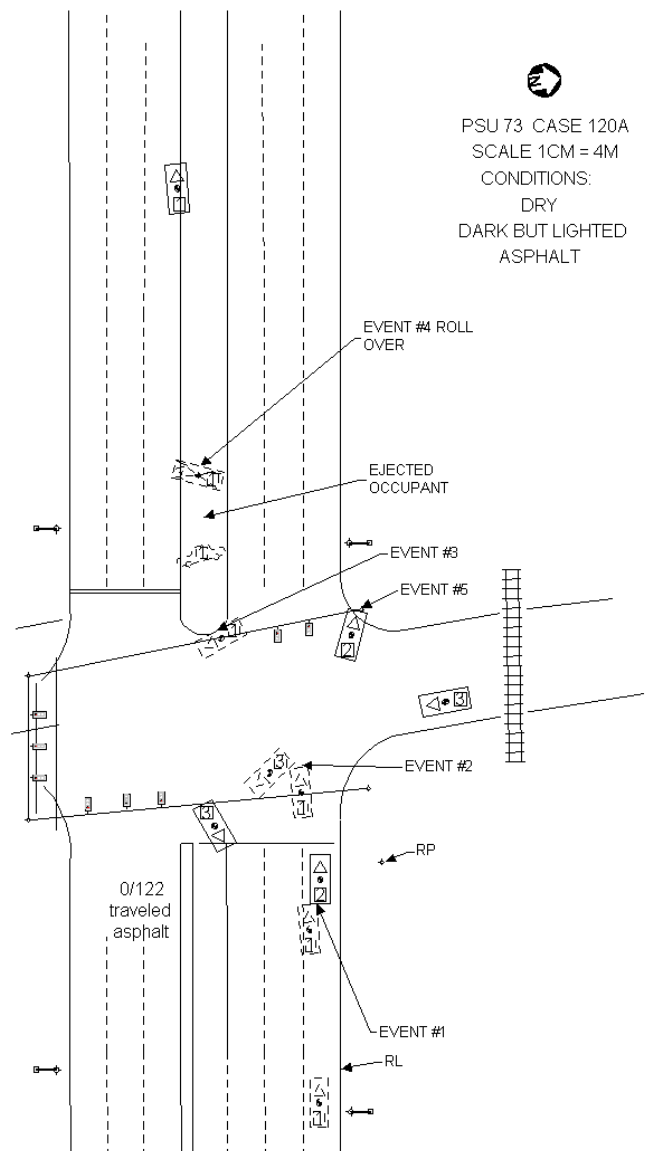
Occupant	1998-72-73-2-2
MAIS	2=Moderate
Seat Position	Second right

AIS Level	Injury Description	Contacts
2=Moderate	Thoracic vertebral body fracture, minor (<202=Moderate)	Awake on admission, unconscious <1 hour
Windshield		
2=Moderate	Zygoma fracture	Windshield
1=Minor	Nose fracture, closed	Windshield
2=Moderate	Orbit fracture, closed	Windshield
2=Moderate	Maxillary fracture, closed	Windshield
1=Minor	Upper extremity skin laceration, minor	Flying glass
1=Minor	Upper extremity skin contusion	Head restraint
2=Moderate	Facial skin laceration, major (>10 cm & into sub-Q)	Windshield
1=Minor	297802	Windshield
1=Minor	Facial skin laceration, minor	Windshield
1=Minor	Facial skin laceration, minor	Windshield
1=Minor	Neck skin contusion (hematoma)	Head restraint
1=Minor	Thoracic skin abrasion	Seat, back
1=Minor	Thoracic skin contusion	Seat, back
1=Minor	Leg skin abrasion	Seat, back

63 Case 1998-73-120

Summary:

V1 was westbound on a six lane divided highway in the outside lane approaching an intersection. V2 was westbound on the same highway in the outside lane stopped at the intersection. V3 was southbound on a two lane one way street anticipating a left turn at the same intersection. V1's front collided with the rear of V2. V1 separated from V2 and continued forward. V3 was partially through the intersection when the front of V1 struck the left rear side of V3. V1 continued to rotate counter clockwise until the right front wheels struck the raised curb on the median on the west side of the intersection. V1 then started to roll due to the tripping action of the curb. V1 rolled a complete turn coming to rest on it's wheels half in the inside eastbound lane and median facing west. V2 continued across the intersection striking a traffic signal pole on the northwest corner of the intersection where it came to final rest. V3 was spun counterclockwise coming to rest in the middle of the intersection facing northeast. All three vehicles were towed due to damage. The driver of V1 was partially ejected and transported to an area hospital for treatment. The passenger of V1 was totally ejected and died a few hours later at the same area hospital. The driver of V2 was extracted from the vehicle and transported to an area hospital for treatment. The driver of V3 received minor injuries and was transported and released.. V1 had depowered airbags which deployed at impact.



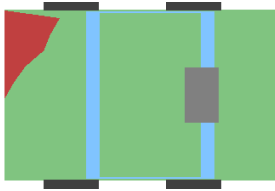
Vehicle	Vehicle type	Make	Model	Year	Age	Occupant's sex	Maximum known occupant ais
1	4-DR SEDAN/HDTOP	Mercury	Mystique	1998	19	MALE	5=Critical
1	4-DR SEDAN/HDTOP	Mercury	Mystique	1998	35	FEMALE-NOT PREG	5=Critical
2	LARGE PICKUP	Chevrolet	C/K-series Pickup	1992	35	MALE	3=Serious
3	COMPACT PICKUP	Mazda	Pickup	1995	50	FEMALE-NOT PREG	1=Minor

Occupant: 1998-73-120-1-1



Fire Information

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



Pre-Crash Environment

Traffic Flow	DVDED/NO 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	INTERSECTION REL
Traffic Control Device	
Police Reported Alcohol Presence	ALCOHOL PRESENT
Alcohol Test (< 95 indicates BAC 0.xx)	30

Vehicle Factors

Make-Model	Mercury Mystique
Year	1998
Class	PASSENGER CAR
Body Type	4-DR SEDAN/HDTOP
Weight	127

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 1
CDC	12 F Z A W 7
Damage (C1-C6)	0 14 30 58 67 80
Crush (L and D)	140 -27
Object Contacted 1	VEHICLE NO. 2
Object Contacted 2	VEHICLE NO. 3

Pre-Crash Driver Data

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

NASS Weighting Factor

Weighting factor	36.094485318
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DRIVER Factors

Rollover Characteristics

Number of Events	5
Rollover Initiation Type	TRIP-OVER
Location of Rollover Initiation	ROADSIDE/MEDIAN
Rollover Initiation Object Contacted	CURB
Location on Vehicle where Principal Tripping Force was Applied	WHEELS/TIRES
Direction of Initial Roll	ROLL RIGHT

Age	19	Height	0	Weight	0
Gender					MALE
Ejection					PARTIAL EJECTION
Ejection Area					ROOF
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	1998-73-120-1-1
MAIS	5=Critical
Seat Position	Front left side

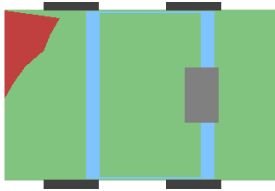
AIS Level	Injury Description	Contacts
5=Critical	Brainstem contusion	Roof
4=Severe	Unconscious on admission, moves appropriately only to pain	Roof
1=Minor	297602	Air bag-DR side
1=Minor	Scalp abrasion	Air bag-DR side
1=Minor	Facial skin abrasion	Air bag-DR side
1=Minor	Facial skin abrasion	Air bag-DR side
1=Minor	Facial skin laceration, minor	Air bag-DR side
1=Minor	Facial skin laceration, minor	Air bag-DR side
1=Minor	Neck skin abrasion	Air bag-DR side
1=Minor	Thoracic skin contusion	Steering hub
1=Minor	Thoracic skin abrasion	Steering rim
1=Minor	Upper extremity skin abrasion	Steering rim
1=Minor	Abdominal skin abrasion	Steering rim
1=Minor	Leg skin abrasion	Steering rim
1=Minor	Upper extremity skin abrasion	Air bag-DR side
1=Minor	Upper extremity skin contusion	Air bag-DR side
1=Minor	Upper extremity skin laceration, minor	Air bag-DR side

Occupant: 1998-73-120-1-2



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	Right side, behind rear axle
Fuel Tank Damage	No damage
Fuel Type	Gasoline



Pre-Crash Environment

Traffic Flow	DVDED/NO BARRIER
Number of Travel Lanes	FOUR
Roadway Alignment	STRAIGHT
Roadway Profile	LEVEL
Roadway Surface Type	ASPHALT
Roadway Surface Condition	DRY
Light Conditions	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)	30

Vehicle Factors

Make-Model	Mercury Mystique
Year	1998
Class	PASSENGER CAR
Body Type	4-DR SEDAN/HDTOP
Weight	127

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 1
CDC	12 F Z A W 7
Damage (C1-C6)	0 14 30 58 67 80
Crush (L and D)	140 -27
Object Contacted 1	VEHICLE NO. 2
Object Contacted 2	VEHICLE NO. 3

Pre-Crash Driver Data

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

NASS Weighting Factor

Weighting factor	36.094485318
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PASSENGER Factors

Age	35	Height	168	Weight	113
Gender					FEMALE-NOT PREG
Ejection					COMPLETE EJECT
Ejection Area					ROOF
Entrapment					Not ENTRAPPED

Rollover Characteristics

Number of Events	5
Rollover Initiation Type	TRIP-OVER
Location of Rollover Initiation	ROADSIDE/MEDIAN
Rollover Initiation Object Contacted	CURB
Location on Vehicle where Principal Tripping Force was Applied	WHEELS/TIRES
Direction of Initial Roll	ROLL RIGHT

Restraint Factors

AIS Level

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

5=Critical

Injuries

Occupant	1998-73-120-1-2
MAIS	5=Critical
Seat Position	Front right side

3=Serious

4=Severe

3=Serious

2=Moderate

Ground
2=Moderate

In- jury	Con- tacts
De- scrip- tion	

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Occupant: 1998-73-120-2-1



Fire Information

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



Pre-Crash Environment

Traffic Flow	DVDED/NO 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	INTERSECTION REL
Traffic Control Device	
Police Reported	Alcohol Not REPORTED
Presence	
Alcohol Test (< 95 indicates	0
BAC 0.xx)	

Crash Severity

Nr. Quarter Turns	No rollover
Impact Speed	< 0.5KMPH
Total, Longitudal, and Lateral δV	< 0.5 KMPH < 0.5 KMPH <
Est. δV with sequence number	0.5 KMPH
CDC	SEVERE 1
Damage (C1-C6)	86 B Y E W 9
Crush (L and D)	129 119 122 117 95 66
Object Contacted 1	180 0
Object Contacted 2	VEHICLE NO. 1
	MEDIUM POLE

NASS Weighting Factor

Weighting factor	36.094485318
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Rollover Characteristics

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

Vehicle Factors

Make-Model	Chevrolet C/K-series Pickup
Year	1992
Class	TRUCK
Body Type	LARGE PICKUP
Weight	169

Pre-Crash Driver Data

Accident Type	23
Pre-event Movement	STOPPED IN LANE
Critical Pre-crash Event	Same DIR-HISPEED
Attempted Avoidance Maneuver	No AVOIDANCE
Pre-impact Stability	TRACKING
Pre-impact Location	STAYED IN LANE

DRIVER Factors

Age	35	Height	0	Weight	0
Gender					MALE
Ejection					No EJECTION
Ejection Area					No EJECTION
Entrapment					ENTRAPPED

Restraint Factors

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

Injuries

Occupant	1998-73-120-2-1
MAIS	3=Serious
Seat Position	Front left side

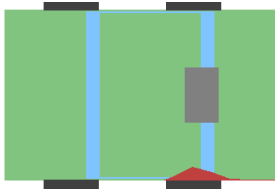
AIS Level	Injury Description	Contacts
3=Serious	Orbit fracture, open/displaced/comminuted	Steering comb
1=Minor	Mandible body fracture, closed, +/- ramus involvement	Steering comb
1=Minor	Mandible ramus fracture, closed	Steering comb
2=Moderate	Pelvic fracture, closed	Steering rim
2=Moderate	Hip joint dislocation not involving articular cartilage	Steering rim
3=Serious	Tibial shaft fracture, open/displaced/comminuted	Left apnel
2=Moderate	Fibular head, neck, or shaft fracture	Left apnel
1=Minor	Conjunctiva injury	Steering comb
1=Minor	Facial skin laceration, minor	Steering comb
1=Minor	Facial skin laceration, minor	Steering comb
1=Minor	297402	Steering comb
1=Minor	Upper extremity skin abrasion	Left apnel
1=Minor	Leg skin contusion (hematoma)	Steering rim
1=Minor	Leg skin abrasion	Left apnel

Occupant: 1998-73-120-3-1



Fire Information

Fire Occurrence	No fire
Fire Origin	No fire
Location of Fuel Leakage	No fuel leakage
Type of Fuel Tank	Non-metallic
Fuel Tank Location	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	ONE WAY
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 Not REPORTED
Presence	
Alcohol Test (< 95 indicates	0
BAC 0.xx)	

Crash Severity

Nr. Quarter Turns	No rollover
Impact Speed	< 0.5KMPH
Total, Longitudal, and Lateral δV	< 0.5 KMPH < 0.5 KMPH <
Est. δV with sequence number	0.5 KMPH
CDC	MINOR 2
Damage (C1-C6)	10 L B E W 2
Crush (L and D)	6 19 12 2 1 0
Object Contacted 1	164 -195
Object Contacted 2	VEHICLE NO. 1
	0

NASS Weighting Factor

Weighting factor	36.094485318
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Rollover Characteristics

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

Vehicle Factors

Make-Model	Mazda Pickup
Year	1995
Class	TRUCK
Body Type	COMPACT PICKUP
Weight	137

Pre-Crash Driver Data

Accident Type	98
Pre-event Movement	TURNING LEFT
Critical Pre-crash Event	XING ST-X PATH
Attempted Avoidance Manuever	No AVOIDANCE
Pre-impact Stability	TRACKING
Pre-impact Location	Left TRAVEL LANE

DRIVER Factors

Age	50	Height	170	Weight	68
Gender					FEMALE-NOT PREG
Ejection					No EJECTION
Ejection Area					No EJECTION
Entrapment					Not ENTRAPPED

Restraint Factors

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

Injuries

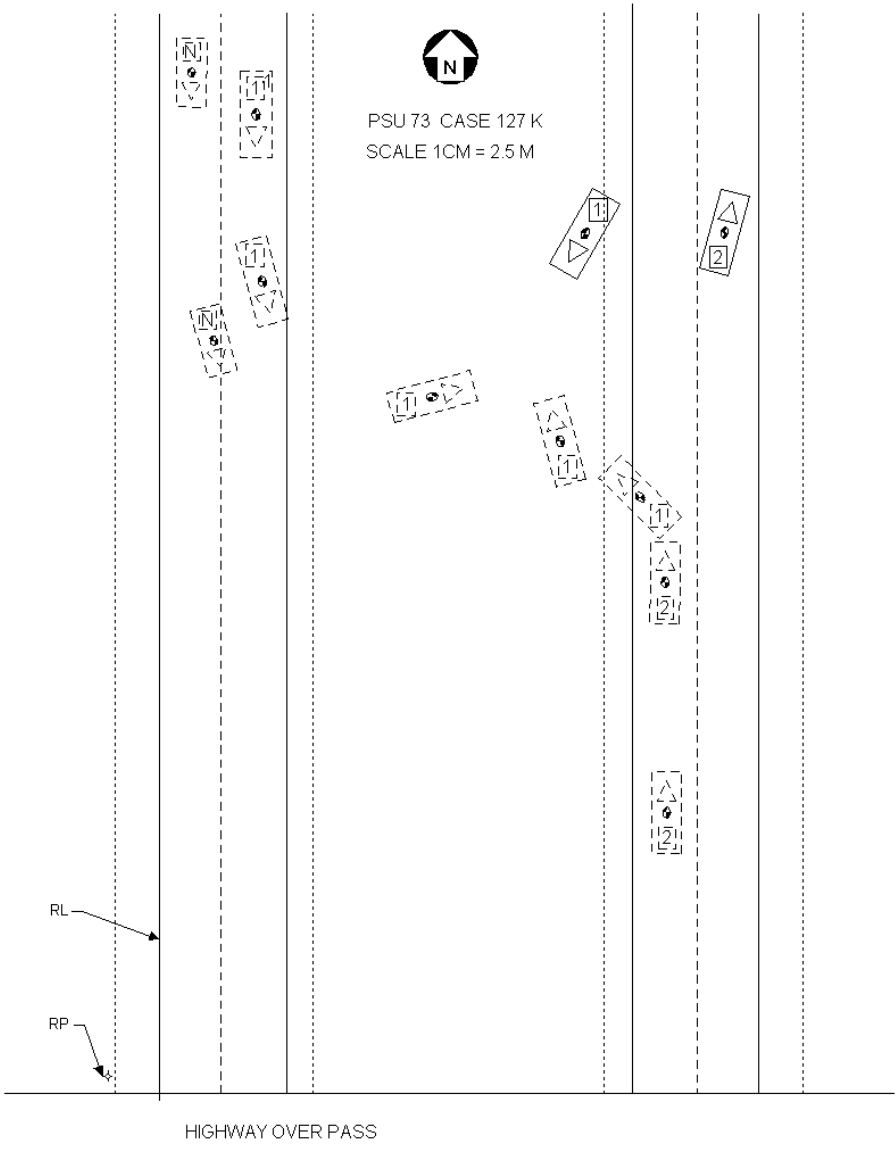
Occupant	1998-73-120-3-1
MAIS	1=Minor
Seat Position	Front left side

AIS Level	Injury Description	Contacts
1=Minor	Acute cervical spine strain without fracture or dislocation	Other noncontact
1=Minor	Skin contusion (body region unknown)	Unknown SOURCE

64 Case 1998-73-127

Summary:

V1 was southbound on a four lane two way divided interstate in the inside lane. V2 was northbound on the same interstate in the inside lane. V1 departed the roadway onto the grassy median. V1 rotated counterclockwise several times and finally came to a stop in the inside northbound lane facing northwest. V2's front collided with the rear of V1. V2 came to rest in the inside lane facing north. V1's final rest was near impact with V2. Both vehicles were towed due to damage. The driver of V1 was not injured. The driver and two passengers of V2 were transported to an area hospital for treatment.



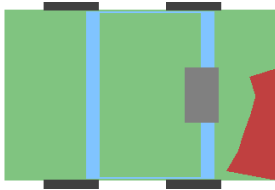
Vehicle	Body type	Make	Model	Year	Occ.#	Age	Occupant's sex	Maximum known occupant ais
1	2DR SEDAN/HT/CPE	Chevrolet	Lumina	1992	1	38	FEMALE-NOT PREG	0=None
2	4-DR SEDAN/HDTOP	Oldsmobile	Calais	1986	1	21	MALE	2=Moderate
2	4-DR SEDAN/HDTOP	Oldsmobile	Calais	1986	2	20	FEMALE-NOT PREG	2=Moderate
2	4-DR SEDAN/HDTOP	Oldsmobile	Calais	1986	3	24	MALE	3=Serious

Occupant: 1998-73-127-1-1



Fire Information

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



Pre-Crash Environment

Traffic Flow	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 Not REPORTED
Presence	
Alcohol Test (< 95 indicates	0
BAC 0.xx)	

Crash Severity

Nr. Quarter Turns	No rollover
Impact Speed	998
Total, Longitudal, and Lateral δV	26 19 19
Est. δV with sequence number	DELTA V CODED 1
CDC	68 B D E W 7
Damage (C1-C6)	73 57 48 38 31 40
Crush (L and D)	165 -26
Object Contacted 1	VEHICLE NO. 2
Object Contacted 2	0

NASS Weighting Factor

Weighting factor	52.863472831
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Rollover Characteristics

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

Vehicle Factors

Make-Model	Chevrolet Lumina
Year	1992
Class	PASSENGER CAR
Body Type	2DR SEDAN/HT/CPE
Weight	141

Pre-Crash Driver Data

Accident Type	21
Pre-event Movement	SUCES AVOID PREV
Critical Pre-crash Event	Oth CRIT EVENT
Attempted Avoidance Manuever	No DRIVER
Pre-impact Stability	LAT SKID-CTR CLK
Pre-impact Location	RETURNED TO ROAD

DRIVER Factors

Age	38	Height	163	Weight	59
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	1998-73-127-1-1
MAIS	0=None
Seat Position	Front left side

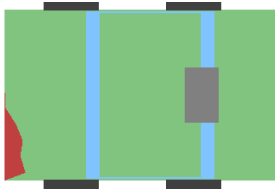
AIS Level	Injury Description	Contacts
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Occupant: 1998-73-127-2-1



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	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 Not REPORTED
Presence	
Alcohol Test (< 95 indicates BAC 0.xx)	0

Vehicle Factors

Make-Model	Oldsmobile Calais
Year	1986
Class	PASSENGER CAR
Body Type	4-DR SEDAN/HDTOP
Weight	114

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 E W 3
Damage (C1-C6)	31 23 27 17 2 0
Crush (L and D)	140 0
Object Contacted 1	VEHICLE NO. 1
Object Contacted 2	0

Pre-Crash Driver Data

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

NASS Weighting Factor

Weighting factor	52.863472831
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DRIVER Factors

Rollover Characteristics

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

Age	21	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	1998-73-127-2-1
MAIS	2=Moderate
Seat Position	Front left side

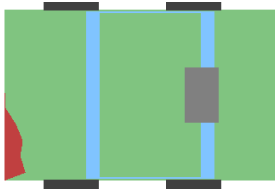
AIS Level	Injury Description	Contacts
1=Minor	Facial skin abrasion	Sunvisor
1=Minor	Leg skin laceration, minor	Left apnel
1=Minor	Leg skin abrasion	Left apnel
1=Minor	Thoracic skin contusion	Steering comb
1=Minor	Upper extremity skin laceration, minor	Left apnel
2=Moderate	Awake on admission, amnesia	Sunvisor

Occupant: 1998-73-127-2-2



Fire Information

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



Pre-Crash Environment

Traffic Flow	DVDED/NO BARRIER
Number of Travel Lanes	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 Not REPORTED
Presence	
Alcohol Test (< 95 indicates	0
BAC 0.xx)	

Vehicle Factors

Make-Model	Oldsmobile Calais
Year	1986
Class	PASSENGER CAR
Body Type	4-DR SEDAN/HDTOP
Weight	114

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 E W 3
Damage (C1-C6)	31 23 27 17 2 0
Crush (L and D)	140 0
Object Contacted 1	VEHICLE NO. 1
Object Contacted 2	0

Pre-Crash Driver Data

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

NASS Weighting Factor

Weighting factor	52.863472831
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PASSENGER Factors

Age	20	Height	165	Weight	64
Gender					FEMALE-NOT PREG
Ejection					No EJECTION
Ejection Area					No EJECTION
Entrapment					ENTRAPPED

Rollover Characteristics

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

Restraint Factors

Restrain	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	1998-73-127-2-2
MAIS	2=Moderate
Seat Position	Front right side

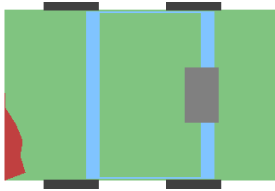
AIS Level	Injury Description	Contacts
1=Minor	Facial skin laceration, minor	Windshield
1=Minor	Facial skin laceration, minor	Windshield
1=Minor	Facial skin laceration, minor	Windshield
2=Moderate	Awake on admission, unconscious <1 hour	Windshield
1=Minor	Leg skin contusion (hematoma)	Right panel

Occupant: 1998-73-127-2-3



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



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 Not REPORTED
Presence	
Alcohol Test (< 95 indicates	0
BAC 0.xx)	

Vehicle Factors

Make-Model	Oldsmobile Calais
Year	1986
Class	PASSENGER CAR
Body Type	4-DR SEDAN/HDTOP
Weight	114

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 E W 3
Damage (C1-C6)	31 23 27 17 2 0
Crush (L and D)	140 0
Object Contacted 1	VEHICLE NO. 1
Object Contacted 2	0

Pre-Crash Driver Data

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

NASS Weighting Factor

Weighting factor	52.863472831
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PASSENGER Factors

Age	24	Height	183	Weight	82
Gender			MALE		
Ejection			No EJECTION		
Ejection Area			No EJECTION		
Entrapment			Not ENTRAPPED		

Rollover Characteristics

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

Restraint Factors

Restrain	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

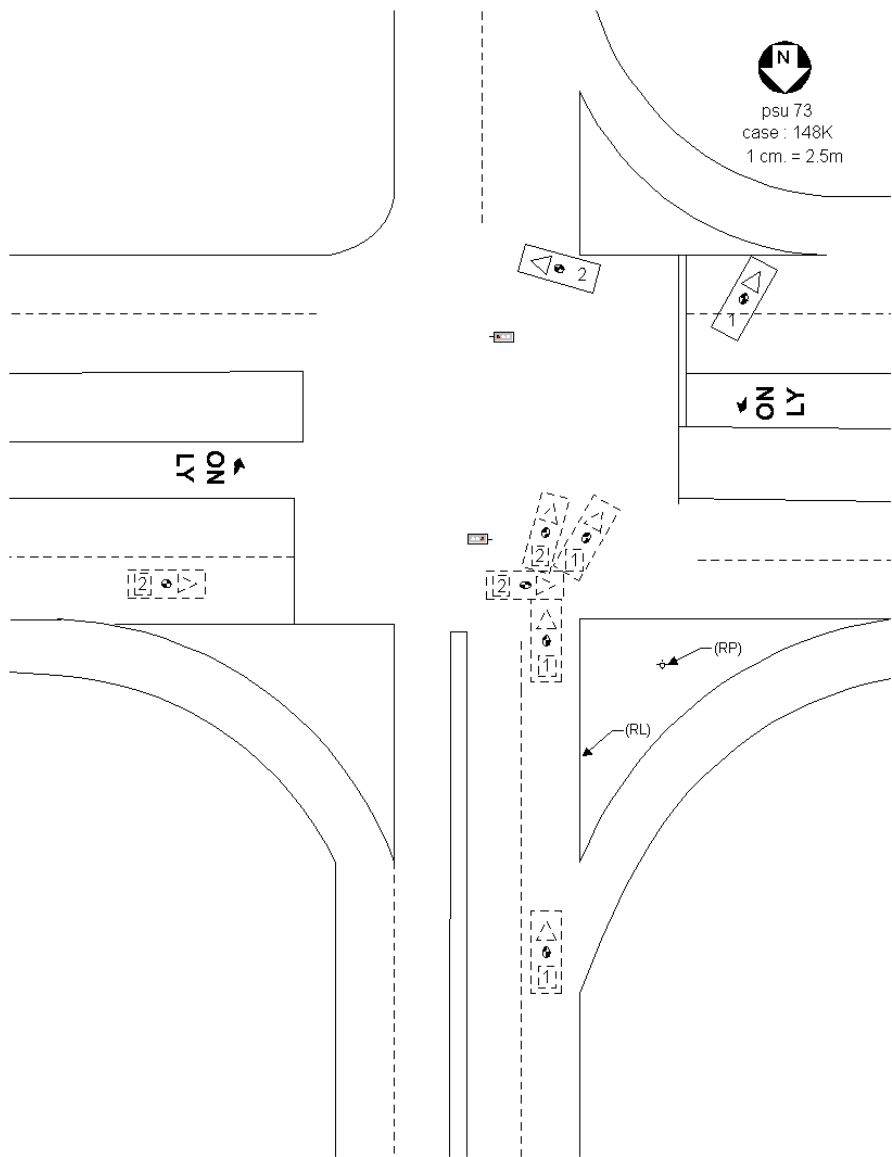
Occupant	1998-73-127-2-3
MAIS	3=Serious
Seat Position	Second right

AIS Level	Injury Description	Contacts
3=Serious	Radial fracture, open/displaced/comminuted	Center panel
1=Minor	Facial skin avulsion, superficial	Mirror
1=Minor	Upper extremity skin contusion	Center panel
1=Minor	Upper extremity skin laceration, minor	Center panel
1=Minor	Upper extremity skin abrasion	Seat, back
1=Minor	Leg skin laceration, minor	Seat, back
1=Minor	Scalp laceration, minor	Windshield

65 Case 1998-73-148

Summary:

Vehicle 1 was traveling south on a two way, four lane service road next to a highway in the first southbound lane. Vehicle 2 was traveling west on an intersecting five lane roadway in the first westbound lane. V1 struck Vehicle 2 at the intersection. Vehicle 1 struck Vehicle 2 on the right front side with the front end. The two vehicles side slapped for a second impact before coming to final rest. Vehicle 1 sustained damage to the left side and Vehicle 2 sustained damage to the right side from the second impact. Both vehicles came to final rest at the southwest corner of the intersection. The driver of Vehicle 2 was partially ejected through the passenger side window and struck his head on the A-pillar of Vehicle 1. The driver of Vehicle 1 was was the only occupant in Vehicle 1. Vehicle 2 was occupied by the driver only. Both were transported to an area hospital for treatment. A small fire occurred in the engine compartment of Vehicle 2 and was extinguished by police within minutes at the scene before the fire department arrived. Both vehicles were towed from the crash scene due to damage.



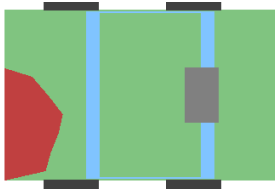
Vehicle	Body type	Make	Model	Year	Occ.#	Age	Occupant's sex	Maximum known occupant ais
1	4-DR SEDAN/HDTOP	Oldsmobile	Delta 88	1988	1	24	MALE	3=Serious
2	COMPACT PICKUP	Dodge	Dakota	1989	1	23	MALE	1=Minor

Occupant: 1998-73-148-1-1



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	TWO
Roadway Alignment	STRAIGHT
Roadway Profile	LEVEL
Roadway Surface Type	ASPHALT
Roadway Surface Condition	DRY
Light Conditions	DARK/LIGHTED
Atmospheric Conditions	No ADVERSE COND
Relation to Intersection	INTERSECTION REL
Traffic Control Device	
Police Reported Alcohol Presence	ALCOHOL PRESENT
Alcohol Test (< 95 indicates BAC 0.xx)	11

Vehicle Factors

Make-Model	Oldsmobile Delta 88
Year	1988
Class	PASSENGER CAR
Body Type	4-DR SEDAN/HDTOP
Weight	152

Crash Severity

Nr. Quarter Turns	No rollover
Impact Speed	998
Total, Longitudal, and Lateral δV	58 -57 10
Est. δV with sequence number	DELTA V CODED 1
CDC	12 F D E W 3
Damage (C1-C6)	60 68 79 85 64 41
Crush (L and D)	165 -18
Object Contacted 1	VEHICLE NO. 2
Object Contacted 2	VEHICLE NO. 2

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

NASS Weighting Factor

Weighting factor	40.858804966
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DRIVER Factors

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

Age	24	Height	175	Weight	61
Gender			MALE		
Ejection			No EJECTION		
Ejection Area			No EJECTION		
Entrapment			JAMMED DOOR/FIRE		

Restraint Factors

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

Injuries

Occupant	1998-73-148-1-1
MAIS	3=Serious
Seat Position	Front left side

AIS Level	Injury Description	Contacts
3=Serious	Lung contusion, unilateral	Steering comb
1=Minor	Tongue laceration, superficial	Windshield
1=Minor	Facial skin laceration, minor	Windshield
1=Minor	Thoracic skin contusion	Steering comb
1=Minor	Abdominal skin contusion	Steering rim
1=Minor	Upper extremity skin contusion	Steering rim

Occupant: 1998-73-148-2-1



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, 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	55 -19 -52
Est. δV with sequence number	DELTA V CODED 1
CDC	82 R Y E W 5
Damage (C1-C6)	0 37 76 90 92 92
Crush (L and D)	180 128
Object Contacted 1	VEHICLE NO. 1
Object Contacted 2	VEHICLE NO. 1

NASS Weighting Factor

Weighting factor	40.858804966
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Rollover Characteristics

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

Pre-Crash Environment

Traffic Flow	DVDED/NO BARRIER
Number of Travel Lanes	THREE
Roadway Alignment	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	Dodge Dakota
Year	1989
Class	TRUCK
Body Type	COMPACT PICKUP
Weight	149

Pre-Crash Driver Data

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

DRIVER Factors

Age	23	Height	188	Weight	100
Gender			MALE		
Ejection			PARTIAL EJECTION		
Ejection Area			Right FRONT		
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

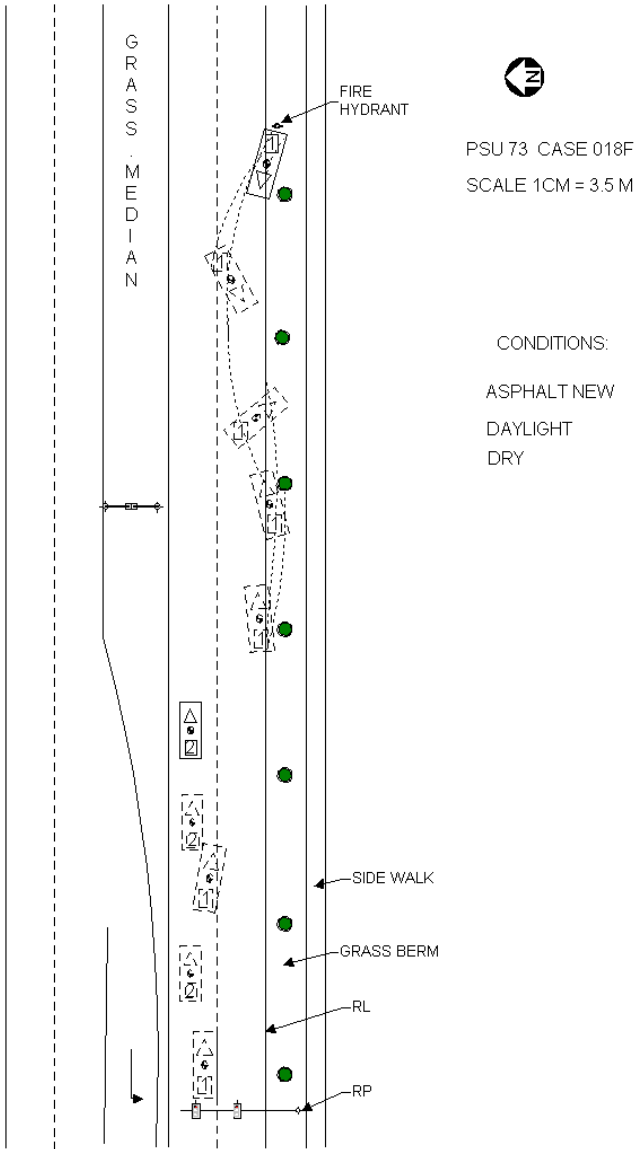
Occupant	1998-73-148-2-1
MAIS	1=Minor
Seat Position	Front left side

AIS Level	Injury Description	Contacts
1=Minor	Scalp laceration, NFS	Center panel
1=Minor	790800	Right panel
1=Minor	Facial skin laceration NFS	Center panel
1=Minor	Facial skin laceration NFS	Center panel
1=Minor	Awake on admission, NFS	Center panel

66 Case 1998-73-18

Summary:

V1 was eastbound on a four lane divided city street in the outside lane. V2 was eastbound on the same four lane divided city street in the inside lane. V1 moved to the left colliding with V2. V1 skidded across the right lane departed the street and struck a tree with the right side. V1 rotated clockwise around the tree and came to rest on the grass berm facing west. V2 came to rest (stopped) in the original travel lane. V1 was towed due to damage to the right side. V2 was not towed. The driver and passenger of V1 were transported to an area hospital for treatment. The driver of V2 was not injured.



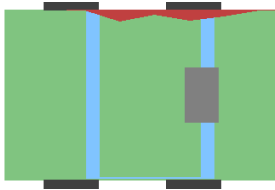
Vehicle	Body type	Make	Model	Year	Occ.#	Age	Occupant's sex	Maximum known occupant ais
1	4-DR SEDAN/HDTOP	Oldsmobile	Delta 88	1984	1	34	MALE	0=None
1	4-DR SEDAN/HDTOP	Oldsmobile	Delta 88	1984	2	53	MALE	2=Moderate

Occupant: 1998-73-18-1-1



Fire Information

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



Pre-Crash Environment

Traffic Flow	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	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	16 -15 -6
Est. δV with sequence number	DELTA V CODED 2
CDC	1 R Z A W 3
Damage (C1-C6)	0 16 6 15 8 0
Crush (L and D)	308 -87
Object Contacted 1	LARGE TREE
Object Contacted 2	VEHICLE NO. 2

NASS Weighting Factor

Weighting factor	546.55338251
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Rollover Characteristics

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

Vehicle Factors

Make-Model	Oldsmobile Delta 88
Year	1984
Class	PASSENGER CAR
Body Type	4-DR SEDAN/HDTOP
Weight	162

Pre-Crash Driver Data

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

DRIVER Factors

Age	34	Height	175	Weight	79
Gender					MALE
Ejection					No EJECTION
Ejection Area					No EJECTION
Entrapment					Not ENTRAPPED

Restraint Factors

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

Injuries

Occupant	1998-73-18-1-1
MAIS	0=None
Seat Position	Front left side

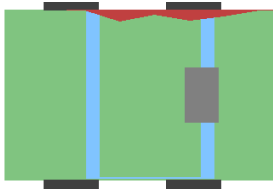
AIS Level	Injury Description	Contacts
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Occupant: 1998-73-18-1-2



Fire Information

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



Pre-Crash Environment

Traffic Flow	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	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	16 -15 -6
Est. δV with sequence number	DELTA V CODED 2
CDC	1 R Z A W 3
Damage (C1-C6)	0 16 6 15 8 0
Crush (L and D)	308 -87
Object Contacted 1	LARGE TREE
Object Contacted 2	VEHICLE NO. 2

NASS Weighting Factor

Weighting factor	546.55338251
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Rollover Characteristics

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

Vehicle Factors

Make-Model	Oldsmobile Delta 88
Year	1984
Class	PASSENGER CAR
Body Type	4-DR SEDAN/HDTOP
Weight	162

Pre-Crash Driver Data

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

PASSENGER Factors

Age	53	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

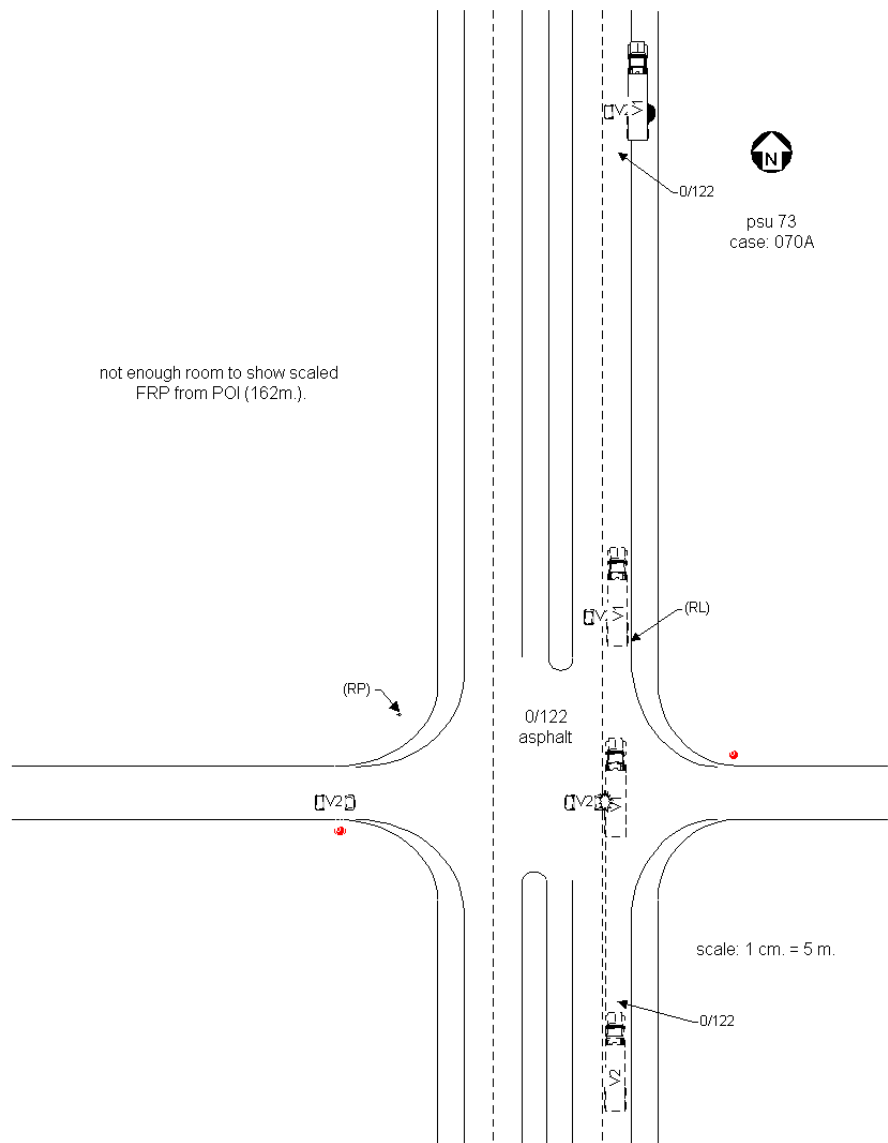
Occupant	1998-73-18-1-2
MAIS	2=Moderate
Seat Position	Front right side

AIS Level	Injury Description	Contacts
2=Moderate	Nose fracture, open/displaced/comminuted	Windshld PS side
1=Minor	Facial skin laceration, minor	Windshld PS side
1=Minor	Scalp contusion	Windshld PS side
1=Minor	Acute cervical spine strain without fracture or dislocation	Windshld PS side

67 Case 1998-73-70

Summary:

V2 was traveling east on a two way, two lane country road in the eastbound lane. V1 was traveling north on a two way, four lane intersecting divided highway in the first northbound lane. V2 struck V1 on the left side with the front end. V2 struck the side of the trailer V1 was pulling. V2 was wedged under the trailer and V1 traveled some distance trying to stop before both the vehicles came to final rest in the right northbound lane and shoulder of the highway. V2 caught fire from the impact and the driver was partially ejected upon impact and was dragged to final rest. V2 was occupied by the driver and two passengers. All three expired at the scene. All three occupants were dead prior to the fire burning their bodies V2 was completely burned.



Vehicle	Body type	Make	Model	Year	Occ.#	Age	Occupant's sex	Maximum known occupant ais
1	4-DR SEDAN/HDTOP	Chrysler	Cirrus	1997	1	32	MALE	5=Critical
1	4-DR SEDAN/HDTOP	Chrysler	Cirrus	1997	2	5	MALE	5=Critical
1	4-DR SEDAN/HDTOP	Chrysler	Cirrus	1997	3	3	FEMALE-NOT PREG	6=Maximum

Occupant: 1998-73-70-1-1



Fire Information

Fire Occurrence	Major fire
Fire Origin	Fuel tank
Location of Fuel Leakage	Other
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	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	DARK
Atmospheric Conditions	No ADVERSE COND
Relation to Intersection	INTERSECTION REL
Traffic Control Device	
Police Reported	Alcohol Not REPORTED
Presence	
Alcohol Test (< 95 indicates BAC 0.xx)	16

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	83 F D G W 9
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	25.182638291
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Rollover Characteristics

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

Vehicle Factors

Make-Model	Chrysler Cirrus
Year	1997
Class	PASSENGER CAR
Body Type	4-DR SEDAN/HDTOP
Weight	140

Pre-Crash Driver Data

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

DRIVER Factors

Age	32	Height	185	Weight	91
Gender					MALE
Ejection					PARTIAL EJECTION
Ejection Area					Left FRONT
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	1998-73-70-1-1
MAIS	5=Critical
Seat Position	Front left side

AIS Level	Injury Description	Contacts
4=Severe	Basilar skull fracture, open, with brain tissue loss.	Unknown SOURCE
3=Serious	Skull fracture, vault, comminuted (compound, depressed)	Unknown SOURCE
3=Serious	Cerebral contusions, multiple, bilateral, small	Unknown SOURCE
5=Critical	Cerebral epidural or extradural hematoma, bilateral, small	Unknown SOURCE
5=Critical	Intracerebral hematoma, small, bilateral	Unknown SOURCE
5=Critical	Cerebral subdural hematoma, small (<50ccs), bilateral	Unknown SOURCE
1=Minor	Mandible fracture, closed, location NFS	Unknown SOURCE
2=Moderate	Maxillary fracture, closed	Unknown SOURCE
1=Minor	Teeth avulsion	Unknown SOURCE
3=Serious	>3 rib fractures one side & <3 other side, with stable chest	Unknown SOURCE
4=Severe	Lung contusion, bilateral	Unknown SOURCE

Occupant: 1998-73-70-1-2



Fire Information

Fire Occurrence	Major fire
Fire Origin	Fuel tank
Location of Fuel Leakage	Other
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	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	DARK
Atmospheric Conditions	No ADVERSE COND
Relation to Intersection	INTERSECTION REL
Traffic Control Device	
Police Reported	Alcohol Not REPORTED
Presence	
Alcohol Test (< 95 indicates BAC 0.xx)	16

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	83 F D G W 9
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	25.182638291
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Rollover Characteristics

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

Vehicle Factors

Make-Model	Chrysler Cirrus
Year	1997
Class	PASSENGER CAR
Body Type	4-DR SEDAN/HDTOP
Weight	140

Pre-Crash Driver Data

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

PASSENGER Factors

Age	5	Height	107	Weight	23
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 DEPLOY UNDET
Airbag Deployment - 1 st Seat	BAG DEP DET UNK
Airbag Deployment - Oth Seat	Not EQUIP W/ OTH

Injuries

Occupant	1998-73-70-1-2
MAIS	5=Critical
Seat Position	Front right side

AIS Level	Injury Description	Contacts
3=Serious	Skull fracture, vault, comminuted (compound, depressed)	Unknown SOURCE
5=Critical	Cerebral penetrating injury	Unknown SOURCE
3=Serious	Cerebral contusion, NFS	Unknown SOURCE
3=Serious	Thoracic skin laceration, blood loss >203=Serious	Abdominal skin laceration with blood loss >203=Serious
Cerebral subarachnoid hemorrhage	Unknown SOURCE	
4=Severe	Basilar skull fracture, open, with brain tissue loss.	Unknown SOURCE

Occupant: 1998-73-70-1-3



Fire Information

Fire Occurrence	Major fire
Fire Origin	Fuel tank
Location of Fuel Leakage	Other
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	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	DARK
Atmospheric Conditions	No ADVERSE COND
Relation to Intersection	INTERSECTION REL
Traffic Control Device	
Police Reported	Alcohol Not REPORTED
Presence	
Alcohol Test (< 95 indicates BAC 0.xx)	16

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	83 F D G W 9
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	25.182638291
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Rollover Characteristics

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

Vehicle Factors

Make-Model	Chrysler Cirrus
Year	1997
Class	PASSENGER CAR
Body Type	4-DR SEDAN/HDTOP
Weight	140

Pre-Crash Driver Data

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

PASSENGER Factors

Age	3	Height	102	Weight	0
Gender					FEMALE-NOT PREG
Ejection					No EJECTION
Ejection Area					No EJECTION
Entrapment					JAMMED DOOR/FIRE

Restraint Factors

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

Injuries

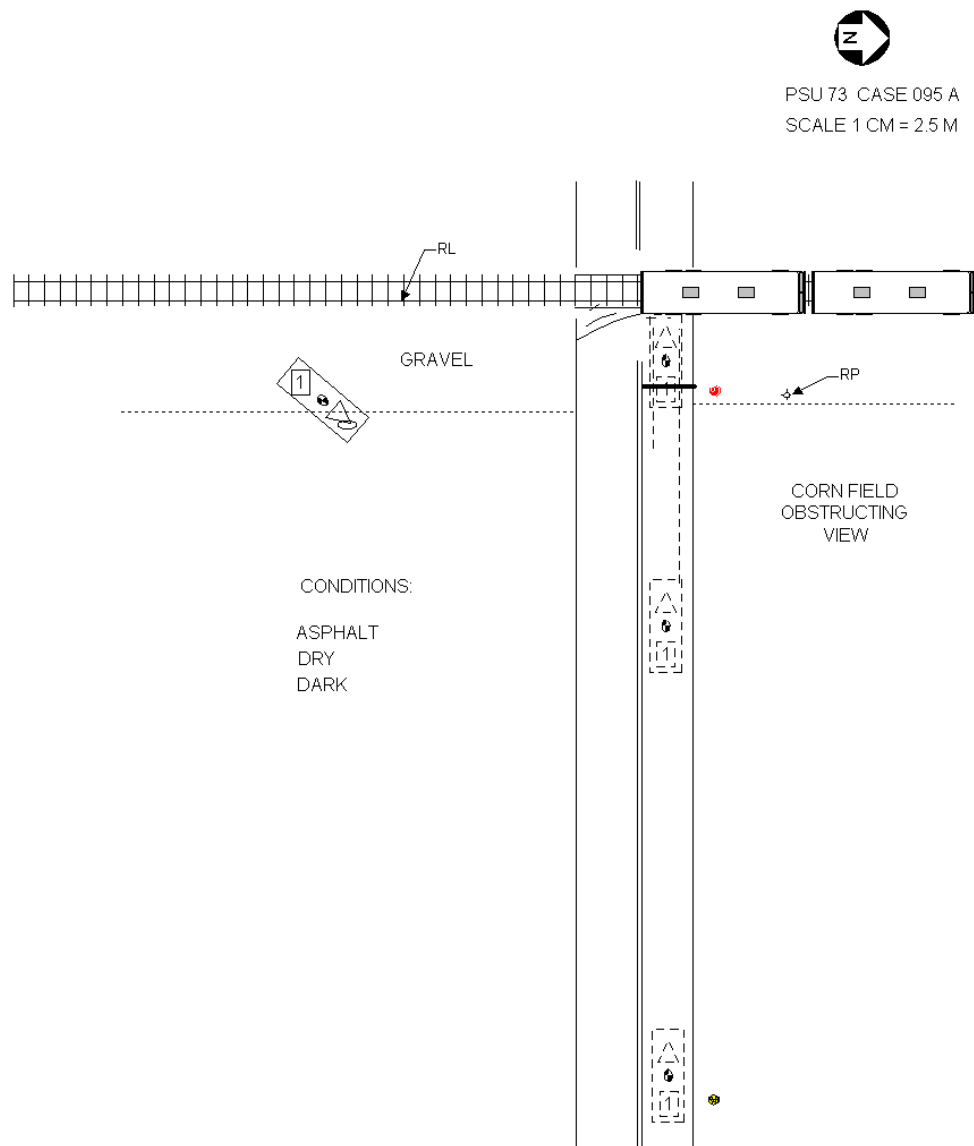
Occupant	1998-73-70-1-3
MAIS	6=Maximum
Seat Position	Front other

AIS Level	Injury Description	Contacts
6=Maximum	Head injury, crush (massive destruction of skull and brain)	Unknown SOURCE
2=Moderate	Femur fracture NFS age <12 years	Unknown SOURCE
3=Serious	Lung contusion NFS	Unknown SOURCE
2=Moderate	Hepatic laceration NFS	Unknown SOURCE

68 Case 1998-73-95

Summary:

V1 was westbound on a two lane undivided country road approaching a railroad crossing with only a stop sign for control. V1 struck the left side of the locomotive with the front of the pickup truck. V1 was dragged across the eastbound lane and thrown into the southeast corner of the crossing facing north where it came to rest. The cab and motor were torn from the chassis. The driver was partially ejected from the cab, and was pronounced dead at the scene. The vehicle was removed on two flatbeds.



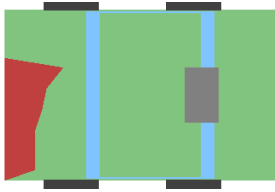
Vehicle	Body type	Make	Model	Year	Occ.#	Age	Occupant's sex	Maximum known occupant ais
1	LARGE PICKUP	Chevrolet	C/K-series Pickup	1995	1	28	MALE	6=Maximum

Occupant: 1998-73-95-1-1



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, left side
Fuel Cap Location	Left side, forward 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	LEVEL
Roadway Surface Type	ASPHALT
Roadway Surface Condition	DRY
Light Conditions	DARK
Atmospheric Conditions	No ADVERSE COND
Relation to Intersection	Other JUNCTION
Traffic Control Device	
Police Reported Alcohol Presence	ALCOHOL PRESENT
Alcohol Test (< 95 indicates BAC 0.xx)	23

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	83 F D A W 9
Damage (C1-C6)	44 46 46 56 62 86
Crush (L and D)	180 0
Object Contacted 1	TRAIN
Object Contacted 2	0

NASS Weighting Factor

Weighting factor	25.182638291
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Rollover Characteristics

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

Vehicle Factors

Make-Model	Chevrolet C/K-series Pickup
Year	1995
Class	TRUCK
Body Type	LARGE PICKUP
Weight	187

Pre-Crash Driver Data

Accident Type	15
Pre-event Movement	GOING STRAIGHT
Critical Pre-crash Event	CROSS OVER INTER
Attempted Avoidance Manuever	BRAKE W/O LOCKUP
Pre-impact Stability	TRACKING
Pre-impact Location	STAYED IN LANE

DRIVER Factors

Age	28	Height	173	Weight	82
Gender					MALE
Ejection					PARTIAL EJECTION
Ejection Area					No EJECTION
Entrapment					Not ENTRAPPED

Restraint Factors

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

Injuries

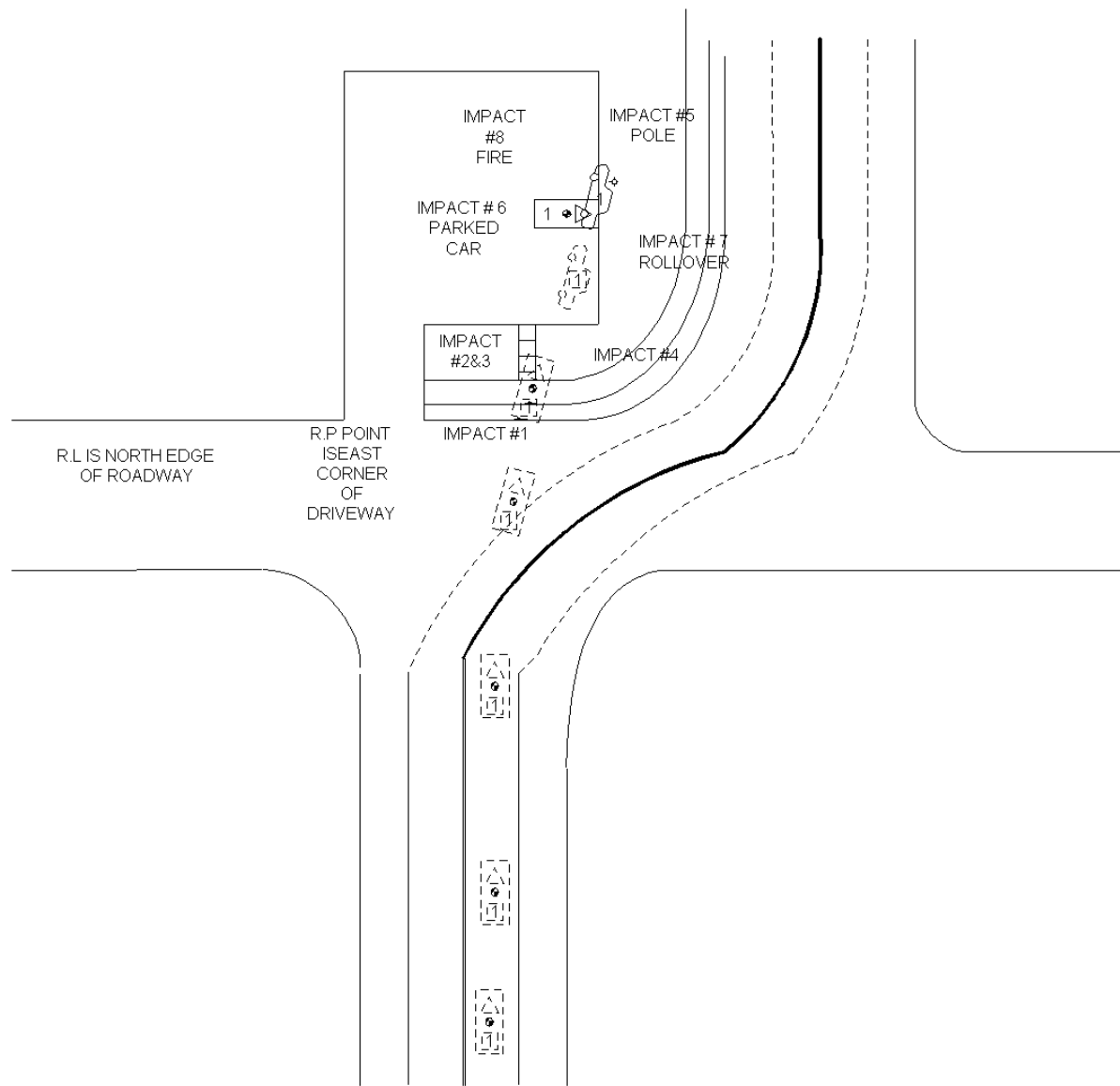
Occupant	1998-73-95-1-1
MAIS	6=Maximum
Seat Position	Front left side

AIS Level	Injury Description	Contacts
3=Serious	Basilar skull fracture, NFS	Other veh or obj
2=Moderate	Skull fracture, vault, closed (simple, undisplaced)	Other veh or obj
2=Moderate	Skull fracture, vault, closed (simple, undisplaced)	Other veh or obj
2=Moderate	Skull fracture, vault, closed (simple, undisplaced)	Other veh or obj
2=Moderate	Skull fracture, vault, closed (simple, undisplaced)	Other veh or obj
4=Severe	Cerebellar laceration	Other veh or obj
4=Severe	Cerebral laceration	Other veh or obj
4=Severe	Cerebral laceration	Other veh or obj
3=Serious	Cerebral contusions, multiple, bilateral but NFS	Other veh or obj
3=Serious	Cerebral subarachnoid hemorrhage	Other veh or obj
3=Serious	Cerebral subarachnoid hemorrhage	Other veh or obj
5=Critical	Cerebral epidural or extradural hematoma, bilateral, small	Other veh or obj
5=Critical	Cerebral subdural hematoma, small (<50ccs), bilateral	Other veh or obj
4=Severe	Thoracic aortic laceration NFS	Right interior
3=Serious	Myocardial contusion NFS	Right interior
3=Serious	Myocardial laceration NFS	Right interior
6=Maximum	Hepatic avulsion (total separation of all vasculature)	Right interior
5=Critical	Massive splenic injury (hilar disruption, tissue loss)	Right interior
3=Serious	Lung laceration NFS	Right interior
3=Serious	Lung contusion, unilateral	Right interior
1=Minor	Facial skin laceration, minor	Other veh or obj
1=Minor	Facial skin laceration, minor	Other veh or obj
1=Minor	Thoracic skin abrasion	Right interior
1=Minor	Abdominal skin abrasion	Right interior
1=Minor	Upper extremity skin abrasion	Right interior
1=Minor	Leg skin laceration, minor	Right hardware
1=Minor	Lower extremity skin laceration, minor	Right hardware

69 Case 1998-74-61

Summary:

DRIVER OF V1 WAS HEADING NORTH ON A 4 LANE UNDIVIDED ROADWAY. AS V1 ENTERED THE INTERSECTION V1 CROSSED THE INTERSECTION TO STRIKE A BREAkAWAY POST, A SET OF STAIRS, THE DRIVE UP A EMBANKMENT TO STRIKE A POLE, THEN ROLLOVER ONTO A PARKED CAR. THE DRIVER OF V1 WAS TRANSPORTED TO THE HOSPITAL IN SERIOUS CONDITION. THE VEHICLE WQAS TOWED.



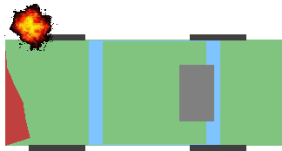
Vehicle	Body type	Make	Model	Year	Occ.#	Age	Occupant's sex	Maximum known occupant ais
1	4-DR SEDAN/HDTOP	Buick	Somerset/Skylark(86+)	1981	1	67	MALE	4=Severe

Occupant: 1998-74-61-1-1



Fire Information

Fire Occurrence	Minor fire
Fire Origin	No fire
Location of Fuel Leakage	No fuel leakage
Type of Fuel Tank	Metallic
Fuel Tank Location	Forward of rear axle, centered
Fuel Cap Location	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	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	INTERSECTION REL
Traffic Control Device	
Police Reported Alcohol Presence	No ALCOHOL
Alcohol Test (< 95 indicates BAC 0.xx)	36

Vehicle Factors

Make-Model	Buick Somerset/Skylark(86+)
Year	1981
Class	PASSENGER CAR
Body Type	4-DR SEDAN/HDTOP
Weight	115

Crash Severity

Nr. Quarter Turns	1 QUARTER TURN
Impact Speed	< 0.5KMPH
Total, Longitudal, and Lateral δV	< 0.5 KMPH < 0.5 KMPH < 0.5 KMPH
Est. δV with sequence number	SEVERE 5
CDC	0 F Y E W 0
Damage (C1-C6)	41 33 29 15 4 0
Crush (L and D)	170 -39
Object Contacted 1	MEDIUM POLE
Object Contacted 2	EMBANKMENT

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	DEPARTED ROADWAY

NASS Weighting Factor

Weighting factor	12.872190481
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DRIVER Factors

Rollover Characteristics

Number of Events	8
Rollover Initiation Type	Oth ROLOVER TYPE
Location of Rollover Initiation	ROADSIDE/MEDIAN
Rollover Initiation Object Contacted	EMBANKMENT
Location on Vehicle where Principal Tripping Force was Applied	UNDERCARRIAGE
Direction of Initial Roll	ROLL RIGHT

Age	67	Height	178	Weight	84
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

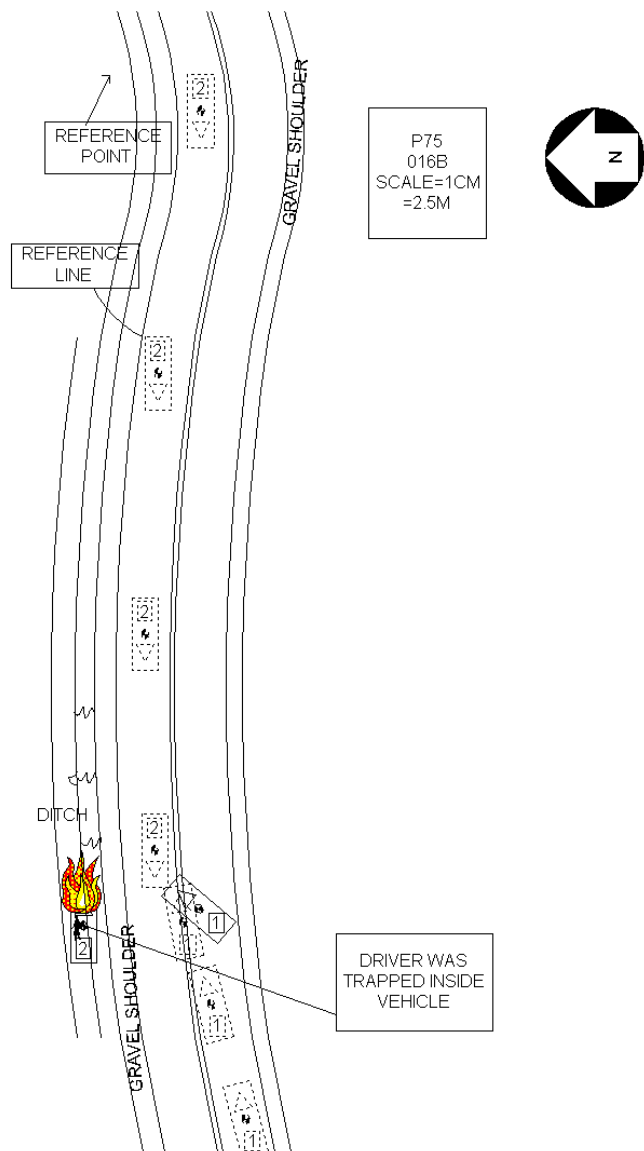
Occupant	1998-74-61-1-1
MAIS	4=Severe
Seat Position	Front left side

AIS Level	Injury Description	Contacts
4=Severe	Cerebral intraventricular hemorrhage	Roof
4=Severe	Cerebral intraventricular hemorrhage	Roof
3=Serious	Cerebral subarachnoid hemorrhage	Roof
3=Serious	Cerebral subarachnoid hemorrhage	Roof
4=Severe	Unconscious on admission, length <1 hour & neuro deficit	Roof
3=Serious	>3 rib fractures one side & <3 other side, with stable chest	Steering comb
3=Serious	Lung contusion, unilateral	Steering comb
2=Moderate	Tibial fracture medial malleolus, open/displaced/comminuted	Floor
1=Minor	Leg skin contusion (hematoma)	Floor
1=Minor	Upper extremity skin abrasion	Steering rim
1=Minor	Leg skin abrasion	Floor
1=Minor	Tongue laceration, superficial	Roof
1=Minor	Thoracic skin contusion	Steering comb

70 Case 1998-75-16

Summary:

VEHICLE NUMBER ONE WAS EASTBOUND ON A TWO-LANE TWO WAY MOUNTAIN ROADWAY WITH GRADUAL "S" CURVES. VEHICLE NUMBER TWO WAS WESTBOUND ON THE SAME ROADWAY. THEN AS VEHICLE NUMBER ONE WAS NEGOTIATING A SLIGHT RIGHT-HAND CURVE AN OBJECT FELL OVER ON THE RIGHT HAND SEAT AND THE DRIVER REACHED OVER TO RETRIEVE THE OBJECT. AT THAT TIME THE VEHICLE NUMBER ONE TRAVELED OVER THE LANE LINE AND INTO THE WESTBOUND TRAVEL LANE. THEN THE FRONT OF VEHICLE NUMBER ONE CONTACTED THE THE LEFT FRONT CORNER OF VEHICLE NUMBER TWO. VEHICLE NUMBER ONE WAS PUSHED REARWARD FROM THE IMPACT AND CAME TO REST IN THE EASTBOUND TRAVEL LANE FACING NORTH. AFTER IMPACT, VEHICLE NUMBER TWO SPUN 180 DEGREES COUNTER CLOCKWISE AND CAME TO REST ON THE DIRT SHOULDER FACING WEST. THEN THE ENGINE COMPARTMENT OF VEHICLE NUMBER TWO CAUGHT FIRE. THE PASSENGER OF VEHICLE NUMBER TWO WAS REMOVED BY A BYSTANDER, BUT THE DRIVER WAS TRAPPED BY THE STEERING WHEEL AND UNABLE TO EXIT THE VEHICLE. THE ENTIRE VEHICLE BURNED WITH THE DRIVER TRAPPED INSIDE, WHICH RESULTED IN THE DEATH OF THE DRIVER. THE DRIVER OF VEHICLE NUMBER ONE AND THE OCCUPANT OF VEHICLE NUMBER TWO WERE TRANSPORTED FOR TREATMENT. BOTH VEHICLES WERE TOWED FROM THE SCENE.



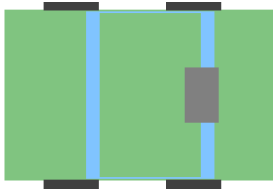
Vehicle	Body type	Make	Model	Year	Occ.#	Age	Occupant's sex	Maximum known occupant ais
1	4-DR SEDAN/HDTOP	Honda	Accord	1989	1	34	MALE	2=Moderate
2	4-DR SEDAN/HDTOP	Mazda	626	1985	1	17	FEMALE-NOT PREG	6=Maximum
2	4-DR SEDAN/HDTOP	Mazda	626	1985	2	14	FEMALE-NOT PREG	3=Serious

Occupant: 1998-75-16-1-1



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	45.621286015
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Rollover Characteristics

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

Pre-Crash Environment

Traffic Flow	Not DIVIDED
Number of Travel Lanes	TWO
Roadway Alignment	CURVE RIGHT
Roadway Profile	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	Honda Accord
Year	1989
Class	PASSENGER CAR
Body Type	4-DR SEDAN/HDTOP
Weight	113

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	34	Height	180	Weight	78
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	1998-75-16-1-1
MAIS	2=Moderate
Seat Position	Front left side

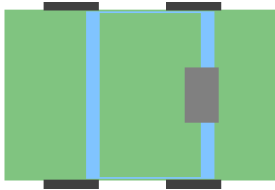
AIS Level	Injury Description	Contacts
2=Moderate	Awake on admission, amnesia	Unknown SOURCE
1=Minor	Ankle joint sprain	Unknown SOURCE
2=Moderate	Knee sprain	Unknown SOURCE
2=Moderate	Nose fracture, open/displaced/comminuted	Unknown SOURCE
1=Minor	Facial skin laceration, minor	Unknown SOURCE
1=Minor	Facial skin laceration, minor	Unknown SOURCE
1=Minor	Leg skin laceration, minor	Unknown SOURCE

Occupant: 1998-75-16-2-1



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	45.621286015
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Rollover Characteristics

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

Pre-Crash Environment

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

Vehicle Factors

Make-Model	Mazda 626
Year	1985
Class	PASSENGER CAR
Body Type	4-DR SEDAN/HDTOP
Weight	109

Pre-Crash Driver Data

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

DRIVER Factors

Age	17	Height	165	Weight	43
Gender			FEMALE-NOT PREG		
Ejection			No EJECTION		
Ejection Area			No EJECTION		
Entrapment			Not ENTRAPPED		

Restraint Factors

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

Injuries

Occupant	1998-75-16-2-1
MAIS	6=Maximum
Seat Position	Front left side

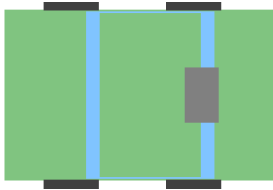
AIS Level	Injury Description	Contacts
6=Maximum	Burn, 2nd or 3rd degree, >90	

Occupant: 1998-75-16-2-2



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	45.621286015
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Rollover Characteristics

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

Pre-Crash Environment

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

Vehicle Factors

Make-Model	Mazda 626
Year	1985
Class	PASSENGER CAR
Body Type	4-DR SEDAN/HDTOP
Weight	109

Pre-Crash Driver Data

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

PASSENGER Factors

Age	14	Height	165	Weight	49
Gender			FEMALE-NOT PREG		
Ejection			No EJECTION		
Ejection Area			No EJECTION		
Entrapment			Not ENTRAPPED		

Restraint Factors

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

Injuries

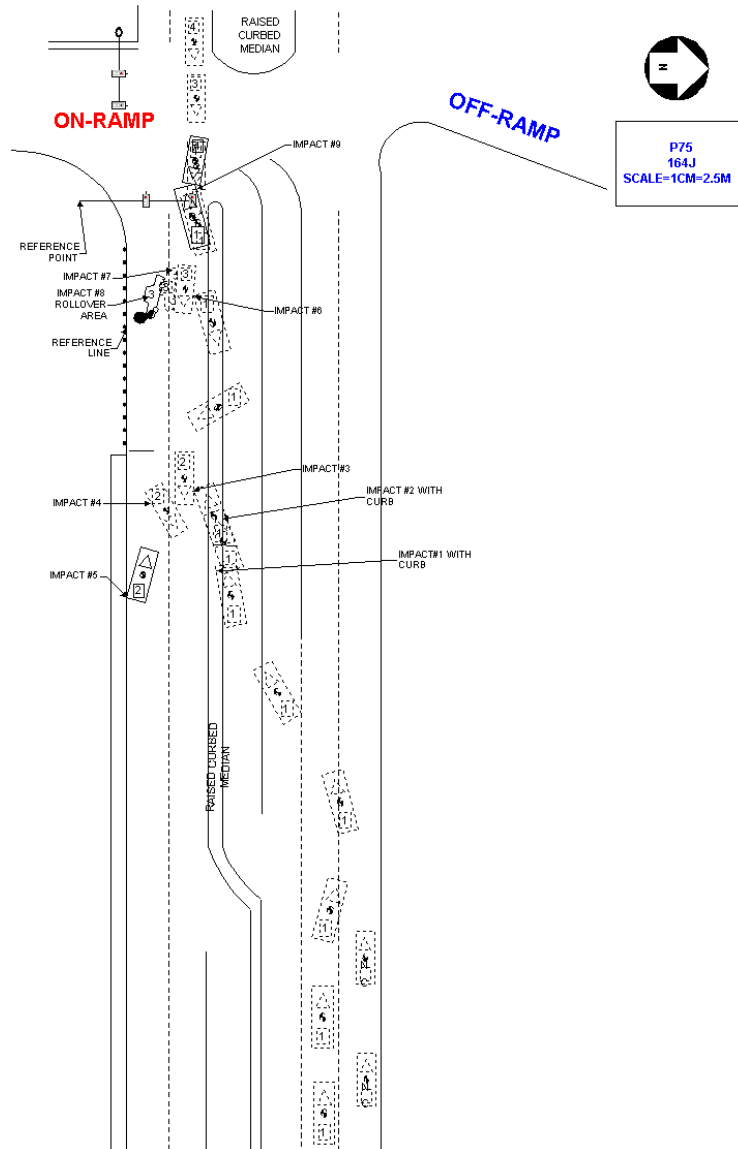
Occupant	1998-75-16-2-2
MAIS	3=Serious
Seat Position	Front right side

AIS Level	Injury Description	Contacts
2=Moderate	Awake on admission, amnesia	Unknown SOURCE
3=Serious	Cerebral contusions, multiple, bilateral, small	Unknown SOURCE
1=Minor	Acute cervical spine strain without fracture or dislocation	Unknown SOURCE
1=Minor	Leg skin abrasion	Unknown SOURCE
1=Minor	Thoracic skin abrasion	Unknown SOURCE

71 Case 1998-75-164

Summary:

IT WAS RAINING AT THE TIME OF THE ACCIDENT RESULTING IN POOR ROAD CONDITIONS. VEHICLE NUMBER ONE WAS WESTBOUND IN THE NUMBER TWO TRAVEL LANE ON A SIX LANE ROADWAY WITH TWO THROUGH LANES FOR EACH DIRECTION A CENTER RAISED CURBED MEDIAN AND TWO WESTBOUND LEFT TURN LANES . A NON-CONTACT VEHICLE WAS IN THE NUMBER ONE WESTBOUND TRAVEL LANE TRAVELING ABREAST OF VEHICLE NUMBER ONE. VEHICLE NUMBER THREE WAS EASTBOUND IN THE NUMBER TWO TRAVEL LANE AND VEHICLE NUMBER FOUR WAS IN THE NUMBER TWO EASTBOUND LANE. VEHICLE NUMBER ONE BEGAN TO CHANGE LANES TO THE RIGHT BUT STARTED TO HYDROPLANE DUE TO HEAVY RAIN. VEHICLE NUMBER ONE ENTERED THE NUMBER ONE TRAVEL LANE AND THEN STEERED TO THE LEFT AND BEGAN TO YAW COUNTER CLOCKWISE AS IT TRAVELED SOUTHWEST ACROSS THE WESTBOUND TRAVEL LANES. THEN VEHICLE NUMBER ONE TRAVELED UP THE RAISED CURBED MEDIAN AND IMPACTED THE MEDIAN WITH ITS RIGHT FRONT TIRE AND ITS UNDERCARRIAGE. VEHICLE NUMBER ONE, (STILL ON TOP OF THE RAISED MEDIAN), IMPACTED THE LEFT WINDOW FRAME AREA OF VEHICLE NUMBER TWO. THE IMPACT PUSHED VEHICLE NUMBER TWO TO THE RIGHT AND AS ITS LEFT SIDE RAISED UP IN THE AIR THE RIGHT REAR TIRE IMPACTED THE PAVEMENT. VEHICLE NUMBER TWO SPUN COUNTER CLOCKWISE 180 DEGREES AND TRAVELED OFF THE RIGHT SIDE OF THE ROADWAY AND IMPACTED THE CONCRETE BARRIER WALL WITH ITS LEFT REAR BUMPER CORNER. AFTER IMPACTING VEHICLE NUMBER TWO, VEHICLE NUMBER ONE SPUN ALMOST 180 DEGREES COUNTER CLOCKWISE AND THE BACK OF VEHICLE NUMBER ONE CONTACTED THE LEFT SIDE OF VEHICLE NUMBER THREE. THE IMPACT CAUSED VEHICLE NUMBER THREE TO BEGIN A ONE QUARTER TURN ROLLOVER ONTO ITS RIGHT SIDE. AFTER IMPACTING VEHICLE NUMBER THREE, VEHICLE NUMBER ONE CONTINUED TO SPIN 90 DEGREES COUNTER CLOCKWISE AND IMPACTED THE FRONT OF VEHICLE NUMBER FOUR WITH ITS FRONT. VEHICLE NUMBER ONE CAME TO FINAL REST IN THE NUMBER TWO EASTBOUND TRAVEL LANE FACING WEST. VEHICLE NUMBER TWO CAME TO REST AGAINST THE CONCRETE BARRIER WALL FACING NORTHWEST. VEHICLE NUMBER THREE CAME TO FINAL REST IN THE NUMBER TWO EASTBOUND TRAVEL LANE ON ITS RIGHT SIDE FACING SOUTHEAST. VEHICLE NUMBER FOUR CAME TO REST IN THE NUMBER TWO EASTBOUND TRAVEL LANE FACING EAST. ALL FOUR VEHICLES WERE TOWED FROM THE SCENE AND THE OCCUPANTS OF VEHICLES TWO AND THREE WERE TRANSPORTED FOR TREATMENT.



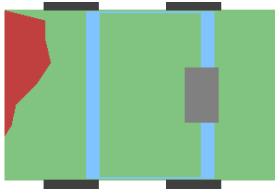
Vehicle #	Body type	Make	Model	Year	Occ. Age	Occupant's sex	Maximum known occupant ais
1	4-DR SEDAN/HDTOP	Cadillac	Deville/Fleetwood	1971	16	MALE	0=None
1	4-DR SEDAN/HDTOP	Cadillac	Deville/Fleetwood	1972	16	MALE	1=Minor
1	4-DR SEDAN/HDTOP	Cadillac	Deville/Fleetwood	1973	14	MALE	1=Minor
2	4-DR SEDAN/HDTOP	Ford	Taurus	1991	31	FEMALE-NOT PREG	3=Serious
3	3DR/2DR HATCHBAK	Mercury	Capri-domestic	1979	25	FEMALE-NOT PREG	3=Serious
4	4-DR SEDAN/HDTOP	Pontiac	Grand Prix	1991	27	MALE	1=Minor

Occupant: 1998-75-164-1-1



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



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	WET
Light Conditions	DARK/LIGHTED
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	SEVERE 3
CDC	0 F Z E W 2
Damage (C1-C6)	10 17 48 68 61 60
Crush (L and D)	184 42
Object Contacted 1	VEHICLE NO. 2
Object Contacted 2	VEHICLE NO. 3

NASS Weighting Factor

Weighting factor	69.721445227
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Rollover Characteristics

Number of Events	9
Rollover Initiation Type	No rollover
Location of Rollover Initiation	No rollover
Rollover Initiation Object Contacted	No rollover
Location on Vehicle where Principal Tripping Force was Applied	No rollover
Direction of Initial Roll	No rollover

Vehicle Factors

Make-Model	Cadillac Deville/Fleetwood
Year	1975
Class	PASSENGER CAR
Body Type	4-DR SEDAN/HDTOP
Weight	234

Pre-Crash Driver Data

Accident Type	15
Pre-event Movement	GOING STRAIGHT
Critical Pre-crash Event	TRAVEL TOO FAST
Attempted Avoidance Manuever	No AVOIDANCE
Pre-impact Stability	LAT SKID-CTR CLK
Pre-impact Location	Left TRAVEL LANE

DRIVER Factors

Age	16	Height	183	Weight	75
Gender					MALE
Ejection					No EJECTION
Ejection Area					No EJECTION
Entrapment					Not ENTRAPPED

Restraint Factors

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

Injuries

Occupant	1998-75-164-1-1
MAIS	0=None
Seat Position	Front left side

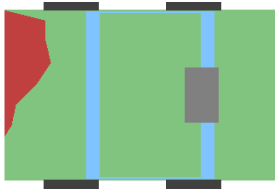
AIS Level	Injury Description	Contacts
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Occupant: 1998-75-164-1-2



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



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	WET
Light Conditions	DARK/LIGHTED
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	SEVERE 3
CDC	0 F Z E W 2
Damage (C1-C6)	10 17 48 68 61 60
Crush (L and D)	184 42
Object Contacted 1	VEHICLE NO. 2
Object Contacted 2	VEHICLE NO. 3

NASS Weighting Factor

Weighting factor	69.721445227
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Rollover Characteristics

Number of Events	9
Rollover Initiation Type	No rollover
Location of Rollover Initiation	No rollover
Rollover Initiation Object Contacted	No rollover
Location on Vehicle where Principal Tripping Force was Applied	No rollover
Direction of Initial Roll	No rollover

Vehicle Factors

Make-Model	Cadillac Deville/Fleetwood
Year	1975
Class	PASSENGER CAR
Body Type	4-DR SEDAN/HDTOP
Weight	234

Pre-Crash Driver Data

Accident Type	15
Pre-event Movement	GOING STRAIGHT
Critical Pre-crash Event	TRAVEL TOO FAST
Attempted Avoidance Manuever	No AVOIDANCE
Pre-impact Stability	LAT SKID-CTR CLK
Pre-impact Location	Left TRAVEL LANE

PASSENGER Factors

Age	16	Height	185	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	1998-75-164-1-2
MAIS	1=Minor
Seat Position	Front right side

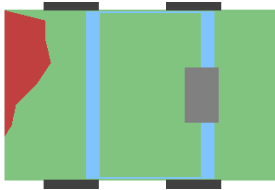
AIS Level	Injury Description	Contacts
1=Minor	Leg skin abrasion	Right panel

Occupant: 1998-75-164-1-3



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	Behind rear axle, centered
Fuel Cap Location	On back plane
Fuel Tank Damage	No damage
Fuel Type	Gasoline



Pre-Crash Environment

Traffic Flow	DVDED/NO BARRIER
Number of Travel Lanes	FOUR
Roadway Alignment	STRAIGHT
Roadway Profile	DOWNHILL GRADE
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	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 3
CDC	0 F Z E W 2
Damage (C1-C6)	10 17 48 68 61 60
Crush (L and D)	184 42
Object Contacted 1	VEHICLE NO. 2
Object Contacted 2	VEHICLE NO. 3

NASS Weighting Factor

Weighting factor	69.721445227
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Rollover Characteristics

Number of Events	9
Rollover Initiation Type	No rollover
Location of Rollover Initiation	No rollover
Rollover Initiation Object Contacted	No rollover
Location on Vehicle where Principal Tripping Force was Applied	No rollover
Direction of Initial Roll	No rollover

Vehicle Factors

Make-Model	Cadillac Deville/Fleetwood
Year	1975
Class	PASSENGER CAR
Body Type	4-DR SEDAN/HDTOP
Weight	234

Pre-Crash Driver Data

Accident Type	15
Pre-event Movement	GOING STRAIGHT
Critical Pre-crash Event	TRAVEL TOO FAST
Attempted Avoidance Manuever	No AVOIDANCE
Pre-impact Stability	LAT SKID-CTR CLK
Pre-impact Location	Left TRAVEL LANE

PASSENGER Factors

Age	14	Height	168	Weight	52
Gender					MALE
Ejection					No EJECTION
Ejection Area					No EJECTION
Entrapment					Not ENTRAPPED

Restraint Factors

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

Injuries

Occupant	1998-75-164-1-3
MAIS	1=Minor
Seat Position	Second right

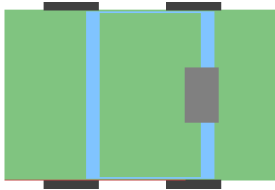
AIS Level	Injury Description	Contacts
1=Minor	Upper extremity skin abrasion	Unknown SOURCE
1=Minor	Upper extremity skin contusion	Unknown SOURCE
1=Minor	690202	Unknown SOURCE

Occupant: 1998-75-164-2-1



Fire Information

Fire Occurrence	No fire
Fire Origin	No fire
Location of Fuel Leakage	No fuel tank
Type of Fuel Tank	No fuel Tank
Fuel Tank Location	No fuel tank
Fuel Cap Location	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 <
Est. δV with sequence number	0.5 KMPH
CDC	SEVERE 3
Damage (C1-C6)	0 L Y H W 4
Crush (L and D)	0 0 0 0 0 0
Object Contacted 1	0 0
Object Contacted 2	VEHICLE NO. 1
	GROUND

NASS Weighting Factor

Weighting factor	69.721445227
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Rollover Characteristics

Number of Events	9
Rollover Initiation Type	No rollover
Location of Rollover Initiation	No 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	UPHILL GRADE
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

Vehicle Factors

Make-Model	Ford Taurus
Year	1998
Class	PASSENGER CAR
Body Type	4-DR SEDAN/HDTOP
Weight	151

Pre-Crash Driver Data

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

DRIVER Factors

Age	31	Height	168	Weight	64
Gender					FEMALE-NOT PREG
Ejection					No EJECTION
Ejection Area					No EJECTION
Entrapment					Not ENTRAPPED

Restraint Factors

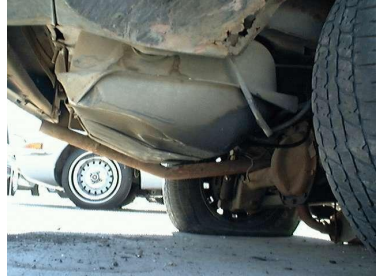
Restrain	Lap and shoulder
AOPS	YES-RES DET
Airbag Deployment	BAG DEPLOYED
Airbag Deployment - 1 st Seat	DR
PAS BAG DEPLY	
Airbag Deployment - Oth Seat	Not EQUIP W/ OTH

Injuries

Occupant	1998-75-164-2-1
MAIS	3=Serious
Seat Position	Front left side

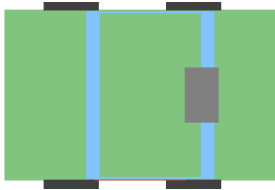
AIS Level	Injury Description	Contacts
2=Moderate	Awake on admission, unconscious <1 hour	Windshld DR side
1=Minor	297602	Flying glass
1=Minor	Facial skin laceration, minor	Flying glass
1=Minor	Facial skin abrasion	Flying glass
1=Minor	Finger fracture	Left A pillar
3=Serious	Single rib fracture with hemo-/pneumothorax	Air bag-DR side
2=Moderate	Clavicle fracture	Air bag-DR side
2=Moderate	Cervical transverse process fracture, no cord injury	Head restraint
2=Moderate	Thoracic transverse process fracture without cord injury	Head restraint
1=Minor	297402	Air bag-DR side
1=Minor	297402	Air bag-DR side
1=Minor	Upper extremity skin contusion	Left A pillar
1=Minor	Upper extremity skin contusion	Mirror
1=Minor	Leg skin contusion (hematoma)	Steering rim
1=Minor	Scalp laceration, minor	Head restraint

Occupant: 1998-75-164-3-1



Fire Information

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



Crash Severity

Nr. Quarter Turns	1 QUARTER TURN
Impact Speed	< 0.5KMPH
Total, Longitudal, and Lateral δV	< 0.5 KMPH < 0.5 KMPH <
Est. δV with sequence number	0.5 KMPH
CDC	SEVERE 6
Damage (C1-C6)	0 L P A W 4
Crush (L and D)	0 0 0 0 0 0
Object Contacted 1	0 0
Object Contacted 2	VEHICLE NO. 1
	GROUND

NASS Weighting Factor

Weighting factor	69.721445227
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Rollover Characteristics

Number of Events	9
Rollover Initiation Type	COLLISION W/VEH
Location of Rollover Initiation	ON ROADWAY
Rollover Initiation Object Contacted	VEHICLE NO. 1
Location on Vehicle where Principal Tripping Force was Applied	SIDE PLANE
Direction of Initial Roll	ROLL RIGHT

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	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

Vehicle Factors

Make-Model	Mercury Capri-domestic
Year	1979
Class	PASSENGER CAR
Body Type	3DR/2DR HATCHBAK
Weight	116

Pre-Crash Driver Data

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

DRIVER Factors

Age	25	Height	155	Weight	41
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	1998-75-164-3-1
MAIS	3=Serious
Seat Position	Front left side

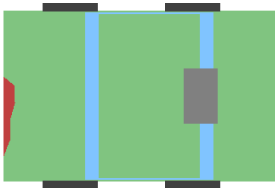
AIS Level	Injury Description	Contacts
2=Moderate	Pelvic fracture, closed	Left interior
3=Serious	Symphysis pubis separation or fracture	Steering rim
3=Serious	Sacroilium fracture	Left interior
2=Moderate	Awake on admission, unconscious <1 hour	Steering comb
1=Minor	Facial skin laceration, minor	Flying glass

Occupant: 1998-75-164-4-1



Fire Information

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



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 9
CDC	12 F D E W 1
Damage (C1-C6)	0 0 10 9 17 15
Crush (L and D)	154 26
Object Contacted 1	VEHICLE NO. 1
Object Contacted 2	0

NASS Weighting Factor

Weighting factor	69.721445227
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Rollover Characteristics

Number of Events	9
Rollover Initiation Type	No rollover
Location of Rollover Initiation	No 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	UPHILL GRADE
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

Vehicle Factors

Make-Model	Pontiac Grand Prix
Year	1991
Class	PASSENGER CAR
Body Type	4-DR SEDAN/HDTOP
Weight	148

Pre-Crash Driver Data

Accident Type	98
Pre-event Movement	GOING STRAIGHT
Critical Pre-crash Event	OPP DIR-OVR LEFT
Attempted Avoidance Maneuver	BRAKE W/O LOCKUP
Pre-impact Stability	TRACKING
Pre-impact Location	STAYED IN LANE

DRIVER Factors

Age	27	Height	183	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

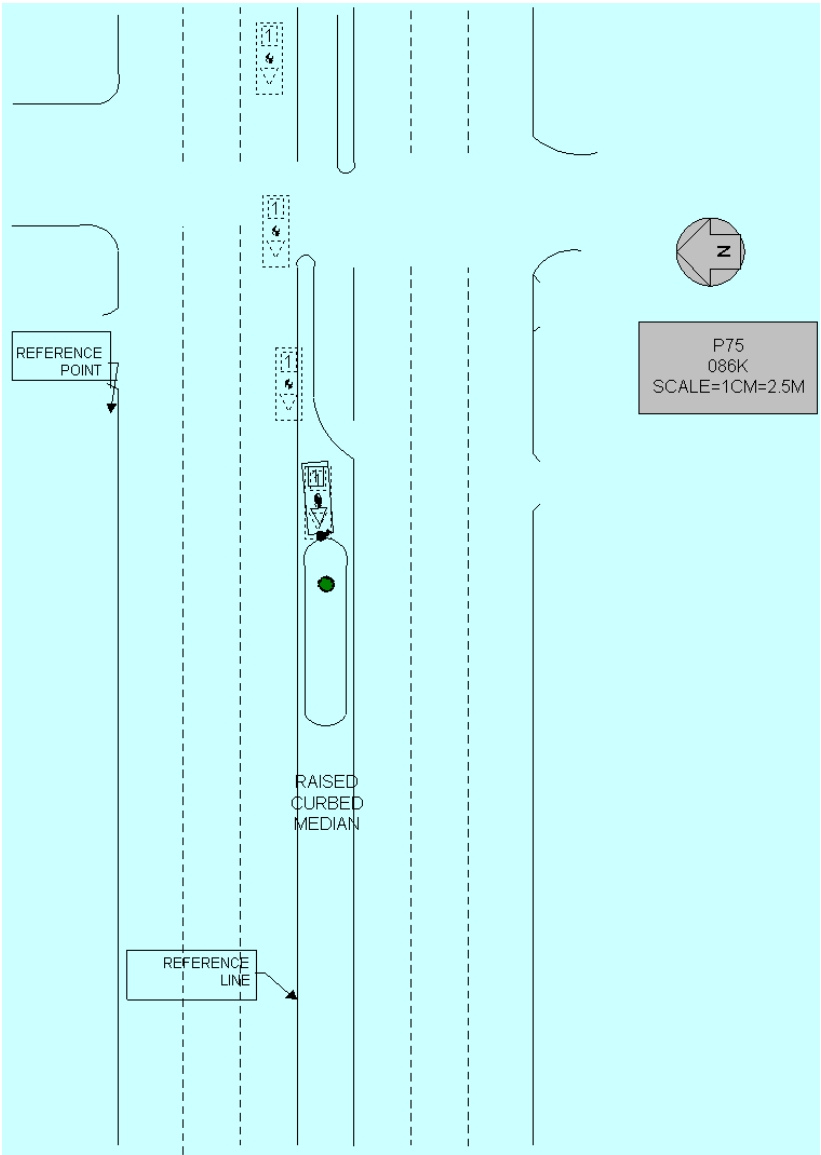
Occupant	1998-75-164-4-1
MAIS	1=Minor
Seat Position	Front left side

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

72 Case 1998-75-86

Summary:

VEHICLE NUMBER ONE WAS WESTBOUND IN THE NUMBER THREE TRAVEL LANE ON A SEVEN LANE ROADWAY WITH THREE TRAVEL LANES FOR EACH DIRECTION AND A LEFT TURN LANE. AS VEHICLE NUMBER ONE CONTINUED WESTBOUND THE VEHICLE TRAVELED OFF THE LEFT SIDE OF THE ROADWAY AND UP A RAISED CURBED MEDIAN. THEN THE FRONT OF VEHICLE NUMBER ONE HIT A CONCRETE PLANTER. VEHICLE NUMBER ONE CAME TO FINAL REST ON THE MEDIAN FACING WEST NEXT TO THE PLANTER. THE VEHICLE WAS TOWED FROM THE SCENE AND THE OCCUPANTS WERE TRANSPORTED FOR TREATMENT.



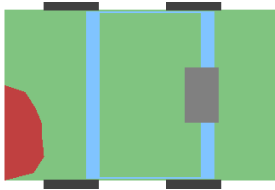
Vehicle	Body type	Make	Model	Year	Occ.#	Age	Occupant's sex	Maximum known occupant ais
1	2DR SEDAN/HT/CPE	Toyota	Celica	1983	1	19	MALE	7=Unk. sev.
1	2DR SEDAN/HT/CPE	Toyota	Celica	1983	2	26	MALE	1=Minor
1	2DR SEDAN/HT/CPE	Toyota	Celica	1983	3	33	MALE	3=Serious

Occupant: 1998-75-86-1-1



Fire Information

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



Pre-Crash Environment

Traffic Flow	DVDED/W/BARRIER
Number of Travel Lanes	THREE
Roadway Alignment	STRAIGHT
Roadway Profile	UPHILL GRADE
Roadway Surface Type	ASPHALT
Roadway Surface Condition	DRY
Light Conditions	DARK/LIGHTED
Atmospheric Conditions	No ADVERSE COND
Relation to Intersection	INTERSECTION REL
Traffic Control Device	
Police Reported	Alcohol
Presence	ALCOHOL PRESENT
Alcohol Test (< 95 indicates	23
BAC 0.xx)	

Crash Severity

Nr. Quarter Turns	No rollover
Impact Speed	54
Total, Longitudal, and Lateral δV	54 -54 < 0.5 KMPH
Est. δV with sequence number	DELTA V CODED 1
CDC	12 F D E W 2
Damage (C1-C6)	43 58 56 56 45 30
Crush (L and D)	141 0
Object Contacted 1	Oth FIXED OBJECT
Object Contacted 2	0

NASS Weighting Factor

Weighting factor	46.641204081
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Rollover Characteristics

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

Vehicle Factors

Make-Model	Toyota Celica
Year	1983
Class	PASSENGER CAR
Body Type	2DR SEDAN/HT/CPE
Weight	116

Pre-Crash Driver Data

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

DRIVER Factors

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

Restraint Factors

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

Injuries

Occupant	1998-75-86-1-1
MAIS	7=Unk. sev.
Seat Position	Front left side

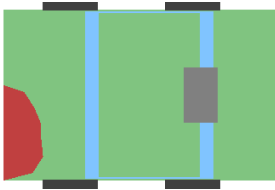
AIS Level	Injury Description	Contacts
7=Unk. sev.	Abdominal injury, blunt	Steering comb

Occupant: 1998-75-86-1-2



Fire Information

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



Pre-Crash Environment

Traffic Flow	DVDED/W/BARRIER
Number of Travel Lanes	THREE
Roadway Alignment	STRAIGHT
Roadway Profile	UPHILL GRADE
Roadway Surface Type	ASPHALT
Roadway Surface Condition	DRY
Light Conditions	DARK/LIGHTED
Atmospheric Conditions	No ADVERSE COND
Relation to Intersection	INTERSECTION REL
Traffic Control Device	
Police Reported Alcohol Presence	ALCOHOL PRESENT
Alcohol Test (< 95 indicates BAC 0.xx)	23

Crash Severity

Nr. Quarter Turns	No rollover
Impact Speed	54
Total, Longitudal, and Lateral δV	54 -54 < 0.5 KMPH
Est. δV with sequence number	DELTA V CODED 1
CDC	12 F D E W 2
Damage (C1-C6)	43 58 56 56 45 30
Crush (L and D)	141 0
Object Contacted 1	Oth FIXED OBJECT
Object Contacted 2	0

NASS Weighting Factor

Weighting factor	46.641204081
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Rollover Characteristics

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

Vehicle Factors

Make-Model	Toyota Celica
Year	1983
Class	PASSENGER CAR
Body Type	2DR SEDAN/HT/CPE
Weight	116

Pre-Crash Driver Data

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

PASSENGER Factors

Age	26	Height	163	Weight	64
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	1998-75-86-1-2
MAIS	1=Minor
Seat Position	Front right side

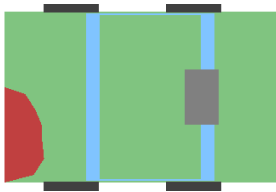
AIS Level	Injury Description	Contacts
1=Minor	Facial skin laceration, minor	Windshield
1=Minor	Facial skin laceration, minor	Windshield

Occupant: 1998-75-86-1-3



Fire Information

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



Pre-Crash Environment

Traffic Flow	DVDED/W/BARRIER
Number of Travel Lanes	THREE
Roadway Alignment	STRAIGHT
Roadway Profile	UPHILL GRADE
Roadway Surface Type	ASPHALT
Roadway Surface Condition	DRY
Light Conditions	DARK/LIGHTED
Atmospheric Conditions	No ADVERSE COND
Relation to Intersection	INTERSECTION REL
Traffic Control Device	
Police Reported Alcohol Presence	ALCOHOL PRESENT
Alcohol Test (< 95 indicates BAC 0.xx)	23

Crash Severity

Nr. Quarter Turns	No rollover
Impact Speed	54
Total, Longitudal, and Lateral δV	54 -54 < 0.5 KMPH
Est. δV with sequence number	DELTA V CODED 1
CDC	12 F D E W 2
Damage (C1-C6)	43 58 56 56 45 30
Crush (L and D)	141 0
Object Contacted 1	Oth FIXED OBJECT
Object Contacted 2	0

NASS Weighting Factor

Weighting factor	46.641204081
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Rollover Characteristics

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

Vehicle Factors

Make-Model	Toyota Celica
Year	1983
Class	PASSENGER CAR
Body Type	2DR SEDAN/HT/CPE
Weight	116

Pre-Crash Driver Data

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

PASSENGER Factors

Age	33	Height	168	Weight	70
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

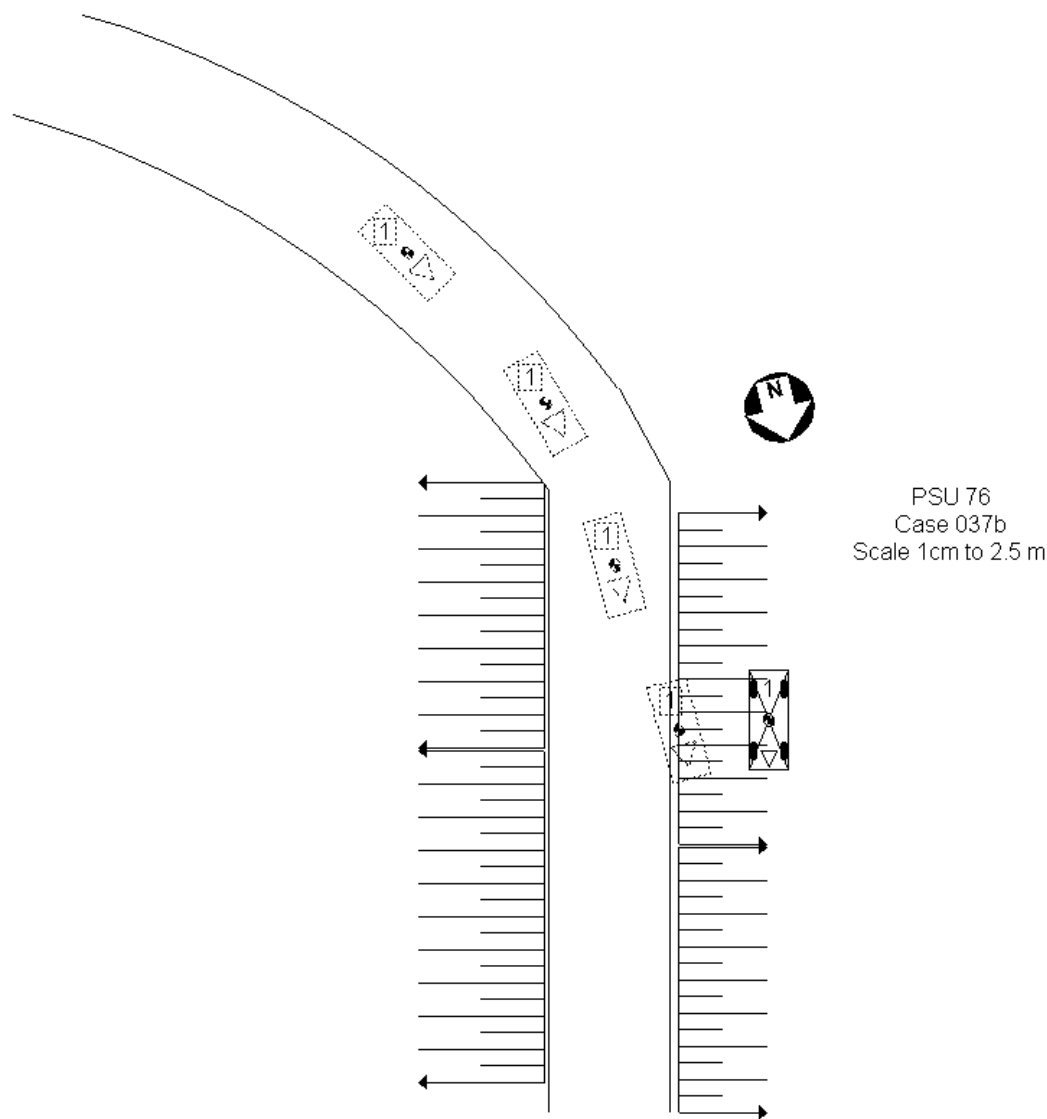
Occupant	1998-75-86-1-3
MAIS	3=Serious
Seat Position	Second middle

AIS Level	Injury Description	Contacts
3=Serious	794006	Windshield
1=Minor	Facial skin laceration, minor	Windshield
1=Minor	Facial skin laceration, minor	Windshield
1=Minor	Facial skin laceration, minor	Windshield

73 Case 1998-76-37

Summary:

This single vehicle accident occurred on a 2 lane dirt road, with mountain curves and grades. At the time of the accident there were no adverse atmospheric conditions. Vehicle #1 was southbound when it ran off the right side of the road and commenced to rollover. The vehicle came to rest on its roof, and a fire ensued from the engine compartment. Driver #1 recieved fatal injuries due to the accident. Vehicle #1 was towed due to damages.



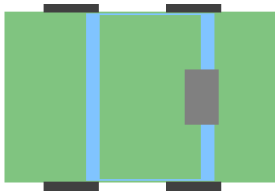
Vehicle	Body type	Make	Model	Year	Occ.#	Age	Occupant's sex	Maximum known occupant ais
1	LARGE UTILITY	Jeep	Cherokee-83	1993	1	57	MALE	6=Maximum

Occupant: 1998-76-37-1-1



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	183.91195905
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Rollover Characteristics

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

Pre-Crash Environment

Traffic Flow	Not DIVIDED
Number of Travel Lanes	TWO
Roadway Alignment	STRAIGHT
Roadway Profile	DOWNHILL GRADE
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	Jeep Cherokee-83
Year	1993
Class	TRUCK
Body Type	LARGE UTILITY
Weight	164

Pre-Crash Driver Data

Accident Type	2
Pre-event Movement	GOING STRAIGHT
Critical Pre-crash Event	TRAVEL TOO FAST
Attempted Avoidance Maneuver	BRAKE W/ LOCKUP
Pre-impact Stability	LONGITUDINAL SKID
Pre-impact Location	DEPARTED ROADWAY

DRIVER Factors

Age	57	Height	183	Weight	75
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

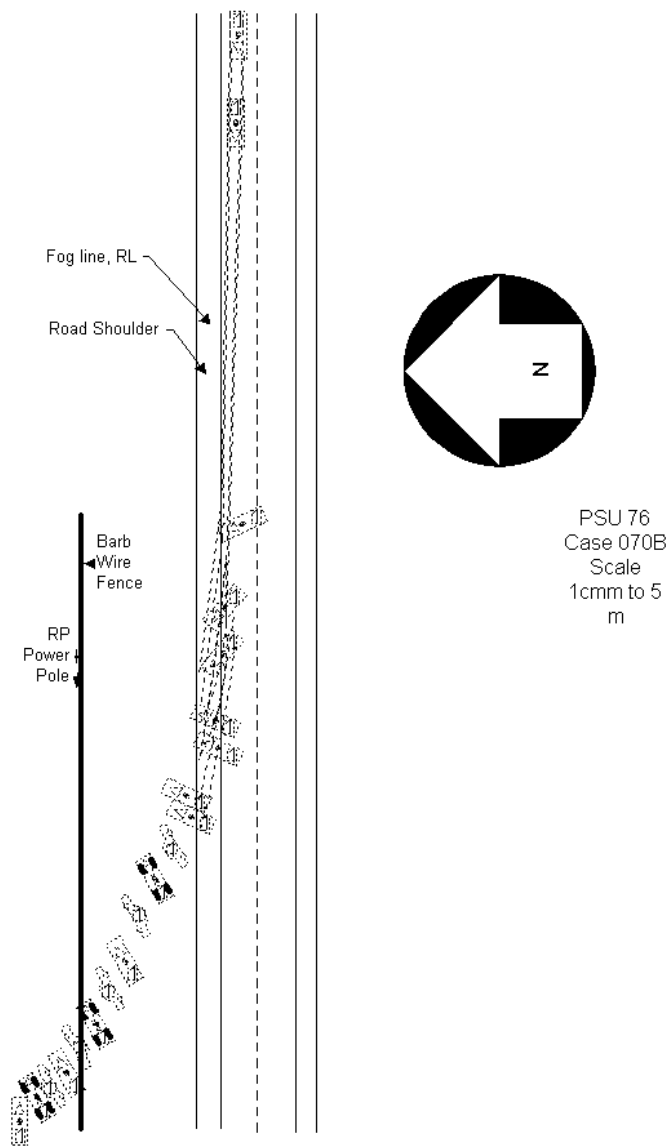
Occupant	1998-76-37-1-1
MAIS	6=Maximum
Seat Position	Front left side

AIS Level	Injury Description	Contacts
6=Maximum	Burn, 2nd or 3rd degree, >902=Moderate	Skull fracture, vault, NFS
Roof		

74 Case 1998-76-70

Summary:

This Single vehicle crash occurred on a two lane non-divided asphalt roadway. This road is straight and level, with no defects. This crash occurred during daylight hours with no adverse atmospheric conditions. Vehicle #1 was westbound when it applied its brakes with lockup and entered a clockwise spin. Vehicle #1 then left the road and rolled three times and came to rest on in wheels. Vehicle #1 then experienced a small fire on its left side. Vehicle #1 was towed due to damage. All four of the occupants were completely ejected. Occupants #1,2,3 all received fatal injuries. Occupant #4 was admitted for incapacitating injuries.



Vehicle	Body type	Make	Model	Year	Occ.#	Age	Occupant's sex	Maximum known occupant ais
1	COMPACT PICKUP	Toyota	Pickup	1993	1	30	FEMALE-NOT PREG	5=Critical
1	COMPACT PICKUP	Toyota	Pickup	1993	2	37	MALE	4=Severe
1	COMPACT PICKUP	Toyota	Pickup	1993	3	38	MALE	3=Serious
1	COMPACT PICKUP	Toyota	Pickup	1993	4	24	FEMALE-NOT PREG	1=Minor

Occupant: 1998-76-70-1-1



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, 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	12 QUARTER TURNS
Impact Speed	< 0.5KMPH
Total, Longitudal, and Lateral δV	< 0.5 KMPH < 0.5 KMPH <
Est. δV with sequence number	0.5 KMPH
CDC	MODERATE 1
Damage (C1-C6)	0 T D D O 3
Crush (L and D)	0 0 0 0 0 0
Object Contacted 1	0 0
Object Contacted 2	ROLLOVER-OVERTURN

NASS Weighting Factor

Weighting factor	142.2916511
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Rollover Characteristics

Number of Events	2
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 LEFT

Vehicle Factors

Make-Model	Toyota Pickup
Year	1993
Class	TRUCK
Body Type	COMPACT PICKUP
Weight	139

Pre-Crash Driver Data

Accident Type	2
Pre-event Movement	GOING STRAIGHT
Critical Pre-crash Event	0
Attempted Avoidance Manuever	BRAKE W/ LOCKUP
Pre-impact Stability	LATERAL SKID-CLK
Pre-impact Location	DEPARTED ROADWAY

DRIVER Factors

Age	30	Height	160	Weight	63
Gender					FEMALE-NOT PREG
Ejection					COMPLETE EJECT
Ejection Area					Left FRONT
Entrapment					Not ENTRAPPED

Restraint Factors

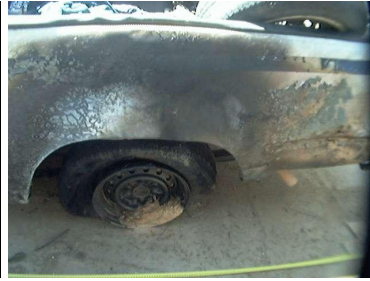
Restrain	None used/avail
AOPS	NO
Airbag Deployment	Not EQUIP/AVAIL
Airbag Deployment - 1 st Seat	Not EQUIP/AVAIL
Airbag Deployment - Oth Seat	Not EQUIP W/ OTH

Injuries

Occupant	1998-76-70-1-1
MAIS	5=Critical
Seat Position	Front left side

AIS Level	Injury Description	Contacts
2=Moderate	Lethargic on admission, unconscious <1 hour	Ground
3=Serious	Femoral shaft fracture	Ground
3=Serious	Intertrochanteric femoral fracture	Ground
2=Moderate	Cervical fracture without cord injury +/- dislocation NFS	Ground
2=Moderate	Pelvic fracture, closed	Ground
3=Serious	Sacroiliac fracture	Ground
2=Moderate	Hip joint dislocation NFS	Ground
3=Serious	Lung contusion, unilateral	Ground
3=Serious	Femoral vein laceration, major (complete, EBL>203=Serious	Femoral artery intimal tear without disruption
Ground		
5=Critical	Cerebral edema, severe, (absent ventricles&cisterns)	Ground
5=Critical	Cerebral edema, severe, (absent ventricles&cisterns)	Ground
2=Moderate	Lumbar fracture of transverse process without cord injury	Ground
2=Moderate	Lumbar fracture of transverse process without cord injury	Ground
2=Moderate	Lumbar fracture of transverse process without cord injury	Ground
2=Moderate	Lumbar fracture of transverse process without cord injury	Ground

Occupant: 1998-76-70-1-2



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, 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	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 1
CDC	0 T D D O 3
Damage (C1-C6)	0 0 0 0 0
Crush (L and D)	0 0
Object Contacted 1	ROLLOVER-OVERTURN
Object Contacted 2	0

NASS Weighting Factor

Weighting factor	142.2916511
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Rollover Characteristics

Number of Events	2
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 LEFT

Vehicle Factors

Make-Model	Toyota Pickup
Year	1993
Class	TRUCK
Body Type	COMPACT PICKUP
Weight	139

Pre-Crash Driver Data

Accident Type	2
Pre-event Movement	GOING STRAIGHT
Critical Pre-crash Event	0
Attempted Avoidance Manuever	BRAKE W/ LOCKUP
Pre-impact Stability	LATERAL SKID-CLK
Pre-impact Location	DEPARTED ROADWAY

PASSENGER Factors

Age	37	Height	175	Weight	72
Gender			MALE		
Ejection			COMPLETE EJECT		
Ejection Area			Right FRONT		
Entrapment			Not ENTRAPPED		

Restraint Factors

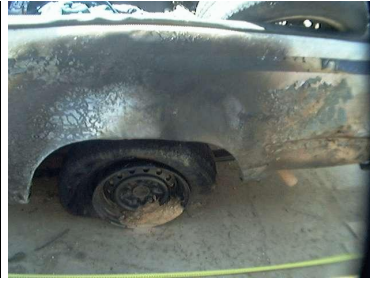
Restrain	None used/avail
AOPS	NO
Airbag Deployment	Not EQUIP/AVAIL
Airbag Deployment - 1 st Seat	Not EQUIP/AVAIL
Airbag Deployment - Oth Seat	Not EQUIP W/ OTH

Injuries

Occupant	1998-76-70-1-2
MAIS	4=Severe
Seat Position	Front right side

AIS Level	Injury Description	Contacts
4=Severe	Basilar skull fracture, open, with brain tissue loss.	Ground
3=Serious	Cerebral subarachnoid hemorrhage	Ground
3=Serious	Cerebral edema, mild (compressed ventricles w/o brain stem)	Ground
1=Minor	Single rib fracture	Ground
2=Moderate	Pelvic fracture NFS	Ground
1=Minor	Scalp contusion	Ground
1=Minor	Upper extremity skin abrasion	Ground
1=Minor	Thoracic skin abrasion	Ground
1=Minor	Neck skin contusion (hematoma)	Ground
1=Minor	690202	Ground
1=Minor	Leg skin abrasion	Ground
1=Minor	Facial skin abrasion	Ground
1=Minor	Facial skin contusion	Ground
1=Minor	Thoracic skin contusion	Ground
1=Minor	Leg skin contusion (hematoma)	Ground

Occupant: 1998-76-70-1-3



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, 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	12 QUARTER TURNS
Impact Speed	< 0.5KMPH
Total, Longitudal, and Lateral δV	< 0.5 KMPH < 0.5 KMPH <
Est. δV with sequence number	0.5 KMPH
CDC	MODERATE 1
Damage (C1-C6)	0 T D D O 3
Crush (L and D)	0 0 0 0 0 0
Object Contacted 1	0 0
Object Contacted 2	ROLLOVER-OVERTURN

NASS Weighting Factor

Weighting factor	142.2916511
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Rollover Characteristics

Number of Events	2
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 LEFT

Vehicle Factors

Make-Model	Toyota Pickup
Year	1993
Class	TRUCK
Body Type	COMPACT PICKUP
Weight	139

Pre-Crash Driver Data

Accident Type	2
Pre-event Movement	GOING STRAIGHT
Critical Pre-crash Event	0
Attempted Avoidance Manuever	BRAKE W/ LOCKUP
Pre-impact Stability	LATERAL SKID-CLK
Pre-impact Location	DEPARTED ROADWAY

PASSENGER Factors

Age	38	Height	178	Weight	84
Gender			MALE		
Ejection			COMPLETE EJECT		
Ejection Area			Other AREA		
Entrapment			Not ENTRAPPED		

Restraint Factors

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

Injuries

Occupant	1998-76-70-1-3
MAIS	3=Serious
Seat Position	Second left

AIS Level	Injury Description	Contacts
7=Unk. sev.	Head injury, closed, NFS	Ground
7=Unk. sev.	315099	Ground
3=Serious	Femur fracture NFS	Ground
1=Minor	Leg skin contusion (hematoma)	Ground

Occupant: 1998-76-70-1-4



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, 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	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 1
CDC	0 T D D O 3
Damage (C1-C6)	0 0 0 0 0
Crush (L and D)	0 0
Object Contacted 1	ROLLOVER-OVERTURN
Object Contacted 2	0

NASS Weighting Factor

Weighting factor	142.2916511
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Rollover Characteristics

Number of Events	2
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 LEFT

Vehicle Factors

Make-Model	Toyota Pickup
Year	1993
Class	TRUCK
Body Type	COMPACT PICKUP
Weight	139

Pre-Crash Driver Data

Accident Type	2
Pre-event Movement	GOING STRAIGHT
Critical Pre-crash Event	0
Attempted Avoidance Manuever	BRAKE W/ LOCKUP
Pre-impact Stability	LATERAL SKID-CLK
Pre-impact Location	DEPARTED ROADWAY

PASSENGER Factors

Age	24	Height	0	Weight	75
Gender					FEMALE-NOT PREG
Ejection					COMPLETE EJECT
Ejection Area					Other AREA
Entrapment					Not ENTRAPPED

Restraint Factors

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

Injuries

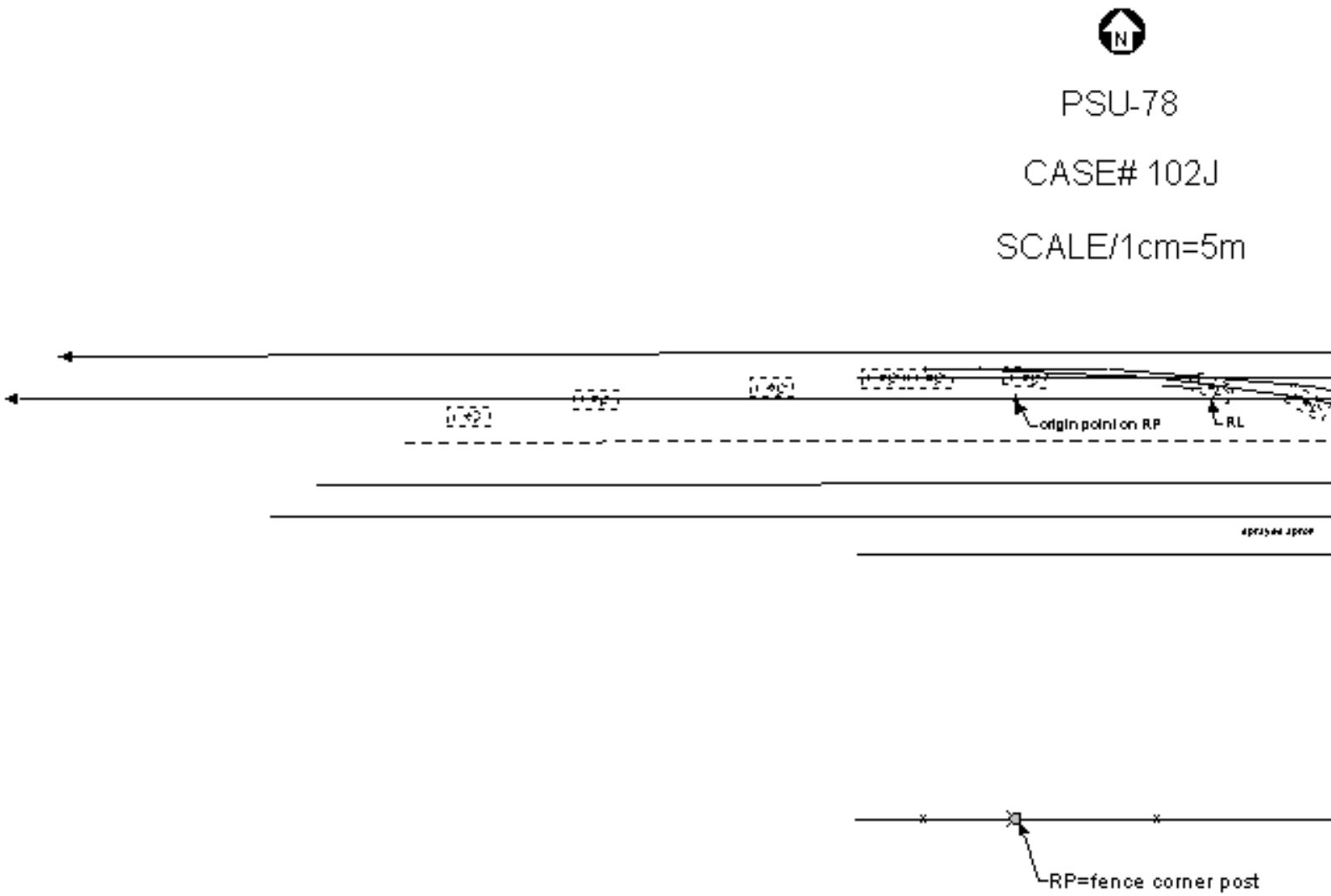
Occupant	1998-76-70-1-4
MAIS	1=Minor
Seat Position	Second right

AIS Level	Injury Description	Contacts
1=Minor	Awake on admission, never unconscious	Ground
1=Minor	Acute cervical spine strain without fracture or dislocation	Ground
1=Minor	Ankle joint sprain	Ground

75 Case 1998-78-102

Summary:

V1 was eastbound on a rural, 2-lane ,divided, dry, level, bituminous interstate roadway and gradually exited the left side into the median. The driver steered right, re-entered and crossed the roadway and onto the right shoulder area rotating CW in a broad side yaw. The vehicle tripped both left side tires on the shoulder and began to overturn in desert terrain. Between the 5th and 6th quarter turn the vehicle came in contact with, and separated, a barbed wire right-of-way fence. The vehicle continued to overturn to its point of final rest on the driver side facing west, a total of (9) quarter turns. The driver only occupant was restrained and unable to exit after the fire began. A passerby cut the seatbelt and pulled the driver from the burning vehicle. The driver was injured, was air-evacuated to a trauma center and hospitalized. The vehicle was totally consumed by fire and was towed due to total loss. The vehicle was equipped with manual LS restraints,and (2) frontal airbags. It is not known if the airbags were deployed .



Vehicle	Body type	Make	Model	Year	Occ.#	Age	Occupant's sex	Maximum known occupant ais
1	COMPACT UTILITY	Chevrolet	S-10 Blazer	1998	1	19	FEMALE-NOT PREG	7=Unk. sev.

Occupant: 1998-78-102-1-1



Fire Information

Fire Occurrence	Major fire
Fire Origin	Engine compart
Location of Fuel Leakage	No fuel tank
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	Other damage
Fuel Type	Gasoline



Crash Severity

Nr. Quarter Turns	9 QUARTER TURNS
Impact Speed	< 0.5KMPH
Total, Longitudal, and Lateral δV	< 0.5 KMPH < 0.5 KMPH <
Est. δV with sequence number	0.5 KMPH
CDC	SEVERE 1
Damage (C1-C6)	0 T D D O 4
Crush (L and D)	0 0 0 0 0 0
Object Contacted 1	0 0
Object Contacted 2	ROLLOVER-OVERTURN
	FENCE

NASS Weighting Factor

Weighting factor	56.89151539
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Rollover Characteristics

Number of Events	3
Rollover Initiation Type	TRIP-OVER
Location of Rollover Initiation	ON SHLDER-PAVED
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	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 S-10 Blazer
Year	1998
Class	PASSENGER CAR
Body Type	COMPACT UTILITY
Weight	184

Pre-Crash Driver Data

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

DRIVER Factors

Age	19	Height	163	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	Unk IF DEPLOYED
Airbag Deployment - 1 st Seat	DR
PAS UNK DEPLY	
Airbag Deployment - Oth Seat	Not EQUIP W/ OTH

Injuries

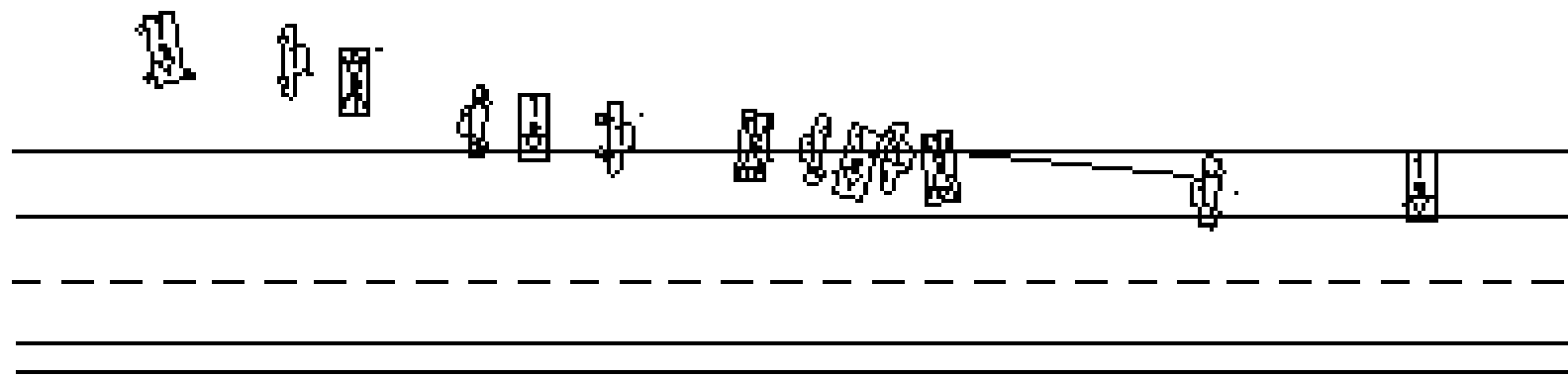
Occupant	1998-78-102-1-1
MAIS	7=Unk. sev.
Seat Position	Front left side

AIS Level	Injury Description	Contacts
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76 Case 1998-78-107

Summary:

V-1 was traveling west on a 4-lane, dry, level, bituminous and divided roadway, V-1 drifted off the roadway on the left side where the driver took evasive action by over-correcting to the right and to the left, this resulted on V-1 starting a counterclockwise rotation and to roll over on the paved shoulder and roadside. After 12 quarter turns V-1 came to rest on its wheels facing south. The two occupants on the rear seat were ejected from the vehicle clear off the path, the driver was also ejected and landed in front of the vehicle path, and the rear portion of the vehicle came to rest on top of the driver and was fatally injured, the front passenger was not ejected. The vehicle was towed from the scene.



Vehicle	Body type	Make	Model	Year	Occ.#	Age	Occupant's sex	Maximum known occupant ais
1	COMPACT UTILITY	Isuzu	Rodeo	1994	1	29	FEMALE-NOT PREG	7=Unk. sev.
1	COMPACT UTILITY	Isuzu	Rodeo	1994	2	30	MALE	2=Moderate
1	COMPACT UTILITY	Isuzu	Rodeo	1994	3	2	FEMALE-NOT PREG	2=Moderate
1	COMPACT UTILITY	Isuzu	Rodeo	1994	4	11	MALE	2=Moderate

Occupant: 1998-78-107-1-1



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	12 QUARTER TURNS
Impact Speed	< 0.5KMPH
Total, Longitudal, and Lateral δV	< 0.5 KMPH < 0.5 KMPH <
Est. δV with sequence number	0.5 KMPH
CDC	MODERATE 1
Damage (C1-C6)	0 T D D O 3
Crush (L and D)	0 0 0 0 0 0
Object Contacted 1	0 0
Object Contacted 2	ROLLOVER-OVERTRN

NASS Weighting Factor

Weighting factor	60.479869876
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Rollover Characteristics

Number of Events	2
Rollover Initiation Type	TRIP-OVER
Location of Rollover Initiation	ON SHLDER-PAVED
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	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	Isuzu Rodeo
Year	1994
Class	PASSENGER CAR
Body Type	COMPACT UTILITY
Weight	161

Pre-Crash Driver Data

Accident Type	6
Pre-event Movement	GOING STRAIGHT
Critical Pre-crash Event	TRAVEL TOO FAST
Attempted Avoidance Maneuver	Other ACTION
Pre-impact Stability	LAT SKID-CTR CLK
Pre-impact Location	DEPARTED ROADWAY

DRIVER Factors

Age	29	Height	160	Weight	57
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	1998-78-107-1-1
MAIS	7=Unk. sev.
Seat Position	Front left side

AIS Level	Injury Description	Contacts
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Occupant: 1998-78-107-1-2



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	Right 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 <
Est. δV with sequence number	0.5 KMPH
CDC	MODERATE 1
Damage (C1-C6)	0 T D D O 3
Crush (L and D)	0 0 0 0 0 0
Object Contacted 1	0 0
Object Contacted 2	ROLLOVER-OVERTRN

NASS Weighting Factor

Weighting factor	60.479869876
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Rollover Characteristics

Number of Events	2
Rollover Initiation Type	TRIP-OVER
Location of Rollover Initiation	ON SHLDER-PAVED
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	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	Isuzu Rodeo
Year	1994
Class	PASSENGER CAR
Body Type	COMPACT UTILITY
Weight	161

Pre-Crash Driver Data

Accident Type	6
Pre-event Movement	GOING STRAIGHT
Critical Pre-crash Event	TRAVEL TOO FAST
Attempted Avoidance Maneuver	Other ACTION
Pre-impact Stability	LAT SKID-CTR CLK
Pre-impact Location	DEPARTED ROADWAY

PASSENGER Factors

Age	30	Height	0	Weight	0
Gender					MALE
Ejection					No EJECTION
Ejection Area					No EJECTION
Entrapment					Not ENTRAPPED

Restraint Factors

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

Injuries

Occupant	1998-78-107-1-2
MAIS	2=Moderate
Seat Position	Front right side

AIS Level	Injury Description	Contacts
2=Moderate	Foot fracture NFS	Right panel
2=Moderate	851605	Right panel
2=Moderate	Tibial fracture NFS	Right panel
1=Minor	297602	Flying glass

Occupant: 1998-78-107-1-3



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	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	12 QUARTER TURNS
Impact Speed	< 0.5KMPH
Total, Longitudal, and Lateral δV	< 0.5 KMPH < 0.5 KMPH <
Est. δV with sequence number	0.5 KMPH
CDC	MODERATE 1
Damage (C1-C6)	0 T D D O 3
Crush (L and D)	0 0 0 0 0 0
Object Contacted 1	0 0
Object Contacted 2	ROLLOVER-OVERTURN

NASS Weighting Factor

Weighting factor	60.479869876
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Rollover Characteristics

Number of Events	2
Rollover Initiation Type	TRIP-OVER
Location of Rollover Initiation	ON SHOULDER-PAVED
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	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	Isuzu Rodeo
Year	1994
Class	PASSENGER CAR
Body Type	COMPACT UTILITY
Weight	161

Pre-Crash Driver Data

Accident Type	6
Pre-event Movement	GOING STRAIGHT
Critical Pre-crash Event	TRAVEL TOO FAST
Attempted Avoidance Manuever	Other ACTION
Pre-impact Stability	LAT SKID-CTR CLK
Pre-impact Location	DEPARTED ROADWAY

PASSENGER Factors

Age	2	Height	0	Weight	0
Gender					FEMALE-NOT PREG
Ejection					COMPLETE EJECT
Ejection Area					Left REAR
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	1998-78-107-1-3
MAIS	2=Moderate
Seat Position	Second left

AIS Level	Injury Description	Contacts
2=Moderate	Skull fracture, NFS	Roof

Occupant: 1998-78-107-1-4



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	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	12 QUARTER TURNS
Impact Speed	< 0.5KMPH
Total, Longitudal, and Lateral δV	< 0.5 KMPH < 0.5 KMPH <
Est. δV with sequence number	0.5 KMPH
CDC	MODERATE 1
Damage (C1-C6)	0 T D D O 3
Crush (L and D)	0 0 0 0 0 0
Object Contacted 1	0 0
Object Contacted 2	ROLLOVER-OVERTRN

NASS Weighting Factor

Weighting factor	60.479869876
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Rollover Characteristics

Number of Events	2
Rollover Initiation Type	TRIP-OVER
Location of Rollover Initiation	ON SHLDER-PAVED
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	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	Isuzu Rodeo
Year	1994
Class	PASSENGER CAR
Body Type	COMPACT UTILITY
Weight	161

Pre-Crash Driver Data

Accident Type	6
Pre-event Movement	GOING STRAIGHT
Critical Pre-crash Event	TRAVEL TOO FAST
Attempted Avoidance Maneuver	Other ACTION
Pre-impact Stability	LAT SKID-CTR CLK
Pre-impact Location	DEPARTED ROADWAY

PASSENGER Factors

Age	11	Height	0	Weight	0
Gender					MALE
Ejection					COMPLETE EJECT
Ejection Area					Left REAR
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

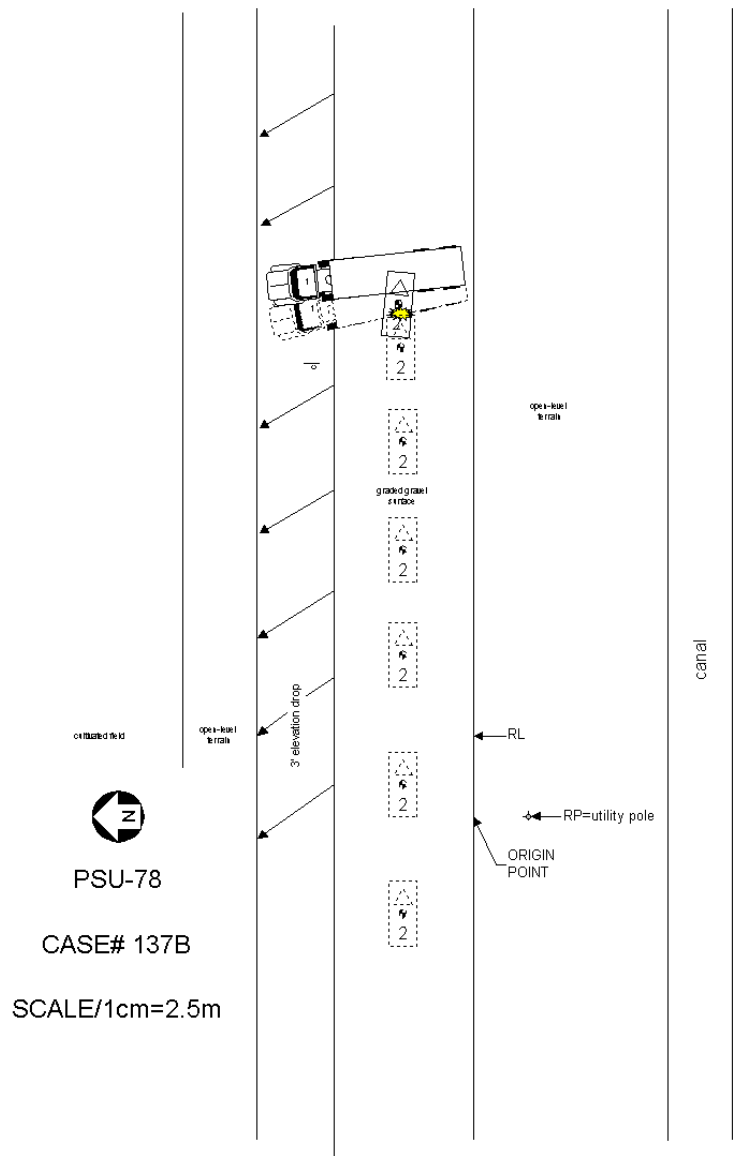
Occupant	1998-78-107-1-4
MAIS	2=Moderate
Seat Position	Second right

AIS Level	Injury Description	Contacts
2=Moderate	Skull fracture, NFS	Roof

77 Case 1998-78-137

Summary:

A tractor pulling a trailer that had been eastbound on a rural, dry, level, gravel surface, 2-lane roadway and attempted to turn around, the trailer became high centered due to a elevation drop of the tractor. The driver stopped, disc-connected the trailer, pulled the tractor off of the roadway and set out warning devices. V1 was eastbound on the same rural roadway, made no evasive attempts, and struck the left side of the trailer with the front of V1. V1 under rode the trailer and pushed it sideways an estimated 6'. V1 came to final rest engaged with the trailer and facing generally eastbound. The unrestrained driver and right front passenger were killed and not treated. Extrication was neccessary to remove the victims from the vehicle. The PAR reports a small engine compartment fire occurred after impact and the tractor driver extinguished it quickly.



Vehicle #	Body type	Make	Model	Year	Occ. #	Age	Occupant's sex	Maximum known occupant ais
1	STATION WAGON	Pontiac	Bonneville/Catalina	1983	1	21	MALE	2=Moderate
1	STATION WAGON	Pontiac	Bonneville/Catalina	1983	2	19	FEMALE-NOT PREG	2=Moderate

Occupant: 1998-78-137-1-1



Fire Information

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



Crash Severity

Nr. Quarter Turns	No rollover
Impact Speed	< 0.5KMPH
Total, Longitudal, and Lateral δV	< 0.5 KMPH < 0.5 KMPH <
Est. δV with sequence number	0.5 KMPH
CDC	SEVERE 1
Damage (C1-C6)	12 F D E W 6
Crush (L and D)	0 92 0 0 84 0
Object Contacted 1	174 0
Object Contacted 2	Oth NONFIXED OBJ
	0

NASS Weighting Factor

Weighting factor	86.371739432
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Rollover Characteristics

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

Pre-Crash Environment

Traffic Flow	Not DIVIDED
Number of Travel Lanes	TWO
Roadway Alignment	STRAIGHT
Roadway Profile	LEVEL
Roadway Surface Type	DIRT
Roadway Surface Condition	SAND/DIRT/OIL
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)	2

Vehicle Factors

Make-Model	Pontiac Bonneville/Catalina
Year	1983
Class	PASSENGER CAR
Body Type	STATION WAGON
Weight	155

Pre-Crash Driver Data

Accident Type	12
Pre-event Movement	GOING STRAIGHT
Critical Pre-crash Event	OBJECT IN ROAD
Attempted Avoidance Manuever	BRAKE W/ LOCKUP
Pre-impact Stability	LONGITUDINAL SKID
Pre-impact Location	Unk IF LEFT LANE

DRIVER Factors

Age	21	Height	180	Weight	73
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	1998-78-137-1-1
MAIS	2=Moderate
Seat Position	Front left side

AIS Level	Injury Description	Contacts
2=Moderate	Hepatic laceration NFS	Unknown SOURCE
2=Moderate	Leg skin avulsion, major (>100cms2)	Unknown SOURCE
1=Minor	Leg skin laceration NFS	Unknown SOURCE
1=Minor	Facial skin abrasion	Unknown SOURCE
1=Minor	Facial skin contusion	Unknown SOURCE
1=Minor	Thoracic skin contu- sion	Unknown SOURCE
1=Minor	Thoracic skin abra- sion	Unknown SOURCE

Occupant: 1998-78-137-1-2



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 <
Est. δV with sequence number	0.5 KMPH
CDC	SEVERE 1
Damage (C1-C6)	12 F D E W 6
Crush (L and D)	0 92 0 0 84 0
Object Contacted 1	174 0
Object Contacted 2	Oth NONFIXED OBJ
	0

NASS Weighting Factor

Weighting factor	86.371739432
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Rollover Characteristics

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

Pre-Crash Environment

Traffic Flow	Not DIVIDED
Number of Travel Lanes	TWO
Roadway Alignment	STRAIGHT
Roadway Profile	LEVEL
Roadway Surface Type	DIRT
Roadway Surface Condition	SAND/DIRT/OIL
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)	2

Vehicle Factors

Make-Model	Pontiac Bonneville/Catalina
Year	1983
Class	PASSENGER CAR
Body Type	STATION WAGON
Weight	155

Pre-Crash Driver Data

Accident Type	12
Pre-event Movement	GOING STRAIGHT
Critical Pre-crash Event	OBJECT IN ROAD
Attempted Avoidance Manuever	BRAKE W/ LOCKUP
Pre-impact Stability	LONGITUDINAL SKID
Pre-impact Location	Unk IF LEFT LANE

PASSENGER Factors

Age	19	Height	178	Weight	61
Gender					FEMALE-NOT PREG
Ejection					No EJECTION
Ejection Area					No EJECTION
Entrapment					ENTRAPPED

Restraint Factors

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

Injuries

Occupant	1998-78-137-1-2
MAIS	2=Moderate
Seat Position	Front right side

AIS Level	Injury Description	Contacts
2=Moderate	Patellar fracture	Unknown SOURCE
2=Moderate	Patellar fracture	Unknown SOURCE
2=Moderate	Arm, forearm, hand fracture NFS	Unknown SOURCE
1=Minor	Skin abrasion (body region unknown)	Unknown SOURCE
7=Unk. sev.	Head injury, closed, NFS	Unknown SOURCE

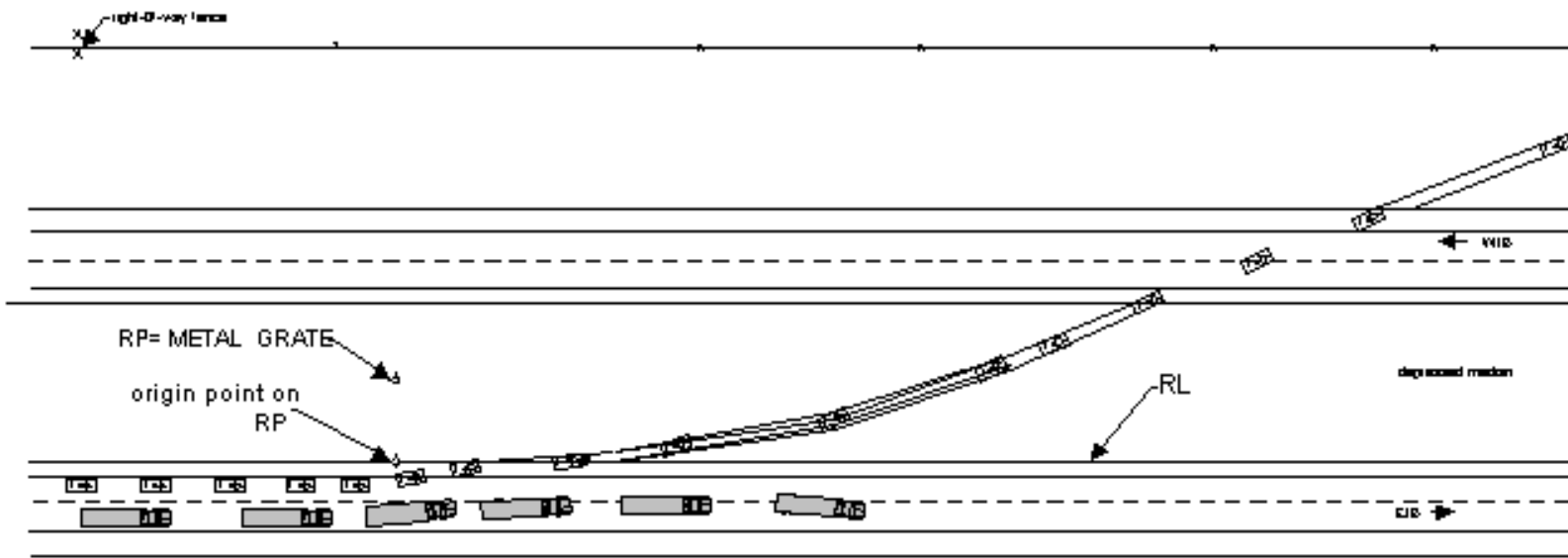
78 Case 1998-78-501

Summary:

V-1 was traveling east on a four lane, rural, dry, level, bituminous, divided interstate freeway. V-1 was in the #2 travel lane and a non contact tractor trailer in the #1 lane encroached into its lane. V-1 ran off the roadway on the left edge after avoiding the collision with the Tractor- trailer. V-1 then crossed the center median and the west-bound lanes departing the roadway to the North. After departing the roadway, V-1 continued to travel Northeast and its front impacted a right of way fence. After travelling through the fence V-1came to rest on it's wheels facing east off of the north side of the roadway. V-1 then caught fire at final rest and burned completely. There were no injuries reported and V-1 was towed due to complete burning.

PSU-78 501g

Scale 1=1050



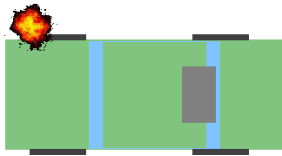
Vehicle	Body type	Make	Model	Year	Occ.#	Age	Occupant's sex	Maximum known occupant ais
1	4-DR SEDAN/HDTOP	Hyundai	Accent	1997	1	22	FEMALE-NOT PREG	0=None

Occupant: 1998-78-501-1-1



Fire Information

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

Vehicle Factors

Make-Model	Hyundai Accent
Year	1997
Class	PASSENGER CAR
Body Type	4-DR SEDAN/HDTOP
Weight	95

Crash Severity

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

Pre-Crash Driver Data

Accident Type	8
Pre-event Movement	GOING STRAIGHT
Critical Pre-crash Event	Same DIR-OV LEFT
Attempted Avoidance Manuever	STEERING LEFT
Pre-impact Stability	TRACKING
Pre-impact Location	DEPARTED ROADWAY

NASS Weighting Factor

Weighting factor	0
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DRIVER Factors

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

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

Injuries

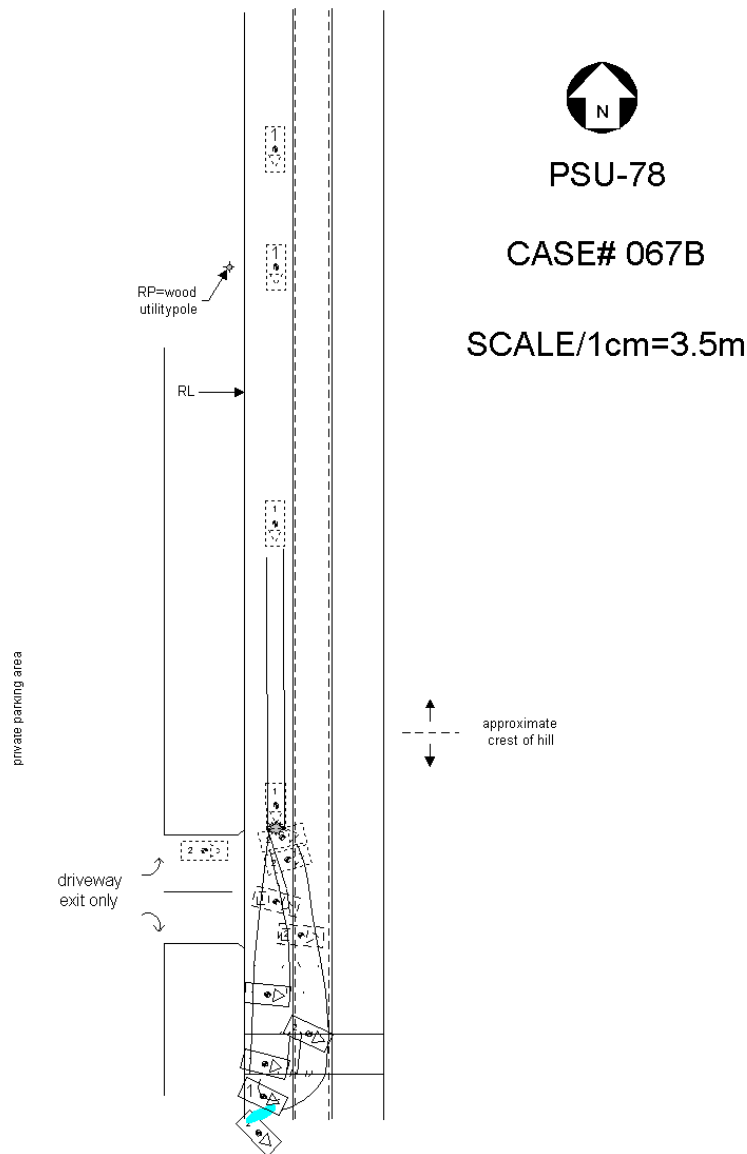
Occupant	1998-78-501-1-1
MAIS	0=None
Seat Position	Front left side

AIS Level	Injury Description	Contacts
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79 Case 1998-78-67

Summary:

V1 was southbound on a urban, 3-lane, dry, bituminous roadway with areas of upgrade and downgrade. V1 was approaching a driveway exit from a public park. The exit is at the crest between 2 downgrade areas. V1 was approaching from the lower area to the north. V2 was attempting to exit the park area and turn left onto the same roadway that V1 was travelling. The driver of V1 attempted to avoid the crash as it reached the top of the hill by hard braking with lock-up. The front of V1 struck the left side of V2. The impact caused V2 to rotate clockwise and was pushed sideways to final rest against the curb facing generally southeast. V1 came to final rest very close to V2 and also facing generally southeast. The unrestrained driver of V1 was injured, transported and admitted for injuries. The restrained driver of V2 was killed at impact in this crash. V1 and V2 were towed due to damage.



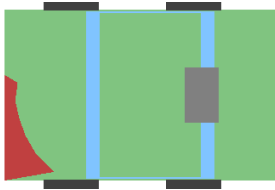
Vehicle	Body type	Make	Model	Year	Occ.#	Age	Occupant's sex	Maximum known occupant ais
1	COMPACT PICKUP	Ford	Ranger	1994	1	24	MALE	2=Moderate
2	4-DR SEDAN/HDTOP	Oldsmobile	Ciera	1989	1	74	FEMALE-NOT PREG	3=Serious

Occupant: 1998-78-67-1-1



Fire Information

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



Crash Severity

Nr. Quarter Turns	No rollover
Impact Speed	998
Total, Longitudal, and Lateral δV	66 -65 -12
Est. δV with sequence number	DELTA V CODED 1
CDC	12 F D E W 4
Damage (C1-C6)	72 45 30 22 16 19
Crush (L and D)	156 0
Object Contacted 1	VEHICLE NO. 2
Object Contacted 2	VEHICLE NO. 2

NASS Weighting Factor

Weighting factor	58.956818725
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Rollover Characteristics

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

Pre-Crash Environment

Traffic Flow	Not DIVIDED
Number of Travel Lanes	THREE
Roadway Alignment	STRAIGHT
Roadway Profile	HILL CREST
Roadway Surface Type	ASPHALT
Roadway Surface Condition	DRY
Light Conditions	DAYLIGHT
Atmospheric Conditions	No ADVERSE COND
Relation to Intersection	DRIVEWAY RELATED
Traffic Control Device	
Police Reported Alcohol Presence	ALCOHOL PRESENT
Alcohol Test (< 95 indicates BAC 0.xx)	19

Vehicle Factors

Make-Model	Ford Ranger
Year	1994
Class	TRUCK
Body Type	COMPACT PICKUP
Weight	153

Pre-Crash Driver Data

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

DRIVER Factors

Age	24	Height	173	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	1998-78-67-1-1
MAIS	2=Moderate
Seat Position	Front left side

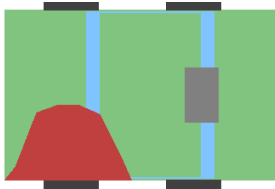
AIS Level	Injury Description	Contacts
2=Moderate	Lethargic on admission, never unconscious	Unknown SOURCE
1=Minor	Facial skin abrasion	Unknown SOURCE
1=Minor	Facial skin contusion	Unknown SOURCE
1=Minor	Leg skin abrasion	Unknown SOURCE

Occupant: 1998-78-67-2-1



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, 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	THREE
Roadway Alignment	STRAIGHT
Roadway Profile	HILL CREST
Roadway Surface Type	ASPHALT
Roadway Surface Condition	DRY
Light Conditions	DAYLIGHT
Atmospheric Conditions	No ADVERSE COND
Relation to Intersection	DRIVEWAY RELATED
Traffic Control Device	
Police Reported Alcohol Presence	No ALCOHOL
Alcohol Test (< 95 indicates BAC 0.xx)	0

Vehicle Factors

Make-Model	Oldsmobile Ciera
Year	1989
Class	PASSENGER CAR
Body Type	4-DR SEDAN/HDTOP
Weight	128

Crash Severity

Nr. Quarter Turns	No rollover
Impact Speed	998
Total, Longitudal, and Lateral δV	79 -14 78
Est. δV with sequence number	DELTA V CODED 1
CDC	9 L D E W 6
Damage (C1-C6)	19 99 110 110 97 34
Crush (L and D)	188 -42
Object Contacted 1	VEHICLE NO. 1
Object Contacted 2	VEHICLE NO. 1

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

NASS Weighting Factor

Weighting factor	58.956818725
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DRIVER Factors

Rollover Characteristics

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

Age	74	Height	163	Weight	75
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

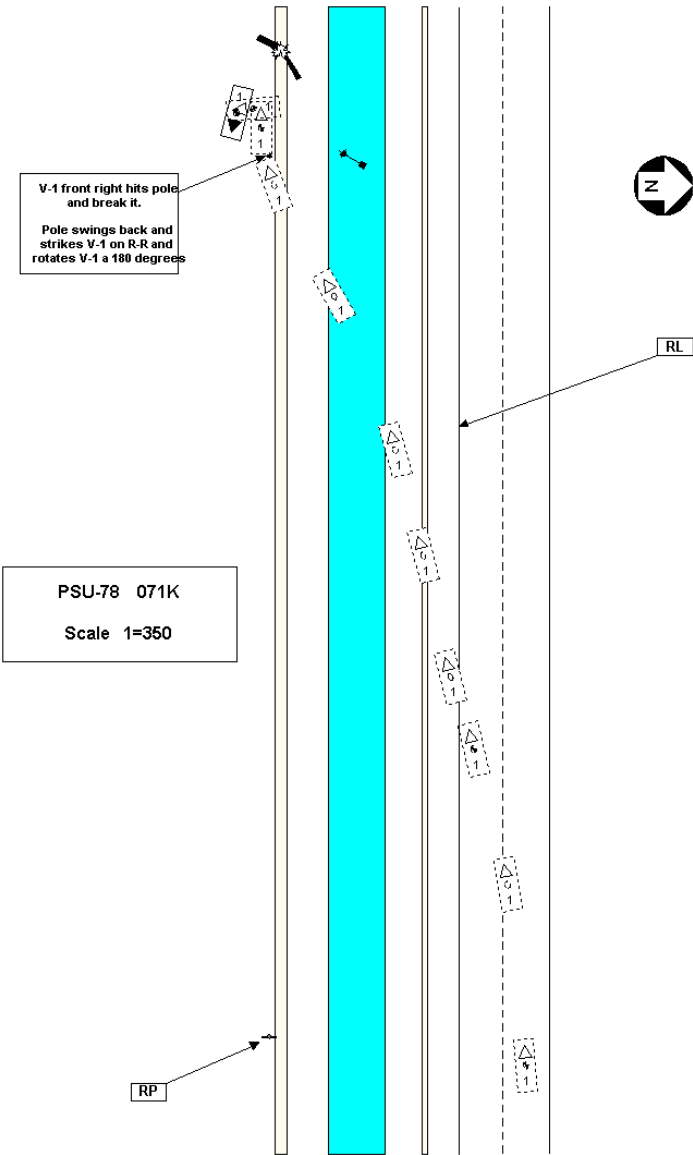
Occupant	1998-78-67-2-1
MAIS	3=Serious
Seat Position	Front left side

AIS Level	Injury Description	Contacts
2=Moderate	Abdominal skin laceration, major (>20 cms & into Sub-Q)	Unknown SOURCE
7=Unk. sev.	Head injury, closed, NFS	Unknown SOURCE
7=Unk. sev.	Blunt chest trauma NFS	Unknown SOURCE
3=Serious	Traumatic leg amputation, partial or complete NFS	Unknown SOURCE
2=Moderate	Upper extremity skin laceration, major (>10 cms hand or >20c	Unknown SOURCE

80 Case 1998-78-71

Summary:

V-1 was traveling west on a 2-lane, rural, dry, bituminous roadway, When it drifted off the south edge of the roadway were V-1 undercarriage struck a dirt berm, both edges of a water canal, and struck a utility pole shearing it off, There was also extensive damage to the rear right of the vehicle by the pole swung back and foward This event rotated V-1 approximately a 180 degrees and came to rest on its wheels facing east were it was consumed by fire The driver was pulled out the vehicle prior to this event. The driver was transported and admitted for his injuries, and V-1 was towed due to damage extend.



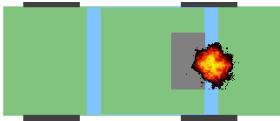
Vehicle	Body type	Make	Model	Year	Occ.#	Age	Occupant's sex	Maximum known occupant ais
1	4-DR SEDAN/HDTOP	Ford	Tempo	1986	1	29	MALE	4=Severe

Occupant: 1998-78-71-1-1



Fire Information

Fire Occurrence	Major fire
Fire Origin	Fuel tank
Location of Fuel Leakage	Filler neck
Type of Fuel Tank	Metallic
Fuel Tank Location	Forward of rear axle, centered
Fuel Cap Location	Right side, behind rear axle
Fuel Tank Damage	Fill neck separation
Fuel Type	Gasoline



Pre-Crash Environment

Traffic Flow	Not DIVIDED
Number of Travel Lanes	TWO
Roadway Alignment	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)	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	SEVERE 3
CDC	12 F Z E W 0
Damage (C1-C6)	0 0 0 0 0
Crush (L and D)	0 0
Object Contacted 1	LARGE POLE
Object Contacted 2	LARGE POLE

NASS Weighting Factor

Weighting factor	56.282063453
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Rollover Characteristics

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

Vehicle Factors

Make-Model	Ford Tempo
Year	1986
Class	PASSENGER CAR
Body Type	4-DR SEDAN/HDTOP
Weight	109

Pre-Crash Driver Data

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

DRIVER Factors

Age	29	Height	168	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

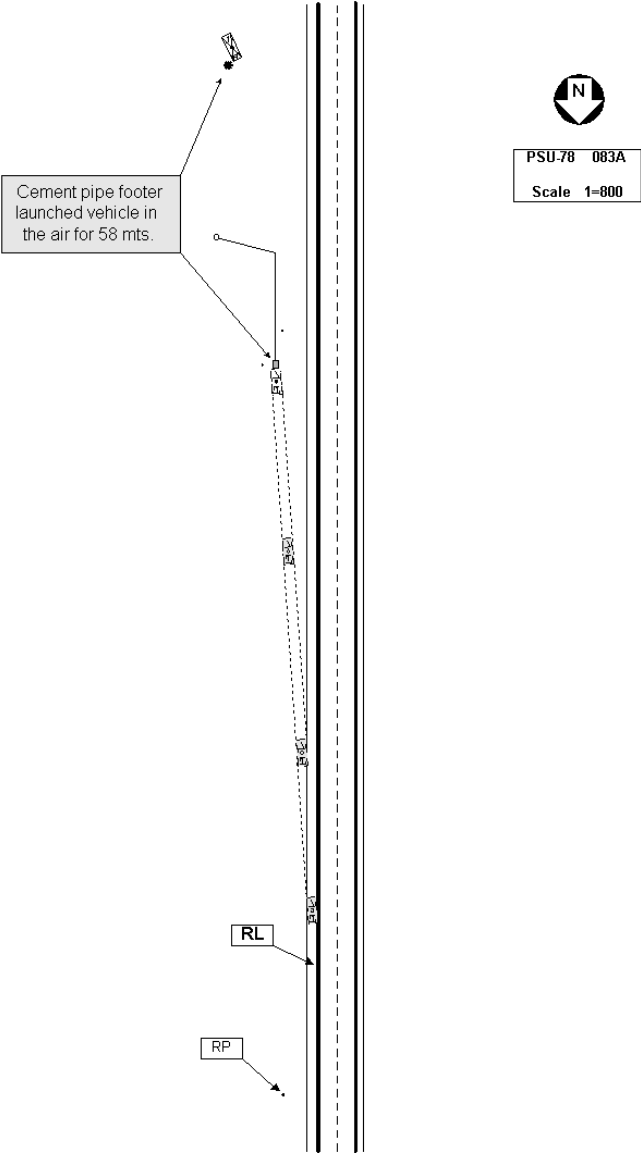
Occupant	1998-78-71-1-1
MAIS	4=Severe
Seat Position	Front left side

AIS Level	Injury Description	Contacts
3=Serious	Lethargic on admission, unconscious <1 hour & neuro deficit	Unknown SOURCE
1=Minor	Scalp laceration, minor	Unknown SOURCE
1=Minor	Scalp contusion	Unknown SOURCE
1=Minor	Facial skin abrasion	Unknown SOURCE
2=Moderate	Kidney contusion, minor (subcapsular, nonexpanding)	Unknown SOURCE
4=Severe	Lung contusion, bilateral	Unknown SOURCE

81 Case 1998-78-83

Summary:

V-1 was traveling south on a 2-lane, rural, dry, level bituminous state roadway whe V-1 drifted off the roadway on the left side, where V-1 struck a cement footer of an irrigation pipe and vaulted in the air for approximately 58 meters landed on its back, rolled on its top and came to rest facing northwest, were V-1 engulfed in flames and burned out. The driver eas pronounced dead at the scene, and the vehicle was towed.



Vehicle	Body type	Make	Model	Year	Occ.#	Age	Occupant's sex	Maximum known occupant ais
1	4-DR SEDAN/HDTOP	Chevrolet	Lumina	1995	1	18	MALE	6=Maximum

Occupant: 1998-78-83-1-1



Fire Information

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



Pre-Crash Environment

Traffic Flow	Not DIVIDED
Number of Travel Lanes	TWO
Roadway Alignment	STRAIGHT
Roadway Profile	LEVEL
Roadway Surface Type	ASPHALT
Roadway Surface Condition	DRY
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	END-OVER-END
Impact Speed	< 0.5KMPH
Total, Longitudal, and Lateral δV	< 0.5 KMPH < 0.5 KMPH < 0.5 KMPH
Est. δV with sequence number	>39 AND <55 KMPH 1
CDC	12 F Z W 9 0
Damage (C1-C6)	0 0 0 0 0 0
Crush (L and D)	0 0
Object Contacted 1	Oth FIXED OBJECT
Object Contacted 2	GROUND

NASS Weighting Factor

Weighting factor	86.273478067
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Rollover Characteristics

Number of Events	4
Rollover Initiation Type	END-OVER-END
Location of Rollover Initiation	END-OVER-END
Rollover Initiation Object Contacted	END-OVER-END
Location on Vehicle where Principal Tripping Force was Applied	END-OVER-END
Direction of Initial Roll	END-OVER-END

Vehicle Factors

Make-Model	Chevrolet Lumina
Year	1995
Class	PASSENGER CAR
Body Type	4-DR SEDAN/HDTOP
Weight	151

Pre-Crash Driver Data

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

DRIVER Factors

Age	18	Height	185	Weight	118
Gender			MALE		
Ejection			No EJECTION		
Ejection Area			No EJECTION		
Entrapment			Not ENTRAPPED		

Restraint Factors

Restrain	Lap and shoulder
AOPS	YES-RES DET
Airbag Deployment	BAG DEPLOY UNDET
Airbag Deployment - 1 st Seat	BAG DEP DET UNK
Airbag Deployment - Oth Seat	Not EQUIP W/ OTH

Injuries

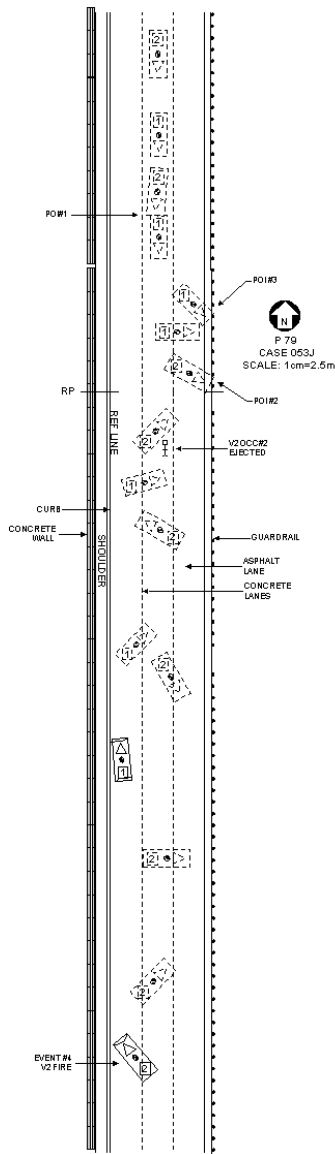
Occupant	1998-78-83-1-1
MAIS	6=Maximum
Seat Position	Front left side

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

82 Case 1998-79-53

Summary:

V1 was heading south in the #2 lane of a three lane, divided, dry, asphalt/concrete freeway with a slight uphill grade. V2 was also heading south in the #2 lane coming up behind V1, when the front of V2 contacted the back of V1. This impact pushed V1 counterclockwise in a easterly direction where the front of V1 contacted the center guardrail. V1 came to rest facing north blocking the #1 lane. V2 was also rotated counterclockwise after the first impact and also contacted the center guardrail with the front end. As V2 traveled to rest the right-front occupant was fully ejected. V2 was to rest facing north-west across the #1 2 lanes and caught fire. Both vehicles were towed. The driver of V1 was not transported with complaints of pain. The driver and passenger in V2 were transported and hospitalized with serious injuries.



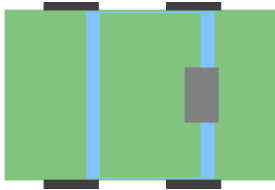
Vehicle	Body type	Make	Model	Year	Occ.#	Age	Occupant's sex	Maximum known occupant ais
1	4-DR SEDAN/HDTOP	Honda	Accord	1989	1	26	MALE	0=None
2	3DR/2DR HATCHBAK	Pontiac	Firebird/Trans AM	1995	1	37	MALE	2=Moderate
2	3DR/2DR HATCHBAK	Pontiac	Firebird/Trans AM	1995	2	32	MALE	1=Minor

Occupant: 1998-79-53-1-1



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	1.1068543407
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Rollover Characteristics

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

Pre-Crash Environment

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

Vehicle Factors

Make-Model	Honda Accord
Year	1989
Class	Unknown
Body Type	4-DR SEDAN/HDTOP
Weight	113

Pre-Crash Driver Data

Accident Type	25
Pre-event Movement	GOING STRAIGHT
Critical Pre-crash Event	Same DIR-HISPEED
Attempted Avoidance Maneuver	No DRIVER
Pre-impact Stability	TRACKING
Pre-impact Location	STAYED IN LANE

DRIVER Factors

Age	26	Height	170	Weight	65
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	1998-79-53-1-1
MAIS	0=None
Seat Position	Front left side

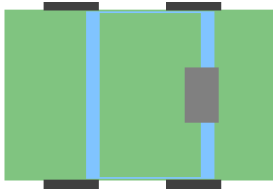
AIS Level	Injury Description	Contacts
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Occupant: 1998-79-53-2-1



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	1.1068543407
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Rollover Characteristics

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

Pre-Crash Environment

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

Vehicle Factors

Make-Model	Pontiac Firebird/Trans AM
Year	1995
Class	PASSENGER CAR
Body Type	3DR/2DR HATCHBAK
Weight	147

Pre-Crash Driver Data

Accident Type	24
Pre-event Movement	CHANGING LANES
Critical Pre-crash Event	Same DIR-LOSPEED
Attempted Avoidance Maneuver	No DRIVER
Pre-impact Stability	No DRIVER
Pre-impact Location	Left TRAVEL LANE

DRIVER Factors

Age	37	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	Not EQUIP/AVAIL
Airbag Deployment - 1 st Seat	Not EQUIP/AVAIL
Airbag Deployment - Oth Seat	Not EQUIP W/ OTH

Injuries

Occupant	1998-79-53-2-1
MAIS	2=Moderate
Seat Position	Front left side

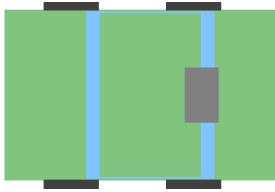
AIS Level	Injury Description	Contacts
2=Moderate	851605	Unknown SOURCE
2=Moderate	Foot fracture NFS	Unknown SOURCE

Occupant: 1998-79-53-2-2



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	1.1068543407
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Rollover Characteristics

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

Pre-Crash Environment

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

Vehicle Factors

Make-Model	Pontiac Firebird/Trans AM
Year	1995
Class	PASSENGER CAR
Body Type	3DR/2DR HATCHBAK
Weight	147

Pre-Crash Driver Data

Accident Type	24
Pre-event Movement	CHANGING LANES
Critical Pre-crash Event	Same DIR-LOSPEED
Attempted Avoidance Maneuver	No DRIVER
Pre-impact Stability	No DRIVER
Pre-impact Location	Left TRAVEL LANE

PASSENGER Factors

Age	32	Height	0	Weight	0
Gender			MALE		
Ejection			COMPLETE EJECT		
Ejection Area			No EJECTION		
Entrapment			Not ENTRAPPED		

Restraint Factors

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

Injuries

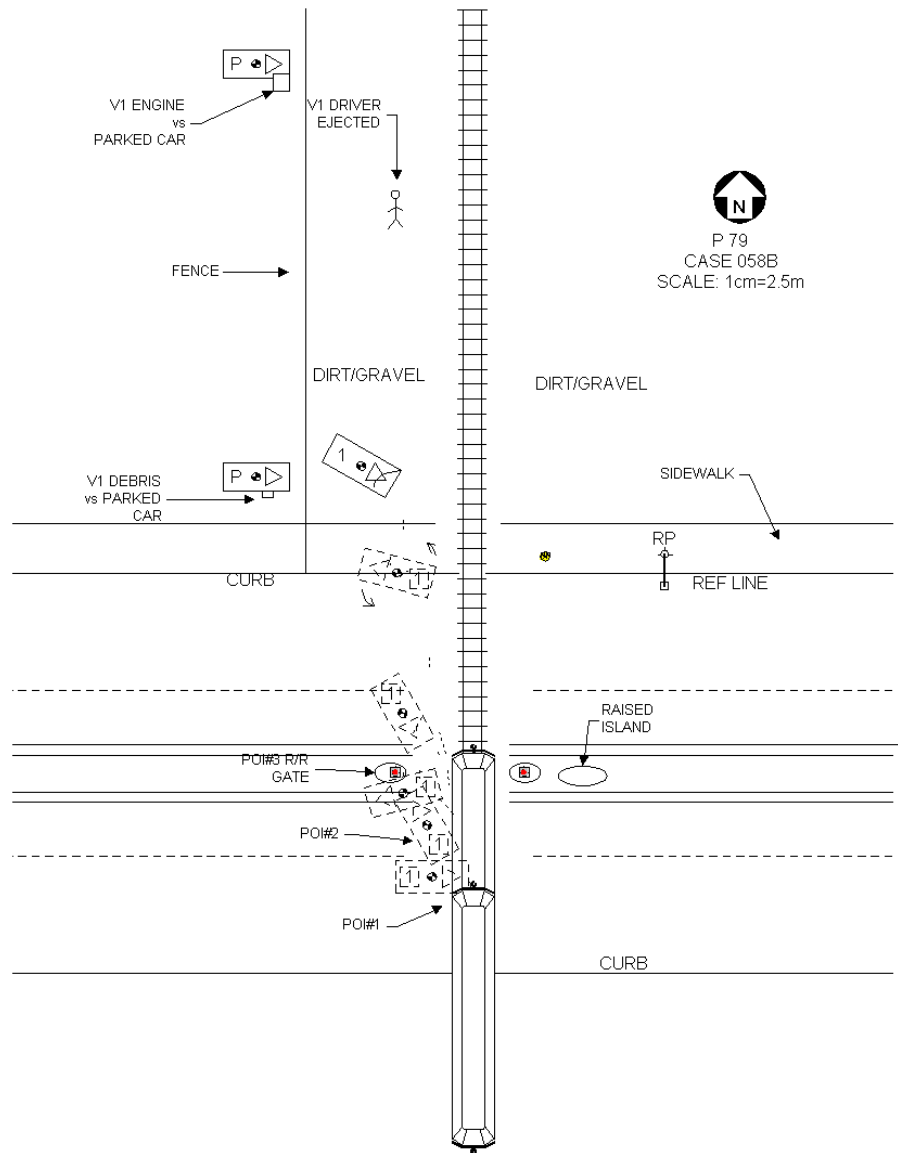
Occupant	1998-79-53-2-2
MAIS	1=Minor
Seat Position	Front right side

AIS Level	Injury Description	Contacts
1=Minor	Scalp contusion	Unknown SOURCE
1=Minor	Facial skin contusion	Unknown SOURCE
1=Minor	Upper extremity skin contusion	Unknown SOURCE
1=Minor	Leg skin contusion (hematoma)	Unknown SOURCE

83 Case 1998-79-58

Summary:

V1 was heading east in the #1 lane of a five lane, level, dry, asphalt, roadway, approaching a railroad crossing controlled by flashing red lights and crossing gates. As V1 came to the crossing the right side of V1 was contacted by a northbound train. V1 was quickly rotated counterclockwise and the right-rear was contacted by the train. V1 continued rotating and was directed in a north-west direction and contacted a railroad gate with the right side. V1 continued heading north and came to rest off the north curb facing south-east. The engine and some debris from V1 contacted two parked vehicles off the north curb. The driver of V1, who was fully ejected, received fatal injuries. V1 was towed.



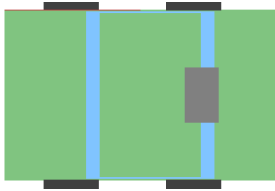
Vehicle	Body type	Make	Model	Year	Occ.#	Age	Occupant's sex	Maximum known occupant ais
1	MINIVAN	Dodge	Caravan	1986	1	63	MALE	6=Maximum

Occupant: 1998-79-58-1-1



Fire Information

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



Pre-Crash Environment

Traffic Flow	Not DIVIDED
Number of Travel Lanes	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	Other JUNCTION
Traffic Control Device	
Police Reported	Alcohol Not REPORTED
Presence	
Alcohol Test (< 95 indicates	0
BAC 0.xx)	

Vehicle Factors

Make-Model	Dodge Caravan
Year	1986
Class	TRUCK
Body Type	MINIVAN
Weight	125

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 F E W 0
Damage (C1-C6)	0 0 0 0 0 0
Crush (L and D)	0 0
Object Contacted 1	TRAIN
Object Contacted 2	TRAIN

Pre-Crash Driver Data

Accident Type	15
Pre-event Movement	GOING STRAIGHT
Critical Pre-crash Event	OBJECT APP ROAD
Attempted Avoidance Maneuver	BRAKE W/ LOCKUP
Pre-impact Stability	LONGITUDINAL SKID
Pre-impact Location	STAYED IN LANE

NASS Weighting Factor

Weighting factor	3.0150730179
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DRIVER Factors

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

Age	63	Height	173	Weight	82
Gender					MALE
Ejection					COMPLETE EJECT
Ejection Area					Right REAR
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

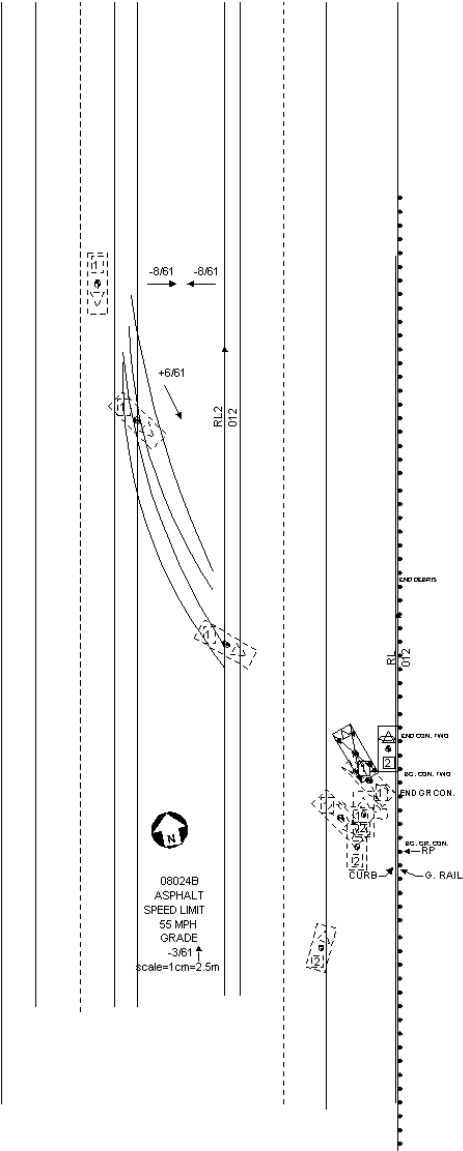
Occupant	1998-79-58-1-1
MAIS	6=Maximum
Seat Position	Front left side

AIS Level	Injury Description	Contacts
6=Maximum	Myocardial lacerations, multiple	Unk veh or obj
2=Moderate	Cervical fracture without cord injury +/- dislocation NFS	Unknown SOURCE
2=Moderate	Sternal fracture	Unk veh or obj
2=Moderate	2-3 rib fractures with stable chest	Unk veh or obj
2=Moderate	Tibial fracture NFS	Unknown SOURCE
2=Moderate	Tibial fracture NFS	Unknown SOURCE
2=Moderate	851605	Unknown SOURCE
2=Moderate	851605	Unknown SOURCE
2=Moderate	Thoracic skin laceration, major (>20cms long & into Sub-Q)	Unk veh or obj
1=Minor	Thoracic skin abrasion	Unknown SOURCE
1=Minor	Facial skin abrasion	Unknown SOURCE
1=Minor	Facial skin laceration, minor	Unknown SOURCE
1=Minor	Abdominal skin abrasion	Unknown SOURCE
1=Minor	Leg skin abrasion	Unknown SOURCE
2=Moderate	Leg skin laceration, major (>20cms & into Sub-Q)	Unknown SOURCE
3=Serious	Traumatic leg amputation below the knee (foot/calcaneus)	Unknown SOURCE
2=Moderate	Pelvic fracture NFS	Unknown SOURCE
1=Minor	Upper extremity skin abrasion	Unknown SOURCE
1=Minor	690202	Unknown SOURCE

84 Case 1998-8-24

Summary:

V1 was travelling south in the left of 2 southbound lanes on a four lane highway. This highway is divided by a grass median that is 8 meters wide. V2 was travelling north in the right of two northbound lanes. V1 departed the left edge of the southbound lanes and crossed the median rotating counterclockwise. V1 travelled up a grade at the east median edge and became airborne. V1 crossed the northbound lanes. V2 entered the right northbound shoulder. The undercarriage of V1 contacted the top front of V2. V1 rolled laterally to the right. The right of V1 contacted the left rear of V2. V1 landed on the shoulder with the top of the vehicle in contact with the ground. The left rear corner of V1 contacted a guardrail. V1 came to rest in the shoulder heading northwest on it's roof. a guardrailV2 was forced to the right and the right of V2 contacted a guardrail. V2 came to rest heading north in contact with the guardrail. The engine compartment of V1 experienced a fire.



Vehicle #	Body type	Make	Model	Year	Occ.#	Age	Occupant's sex	Maximum known occupant ais
1	COMPACT PICKUP	Dodge	Dakota	1997	1	47	MALE	2=Moderate
2	2DR SEDAN/HT/CPE	Chevrolet	Cavalier	1987	1	56	MALE	4=Severe
2	2DR SEDAN/HT/CPE	Chevrolet	Cavalier	1987	2	43	FEMALE-NOT PREG	4=Severe

Occupant: 1998-8-24-1-1



Fire Information

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



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 1
CDC	0 U F D W 2
Damage (C1-C6)	0 0 0 0 0
Crush (L and D)	0 0
Object Contacted 1	VEHICLE NO. 2
Object Contacted 2	ROLLOVER-OVERTURN

NASS Weighting Factor

Weighting factor	22.6253071
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Rollover Characteristics

Number of Events	6
Rollover Initiation Type	Oth ROLOVER TYPE
Location of Rollover Initiation	ON SHLDER-UNPAVE
Rollover Initiation Object Contacted	Other EVENT
Location on Vehicle where Principal Tripping Force was Applied	UNDERCARRIAGE
Direction of Initial Roll	ROLL LEFT

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	ICE
Light Conditions	DARK
Atmospheric Conditions	SNOW
Relation to Intersection	NONINTER/NONJUNC
Traffic Control Device	
Police Reported Alcohol Presence	No ALCOHOL
Alcohol Test (< 95 indicates BAC 0.xx)	0

Vehicle Factors

Make-Model	Dodge Dakota
Year	1997
Class	TRUCK
Body Type	COMPACT PICKUP
Weight	187

Pre-Crash Driver Data

Accident Type	98
Pre-event Movement	GOING STRAIGHT
Critical Pre-crash Event	OVER LINE-LEFT
Attempted Avoidance Manuever	No AVOIDANCE
Pre-impact Stability	LATERAL SKID-CLK
Pre-impact Location	DEPARTED ROADWAY

DRIVER Factors

Age	47	Height	168	Weight	73
Gender			MALE		
Ejection			No EJECTION		
Ejection Area			No EJECTION		
Entrapment			Not ENTRAPPED		

Restraint Factors

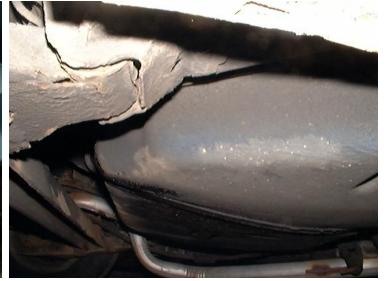
Restrain	Lap and shoulder
AOPS	YES-RES DET
Airbag Deployment	BAG DEPLOYED
Airbag Deployment - 1 st Seat	DR
PAS BAG DEPLY	
Airbag Deployment - Oth Seat	Not EQUIP W/ OTH

Injuries

Occupant	1998-8-24-1-1
MAIS	2=Moderate
Seat Position	Front left side

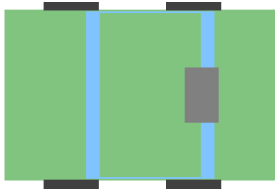
AIS Level	Injury Description	Contacts
2=Moderate	Thoracic vertebral body fracture, minor (<20	

Occupant: 1998-8-24-2-1



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	TWO
Roadway Alignment	STRAIGHT
Roadway Profile	DOWNHILL GRADE
Roadway Surface Type	ASPHALT
Roadway Surface Condition	ICE
Light Conditions	DARK
Atmospheric Conditions	SNOW
Relation to Intersection	NONINTER/NONJUNC
Traffic Control Device	
Police Reported	Alcohol Not REPORTED
Presence	
Alcohol Test (< 95 indicates	0
BAC 0.xx)	

Vehicle Factors

Make-Model	Chevrolet Cavalier
Year	1987
Class	PASSENGER CAR
Body Type	2DR SEDAN/HT/CPE
Weight	104

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	0 T Y D W 4
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

Pre-Crash Driver Data

Accident Type	98
Pre-event Movement	GOING STRAIGHT
Critical Pre-crash Event	OPP DIR-OVR LEFT
Attempted Avoidance Manuever	Other ACTION
Pre-impact Stability	TRACKING
Pre-impact Location	DEPARTED ROADWAY

NASS Weighting Factor

Weighting factor	22.6253071
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DRIVER Factors

Age	56	Height	183	Weight	86
Gender			MALE		
Ejection			No EJECTION		
Ejection Area			No EJECTION		
Entrapment			Not ENTRAPPED		

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

Restraint Factors

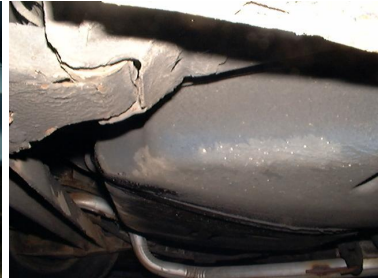
Restrain	Lap and shoulder
AOPS	NO
Airbag Deployment	Not EQUIP/AVAIL
Airbag Deployment - 1 st Seat	Not EQUIP/AVAIL
Airbag Deployment - Oth Seat	Not EQUIP W/ OTH

Injuries

Occupant	1998-8-24-2-1
MAIS	4=Severe
Seat Position	Front left side

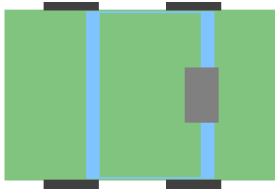
AIS Level	Injury Description	Contacts
1=Minor	Teeth fracture	Steering rim
1=Minor	Facial skin abrasion	Steering rim
1=Minor	Facial skin contusion	Steering rim
1=Minor	Facial skin laceration, minor	Steering rim
1=Minor	Facial skin laceration, minor	Steering rim
1=Minor	Thoracic skin contusion	Belt webb/buckle
3=Serious	Radial fracture, open/displaced/comminuted	Left interior
3=Serious	Ulnar fracture, open/displaced/comminuted	Left interior
1=Minor	Upper extremity skin laceration, minor	Left interior
1=Minor	Upper extremity skin abrasion	Left interior
1=Minor	Upper extremity skin contusion	Left interior
2=Moderate	Carpus or metacarpus fracture	Left apnel
2=Moderate	Carpus or metacarpus fracture	Left apnel
2=Moderate	Carpus or metacarpus fracture	Left apnel
2=Moderate	Carpus or metacarpus fracture	Left apnel
2=Moderate	Carpus or metacarpus fracture	Left apnel
2=Moderate	Carpus or metacarpus fracture	Left apnel
1=Minor	Arm skin avulsion, superficial (<25cms ² hand or <100cms ² arm)	Left apnel
4=Severe	Thoracic aortic injury NFS	Sterring hub
4=Severe	Abdominal aorta laceration, minor (incomplete, EBL<204=Severe	Lung contusion, bilateral
Steering rim 2=Moderate	Hepatic laceration, minor (<3cms deep, EBL<202=Moderate	Splenic laceration, minor (tear<3cms deep, no major vessel)
Steering comb 2=Moderate	Pelvic fracture, closed	Belt webb/buckle
1=Minor	Scalp contusion	Roof
3=Serious	Cerebral subarachnoid hemorrhage	Roof
2=Moderate	Pancreatic contusion NFS	Belt webb/buckle
1=Minor	Adrenal gland contusion NFS	Belt webb/buckle
1=Minor	Adrenal gland contusion NFS	Belt webb/buckle
2=Moderate	Bladder contusion	Belt webb/buckle

Occupant: 1998-8-24-2-2



Fire Information

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



Pre-Crash Environment

Traffic Flow	DVDED/NO BARRIER
Number of Travel Lanes	TWO
Roadway Alignment	STRAIGHT
Roadway Profile	DOWNHILL GRADE
Roadway Surface Type	ASPHALT
Roadway Surface Condition	ICE
Light Conditions	DARK
Atmospheric Conditions	SNOW
Relation to Intersection	NONINTER/NONJUNC
Traffic Control Device	
Police Reported	Alcohol Not REPORTED
Presence	
Alcohol Test (< 95 indicates BAC 0.xx)	0

Vehicle Factors

Make-Model	Chevrolet Cavalier
Year	1987
Class	PASSENGER CAR
Body Type	2DR SEDAN/HT/CPE
Weight	104

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	0 T Y D W 4
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

Pre-Crash Driver Data

Accident Type	98
Pre-event Movement	GOING STRAIGHT
Critical Pre-crash Event	OPP DIR-OVR LEFT
Attempted Avoidance Manuever	Other ACTION
Pre-impact Stability	TRACKING
Pre-impact Location	DEPARTED ROADWAY

NASS Weighting Factor

Weighting factor	22.6253071
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PASSENGER Factors

Age	43	Height	165	Weight	54
Gender					FEMALE-NOT PREG
Ejection					No EJECTION
Ejection Area					No EJECTION
Entrapment					Not ENTRAPPED

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

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	1998-8-24-2-2
MAIS	4=Severe
Seat Position	Front right side

AIS Level	Injury Description	Contacts
1=Minor	Facial skin abrasion	Roof
1=Minor	Neck skin abrasion	Belt webb/buckle
1=Minor	Facial skin laceration, minor	Roof
1=Minor	Facial skin laceration, minor	Flying glass
1=Minor	Mandible body fracture, closed, +/- ramus involvement	Right panel
1=Minor	Thoracic skin contusion	Belt webb/buckle
1=Minor	Abdominal skin contusion	Belt webb/buckle
1=Minor	Upper extremity skin abrasion	Right panel
2=Moderate	Humeral fracture, closed	Right panel
1=Minor	Upper extremity skin abrasion	Flying glass
1=Minor	Upper extremity skin contusion	Unknown SOURCE
1=Minor	Upper extremity skin abrasion	Flying glass
1=Minor	Leg skin contusion (hematoma)	Right panel
1=Minor	Leg skin abrasion	Floor
1=Minor	Leg skin contusion (hematoma)	Floor
1=Minor	Leg skin abrasion	Right panel
1=Minor	Leg skin abrasion	Right panel
1=Minor	Leg skin contusion (hematoma)	Right panel
1=Minor	Leg skin abrasion	Right panel
3=Serious	>3 rib fractures one side & <3 other side, with stable chest	Right panel
3=Serious	Diaphragm laceration or rupture	Belt webb/buckle
3=Serious	Lung laceration, unilateral NFS	Right panel
4=Severe	Lung contusion, bilateral	Right panel
2=Moderate	Hepatic laceration, minor (<3cms deep, EBL<202=Moderate	Splenic laceration NFS
Right panel		
1=Minor	Scalp contusion	Roof
4=Severe	Basilar skull fracture, open, with brain tissue loss.	Roof
3=Serious	Cerebral subarachnoid hemorrhage	Roof
2=Moderate	Pleural laceration	Right panel

Summary:

Vehicle	Body type	Make	Model	Year	Occ.#	Age	Occupant's sex	Maximum known occupant ais
1	2DR SEDAN/HT/CPE	Ford	Thunderbird	1985	1	33	MALE	5=Critical
1	2DR SEDAN/HT/CPE	Ford	Thunderbird	1985	2	29	MALE	1=Minor
1	2DR SEDAN/HT/CPE	Ford	Thunderbird	1985	3	26	MALE	1=Minor
1	2DR SEDAN/HT/CPE	Ford	Thunderbird	1985	4	23	MALE	3=Serious

Occupant: 1998-81-34-1-1



Fire Information

Fire Occurrence	No fire
Fire Origin	No fire
Location of Fuel Leakage	Other
Type of Fuel Tank	Metallic
Fuel Tank Location	Behind rear axle, centered
Fuel Cap Location	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	CURVE LEFT
Roadway Profile	LEVEL
Roadway Surface Type	ASPHALT
Roadway Surface Condition	DRY
Light Conditions	DARK/LIGHTED
Atmospheric Conditions	No ADVERSE COND
Relation to Intersection	NONINTER/NONJUNC
Traffic Control Device	
Police Reported Alcohol Presence	ALCOHOL PRESENT
Alcohol Test (< 95 indicates BAC 0.xx)	19

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	83 R B E W 4
Damage (C1-C6)	45 59 48 23 14 6
Crush (L and D)	154 -210
Object Contacted 1	Other BARRIER
Object Contacted 2	Other BARRIER

NASS Weighting Factor

Weighting factor	14.162543959
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Rollover Characteristics

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

Vehicle Factors

Make-Model	Ford Thunderbird
Year	1985
Class	PASSENGER CAR
Body Type	2DR SEDAN/HT/CPE
Weight	139

Pre-Crash Driver Data

Accident Type	2
Pre-event Movement	NEGOTIATE CURVE
Critical Pre-crash Event	OFF EDGE-RIGHT
Attempted Avoidance Manuever	BRAKE W/ LOCKUP
Pre-impact Stability	LAT SKID-CTR CLK
Pre-impact Location	DEPARTED ROADWAY

DRIVER Factors

Age	33	Height	183	Weight	82
Gender			MALE		
Ejection			No EJECTION		
Ejection Area			No EJECTION		
Entrapment			Not ENTRAPPED		

Restraint Factors

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

Injuries

Occupant	1998-81-34-1-1
MAIS	5=Critical
Seat Position	Front left side

AIS Level	Injury Description	Contacts
5=Critical	Unconscious on admission, moves only to pain & neuro deficit	Head restraint
4=Severe	Cerebral contusions, multiple, unilateral, large (30-50ccs)	Head restraint
2=Moderate	Zygoma fracture	Head restraint

Occupant: 1998-81-34-1-2



Fire Information

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



Crash Severity

Nr. Quarter Turns	No rollover
Impact Speed	< 0.5KMPH
Total, Longitudal, and Lateral δV	< 0.5 KMPH < 0.5 KMPH < 0.5 KMPH
Est. δV with sequence number	SEVERE 4
CDC	83 R B E W 4
Damage (C1-C6)	45 59 48 23 14 6
Crush (L and D)	154 -210
Object Contacted 1	Other BARRIER
Object Contacted 2	Other BARRIER

NASS Weighting Factor

Weighting factor	14.162543959
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Rollover Characteristics

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

Pre-Crash Environment

Traffic Flow	Not DIVIDED
Number of Travel Lanes	TWO
Roadway Alignment	CURVE LEFT
Roadway Profile	LEVEL
Roadway Surface Type	ASPHALT
Roadway Surface Condition	DRY
Light Conditions	DARK/LIGHTED
Atmospheric Conditions	No ADVERSE COND
Relation to Intersection	NONINTER/NONJUNC
Traffic Control Device	
Police Reported Alcohol Presence	ALCOHOL PRESENT
Alcohol Test (< 95 indicates BAC 0.xx)	19

Vehicle Factors

Make-Model	Ford Thunderbird
Year	1985
Class	PASSENGER CAR
Body Type	2DR SEDAN/HT/CPE
Weight	139

Pre-Crash Driver Data

Accident Type	2
Pre-event Movement	NEGOTIATE CURVE
Critical Pre-crash Event	OFF EDGE-RIGHT
Attempted Avoidance Manuever	BRAKE W/ LOCKUP
Pre-impact Stability	LAT SKID-CTR CLK
Pre-impact Location	DEPARTED ROADWAY

PASSENGER Factors

Age	29	Height	180	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	1998-81-34-1-2
MAIS	1=Minor
Seat Position	Front right side

AIS Level	Injury Description	Contacts
1=Minor	Upper extremity skin laceration, minor	Windshield
1=Minor	Facial skin laceration, minor	Flying glass

Occupant: 1998-81-34-1-3



Fire Information

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



Crash Severity

Nr. Quarter Turns	No rollover
Impact Speed	< 0.5KMPH
Total, Longitudal, and Lateral δV	< 0.5 KMPH < 0.5 KMPH < 0.5 KMPH
Est. δV with sequence number	SEVERE 4
CDC	83 R B E W 4
Damage (C1-C6)	45 59 48 23 14 6
Crush (L and D)	154 -210
Object Contacted 1	Other BARRIER
Object Contacted 2	Other BARRIER

NASS Weighting Factor

Weighting factor	14.162543959
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Rollover Characteristics

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

Pre-Crash Environment

Traffic Flow	Not DIVIDED
Number of Travel Lanes	TWO
Roadway Alignment	CURVE LEFT
Roadway Profile	LEVEL
Roadway Surface Type	ASPHALT
Roadway Surface Condition	DRY
Light Conditions	DARK/LIGHTED
Atmospheric Conditions	No ADVERSE COND
Relation to Intersection	NONINTER/NONJUNC
Traffic Control Device	
Police Reported Alcohol Presence	ALCOHOL PRESENT
Alcohol Test (< 95 indicates BAC 0.xx)	19

Vehicle Factors

Make-Model	Ford Thunderbird
Year	1985
Class	PASSENGER CAR
Body Type	2DR SEDAN/HT/CPE
Weight	139

Pre-Crash Driver Data

Accident Type	2
Pre-event Movement	NEGOTIATE CURVE
Critical Pre-crash Event	OFF EDGE-RIGHT
Attempted Avoidance Manuever	BRAKE W/ LOCKUP
Pre-impact Stability	LAT SKID-CTR CLK
Pre-impact Location	DEPARTED ROADWAY

PASSENGER Factors

Age	26	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	1998-81-34-1-3
MAIS	1=Minor
Seat Position	Second left

AIS Level	Injury Description	Contacts
1=Minor	Scalp contusion	Seat, back
1=Minor	Thoracic skin contusion	Seat, back

Occupant: 1998-81-34-1-4



Fire Information

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



Crash Severity

Nr. Quarter Turns	No rollover
Impact Speed	< 0.5KMPH
Total, Longitudal, and Lateral δV	< 0.5 KMPH < 0.5 KMPH < 0.5 KMPH
Est. δV with sequence number	SEVERE 4
CDC	83 R B E W 4
Damage (C1-C6)	45 59 48 23 14 6
Crush (L and D)	154 -210
Object Contacted 1	Other BARRIER
Object Contacted 2	Other BARRIER

NASS Weighting Factor

Weighting factor	14.162543959
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Rollover Characteristics

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

Pre-Crash Environment

Traffic Flow	Not DIVIDED
Number of Travel Lanes	TWO
Roadway Alignment	CURVE LEFT
Roadway Profile	LEVEL
Roadway Surface Type	ASPHALT
Roadway Surface Condition	DRY
Light Conditions	DARK/LIGHTED
Atmospheric Conditions	No ADVERSE COND
Relation to Intersection	NONINTER/NONJUNC
Traffic Control Device	
Police Reported Alcohol Presence	ALCOHOL PRESENT
Alcohol Test (< 95 indicates BAC 0.xx)	19

Vehicle Factors

Make-Model	Ford Thunderbird
Year	1985
Class	PASSENGER CAR
Body Type	2DR SEDAN/HT/CPE
Weight	139

Pre-Crash Driver Data

Accident Type	2
Pre-event Movement	NEGOTIATE CURVE
Critical Pre-crash Event	OFF EDGE-RIGHT
Attempted Avoidance Manuever	BRAKE W/ LOCKUP
Pre-impact Stability	LAT SKID-CTR CLK
Pre-impact Location	DEPARTED ROADWAY

PASSENGER Factors

Age	23	Height	178	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

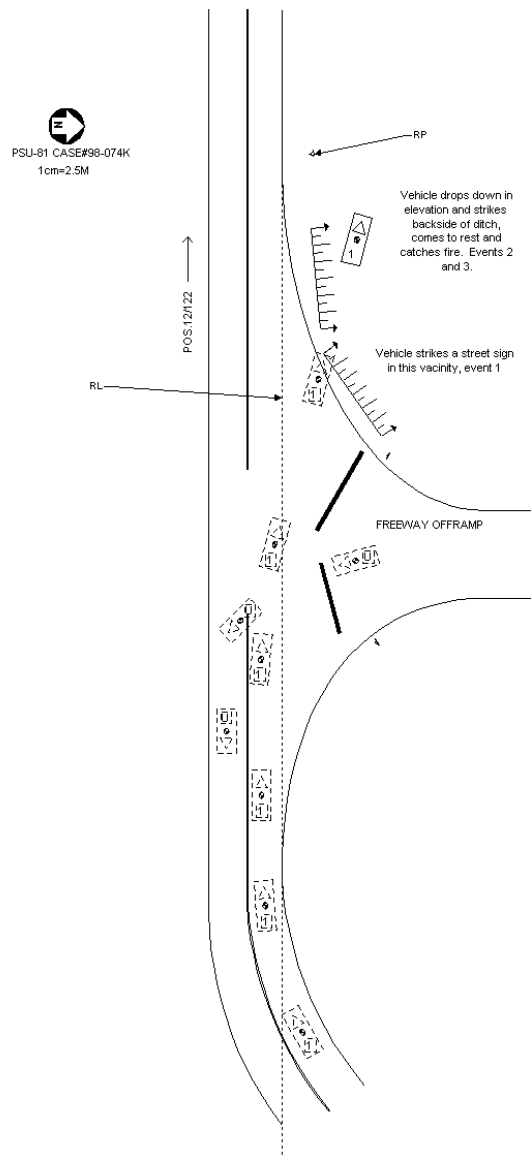
Occupant	1998-81-34-1-4
MAIS	3=Serious
Seat Position	Second right

AIS Level	Injury Description	Contacts
3=Serious	Unconscious on admission, length <1 hour	Seat, back
3=Serious	Orbit fracture, open/displaced/comminuted	Seat, back
1=Minor	Mandible fracture NFS	Seat, back
1=Minor	Facial skin contusion	Seat, back
1=Minor	297402	Seat, back

86 Case 1998-81-74

Summary:

VEH.1 WAS HEADED W/B ON A TWO-LANE, TWO-WAY, BITUMINOUS ROAD WITH AN UPHILL GRADE. AN UNKNOWN VEH. PULLED OUT AND MADE A LEFT TURN ACROSS VEH.1 PATH OF TRAVEL. VEH.1 SWERVED RIGHT TO AVOID A COLLISION AND DEPARTED THE RIGHT SIDE OF THE ROAD GOING DOWN AN EMBANKMENT INTO HEAVY BRUSH. APPARENTLY AFTER THE VEHICLE CAME TO REST, A FIRE STARTED IN THE ENGINE COMPARTMENT AND THE VEHICLE WAS HEAVILY DAMAGED. THE DRIVER WAS TREATED AND RELEASED FOR INJURIES. ONE OF THE PASSENGERS WAS ADMITTED TO A HOSPITAL FOR SERIOUS INJURIES. THE OTHER OCCUPANT WAS REPORTED AS BEING UNINJURED.



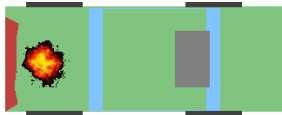
Vehicle	Body type	Make	Model	Year	Occ.#	Age	Occupant's sex	Maximum known occupant ais
1	4-DR SEDAN/HDTOP	Honda	Accord	1986	1	30	MALE	1=Minor
1	4-DR SEDAN/HDTOP	Honda	Accord	1986	2	9	MALE	1=Minor
1	4-DR SEDAN/HDTOP	Honda	Accord	1986	3	7	MALE	1=Minor

Occupant: 1998-81-74-1-1



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	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	0
BAC 0.xx)	

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	12 F D E W 1
Damage (C1-C6)	20 15 18 19 18 22
Crush (L and D)	155 0
Object Contacted 1	EMBANKMENT
Object Contacted 2	SMALL POLE

NASS Weighting Factor

Weighting factor	55.228213974
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Rollover Characteristics

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

Vehicle Factors

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

Pre-Crash Driver Data

Accident Type	3
Pre-event Movement	NEGOTIATE CURVE
Critical Pre-crash Event	XING ST-OPP DIR
Attempted Avoidance Manuever	STEERING RIGHT
Pre-impact Stability	TRACKING
Pre-impact Location	DEPARTED ROADWAY

DRIVER Factors

Age	30	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	1998-81-74-1-1
MAIS	1=Minor
Seat Position	Front left side

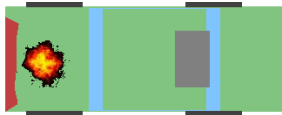
AIS Level	Injury Description	Contacts
1=Minor	Thoracic spine strain, acute without fracture or dislocation	Other noncontact
1=Minor	Acute cervical spine strain without fracture or dislocation	Other noncontact

Occupant: 1998-81-74-1-2



Fire Information

Fire Occurrence	Major fire
Fire Origin	Engine compartment
Location of Fuel Leakage	No fuel leakage
Type of Fuel Tank	Metallic
Fuel Tank Location	Forward of rear axle, 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	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	27 -27 < 0.5 KMPH
Est. δV with sequence number	DELTA V CODED 2
CDC	12 F D E W 1
Damage (C1-C6)	20 15 18 19 18 22
Crush (L and D)	155 0
Object Contacted 1	EMBANKMENT
Object Contacted 2	SMALL POLE

NASS Weighting Factor

Weighting factor	55.228213974
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Rollover Characteristics

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

Vehicle Factors

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

Pre-Crash Driver Data

Accident Type	3
Pre-event Movement	NEGOTIATE CURVE
Critical Pre-crash Event	XING ST-OPP DIR
Attempted Avoidance Manuever	STEERING RIGHT
Pre-impact Stability	TRACKING
Pre-impact Location	DEPARTED ROADWAY

PASSENGER Factors

Age	9	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	1998-81-74-1-2
MAIS	1=Minor
Seat Position	Front right side

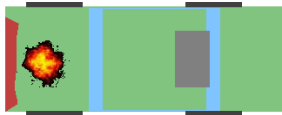
AIS Level	Injury Description	Contacts
1=Minor	Thoracic skin abrasion	Belt webb/buckle
1=Minor	Thoracic skin contusion	Belt webb/buckle
1=Minor	Abdominal skin contusion	Belt webb/buckle
1=Minor	Abdominal skin abrasion	Belt webb/buckle

Occupant: 1998-81-74-1-3



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	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	27 -27 < 0.5 KMPH
Est. δV with sequence number	DELTA V CODED 2
CDC	12 F D E W 1
Damage (C1-C6)	20 15 18 19 18 22
Crush (L and D)	155 0
Object Contacted 1	EMBANKMENT
Object Contacted 2	SMALL POLE

NASS Weighting Factor

Weighting factor	55.228213974
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Rollover Characteristics

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

Vehicle Factors

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

Pre-Crash Driver Data

Accident Type	3
Pre-event Movement	NEGOTIATE CURVE
Critical Pre-crash Event	XING ST-OPP DIR
Attempted Avoidance Manuever	STEERING RIGHT
Pre-impact Stability	TRACKING
Pre-impact Location	DEPARTED ROADWAY

PASSENGER Factors

Age	7	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

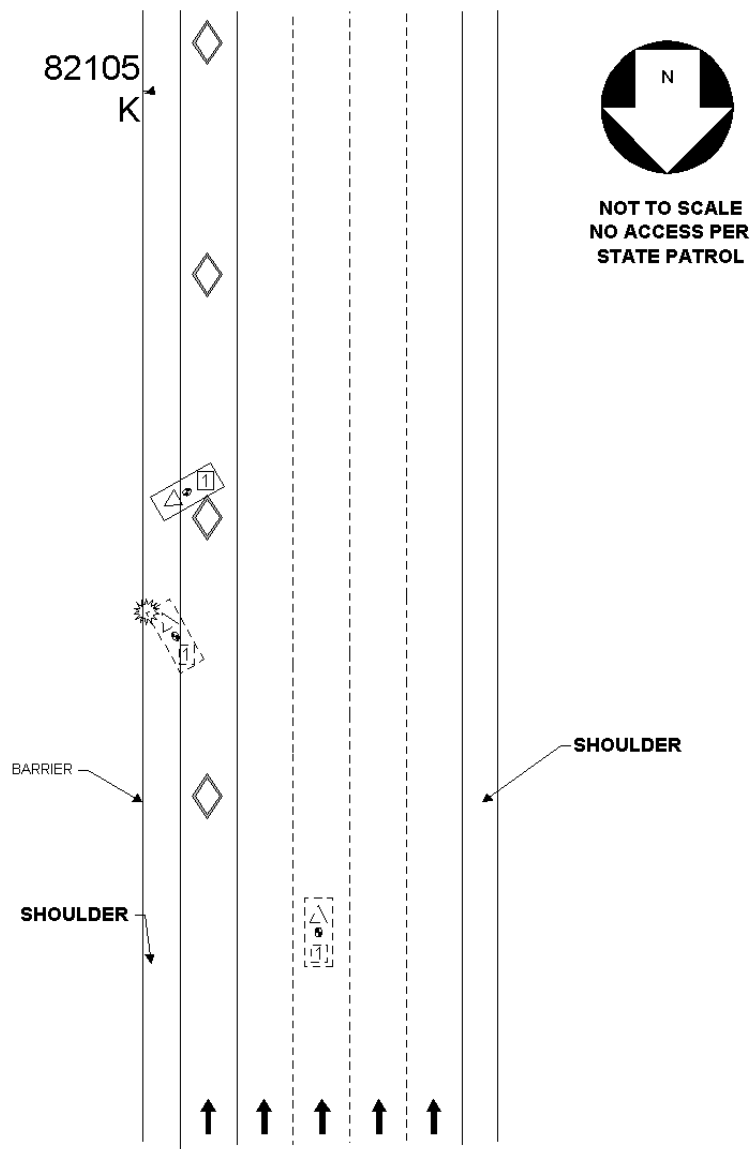
Injuries

Occupant	1998-81-74-1-3
MAIS	1=Minor
Seat Position	Second right

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

87 Case 1998-82-105

Summary:
VEHICLE 1 WAS SOUTH IN LANE 3 OF A 5 LANE, 1 WAY ROADWAY. VEHICLE 1 RAN OFF THE ROAD TO THE LEFT. THE FRONT OF VEHICLE 1 IMPACTED A GUARDRAIL. VEHICLE 1 CAUGHT FIRE AFTER IMPACT. 1 OCCUPANT WAS TRANSPORTED DUE TO INJURIES. 1 VEHICLE WAS TOWED DISABLED.



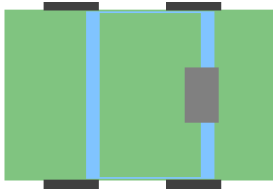
Vehicle	Body type	Make	Model	Year	Occ.#	Age	Occupant's sex	Maximum known occupant ais
1	4-DR SEDAN/HDTOP	Honda	Civic/CRX	1991	1	21	FEMALE-NOT PREG	2=Moderate

Occupant: 1998-82-105-1-1



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	5.877297416
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Rollover Characteristics

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

Pre-Crash Environment

Traffic Flow	DVDED/W/BARRIER
Number of Travel Lanes	FIVE
Roadway Alignment	STRAIGHT
Roadway Profile	DOWNHILL GRADE
Roadway Surface Type	CONCRETE
Roadway Surface Condition	WET
Light Conditions	DARK
Atmospheric Conditions	RAIN
Relation to Intersection	NONINTER/NONJUNC
Traffic Control Device	
Police Reported Alcohol Presence	Not REPORTED
Alcohol Test (< 95 indicates BAC 0.xx)	20

Vehicle Factors

Make-Model	Honda Civic/CRX
Year	1991
Class	PASSENGER CAR
Body Type	4-DR SEDAN/HDTOP
Weight	102

Pre-Crash Driver Data

Accident Type	7
Pre-event Movement	GOING STRAIGHT
Critical Pre-crash Event	TRAVEL TOO FAST
Attempted Avoidance Maneuver	No DRIVER
Pre-impact Stability	LATERAL SKID-CLK
Pre-impact Location	DEPARTED ROADWAY

DRIVER Factors

Age	21	Height	163	Weight	54
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

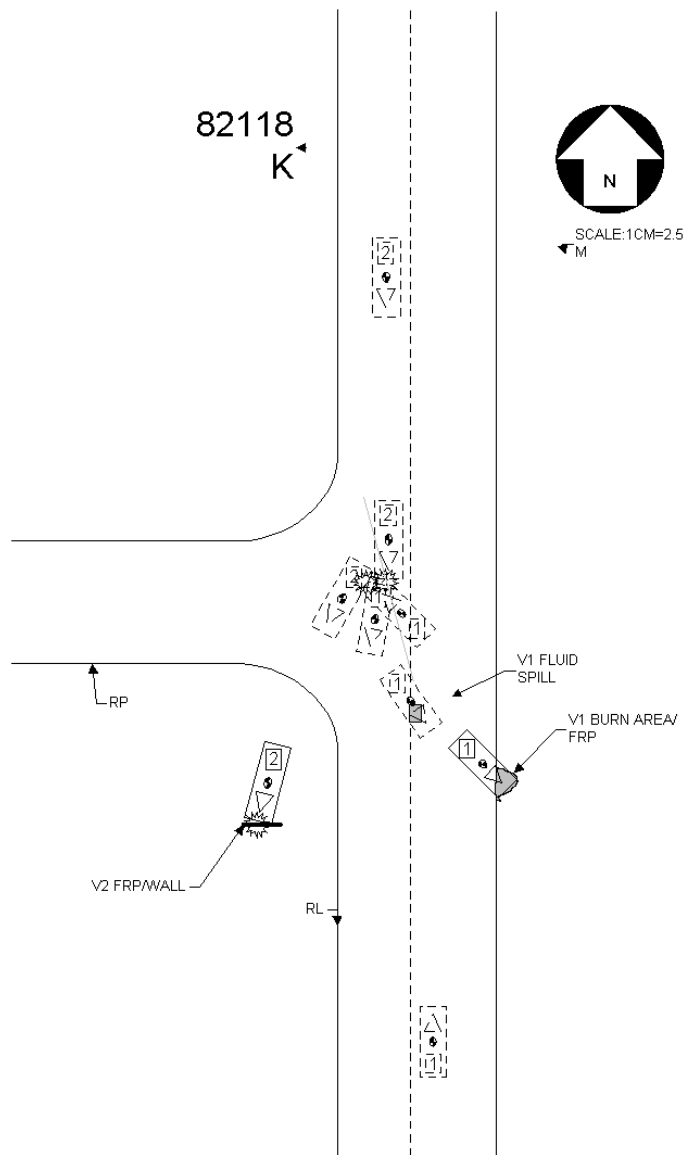
Occupant	1998-82-105-1-1
MAIS	2=Moderate
Seat Position	Front left side

AIS Level	Injury Description	Contacts
2=Moderate	Awake on admission, unconscious <1 hour	Unknown SOURCE
1=Minor	Neck skin abrasion	Unknown SOURCE
1=Minor	Neck skin contusion (hematoma)	Unknown SOURCE
1=Minor	Acute cervical spine strain without fracture or dislocation	Unknown SOURCE

88 Case 1998-82-118

Summary:

VEHICLE 1 WAS EAST IN LANE 1 OF A 2 LANE, 2 WAY ROADWAY. VEHICLE 2 WAS WEST IN LANE 1 OF A 2 LANE, 2 WAY ROADWAY. VEHICLE 2 WAS PASSING THROUGH THE INTERSECTION. VEHICLE 1 WAS TURNING LEFT AT THE INTERSECTION. THE FRONT OF VEHICLE 1 IMPACTED THE FRONT OF VEHICLE 2. VEHICLE 1 CAME TO REST ON THE SOUTH CURB AND THE ENGINE AND PASSENGER COMPARTMENTS WERE DESTROYED BY FIRE. VEHICLE 2 CAME TO REST AFTER IMPACTING A WALL ON THE NW CORNER. 1 OCCUPANT WAS TRANSPORTED DUE TO INJURIES. 2 VEHICLES WERE TOWED DISABLED.



Vehicle	Body type	Make	Model	Year	Occ.#	Age	Occupant's sex	Maximum known occupant ais
1	COMPACT PICKUP	Toyota	Pickup	1982	1	38	MALE	3=Serious
2	4-DR SEDAN/HDTOP	Volvo	240/242/244/245	1991	1	20	MALE	1=Minor

Occupant: 1998-82-118-1-1



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, 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	UPHILL GRADE
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	< 0.5KMPH
Total, Longitudal, and Lateral δV	< 0.5 KMPH < 0.5 KMPH <
Est. δV with sequence number	0.5 KMPH
CDC	MINOR 1
Damage (C1-C6)	1 F R E E 5
Crush (L and D)	0 11 15 17 14 8
Object Contacted 1	106 179
Object Contacted 2	VEHICLE NO. 2
	VEHICLE NO. 2

NASS Weighting Factor

Weighting factor	2.9096352511
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Rollover Characteristics

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

Vehicle Factors

Make-Model	Toyota Pickup
Year	1982
Class	TRUCK
Body Type	COMPACT PICKUP
Weight	114

Pre-Crash Driver Data

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

DRIVER Factors

Age	38	Height	188	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	1998-82-118-1-1
MAIS	3=Serious
Seat Position	Front left side

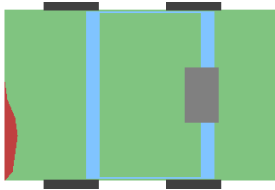
AIS Level	Injury Description	Contacts
2=Moderate	Awake on admission, unconscious <1 hour	Unknown SOURCE
3=Serious	Cerebral contusions, multiple, bilateral, small	Unknown SOURCE
1=Minor	Facial skin laceration, minor	Unknown SOURCE
1=Minor	Upper extremity skin contusion	Unknown SOURCE
1=Minor	Leg skin contusion (hematoma)	Unknown SOURCE

Occupant: 1998-82-118-2-1



Fire Information

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



Pre-Crash Environment

Traffic Flow	Not DIVIDED
Number of Travel Lanes	TWO
Roadway Alignment	STRAIGHT
Roadway Profile	DOWNHILL GRADE
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	< 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 1
Damage (C1-C6)	12 16 19 15 4 0
Crush (L and D)	158 0
Object Contacted 1	VEHICLE NO. 1
Object Contacted 2	WALL

NASS Weighting Factor

Weighting factor	2.9096352511
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Rollover Characteristics

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

Vehicle Factors

Make-Model	Volvo 240/242/244/245
Year	1991
Class	PASSENGER CAR
Body Type	4-DR SEDAN/HDTOP
Weight	132

Pre-Crash Driver Data

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

DRIVER Factors

Age	20	Height	175	Weight	68
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

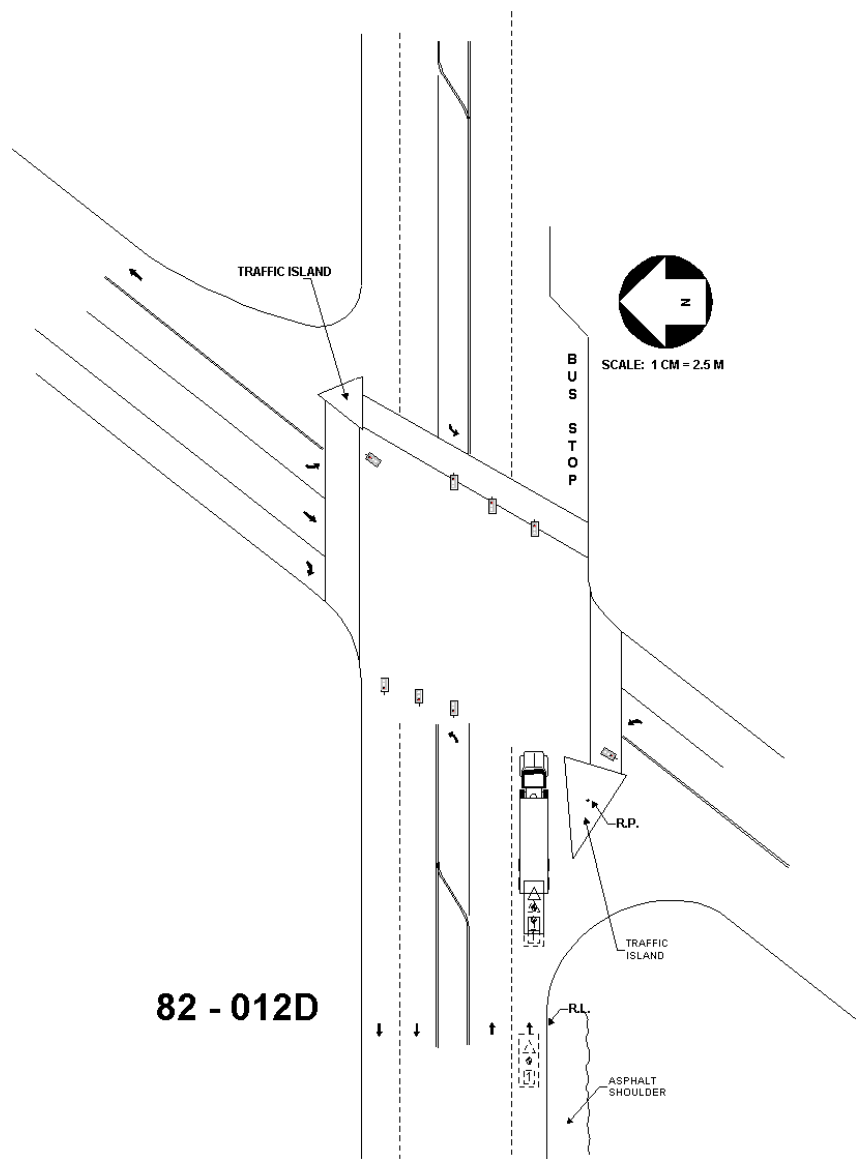
Occupant	1998-82-118-2-1
MAIS	1=Minor
Seat Position	Front left side

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

89 Case 1998-82-12

Summary:

Vehicle #1 was traveling east in lane one on a five lane, two way state freeway. Lane three is a left turn only lane. Vehicle #2, a semi-tractor, was eastbound in lane one, just ahead of V1. Both vehicles approached an intersecting roadway. Vehicle #2 stopped for traffic. V1 failed to stop and the FRONT of V1 impacted the REAR of V2. A few minutes later a small fire erupted in the engine compartment of V1, but was quickly put out by persons on the scene. The driver of V1 was treated at the scene by emergency personnel and was transported to an area hospital where she was hospitalized overnight. The driver of V2 was not injured. V1 was towed disabled.



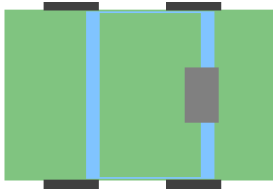
Vehicle	Body type	Make	Model	Year	Occ.#	Age	Occupant's sex	Maximum known occupant ais
1	4-DR SEDAN/HDTOP	Mazda	626	1985	1	30	FEMALE-NOT PREG	1=Minor

Occupant: 1998-82-12-1-1



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	13.876721967
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Rollover Characteristics

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

Pre-Crash Environment

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

Vehicle Factors

Make-Model	Mazda 626
Year	1985
Class	PASSENGER CAR
Body Type	4-DR SEDAN/HDTOP
Weight	110

Pre-Crash Driver Data

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

DRIVER Factors

Age	30	Height	160	Weight	68
Gender			FEMALE-NOT PREG		
Ejection			No EJECTION		
Ejection Area			No EJECTION		
Entrapment			Not ENTRAPPED		

Restraint Factors

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

Injuries

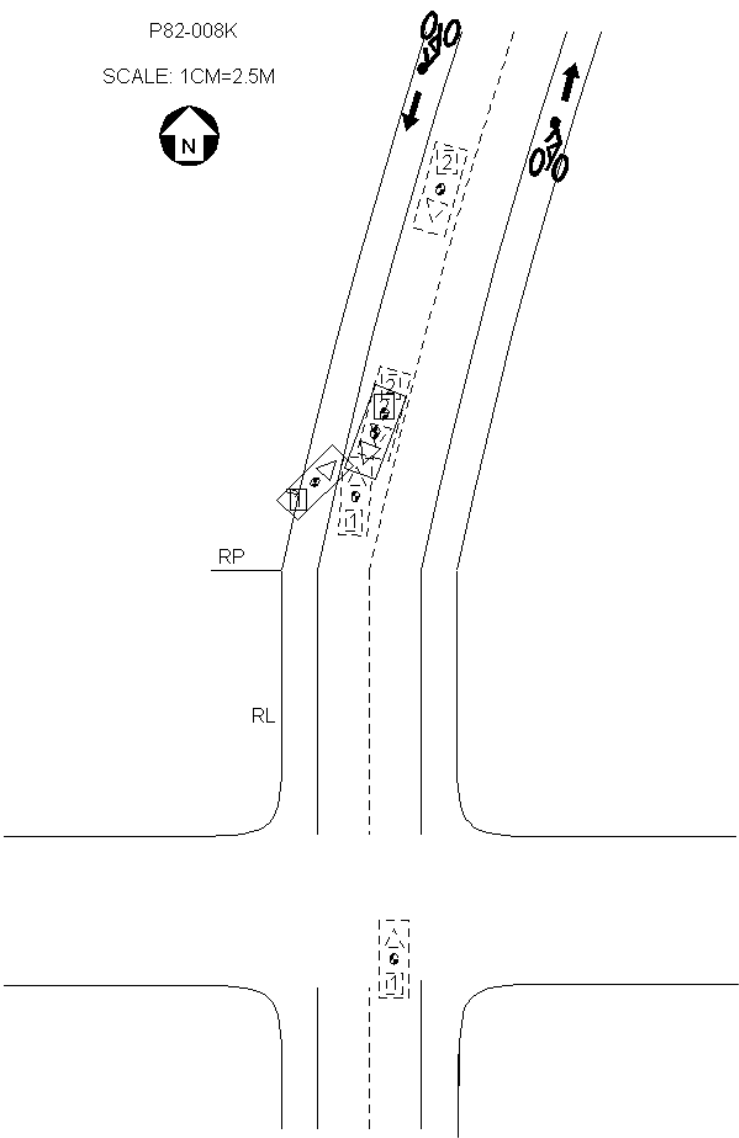
Occupant	1998-82-12-1-1
MAIS	1=Minor
Seat Position	Front left side

AIS Level	Injury Description	Contacts
1=Minor	Leg skin contusion (hematoma)	Left apnel
1=Minor	Leg skin laceration, minor	Left apnel
1=Minor	Upper extremity skin contusion	Steering rim
1=Minor	Thoracic skin contusion	Steering comb

90 Case 1998-82-8

Summary:

Vehicle 1 was north bound in lane 1 of a 2 lane, 2 way street. Vehicle 2 was south bound in lane 1 of the same street. Vehicle 1 moved to the left and its front right impacted the front right of vehicle 2. Impact caused the rear of vehicle 1 to rotate clockwise. It was partially on the planting strip at final rest. Vehicle 2 stopped at impact. The occupants of both vehicles were transported to local hospitals and one of the occupants subsequently expired from injuries sustained in the accident. Both vehicles were towed due to damage.



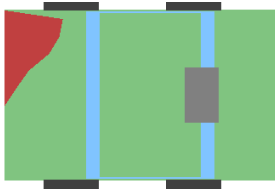
Vehicle	Body type	Make	Model	Year	Age	Occupant's sex	Maximum known occupant ais
1	2DR SEDAN/HT/CPE	Toyota	Corolla	1978	47	FEMALE-NOT PREG	2=Moderate
2	2DR SEDAN/HT/CPE	Plymouth	Valiant/Duster/Scamp	1969	86	MALE	1=Minor
2	2DR SEDAN/HT/CPE	Plymouth	Valiant/Duster/Scamp	1969	88	FEMALE-NOT PREG	4=Severe

Occupant: 1998-82-8-1-1



Fire Information

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



Pre-Crash Environment

Traffic Flow	Not DIVIDED
Number of Travel Lanes	TWO
Roadway Alignment	CURVE RIGHT
Roadway Profile	UPHILL GRADE
Roadway Surface Type	ASPHALT
Roadway Surface Condition	WET
Light Conditions	DAYLIGHT
Atmospheric Conditions	RAIN
Relation to Intersection	NONINTER/NONJUNC
Traffic Control Device	
Police Reported Alcohol Presence	ALCOHOL PRESENT
Alcohol Test (< 95 indicates BAC 0.xx)	10

Crash Severity

Nr. Quarter Turns	No rollover
Impact Speed	998
Total, Longitudal, and Lateral δV	51 -51 -9
Est. δV with sequence number	DELTA V CODED 1
CDC	12 F R A W 6
Damage (C1-C6)	0 17 36 66 81 86
Crush (L and D)	152 51
Object Contacted 1	VEHICLE NO. 2
Object Contacted 2	0

NASS Weighting Factor

Weighting factor	5.3550551915
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Rollover Characteristics

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

Vehicle Factors

Make-Model	Toyota Corolla
Year	1978
Class	PASSENGER CAR
Body Type	2DR SEDAN/HT/CPE
Weight	100

Pre-Crash Driver Data

Accident Type	50
Pre-event Movement	NEGOTIATE CURVE
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	47	Height	163	Weight	59
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	1998-82-8-1-1
MAIS	2=Moderate
Seat Position	Front left side

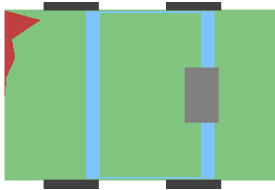
AIS Level	Injury Description	Contacts
2=Moderate	Awake on admission, amnesia	Center panel
1=Minor	Facial skin contusion	Center panel
1=Minor	Facial skin abrasion	Center panel
1=Minor	297402	Center panel
1=Minor	Leg skin contusion (hematoma)	Steering rim
1=Minor	Leg skin abrasion	Left apnel

Occupant: 1998-82-8-2-1



Fire Information

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



Pre-Crash Environment

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

Crash Severity

Nr. Quarter Turns	No rollover
Impact Speed	998
Total, Longitudal, and Lateral δV	38 -37 7
Est. δV with sequence number	DELTA V CODED 1
CDC	12 F R E W 2
Damage (C1-C6)	0 0 3 15 11 52
Crush (L and D)	166 61
Object Contacted 1	VEHICLE NO. 1
Object Contacted 2	0

NASS Weighting Factor

Weighting factor	5.3550551915
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Rollover Characteristics

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

Vehicle Factors

Make-Model	Plymouth Valiant/Duster/Scamp
Year	1969
Class	PASSENGER CAR
Body Type	2DR SEDAN/HT/CPE
Weight	130

Pre-Crash Driver Data

Accident Type	51
Pre-event Movement	NEGOTIATE CURVE
Critical Pre-crash Event	OPP DIR-OVR LEFT
Attempted Avoidance Manuever	BRAKE W/O LOCKUP
Pre-impact Stability	TRACKING
Pre-impact Location	STAYED IN LANE

DRIVER Factors

Age	86	Height	160	Weight	69
Gender					MALE
Ejection					No EJECTION
Ejection Area					No EJECTION
Entrapment					Not ENTRAPPED

Restraint Factors

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

Injuries

Occupant	1998-82-8-2-1
MAIS	1=Minor
Seat Position	Front left side

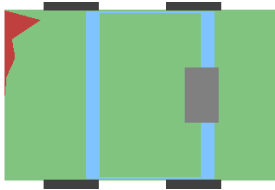
AIS Level	Injury Description	Contacts
1=Minor	Facial skin laceration, minor	Sunvisor
1=Minor	Skin contusion (body region unknown)	Unknown SOURCE

Occupant: 1998-82-8-2-2



Fire Information

Fire Occurrence	No fire
Fire Origin	No fire
Location of Fuel Leakage	No fuel leakage
Type of Fuel Tank	Metallic
Fuel Tank Location	Behind rear axle, centered
Fuel Cap Location	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	DOWNHILL GRADE
Roadway Surface Type	ASPHALT
Roadway Surface Condition	WET
Light Conditions	DAYLIGHT
Atmospheric Conditions	RAIN
Relation to Intersection	NONINTER/NONJUNC
Traffic Control Device	
Police Reported Alcohol Presence	No ALCOHOL
Alcohol Test (< 95 indicates BAC 0.xx)	0

Crash Severity

Nr. Quarter Turns	No rollover
Impact Speed	998
Total, Longitudal, and Lateral δV	38 -37 7
Est. δV with sequence number	DELTA V CODED 1
CDC	12 F R E W 2
Damage (C1-C6)	0 0 3 15 11 52
Crush (L and D)	166 61
Object Contacted 1	VEHICLE NO. 1
Object Contacted 2	0

NASS Weighting Factor

Weighting factor	5.3550551915
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Rollover Characteristics

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

Vehicle Factors

Make-Model	Plymouth Valiant/Duster/Scamp
Year	1969
Class	PASSENGER CAR
Body Type	2DR SEDAN/HT/CPE
Weight	130

Pre-Crash Driver Data

Accident Type	51
Pre-event Movement	NEGOTIATE CURVE
Critical Pre-crash Event	OPP DIR-OVR LEFT
Attempted Avoidance Manuever	BRAKE W/O LOCKUP
Pre-impact Stability	TRACKING
Pre-impact Location	STAYED IN LANE

PASSENGER Factors

Age	88	Height	152	Weight	76
Gender					FEMALE-NOT PREG
Ejection					No EJECTION
Ejection Area					No EJECTION
Entrapment					Not ENTRAPPED

Restraint Factors

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

Injuries

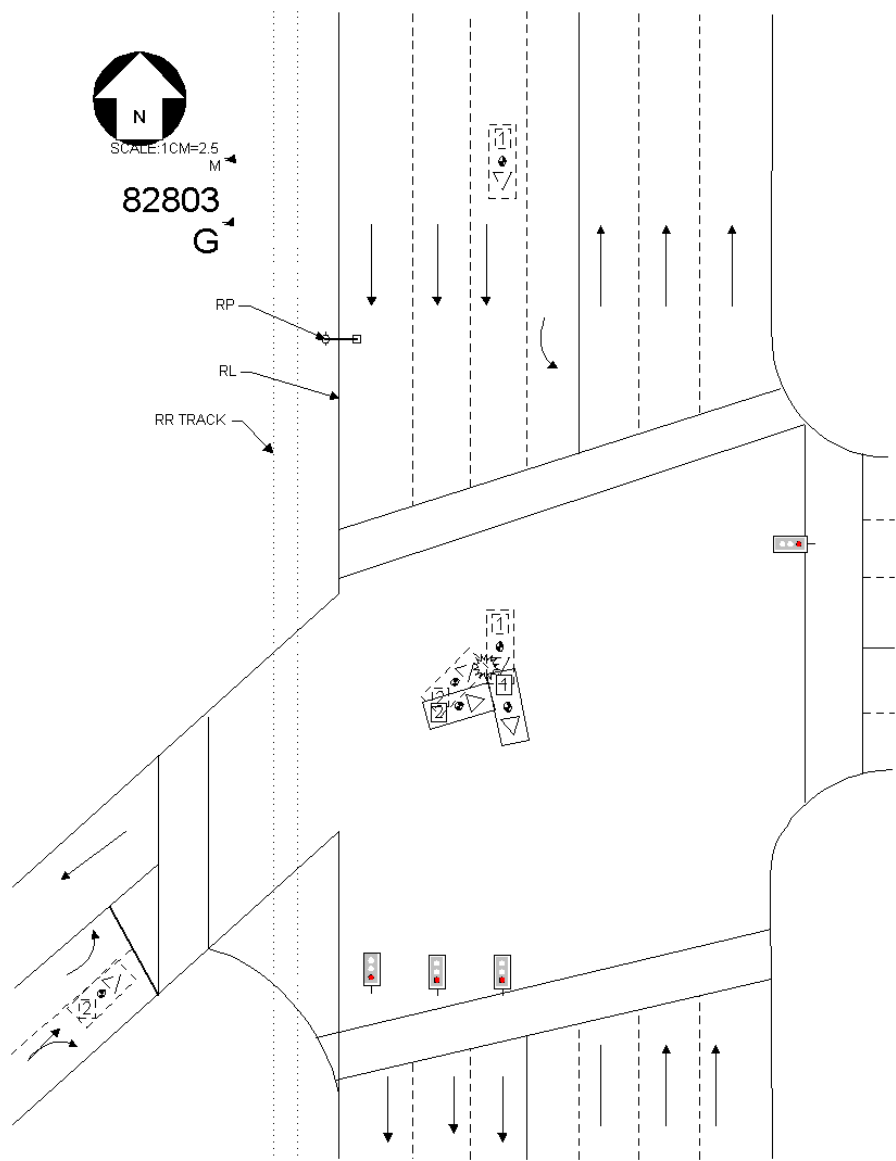
Occupant	1998-82-8-2-2
MAIS	4=Severe
Seat Position	Front right side

AIS Level	Injury Description	Contacts
3=Serious	Cerebral contusions, multiple, bilateral but NFS	Right A pillar
3=Serious	Cerebral subarachnoid hemorrhage	Right panel
4=Severe	Cerebral intraventricular hemorrhage	Right A pillar
2=Moderate	Nose fracture, open/displaced/comminuted	Right A pillar
4=Severe	Lung contusion, bilateral	Right panel
1=Minor	Leg skin contusion (hematoma)	Belt webb/buckle
1=Minor	Facial skin laceration, minor	Right A pillar
1=Minor	Scalp contusion	Right A pillar
1=Minor	297402	Right A pillar
1=Minor	297402	Right panel
1=Minor	Conjunctiva injury	Right A pillar
1=Minor	Conjunctiva injury	Right panel
1=Minor	Scalp abrasion	Right A pillar
1=Minor	Upper extremity skin contusion	Right interior
1=Minor	Leg skin contusion (hematoma)	Center panel

91 Case 1998-82-803

Summary:

VEHICLE 1 WAS SOUTH IN LANE 3 OF A 7 LANE, 2 WAY ROADWAY. VEHICLE 2 WAS EAST IN LANE 1 OF A 2 WAY, 3 LANE ROADWAY. VEHICLE 2 WAS TURNING LEFT AT THE INTERSECTION. VEHICLE 1 THEN ENTERED AND CROSSED OVER THE INTERSECTION. THE FRONT OF VEHICLE 1 IMPACTED THE FRONT OF VEHICLE 2. BOTH VEHICLES CAME TO REST NEAR THE POINT OF IMPACT. NO OCCUPANTS WERE TRANSPORTED DUE TO INJURIES. 2 VEHICLES WERE TOWED DISABLED



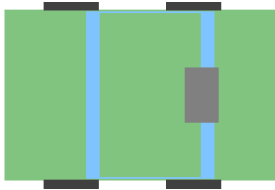
Vehicle	Body type	Make	Model	Year	Occ.#	Age	Occupant's sex	Maximum known occupant ais
1	COMPACT PICKUP	Ford	Ranger	1989	1	21	MALE	0=None
2	3DR/2DR HATCHBAK	Honda	Civic/CRX	1998	1	43	MALE	1=Minor

Occupant: 1998-82-803-1-1



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	12 -11 -3
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	0
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Rollover Characteristics

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

Pre-Crash Environment

Traffic Flow	Not DIVIDED
Number of Travel Lanes	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	Ford Ranger
Year	1989
Class	TRUCK
Body Type	COMPACT PICKUP
Weight	127

Pre-Crash Driver Data

Accident Type	83
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	21	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	1998-82-803-1-1
MAIS	0=None
Seat Position	Front left side

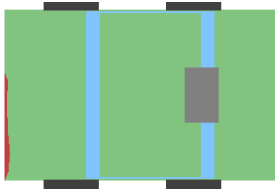
AIS Level	Injury Description	Contacts
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Occupant: 1998-82-803-2-1



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



Pre-Crash Environment

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

Vehicle Factors

Make-Model	Honda Civic/CRX
Year	1998
Class	PASSENGER CAR
Body Type	3DR/2DR HATCHBAK
Weight	102

Crash Severity

Nr. Quarter Turns	No rollover
Impact Speed	998
Total, Longitudal, and Lateral δV	14 -13 7
Est. δV with sequence number	DELTA V CODED 1
CDC	71 F D E W 2
Damage (C1-C6)	5 8 6 4 3 5
Crush (L and D)	158 -6
Object Contacted 1	VEHICLE NO. 1
Object Contacted 2	0

Pre-Crash Driver Data

Accident Type	82
Pre-event Movement	TURNING LEFT
Critical Pre-crash Event	XING ST-X PATH
Attempted Avoidance Manuever	No AVOIDANCE
Pre-impact Stability	TRACKING
Pre-impact Location	STAYED IN LANE

NASS Weighting Factor

Weighting factor	0
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DRIVER Factors

Rollover Characteristics

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

Age	43	Height	173	Weight	68
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

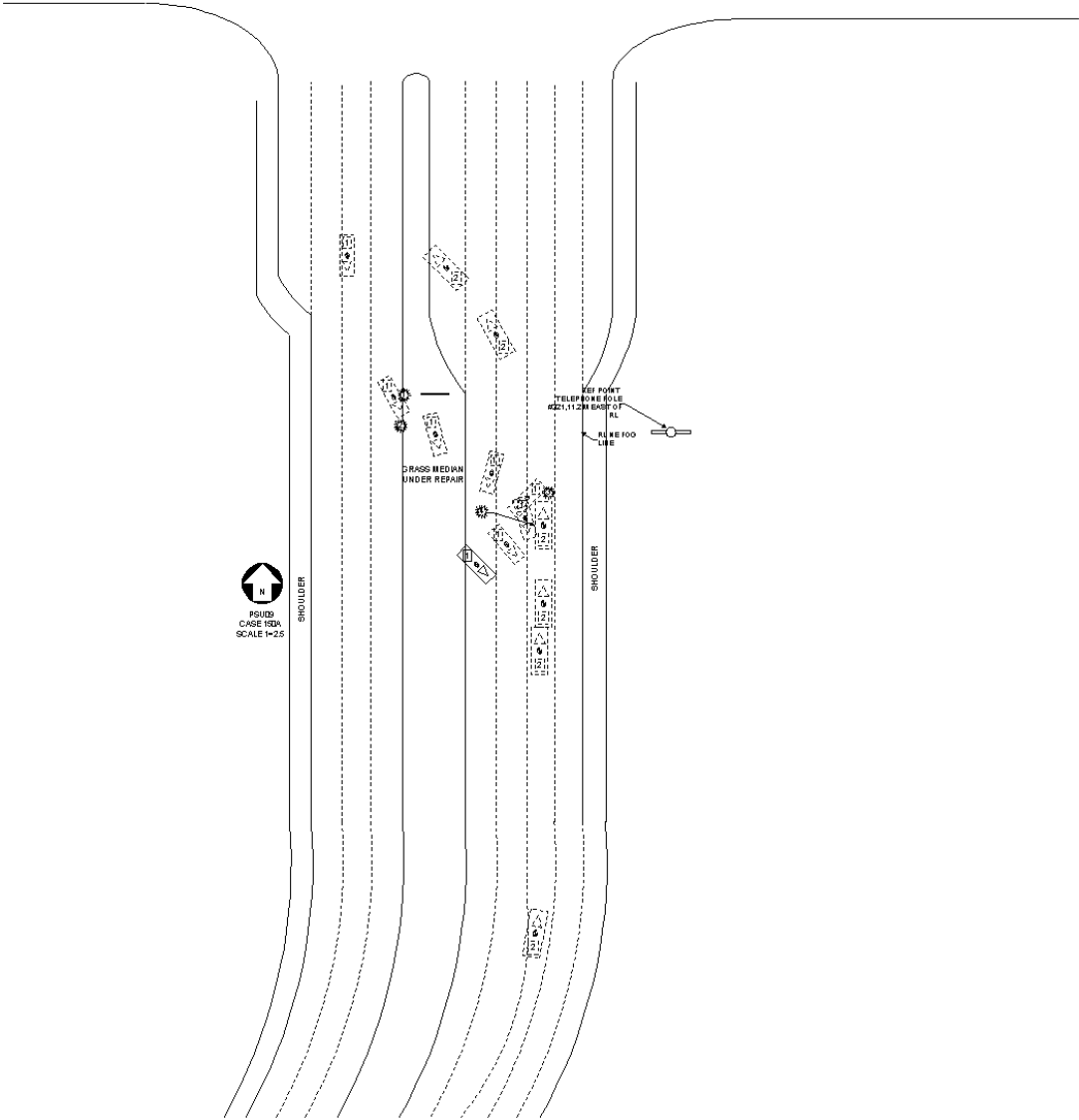
Occupant	1998-82-803-2-1
MAIS	1=Minor
Seat Position	Front left side

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

92 Case 1998-9-150

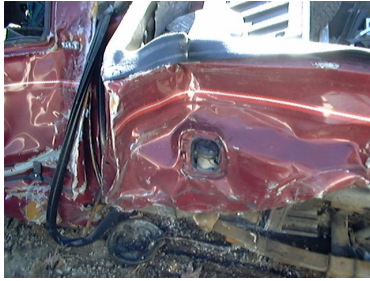
Summary:

Vehicle 2 (a 1992 step van) was traveling North bound on a 6 lane divided highway. Vehicle 1(a 1995 LightP/U) was traveling Southbound in a 4 lane portiion of the same roadway. For an unknown reason Vehicle 1 left the roadway crossed the grass median and entered the Northbound lanes where it was struck in the left side by the front of vehicle 2. Vehicle 1 then rotated counter clockwise and struck the left side of vehicle 2 with it's left front area. The driver (the lone occupant) of vehicle 1 was fataly injured and was transported to a local hospital where he was pronounced DOA. Vehicle 1 was euipped with a single drivers side air bag that did deploy. The driver of Vehicle 2 was slightly injured but sought no medical treatment.



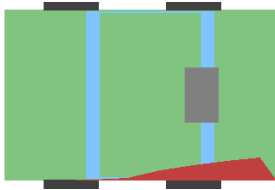
Vehicle	Body type	Make	Model	Year	Occ.#	Age	Occupant's sex	Maximum known occupant ais
1	COMPACT PICKUP	Dodge	Dakota	1995	1	54	MALE	5=Critical
2	STEP VAN <10K LB	Chevrolet	P-series Van	1992	1	48	MALE	7=Unk. sev.

Occupant: 1998-9-150-1-1



Fire Information

Fire Occurrence	No fire
Fire Origin	No fire
Location of Fuel Leakage	Filler neck
Type of Fuel Tank	Metallic
Fuel Tank Location	Forward of rear axle, left side
Fuel Cap Location	Left side, forward rear axle
Fuel Tank Damage	Fill neck separation
Fuel Type	Gasoline



Crash Severity

Nr. Quarter Turns	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	10 L Z A W 3
Damage (C1-C6)	0 3 14 22 28 33
Crush (L and D)	293 -115
Object Contacted 1	VEHICLE NO. 2
Object Contacted 2	VEHICLE NO. 2

NASS Weighting Factor

Weighting factor	52.519914507
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Rollover Characteristics

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

Pre-Crash Environment

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

Vehicle Factors

Make-Model	Dodge Dakota
Year	1995
Class	TRUCK
Body Type	COMPACT PICKUP
Weight	176

Pre-Crash Driver Data

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

DRIVER Factors

Age	54	Height	180	Weight	102
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	1998-9-150-1-1
MAIS	5=Critical
Seat Position	Front left side

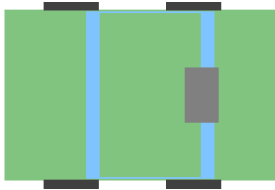
AIS Level	Injury Description	Contacts
1=Minor	Neck skin laceration NFS	Oth interior obj
1=Minor	Upper extremity skin abrasion	Belt webb/buckle
1=Minor	Thoracic skin contusion	Belt webb/buckle
2=Moderate	Dislocation of atlanto-occipital	OMV unk exterior
5=Critical	Cord laceration, complete, C4 or below, with fracture	OMV unk exterior
5=Critical	Trachea and main stem bronchus laceration, complex injury	OMV unk exterior
4=Severe	Carotid artery laceration, major (transection, segment loss)	OMV unk exterior
4=Severe	Subclavian artery laceration, major (complete or EBL>203=Serious	Cerebral subarachnoid hemorrhage
OMV unk exterior 3=Serious	Cerebral subarachnoid hemorrhage	OMV unk exterior
3=Serious	Cerebellar subarachnoid hemorrhage	OMV unk exterior
4=Severe	Lung contusion, bilateral	Left interior
1=Minor	Neck skin abrasion	Belt webb/buckle
1=Minor	Thoracic skin abrasion	Belt webb/buckle
1=Minor	Facial skin abrasion	Left B pillar

Occupant: 1998-9-150-2-1



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	52.519914507
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Rollover Characteristics

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

Pre-Crash Environment

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

Vehicle Factors

Make-Model	Chevrolet P-series Van
Year	1992
Class	TRUCK
Body Type	STEP VAN <10K LB
Weight	189

Pre-Crash Driver Data

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

DRIVER Factors

Age	48	Height	170	Weight	75
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

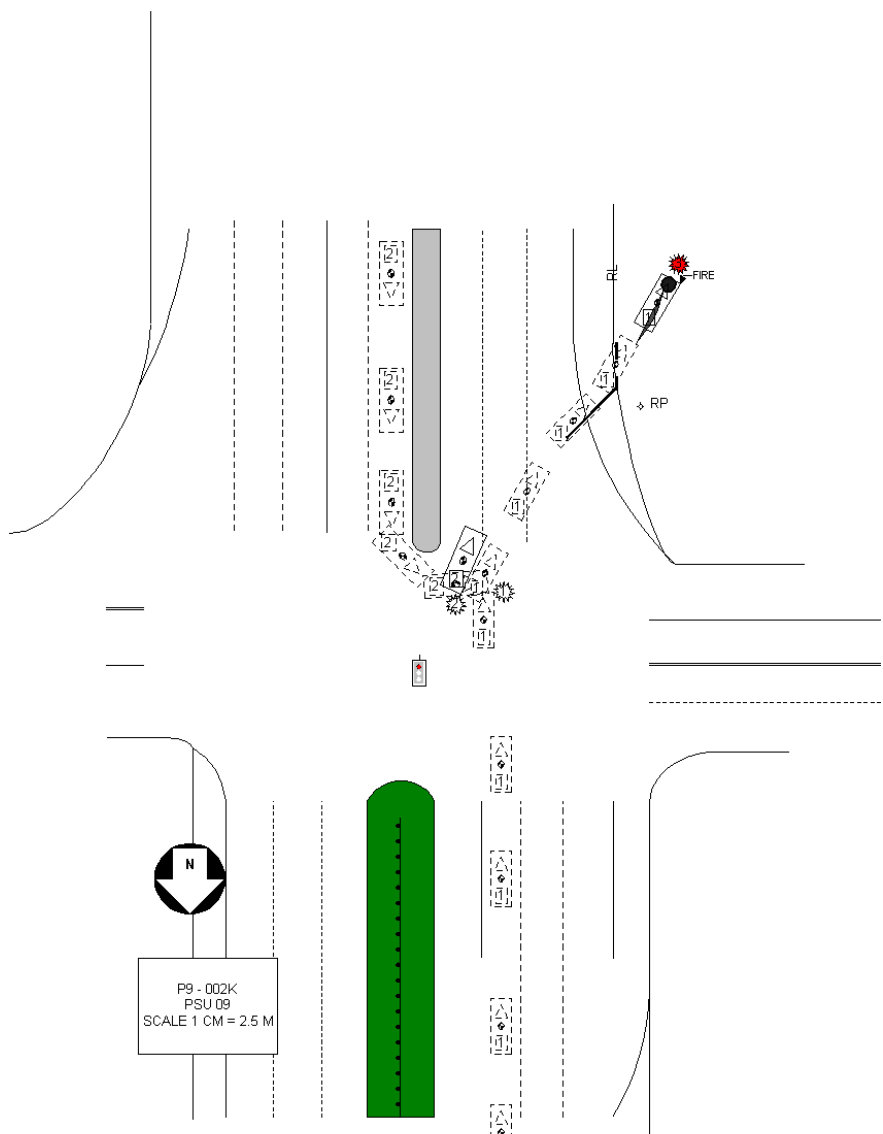
Occupant	1998-9-150-2-1
MAIS	7=Unk. sev.
Seat Position	Front left side

AIS Level	Injury Description	Contacts
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93 Case 1998-9-2

Summary:

VEHICLE ONE WAS TRAVELING SOUTHBOUND IN LANE NUMBER FOUR OF A FOUR LANE DIVIDED ROADWAY APPROACHING AN INTERSECTION. VEHICLE TWO WAS TRAVELING NORTH ON THE SAME DIVIDED ROADWAY IN LANE NUMBER FIVE APPROACHING THE SAME INTERSECTION AS VEHICLE ONE. VEHICLE TWO ENTERS THE INTERSECTION AND MAKES A U-TURN. VEHICLE ONE ENTERS THE INTERSECTION, BRAKES AND STEERS RIGHT. VEHICLE ONE'S FRONT PLANE CONTACTS VEHICLE TWO'S RIGHT SIDE PLANE. VEHICLE TWO PIVOTS COUNTER CLOCKWISE. VEHICLE ONE PIVOTS CLOCKWISE. VEHICLE TWO'S RIGHT SIDE PLANE CONTACTS VEHICLE ONE'S LEFT SIDE PLANE. VEHICLE TWO COMES TO REST IN THE ROADWAY. VEHICLE ONE DEPARTS THE ROADWAY TO THE RIGHT. VEHICLE ONE EXPERIENCES A SMALL ENGINE FIRE AND COMES TO REST. THE DRIVER AND SOLE OCCUPANT OF VEHICLE ONE IS TRANSPORTED WITH INCAPCIATATING INJURIES AND IS HOSPITLAIZED. THE FIVE OCCUPANTS OF VEHICLE TWO ARE TRANSPORTED, TREATED AND RELEASED.



Vehicle	Body type	Make	Model	Year	OccAge	Occupant's sex	Maximum known occupant ais
1	STATION WAGON	Nissan	Sentra	1981	55	MALE	3=Serious
2	4-DR SEDAN/HDTOP	Pontiac	Bonneville/Catalina	1989	31	FEMALE-NOT PREG	1=Minor
2	4-DR SEDAN/HDTOP	Pontiac	Bonneville/Catalina	1989	34	FEMALE-NOT PREG	1=Minor
2	4-DR SEDAN/HDTOP	Pontiac	Bonneville/Catalina	1989	6	FEMALE-NOT PREG	1=Minor
2	4-DR SEDAN/HDTOP	Pontiac	Bonneville/Catalina	1989	7	FEMALE-NOT PREG	1=Minor
2	4-DR SEDAN/HDTOP	Pontiac	Bonneville/Catalina	1989	7	MALE	1=Minor

Occupant: 1998-9-2-1-1



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	DVDED/W/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	INTERSECTION REL
Traffic Control Device	
Police Reported Alcohol Presence	ALCOHOL PRESENT
Alcohol Test (< 95 indicates BAC 0.xx)	0

Crash Severity

Nr. Quarter Turns	No rollover
Impact Speed	998
Total, Longitudal, and Lateral δV	39 -39 < 0.5 KMPH
Est. δV with sequence number	DELTA V CODED 1
CDC	12 F Y E W 3
Damage (C1-C6)	63 52 50 47 30 6
Crush (L and D)	150 -29
Object Contacted 1	VEHICLE NO. 2
Object Contacted 2	VEHICLE NO. 2

NASS Weighting Factor

Weighting factor	58.800708624
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Rollover Characteristics

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

Vehicle Factors

Make-Model	Nissan Sentra
Year	1985
Class	PASSENGER CAR
Body Type	STATION WAGON
Weight	89

Pre-Crash Driver Data

Accident Type	69
Pre-event Movement	GOING STRAIGHT
Critical Pre-crash Event	CROSS OVER INTER
Attempted Avoidance Manuever	BRAKE+STEER RT
Pre-impact Stability	LONGITUDINAL SKID
Pre-impact Location	Unk IF LEFT LANE

DRIVER Factors

Age	55	Height	183	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	1998-9-2-1-1
MAIS	3=Serious
Seat Position	Front left side

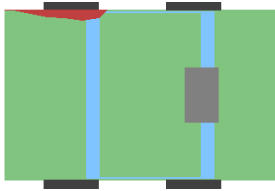
AIS Level	Injury Description	Contacts
2=Moderate	Lethargic on admission, unconscious (length NFS)	Front header
3=Serious	Lung contusion, uni-lateral	Steering comb
1=Minor	Leg skin laceration, minor	Left apnel
1=Minor	Leg skin contusion (hematoma)	Left apnel
1=Minor	Leg skin abrasion	Left apnel

Occupant: 1998-9-2-2-1



Fire Information

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



Pre-Crash Environment

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

Vehicle Factors

Make-Model	Pontiac Bonneville/Catalina
Year	1989
Class	PASSENGER CAR
Body Type	4-DR SEDAN/HDTOP
Weight	151

Crash Severity

Nr. Quarter Turns	No rollover
Impact Speed	998
Total, Longitudal, and Lateral δV	23 < 0.5 KMPH -23
Est. δV with sequence number	DELTA V CODED 1
CDC	3 R F E W 2
Damage (C1-C6)	0 4 10 11 14 11
Crush (L and D)	152 174
Object Contacted 1	VEHICLE NO. 1
Object Contacted 2	VEHICLE NO. 1

Pre-Crash Driver Data

Accident Type	68
Pre-event Movement	MAKING U-TURN
Critical Pre-crash Event	OPP DIR-OVR RGHT
Attempted Avoidance Manuever	No AVOIDANCE
Pre-impact Stability	TRACKING
Pre-impact Location	STAYED IN LANE

NASS Weighting Factor

Weighting factor	58.800708624
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DRIVER Factors

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

Age	31	Height	163	Weight	83
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	1998-9-2-2-1
MAIS	1=Minor
Seat Position	Front left side

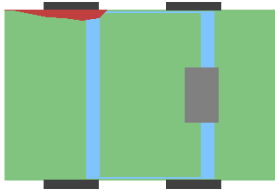
AIS Level	Injury Description	Contacts
1=Minor	Facial skin contusion	Steering rim
1=Minor	Leg skin contusion (hematoma)	Steering column
1=Minor	Acute cervical spine strain without fracture or dislocation	Other noncontact
1=Minor	Upper extremity skin contusion	Belt webb/buckle
1=Minor	Awake on admission, never unconscious	Steering rim

Occupant: 1998-9-2-2-2



Fire Information

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



Pre-Crash Environment

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

Vehicle Factors

Make-Model	Pontiac Bonneville/Catalina
Year	1989
Class	PASSENGER CAR
Body Type	4-DR SEDAN/HDTOP
Weight	151

Crash Severity

Nr. Quarter Turns	No rollover
Impact Speed	998
Total, Longitudal, and Lateral δV	23 < 0.5 KMPH -23
Est. δV with sequence number	DELTA V CODED 1
CDC	3 R F E W 2
Damage (C1-C6)	0 4 10 11 14 11
Crush (L and D)	152 174
Object Contacted 1	VEHICLE NO. 1
Object Contacted 2	VEHICLE NO. 1

Pre-Crash Driver Data

Accident Type	68
Pre-event Movement	MAKING U-TURN
Critical Pre-crash Event	OPP DIR-OVR RGHT
Attempted Avoidance Manuever	No AVOIDANCE
Pre-impact Stability	TRACKING
Pre-impact Location	STAYED IN LANE

NASS Weighting Factor

Weighting factor	58.800708624
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PASSENGER Factors

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

Age	34	Height	170	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	Not EQUIP/AVAIL
Airbag Deployment - 1 st Seat	Not EQUIP/AVAIL
Airbag Deployment - Oth Seat	Not EQUIP W/ OTH

Injuries

Occupant	1998-9-2-2-2
MAIS	1=Minor
Seat Position	Front right side

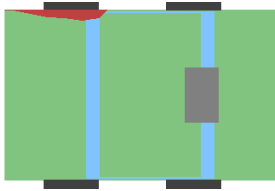
AIS Level	Injury Description	Contacts
1=Minor	Leg skin contusion (hematoma)	Right panel
1=Minor	297402	Other occupants
1=Minor	Leg skin contusion (hematoma)	Right interior
1=Minor	Upper extremity skin contusion	Right interior

Occupant: 1998-9-2-2-3



Fire Information

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



Pre-Crash Environment

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

Vehicle Factors

Make-Model	Pontiac Bonneville/Catalina
Year	1989
Class	PASSENGER CAR
Body Type	4-DR SEDAN/HDTOP
Weight	151

Crash Severity

Nr. Quarter Turns	No rollover
Impact Speed	998
Total, Longitudal, and Lateral δV	23 < 0.5 KMPH -23
Est. δV with sequence number	DELTA V CODED 1
CDC	3 R F E W 2
Damage (C1-C6)	0 4 10 11 14 11
Crush (L and D)	152 174
Object Contacted 1	VEHICLE NO. 1
Object Contacted 2	VEHICLE NO. 1

Pre-Crash Driver Data

Accident Type	68
Pre-event Movement	MAKING U-TURN
Critical Pre-crash Event	OPP DIR-OVR RGHT
Attempted Avoidance Manuever	No AVOIDANCE
Pre-impact Stability	TRACKING
Pre-impact Location	STAYED IN LANE

NASS Weighting Factor

Weighting factor	58.800708624
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PASSENGER Factors

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

Age	6	Height	117	Weight	22
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	Not EQUIP/AVAIL
Airbag Deployment - Oth Seat	Not EQUIP W/ OTH

Injuries

Occupant	1998-9-2-2-3
MAIS	1=Minor
Seat Position	Second left

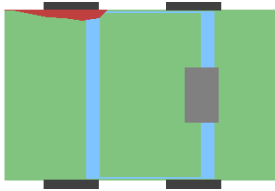
AIS Level	Injury Description	Contacts
1=Minor	Leg skin contusion (hematoma)	Seat, back

Occupant: 1998-9-2-2-4



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	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	UPHILL GRADE
Roadway Surface Type	ASPHALT
Roadway Surface Condition	DRY
Light Conditions	DAYLIGHT
Atmospheric Conditions	NO ADVERSE COND
Relation to Intersection	INTERSECTION REL
Traffic Control Device	
Police Reported Alcohol Presence	No ALCOHOL
Alcohol Test (< 95 indicates BAC 0.xx)	0

Vehicle Factors

Make-Model	Pontiac Bonneville/Catalina
Year	1989
Class	PASSENGER CAR
Body Type	4-DR SEDAN/HDTOP
Weight	151

Crash Severity

Nr. Quarter Turns	No rollover
Impact Speed	998
Total, Longitudal, and Lateral δV	23 < 0.5 KMPH -23
Est. δV with sequence number	DELTA V CODED 1
CDC	3 R F E W 2
Damage (C1-C6)	0 4 10 11 14 11
Crush (L and D)	152 174
Object Contacted 1	VEHICLE NO. 1
Object Contacted 2	VEHICLE NO. 1

Pre-Crash Driver Data

Accident Type	68
Pre-event Movement	MAKING U-TURN
Critical Pre-crash Event	OPP DIR-OVR RGHT
Attempted Avoidance Manuever	No AVOIDANCE
Pre-impact Stability	TRACKING
Pre-impact Location	STAYED IN LANE

NASS Weighting Factor

Weighting factor	58.800708624
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PASSENGER Factors

Age	7	Height	117	Weight	24
Gender					FEMALE-NOT PREG
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 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	1998-9-2-2-4
MAIS	1=Minor
Seat Position	Second middle

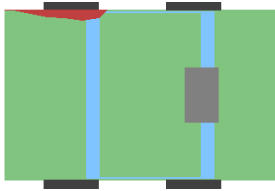
AIS Level	Injury Description	Contacts
1=Minor	Leg skin contusion (hematoma)	Other noncontact

Occupant: 1998-9-2-2-5



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



Pre-Crash Environment

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

Vehicle Factors

Make-Model	Pontiac Bonneville/Catalina
Year	1989
Class	PASSENGER CAR
Body Type	4-DR SEDAN/HDTOP
Weight	151

Crash Severity

Nr. Quarter Turns	No rollover
Impact Speed	998
Total, Longitudal, and Lateral δV	23 < 0.5 KMPH -23
Est. δV with sequence number	DELTA V CODED 1
CDC	3 R F E W 2
Damage (C1-C6)	0 4 10 11 14 11
Crush (L and D)	152 174
Object Contacted 1	VEHICLE NO. 1
Object Contacted 2	VEHICLE NO. 1

Pre-Crash Driver Data

Accident Type	68
Pre-event Movement	MAKING U-TURN
Critical Pre-crash Event	OPP DIR-OVR RGHT
Attempted Avoidance Manuever	No AVOIDANCE
Pre-impact Stability	TRACKING
Pre-impact Location	STAYED IN LANE

NASS Weighting Factor

Weighting factor	58.800708624
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PASSENGER Factors

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

Age	7	Height	122	Weight	18
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

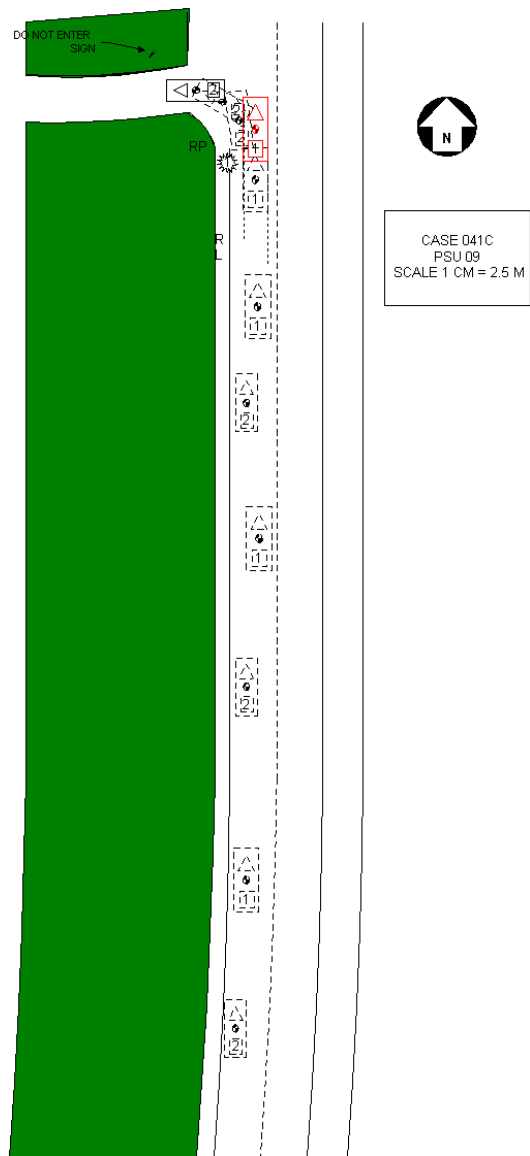
Occupant	1998-9-2-2-5
MAIS	1=Minor
Seat Position	Second right

AIS Level	Injury Description	Contacts
1=Minor	Scalp contusion	Right wind glass

94 Case 1998-9-41

Summary:

VEHICLE ONE WAS TRAVELING NORTH IN LANE NUMBER TWO OF A TWO LANE DIVIDED ROADWAY(NO POSITIVE BARRIER) APPROACHING A ONE WAY CROSSOVER. VEHICLE TWO WAS TRAVELING NORTH ON THE SAME ROADWAY IN LANE NUMBER TWO AHEAD OF VEHICLE ONE. VEHICLE TWO DECELERATES TO SEE IF IT CAN TURN LEFT AT THE ONE WAY CROSSOVER(NOTE: DO NOT ENTER SIGN POSTED). VEHICLE ONE BRAKES AND STEERS RIGHT. VEHICLE ONE'S FRONT PLANE CONTACTS VEHICLE TWO'S BACK PLANE. VEHICLE ONE COMES TO REST IN THE TRAVEL PORTION OF THE ROADWAY. VEHICLE TWO COMES TO REST IN THE CROSSOVER PORTION OF THE ROADWAY. BOTH VEHICLES ARE TOWED. THE DRIVER AND SOLE OCCUPANT OF VEHICLE ONE IS NOT INJURED. THE THREE OCCUPANTS OF VEHICLE TWO ARE TRANSPORTED, TREATED AND RELEASED.



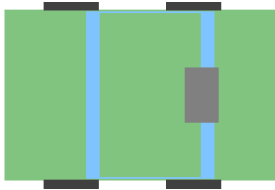
Vehicle #	Body type	Make	Model	Year	Occ.#	Age	Occupant's sex	Maximum known occupant ais
1	LARGE VAN	Dodge	B-series Van	1994	1	40	MALE	0=None
2	4-DR SEDAN/HDTOP	Chevrolet	Cavalier	1995	1	23	FEMALE-NOT PREG	1=Minor
2	4-DR SEDAN/HDTOP	Chevrolet	Cavalier	1995	2	31	MALE	1=Minor
2	4-DR SEDAN/HDTOP	Chevrolet	Cavalier	1995	3	1	FEMALE-NOT PREG	1=Minor

Occupant: 1998-9-41-1-1



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	11 -11 < 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	55.730425158
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Rollover Characteristics

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

Pre-Crash Environment

Traffic Flow	DVDED/NO BARRIER
Number of Travel Lanes	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	Dodge B-series Van
Year	1994
Class	TRUCK
Body Type	LARGE VAN
Weight	176

Pre-Crash Driver Data

Accident Type	28
Pre-event Movement	GOING STRAIGHT
Critical Pre-crash Event	Same DIR-DECELER
Attempted Avoidance Manuever	BRAKE+STEER RT
Pre-impact Stability	LONGITUDINAL SKID
Pre-impact Location	STAYED IN LANE

DRIVER Factors

Age	40	Height	170	Weight	93
Gender			MALE		
Ejection			No EJECTION		
Ejection Area			No EJECTION		
Entrapment			Not ENTRAPPED		

Restraint Factors

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

Injuries

Occupant	1998-9-41-1-1
MAIS	0=None
Seat Position	Front left side

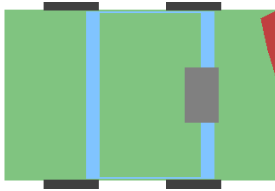
AIS Level	Injury Description	Contacts
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Occupant: 1998-9-41-2-1



Fire Information

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



Pre-Crash Environment

Traffic Flow	DVDED/NO BARRIER
Number of Travel Lanes	TWO
Roadway Alignment	STRAIGHT
Roadway Profile	LEVEL
Roadway Surface Type	ASPHALT
Roadway Surface Condition	DRY
Light Conditions	DARK
Atmospheric Conditions	No ADVERSE COND
Relation to Intersection	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	1995
Class	PASSENGER CAR
Body Type	4-DR SEDAN/HDTOP
Weight	118

Crash Severity

Nr. Quarter Turns	No rollover
Impact Speed	998
Total, Longitudal, and Lateral δV	16 16 1
Est. δV with sequence number	DELTA V CODED 1
CDC	6 B Z E W 3
Damage (C1-C6)	0 0 6 13 18 23
Crush (L and D)	140 0
Object Contacted 1	VEHICLE NO. 1
Object Contacted 2	0

Pre-Crash Driver Data

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

NASS Weighting Factor

Weighting factor	55.730425158
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DRIVER Factors

Rollover Characteristics

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

Age	23	Height	170	Weight	56
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	1998-9-41-2-1
MAIS	1=Minor
Seat Position	Front left side

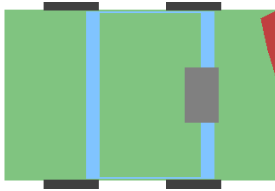
AIS Level	Injury Description	Contacts
1=Minor	Acute cervical spine strain without fracture or dislocation	Head restraint
1=Minor	Skin contusion (body region unknown)	Unknown SOURCE

Occupant: 1998-9-41-2-2



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, centered
Fuel Cap Location	Right side, behind rear axle
Fuel Tank Damage	Punctured
Fuel Type	Gasoline



Pre-Crash Environment

Traffic Flow	DVDED/NO BARRIER
Number of Travel Lanes	TWO
Roadway Alignment	STRAIGHT
Roadway Profile	LEVEL
Roadway Surface Type	ASPHALT
Roadway Surface Condition	DRY
Light Conditions	DARK
Atmospheric Conditions	No ADVERSE COND
Relation to Intersection	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	1995
Class	PASSENGER CAR
Body Type	4-DR SEDAN/HDTOP
Weight	118

Crash Severity

Nr. Quarter Turns	No rollover
Impact Speed	998
Total, Longitudal, and Lateral δV	16 16 1
Est. δV with sequence number	DELTA V CODED 1
CDC	6 B Z E W 3
Damage (C1-C6)	0 0 6 13 18 23
Crush (L and D)	140 0
Object Contacted 1	VEHICLE NO. 1
Object Contacted 2	0

Pre-Crash Driver Data

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

NASS Weighting Factor

Weighting factor	55.730425158
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PASSENGER Factors

Rollover Characteristics

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

Age	31	Height	173	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	NONDEPLOYED
Airbag Deployment - 1 st Seat	NONDEPLOYED
Airbag Deployment - Oth Seat	Not EQUIP W/ OTH

Injuries

Occupant	1998-9-41-2-2
MAIS	1=Minor
Seat Position	Front right side

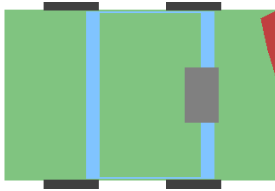
AIS Level	Injury Description	Contacts
1=Minor	Skin contusion (body region unknown)	Unknown SOURCE

Occupant: 1998-9-41-2-3



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	Punctured
Fuel Type	Gasoline



Pre-Crash Environment

Traffic Flow	DVDED/NO BARRIER
Number of Travel Lanes	TWO
Roadway Alignment	STRAIGHT
Roadway Profile	LEVEL
Roadway Surface Type	ASPHALT
Roadway Surface Condition	DRY
Light Conditions	DARK
Atmospheric Conditions	No ADVERSE COND
Relation to Intersection	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	1995
Class	PASSENGER CAR
Body Type	4-DR SEDAN/HDTOP
Weight	118

Crash Severity

Nr. Quarter Turns	No rollover
Impact Speed	998
Total, Longitudal, and Lateral δV	16 16 1
Est. δV with sequence number	DELTA V CODED 1
CDC	6 B Z E W 3
Damage (C1-C6)	0 0 6 13 18 23
Crush (L and D)	140 0
Object Contacted 1	VEHICLE NO. 1
Object Contacted 2	0

Pre-Crash Driver Data

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

NASS Weighting Factor

Weighting factor	55.730425158
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PASSENGER Factors

Age	1	Height	66	Weight	9
Gender					FEMALE-NOT PREG
Ejection					No EJECTION
Ejection Area					No EJECTION
Entrapment					Not ENTRAPPED

Rollover Characteristics

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

Restraint Factors

Restrain	Lap+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

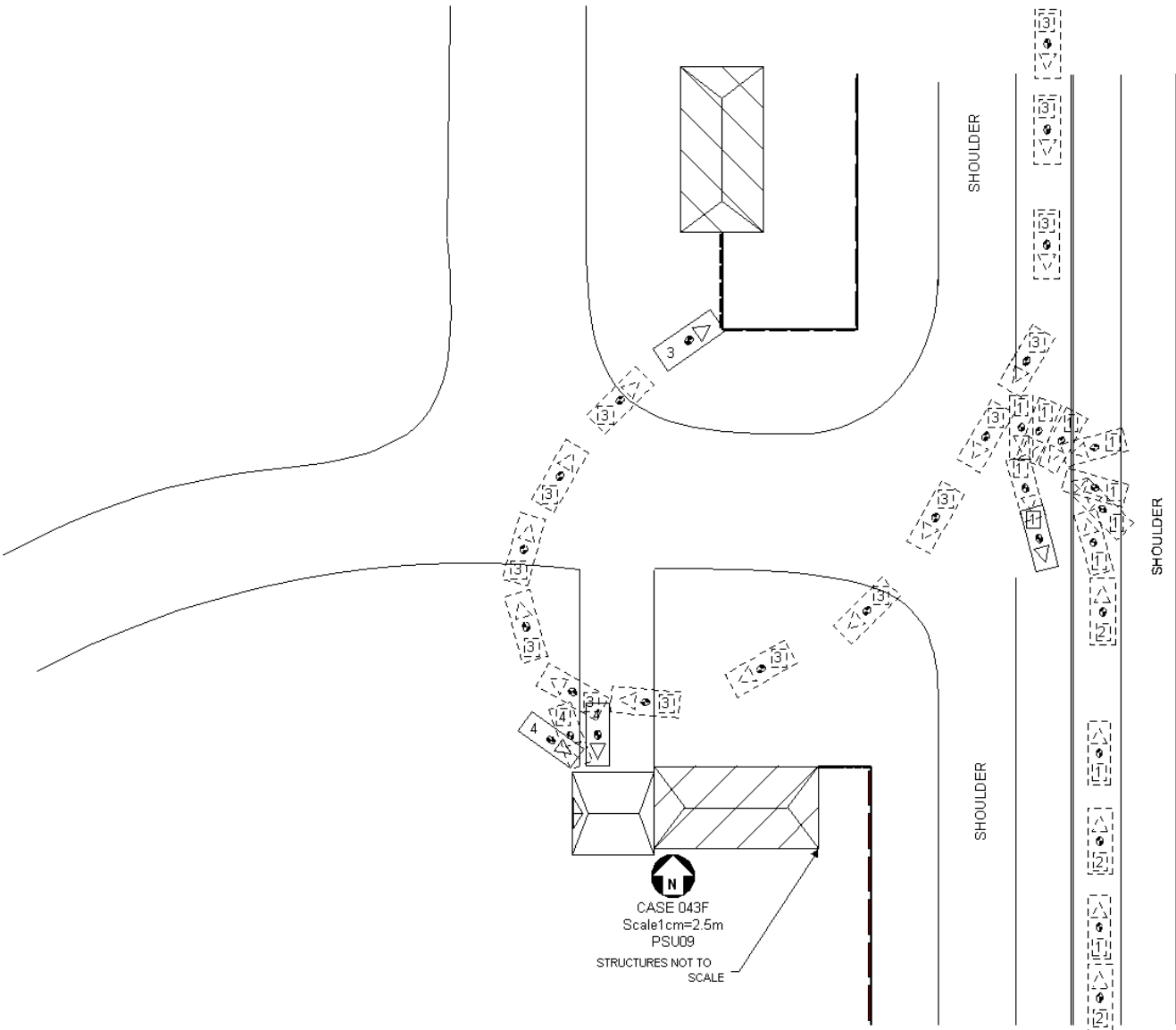
Occupant	1998-9-41-2-3
MAIS	1=Minor
Seat Position	Second right

AIS Level	Injury Description	Contacts
1=Minor	Upper extremity skin contusion	Child seat
1=Minor	Leg skin contusion (hematoma)	Child seat

95 Case 1998-9-43

Summary:

Vehicle #2 was stopped waiting to turn left onto a side street when it was struck from behind by vehicle #1. The impact forces along with the fact that vehicle 2's front wheel were turned to the left in anticipation of turning caused vehicle #2 to turn and rotate quickly into the path of vehicle #3 which was traveling in the opposite direction on the two lane undivided roadway. Vehicle #3 struck vehicle #2 in the rear rotating it roughly back into it's original travel direction. Vehicle #3 struck vehicle #2 then traveled through the front yard of a residence into thier driveway striking vehicle #4 that was parked in the driveway. Vehicle #3 then traveled through the sideyard onto the street over a curb into another residences yard striking a rose bush and a wooden fence. The driver of vehicle #2 was transported to the closest hospital and was treated and released. No others were transported/treated for injuries at the time of the accident.



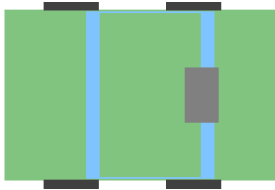
Vehicle	Body type	Make	Model	Year	Occ.#	Age	Occupant's sex	Maximum known occupant ais
1	4-DR SEDAN/HDTOP	Honda	Accord	1991	1	47	MALE	7=Unk. sev.
2	2DR SEDAN/HT/CPE	Buick	Century	1989	1	45	FEMALE-NOT PREG	1=Minor
3	MINIVAN	Dodge	Caravan	1998	1	41	FEMALE-NOT PREG	7=Unk. sev.
3	MINIVAN	Dodge	Caravan	1998	2	12	FEMALE-NOT PREG	0=None
3	MINIVAN	Dodge	Caravan	1998	3	10	FEMALE-NOT PREG	0=None

Occupant: 1998-9-43-1-1



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	3749.2610795
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Rollover Characteristics

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

Pre-Crash Environment

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

Vehicle Factors

Make-Model	Honda Accord
Year	1991
Class	PASSENGER CAR
Body Type	4-DR SEDAN/HDTOP
Weight	126

Pre-Crash Driver Data

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

DRIVER Factors

Age	47	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	1998-9-43-1-1
MAIS	7=Unk. sev.
Seat Position	Front left side

AIS Level	Injury Description	Contacts
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Occupant: 1998-9-43-2-1



Fire Information

Fire Occurence	No fire
Fire Origin	No fire
Location of Fuel Leakage	Line/pump/filter
Type of Fuel Tank	Metallic
Fuel Tank Location	Behind rear axle, centered
Fuel Cap Location	Left side, behind rear axle
Fuel Tank Damage	Deformed
Fuel Type	Gasoline



Crash Severity

Nr. Quarter Turns	No rollover
Impact Speed	< 0.5KMPH
Total, Longitudal, and Lateral δV	< 0.5 KMPH < 0.5 KMPH < 0.5 KMPH
Est. δV with sequence number	SEVERE 1
CDC	47 B D E W 6
Damage (C1-C6)	70 95 137 170 174 164
Crush (L and D)	170 0
Object Contacted 1	VEHICLE NO. 1
Object Contacted 2	VEHICLE NO. 3

NASS Weighting Factor

Weighting factor	3749.2610795
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Rollover Characteristics

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

Pre-Crash Environment

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

Vehicle Factors

Make-Model	Buick Century
Year	1989
Class	PASSENGER CAR
Body Type	2DR SEDAN/HT/CPE
Weight	124

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	Left TRAVEL LANE

DRIVER Factors

Age	45	Height	152	Weight	50
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	1998-9-43-2-1
MAIS	1=Minor
Seat Position	Front left side

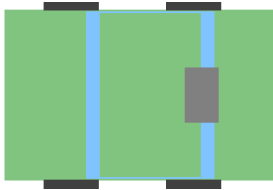
AIS Level	Injury Description	Contacts
1=Minor	Facial skin laceration	Mirror
	NFS	
1=Minor	Upper extremity skin contusion	Left hardware
1=Minor	Leg skin contusion (hematoma)	Left apnel
1=Minor	Leg skin abrasion	Left apnel
1=Minor	Leg skin contusion (hematoma)	Seat, back
1=Minor	Upper extremity skin contusion	Seat, back

Occupant: 1998-9-43-3-1



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	< 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	3749.2610795
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Rollover Characteristics

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

Pre-Crash Environment

Traffic Flow	Not DIVIDED
Number of Travel Lanes	TWO
Roadway Alignment	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	Dodge Caravan
Year	1998
Class	PASSENGER CAR
Body Type	MINIVAN
Weight	76

Pre-Crash Driver Data

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

DRIVER Factors

Age	41	Height	168	Weight	84
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	Unk IF DEPLOYED

Injuries

Occupant	1998-9-43-3-1
MAIS	7=Unk. sev.
Seat Position	Front left side

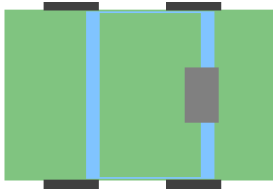
AIS Level	Injury Description	Contacts
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Occupant: 1998-9-43-3-2



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	3749.2610795
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Rollover Characteristics

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

Pre-Crash Environment

Traffic Flow	Not DIVIDED
Number of Travel Lanes	TWO
Roadway Alignment	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	Dodge Caravan
Year	1998
Class	PASSENGER CAR
Body Type	MINIVAN
Weight	76

Pre-Crash Driver Data

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

PASSENGER Factors

Age	12	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		Unk IF DEPLOYED

Injuries

Occupant	1998-9-43-3-2
MAIS	0=None
Seat Position	Second right

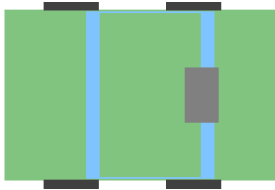
AIS Level	Injury Description	Contacts
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Occupant: 1998-9-43-3-3



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	3749.2610795
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Rollover Characteristics

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

Pre-Crash Environment

Traffic Flow	Not DIVIDED
Number of Travel Lanes	TWO
Roadway Alignment	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	Dodge Caravan
Year	1998
Class	PASSENGER CAR
Body Type	MINIVAN
Weight	76

Pre-Crash Driver Data

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

PASSENGER Factors

Age	10	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		Unk IF DEPLOYED

Injuries

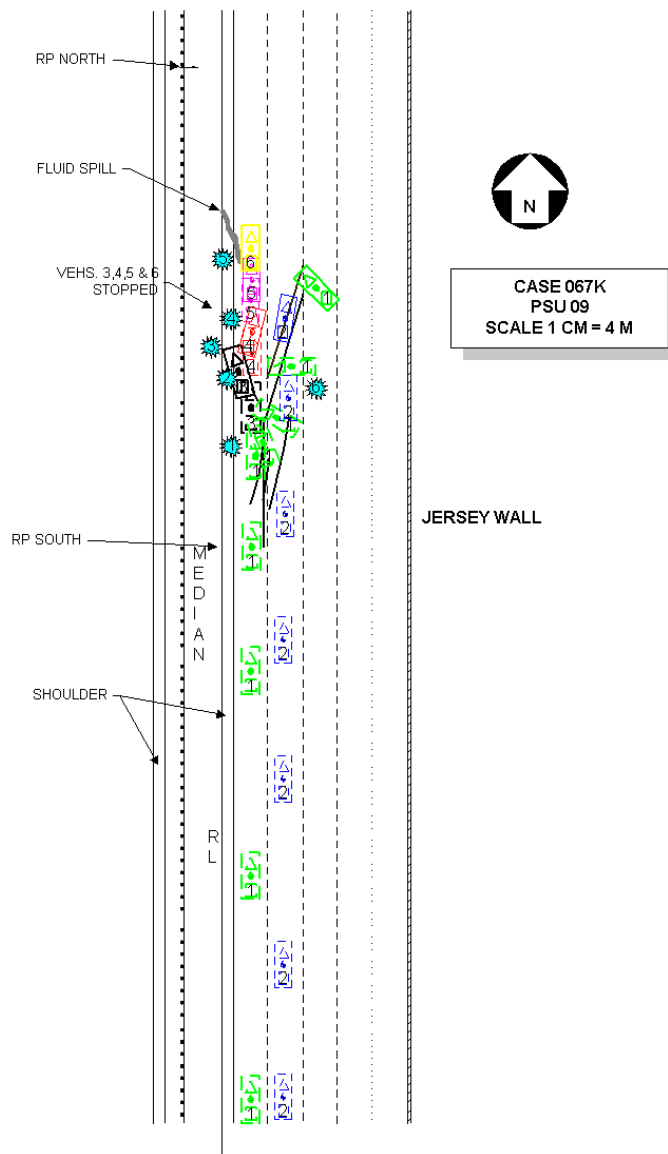
Occupant	1998-9-43-3-3
MAIS	0=None
Seat Position	Second left

AIS Level	Injury Description	Contacts
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96 Case 1998-9-67

Summary:

VEHICLES SIX, FIVE, FOUR, AND THREE WERE STOPPED IN LANE FIVE OF A FIVE LANE DIVIDED HIGHWAY (POSITIVE BARRIER). VEHICLE ONE WAS TRAVELING NORTH IN THE SAME LANE AS VEHICLE SIX THRU THREE. VEHICLE ONE STEERS RIGHT. VEHICLE ONE'S FRONT PLANE CONTACTS VEHICLE THREE'S REAR PLANE. VEHICLE THREE'S FRONT PLANE CONTACTS VEHICLE FOUR'S REAR PLANE. VEHICLE THREE CONTINUES PARTIALLY OFF THE ROAD AND CONTACTS A SMALL REFLECTOR POLE WITH IT'S FRONT PLANE. VEHICLE FOUR'S FRONT PLANE CONTACTS VEHICLE FIVE'S REAR PLANE. VEHICLE FIVE'S FRONT PLANE CONTACTS VEHICLE SIX'S REAR UNDER-CARRIAGE (THE REAR WHEELS OF VEHICLE SIX COME TO REST ON THE HOOD OF VEHICLE FIVE AT REST). VEHICLE ONE, AFTER COLLIDING WITH VEHICLE THREE, ROTATES COUNTER-CLOCKWISE AND SPINS INTO LANE NUMBER FOUR FACING WEST. VEHICLE TWO, TRAVELING NORTH IN LANE NUMBER FOUR, CONTACTS VEHICLE ONE'S LEFT SIDE PLANE WITH IT'S FRONT PLANE. ALL VEHICLES COME TO REST. VEHICLES ONE, TWO AND THREE ARE TOWED DUE TO DAMAGE. VEHICLE FOUR IS TOWED (OPERATOR TRANSPORTED TO HOSPITAL). VEHICLES FIVE AND SIX ARE DRIVEN AWAY BY THEIR DRIVERS. THE DRIVER AND SOLE OCCUPANT OF VEHICLE ONE IS TRANSPORTED AND HOSPITALIZED WITH INCAPCIATATING INJURIES. THE DRIVERS AND SOLE OCCUPANTS OF VEHICLES TWO AND THREE ARE TRANSPORTED, TREATED, AND RELEASED.



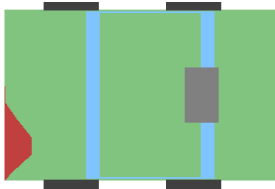
Vehicle	Body type	Make	Model	Year	Occ.#	Age	Occupant's sex	Maximum known occupant ais
1	4-DR SEDAN/HDTOP	Toyota	Camry	1992	1	35	FEMALE-NOT PREG	5=Critical
2	4-DR SEDAN/HDTOP	Chevrolet	Cavalier	1994	1	35	FEMALE-NOT PREG	2=Moderate
3	4-DR SEDAN/HDTOP	Dodge	Intrepid	1996	1	57	MALE	1=Minor

Occupant: 1998-9-67-1-1



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	FIVE
Roadway Alignment	STRAIGHT
Roadway Profile	DOWNHILL GRADE
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	No rollover
Impact Speed	998
Total, Longitudal, and Lateral δV	51 -51 9
Est. δV with sequence number	DELTA V CODED 1
CDC	12 F Y E W 2
Damage (C1-C6)	12 39 39 19 2 0
Crush (L and D)	150 -29
Object Contacted 1	VEHICLE NO. 3
Object Contacted 2	VEHICLE NO. 2

NASS Weighting Factor

Weighting factor	29.985876161
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Rollover Characteristics

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

Vehicle Factors

Make-Model	Toyota Camry
Year	1992
Class	PASSENGER CAR
Body Type	4-DR SEDAN/HDTOP
Weight	136

Pre-Crash Driver Data

Accident Type	98
Pre-event Movement	GOING STRAIGHT
Critical Pre-crash Event	STOPPED
Attempted Avoidance Manuever	No DRIVER
Pre-impact Stability	No DRIVER
Pre-impact Location	Unk IF LEFT LANE

DRIVER Factors

Age	35	Height	165	Weight	84
Gender					FEMALE-NOT PREG
Ejection					No EJECTION
Ejection Area					No EJECTION
Entrapment					Not ENTRAPPED

Restraint Factors

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

Injuries

Occupant	1998-9-67-1-1
MAIS	5=Critical
Seat Position	Front left side

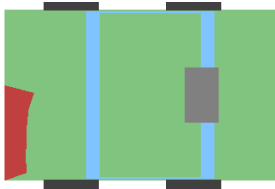
AIS Level	Injury Description	Contacts
2=Moderate	Unconsciousness <1 hour	Other noncontact
1=Minor	Abdominal skin abrasion	Belt webb/buckle
4=Severe	>3 rib fxs on one side & <3 other side & hemo-/pneumothorax	Left interior
3=Serious	Lung contusion, unilateral	Left interior
2=Moderate	Pelvic fracture NFS	Left hardware
5=Critical	Massive splenic injury (hilar disruption, tissue loss)	Left interior
1=Minor	Upper extremity skin abrasion	Belt webb/buckle
1=Minor	Thoracic skin abrasion	Belt webb/buckle
1=Minor	Leg skin abrasion	Knee bolster
1=Minor	Leg skin contusion (hematoma)	Oth interior obj

Occupant: 1998-9-67-2-1



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/W/BARRIER
Number of Travel Lanes	FIVE
Roadway Alignment	STRAIGHT
Roadway Profile	DOWNHILL GRADE
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	No rollover
Impact Speed	998
Total, Longitudal, and Lateral δV	39 -39 < 0.5 KMPH
Est. δV with sequence number	DELTA V CODED 6
CDC	12 F D E W 2
Damage (C1-C6)	33 31 33 33 36 43
Crush (L and D)	140 0
Object Contacted 1	VEHICLE NO. 1
Object Contacted 2	0

NASS Weighting Factor

Weighting factor	29.985876161
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Rollover Characteristics

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

Vehicle Factors

Make-Model	Chevrolet Cavalier
Year	1994
Class	PASSENGER CAR
Body Type	4-DR SEDAN/HDTOP
Weight	114

Pre-Crash Driver Data

Accident Type	98
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	35	Height	155	Weight	61
Gender					FEMALE-NOT PREG
Ejection					No EJECTION
Ejection Area					No EJECTION
Entrapment					Not ENTRAPPED

Restraint Factors

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

Injuries

Occupant	1998-9-67-2-1
MAIS	2=Moderate
Seat Position	Front left side

AIS Level	Injury Description	Contacts
1=Minor	Acute cervical spine strain without fracture or dislocation	Other noncontact
2=Moderate	Awake on admission, never unconscious & neuro deficit	Other noncontact
1=Minor	Thoracic skin contusion	Belt webb/buckle

Occupant: 1998-9-67-3-1



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	Right side, behind rear axle
Fuel Tank Damage	Other damage
Fuel Type	Gasoline



Crash Severity

Nr. Quarter Turns	No rollover
Impact Speed	998
Total, Longitudal, and Lateral δV	47 46 -8
Est. δV with sequence number	DELTA V CODED 1
CDC	66 B R E W 6
Damage (C1-C6)	23 50 76 108 105 114
Crush (L and D)	155 35
Object Contacted 1	VEHICLE NO. 1
Object Contacted 2	VEHICLE NO. 4

NASS Weighting Factor

Weighting factor	29.985876161
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Rollover Characteristics

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

Pre-Crash Environment

Traffic Flow	DVDED/W/BARRIER
Number of Travel Lanes	FIVE
Roadway Alignment	STRAIGHT
Roadway Profile	DOWNHILL GRADE
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

Vehicle Factors

Make-Model	Dodge Intrepid
Year	1996
Class	PASSENGER CAR
Body Type	4-DR SEDAN/HDTOP
Weight	150

Pre-Crash Driver Data

Accident Type	98
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	57	Height	178	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
PAS BAG DEPLY	
Airbag Deployment - Oth Seat	Not EQUIP W/ OTH

Injuries

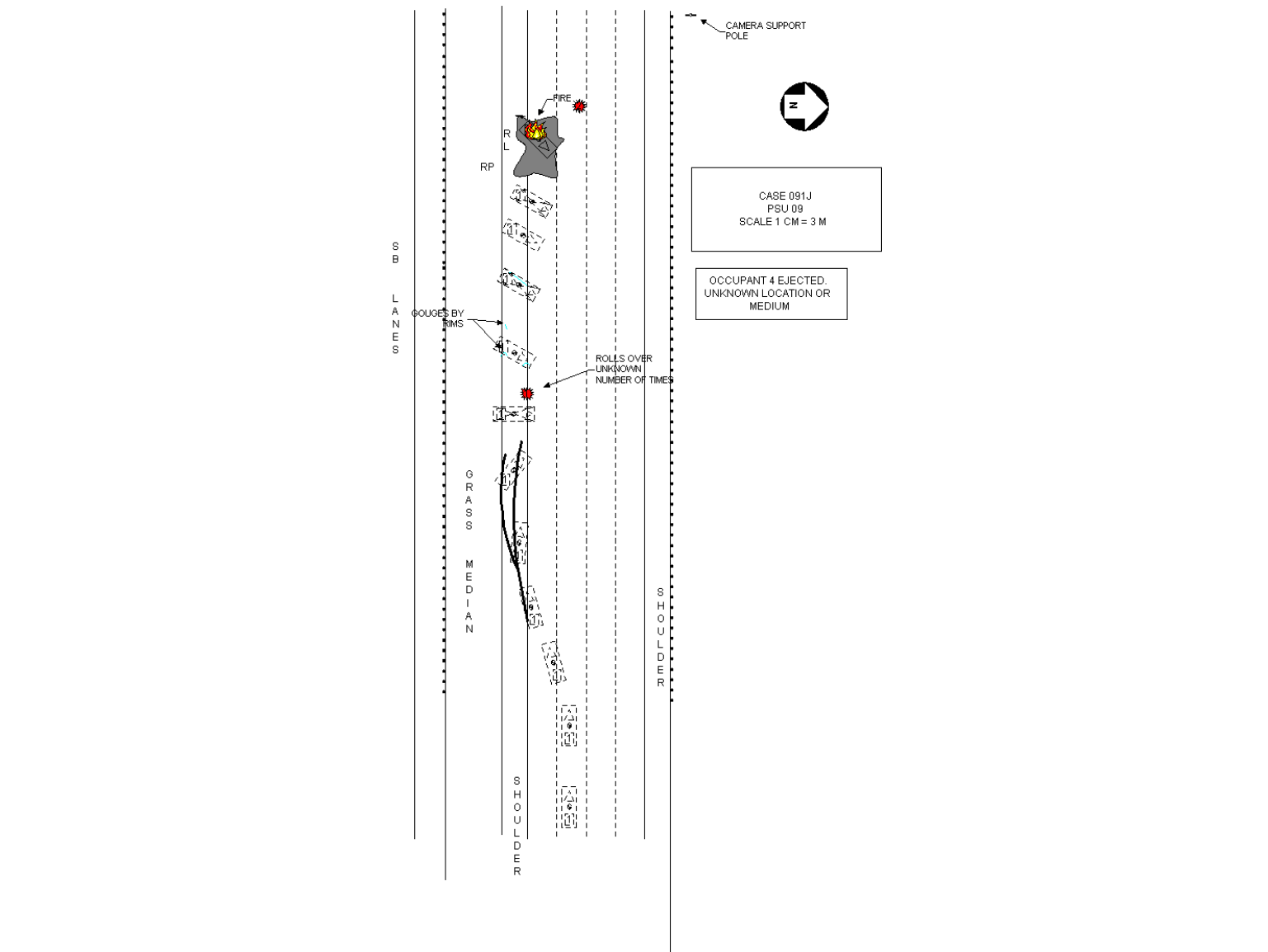
Occupant	1998-9-67-3-1
MAIS	1=Minor
Seat Position	Front left side

AIS Level	Injury Description	Contacts
1=Minor	Leg skin abrasion	Knee bolster
1=Minor	Upper extremity skin contusion	Left interior
1=Minor	Upper extremity skin abrasion	Air bag-DR side
1=Minor	Upper extremity skin laceration, minor	Left B pillar
1=Minor	Leg skin laceration, minor	Knee bolster

97 Case 1998-9-91

Summary:

VEHICLE ONE WAS TRAVELING WEST ON A FOUR LANE DIVIDED HIGHWAY IN LANE NUMBER THREE. VEHICLE ONE CRESTS A HILL AND SEES CONGESTION. VEHICLE ONE SWERVES TO THE LEFT AND DEPARTS THE ROADWAY TO THE LEFT. WHILE ON THE PAVED SHOULDER, VEHICLE ONE SWERVES RIGHT AND BRAKES. VEHICLE ONE ROLL SOVER, LEFT SIDE LEADING. THE 4TH OCCUPANT(2ND ROW CENTER) IS COMPLETELY EJECTED AND IS DEPOSITED UPON THE ROADWAY. VEHICLE ONE ROLL SOVER AN UNKNOWN NUMBER OF TIMES BEFORE COMING TO A STOP IN LANE NUMBER FOUR ON IT'S WHEELS. VEHICLE ONE THEN CATCHES FIRE AND BURNS. THE VEHICLE IS TOWED DUE TO DAMAGE. FOUR OF THE FIVE OCCUPANTS ARE TRANSPORTED, TREATED AND RELEASED. THE OCCUPANT WHO WAS EJECTED WAS TRANPORTED AND HOSPITALIZED FOR TWO DAYS. THE FIRE WAS LOCATED IN THE REAR AREA OF THE VEHICLE NEAR THE FUEL TANK/FUEL LINES. UNKNOWN CAUSE. UNKNOWN LOCATION OF FUEL LEAKAGE.



Vehicle	Body type	Make	Model	Year	Occ.#	Age	Occupant's sex	Maximum known occupant ais
1	COMPACT UTILITY	Ford	Bronco II	1998	1	35	FEMALE-NOT PREG	1=Minor
1	COMPACT UTILITY	Ford	Bronco II	1998	2	24	FEMALE-NOT PREG	1=Minor
1	COMPACT UTILITY	Ford	Bronco II	1998	3	23	MALE	1=Minor
1	COMPACT UTILITY	Ford	Bronco II	1998	4	11	FEMALE-NOT PREG	3=Serious
1	COMPACT UTILITY	Ford	Bronco II	1998	5	15	FEMALE-NOT PREG	2=Moderate

Occupant: 1998-9-91-1-1



Fire Information

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



Pre-Crash Environment

Traffic Flow	DVDED/W/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

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	0 T Z Z O 4
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	20.350087453
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Rollover Characteristics

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

Vehicle Factors

Make-Model	Ford Bronco II
Year	1998
Class	PASSENGER CAR
Body Type	COMPACT UTILITY
Weight	188

Pre-Crash Driver Data

Accident Type	7
Pre-event Movement	GOING STRAIGHT
Critical Pre-crash Event	Same DIR-DECELER
Attempted Avoidance Maneuver	Other ACTION
Pre-impact Stability	LATERAL SKID-CLK
Pre-impact Location	DEPARTED ROADWAY

DRIVER Factors

Age	35	Height	152	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	Not EQUIP W/ OTH

Injuries

Occupant	1998-9-91-1-1
MAIS	1=Minor
Seat Position	Front left side

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

Occupant: 1998-9-91-1-2



Fire Information

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



Pre-Crash Environment

Traffic Flow	DVDED/W/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

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	0 T Z Z O 4
Damage (C1-C6)	0 0 0 0 0 0
Crush (L and D)	0 0
Object Contacted 1	ROLLOVER-OVERTURN
Object Contacted 2	0

NASS Weighting Factor

Weighting factor	20.350087453
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Rollover Characteristics

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

Vehicle Factors

Make-Model	Ford Bronco II
Year	1998
Class	PASSENGER CAR
Body Type	COMPACT UTILITY
Weight	188

Pre-Crash Driver Data

Accident Type	7
Pre-event Movement	GOING STRAIGHT
Critical Pre-crash Event	Same DIR-DECELER
Attempted Avoidance Manuever	Other ACTION
Pre-impact Stability	LATERAL SKID-CLK
Pre-impact Location	DEPARTED ROADWAY

PASSENGER Factors

Age	24	Height	152	Weight	64
Gender					FEMALE-NOT PREG
Ejection					No EJECTION
Ejection Area					No EJECTION
Entrapment					Not ENTRAPPED

Restraint Factors

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

Injuries

Occupant	1998-9-91-1-2
MAIS	1=Minor
Seat Position	Front right side

AIS Level	Injury Description	Contacts
1=Minor	Acute cervical spine strain without fracture or dislocation	Other noncontact
1=Minor	Upper extremity skin abrasion	Unknown SOURCE

Occupant: 1998-9-91-1-3



Fire Information

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



Pre-Crash Environment

Traffic Flow	DVDED/W/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

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	0 T Z Z O 4
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	20.350087453
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Rollover Characteristics

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

Vehicle Factors

Make-Model	Ford Bronco II
Year	1998
Class	PASSENGER CAR
Body Type	COMPACT UTILITY
Weight	188

Pre-Crash Driver Data

Accident Type	7
Pre-event Movement	GOING STRAIGHT
Critical Pre-crash Event	Same DIR-DECELER
Attempted Avoidance Manuever	Other ACTION
Pre-impact Stability	LATERAL SKID-CLK
Pre-impact Location	DEPARTED ROADWAY

PASSENGER Factors

Age	23	Height	175	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	Not EQUIP/AVAIL
Airbag Deployment - 1 st Seat	NONDEPLOYED
Airbag Deployment - Oth Seat	Not EQUIP W/ OTH

Injuries

Occupant	1998-9-91-1-3
MAIS	1=Minor
Seat Position	Second left

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

Occupant: 1998-9-91-1-4



Fire Information

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



Pre-Crash Environment

Traffic Flow	DVDED/W/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

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	0 T Z Z O 4
Damage (C1-C6)	0 0 0 0 0 0
Crush (L and D)	0 0
Object Contacted 1	ROLLOVER-OVERTURN
Object Contacted 2	0

NASS Weighting Factor

Weighting factor	20.350087453
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Rollover Characteristics

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

Vehicle Factors

Make-Model	Ford Bronco II
Year	1998
Class	PASSENGER CAR
Body Type	COMPACT UTILITY
Weight	188

Pre-Crash Driver Data

Accident Type	7
Pre-event Movement	GOING STRAIGHT
Critical Pre-crash Event	Same DIR-DECELER
Attempted Avoidance Manuever	Other ACTION
Pre-impact Stability	LATERAL SKID-CLK
Pre-impact Location	DEPARTED ROADWAY

PASSENGER Factors

Age	11	Height	122	Weight	27
Gender					FEMALE-NOT PREG
Ejection					COMPLETE EJECT
Ejection Area					No EJECTION
Entrapment					Not ENTRAPPED

Restraint Factors

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

Injuries

Occupant	1998-9-91-1-4
MAIS	3=Serious
Seat Position	Second middle

AIS Level	Injury Description	Contacts
1=Minor	Facial skin laceration NFS	Ground
1=Minor	Facial skin abrasion	Ground
1=Minor	Scalp abrasion	Ground
1=Minor	Upper extremity skin abrasion	Ground
1=Minor	Teeth avulsion	Ground
1=Minor	Leg skin abrasion	Ground
1=Minor	Leg skin contusion (hematoma)	Ground
1=Minor	Facial skin contusion	Ground
1=Minor	Upper extremity skin laceration, minor	Ground
2=Moderate	Talus fracture	Ground
2=Moderate	Fibular head, neck, or shaft fracture	Ground
3=Serious	Tibial shaft fracture, open/displaced/comminuted	Ground
2=Moderate	Fibular head, neck, or shaft fracture	Ground
3=Serious	Tibial shaft fracture, open/displaced/comminuted	Ground
1=Minor	Upper extremity skin contusion	Ground

Occupant: 1998-9-91-1-5



Fire Information

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



Pre-Crash Environment

Traffic Flow	DVDED/W/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

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	0 T Z Z O 4
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	20.350087453
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Rollover Characteristics

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

Vehicle Factors

Make-Model	Ford Bronco II
Year	1998
Class	PASSENGER CAR
Body Type	COMPACT UTILITY
Weight	188

Pre-Crash Driver Data

Accident Type	7
Pre-event Movement	GOING STRAIGHT
Critical Pre-crash Event	Same DIR-DECELER
Attempted Avoidance Manuever	Other ACTION
Pre-impact Stability	LATERAL SKID-CLK
Pre-impact Location	DEPARTED ROADWAY

PASSENGER Factors

Age	15	Height	145	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	Not EQUIP/AVAIL
Airbag Deployment - 1 st Seat	NONDEPLOYED
Airbag Deployment - Oth Seat	Not EQUIP W/ OTH

Injuries

Occupant	1998-9-91-1-5
MAIS	2=Moderate
Seat Position	Second right

AIS Level	Injury Description	Contacts
1=Minor	Upper extremity skin abrasion	Unknown SOURCE
1=Minor	Upper extremity skin laceration NFS	Unknown SOURCE
2=Moderate	Carpus or metacarpus fracture	Unknown SOURCE