

Crash Reports

Prepared by Ken Digges

Mon Jan 16 14:29:43 2006

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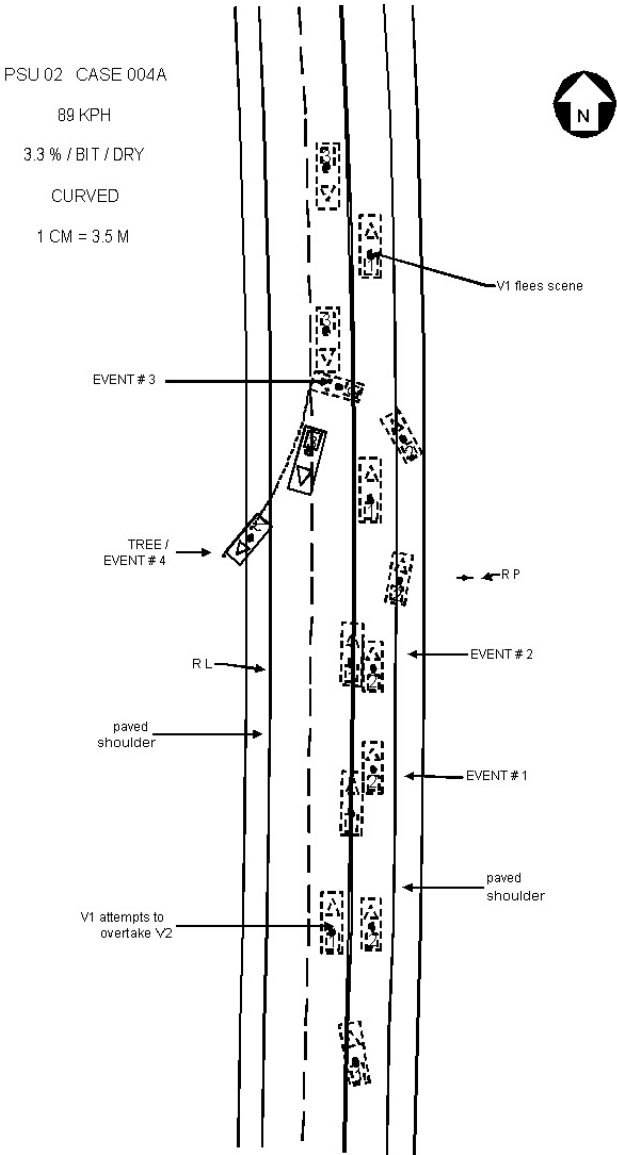
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1 Case 2004-2-4

Summary:

Vehicle 1 and vehicle 2 traveling North on an undivided three lane road negotiating a left curve on a downgrade with vehicle 1 to the rear of vehicle 2. The roadway in this area has one lane of travel for Northbound traffic and two lanes of travel for Southbound traffic. Vehicle 1 attempted to overtake vehicle 2. The right side of vehicle 1 struck the left side of vehicle 2 (EVENT 1). The vehicles traveled North a short distance and the right side of vehicle 1 struck the left side of vehicle 2 again (EVENT 2). Vehicle 1 re-entered the Northbound lane and left the scene. Vehicle 2 rotated counterclockwise after the second impact and traveled across the double yellow line and crossed into the left Southbound lane of travel. Vehicle 3 was traveling South in the left lane of travel on the same undivided three lane roadway. The front of Vehicle 3 struck the right side of vehicle 2 (EVENT 3). Vehicle 3 came to rest in the roadway. Vehicle 2 continued off the West side of the roadway and the front of vehicle 2 struck an 18 cm diameter tree (EVENT 4) and came to rest off the West side of the roadway. Vehicle 2 and vehicle 3 were towed due to damage. The driver, right front seat passenger and two rear seat passengers in vehicle 2, and the driver of vehicle 3 were transported due to injuries. The right front seat passenger in vehicle 2 expired two days later at a trauma center. The weather was clear, the road was dry and it was daylight at the time of the collision.)



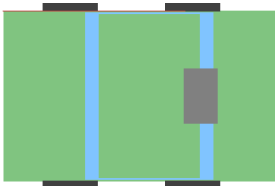
Vehicle	Body type	Make	Model	Year	Occ.#	Age	Occupant's sex	Maximum known occupant ais
2	4-DR SEDAN/HDTOP	Toyota	Corolla	2001	1	63	MALE	4=Severe
2	4-DR SEDAN/HDTOP	Toyota	Corolla	2001	2	61	FEMALE-NOT PREG	4=Severe
2	4-DR SEDAN/HDTOP	Toyota	Corolla	2001	3	11	MALE	1=Minor
2	4-DR SEDAN/HDTOP	Toyota	Corolla	2001	4	11	MALE	1=Minor
3	LARGE PICKUP	Ford	F-series P/U	1998	1	68	MALE	4=Severe

Occupant: 2004-2-4-2-1



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



Crash Severity

Nr. Quarter Turns	No rollover
Impact Speed	998
Total, Longitudal, and Lateral δV	57 -29 -49
Est. δV with sequence number	DELTA V CODED 3
CDC	2 R Y E W 99
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	37.849
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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	THREE
Roadway Alignment	CURVE LEFT
Roadway Profile	DOWNHILL GRADE
Roadway Surface Type	ASPHALT
Roadway Surface Condition	DRY
Light Conditions	DAYLIGHT
Atmospheric Conditions	No ADVERSE COND
Relation to Intersection	NONINTER/NONJUNC
Traffic Control Device	
Police Reported Alcohol Presence	No ALCOHOL
Alcohol Test (< 95 indicates BAC 0.xx)	96

Vehicle Factors

Make-Model	Toyota Corolla
Year	2001
Class	PASSENGER CAR
Body Type	4-DR SEDAN/HDTOP
Weight	109

Pre-Crash Driver Data

Accident Type	45
Pre-event Movement	NEGOTIATE CURVE
Critical Pre-crash Event	Same DIR-OV LEFT
Attempted Avoidance Maneuver	99
Pre-impact Stability	9
Pre-impact Location	STAYED IN LANE

DRIVER Factors

Age	63	Height	175	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	BAG DEPLOYED
Airbag Deployment - 1 st Seat	DR
PAS BAG DEPLY	
Airbag Deployment - Oth Seat	Not EQUIP W/ OTH

Injuries

Occupant	2004-2-4-2-1
MAIS	4=Severe
Seat Position	Front left side

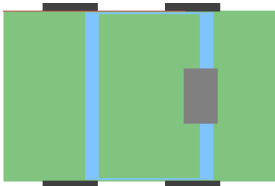
AIS Level	Injury Description	Contacts
1=Minor	Thoracic skin contusion	Unknown SOURCE
1=Minor	Facial skin contusion	Unknown SOURCE
1=Minor	Upper extremity skin contusion	Unknown SOURCE
2=Moderate	Acromioclavicular joint dislocation	Unknown SOURCE
4=Severe	Cerebral subdural hematoma, small (<50ccs)	Unknown SOURCE
4=Severe	Intracerebral hematoma, small petechial hemorrhage	Unknown SOURCE
3=Serious	Cerebral subarachnoid hemorrhage	Unknown SOURCE

Occupant: 2004-2-4-2-2



Fire Information

Fire Occurence	No fire
Fire Origin	No fire
Location of Fuel Leakage	No fuel leakage
Type of Fuel Tank	Metallic
Fuel Tank Location	Forward of rear axle, 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	57 -29 -49
Est. δV with sequence number	DELTA V CODED 3
CDC	2 R Y E W 99
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	37.849
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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	THREE
Roadway Alignment	CURVE LEFT
Roadway Profile	DOWNHILL GRADE
Roadway Surface Type	ASPHALT
Roadway Surface Condition	DRY
Light Conditions	DAYLIGHT
Atmospheric Conditions	No ADVERSE COND
Relation to Intersection	NONINTER/NONJUNC
Traffic Control Device	
Police Reported Alcohol Presence	No ALCOHOL
Alcohol Test (< 95 indicates BAC 0.xx)	96

Vehicle Factors

Make-Model	Toyota Corolla
Year	2001
Class	PASSENGER CAR
Body Type	4-DR SEDAN/HDTOP
Weight	109

Pre-Crash Driver Data

Accident Type	45
Pre-event Movement	NEGOTIATE CURVE
Critical Pre-crash Event	Same DIR-OV LEFT
Attempted Avoidance Maneuver	99
Pre-impact Stability	9
Pre-impact Location	STAYED IN LANE

PASSENGER Factors

Age	61	Height	168	Weight	66
Gender					FEMALE-NOT PREG
Ejection					9
Ejection Area					9
Entrapment					9

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	2004-2-4-2-2
MAIS	4=Severe
Seat Position	Front right side

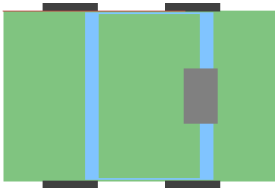
AIS Level	Injury Description	Contacts
2=Moderate	Scalp avulsion, major (>100 cms ² , blood loss <204=Severe	Cerebral intraventricular hemorrhage
Unknown SOURCE 3=Serious	Cerebral brain swelling, NFS	Unknown SOURCE
2=Moderate	Orbit fracture NFS	Unknown SOURCE
2=Moderate	Clavicle fracture	Unknown SOURCE
3=Serious	Tibial shaft fracture, open/displaced/comminuted	Unknown SOURCE
2=Moderate	851605	Unknown SOURCE
2=Moderate	C-spine dislocation no bone or cord involvement NFS	Unknown SOURCE

Occupant: 2004-2-4-2-3



Fire Information

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



Crash Severity

Nr. Quarter Turns	No rollover
Impact Speed	998
Total, Longitudal, and Lateral δV	57 -29 -49
Est. δV with sequence number	DELTA V CODED 3
CDC	2 R Y E W 99
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	37.849
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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	THREE
Roadway Alignment	CURVE LEFT
Roadway Profile	DOWNHILL GRADE
Roadway Surface Type	ASPHALT
Roadway Surface Condition	DRY
Light Conditions	DAYLIGHT
Atmospheric Conditions	No ADVERSE COND
Relation to Intersection	NONINTER/NONJUNC
Traffic Control Device	
Police Reported Alcohol Presence	No ALCOHOL
Alcohol Test (< 95 indicates BAC 0.xx)	96

Vehicle Factors

Make-Model	Toyota Corolla
Year	2001
Class	PASSENGER CAR
Body Type	4-DR SEDAN/HDTOP
Weight	109

Pre-Crash Driver Data

Accident Type	45
Pre-event Movement	NEGOTIATE CURVE
Critical Pre-crash Event	Same DIR-OV LEFT
Attempted Avoidance Maneuver	99
Pre-impact Stability	9
Pre-impact Location	STAYED IN LANE

PASSENGER Factors

Age	11	Height	157	Weight	48
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	2004-2-4-2-3
MAIS	1=Minor
Seat Position	Second middle

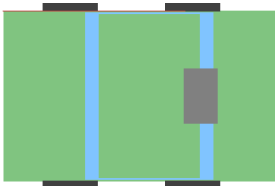
AIS Level	Injury Description	Contacts
1=Minor	Facial skin abrasion	Unknown SOURCE
1=Minor	Leg skin contusion (hematoma)	Belt webb/buckle
1=Minor	Abdominal skin abrasion	Unknown SOURCE
1=Minor	Upper extremity skin contusion	Belt webb/buckle
1=Minor	Leg skin abrasion	Belt webb/buckle

Occupant: 2004-2-4-2-4



Fire Information

Fire Occurence	No fire
Fire Origin	No fire
Location of Fuel Leakage	No fuel leakage
Type of Fuel Tank	Metallic
Fuel Tank Location	Forward of rear axle, 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	57 -29 -49
Est. δV with sequence number	DELTA V CODED 3
CDC	2 R Y E W 99
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	37.849
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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	THREE
Roadway Alignment	CURVE LEFT
Roadway Profile	DOWNHILL GRADE
Roadway Surface Type	ASPHALT
Roadway Surface Condition	DRY
Light Conditions	DAYLIGHT
Atmospheric Conditions	No ADVERSE COND
Relation to Intersection	NONINTER/NONJUNC
Traffic Control Device	
Police Reported Alcohol Presence	No ALCOHOL
Alcohol Test (< 95 indicates BAC 0.xx)	96

Vehicle Factors

Make-Model	Toyota Corolla
Year	2001
Class	PASSENGER CAR
Body Type	4-DR SEDAN/HDTOP
Weight	109

Pre-Crash Driver Data

Accident Type	45
Pre-event Movement	NEGOTIATE CURVE
Critical Pre-crash Event	Same DIR-OV LEFT
Attempted Avoidance Maneuver	99
Pre-impact Stability	9
Pre-impact Location	STAYED IN LANE

PASSENGER Factors

Age	11	Height	160	Weight	48
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	2004-2-4-2-4
MAIS	1=Minor
Seat Position	Second right

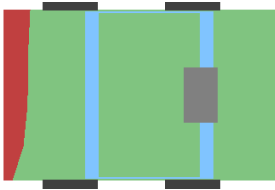
AIS Level	Injury Description	Contacts
1=Minor	Facial skin abrasion	Unknown SOURCE
1=Minor	Leg skin abrasion	Belt webb/buckle

Occupant: 2004-2-4-3-1



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	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	THREE
Roadway Alignment	CURVE RIGHT
Roadway Profile	UPHILL GRADE
Roadway Surface Type	ASPHALT
Roadway Surface Condition	DRY
Light Conditions	DAYLIGHT
Atmospheric Conditions	No ADVERSE COND
Relation to Intersection	NONINTER/NONJUNC
Traffic Control Device	
Police Reported Alcohol Presence	No ALCOHOL
Alcohol Test (< 95 indicates BAC 0.xx)	96

Crash Severity

Nr. Quarter Turns	No rollover
Impact Speed	998
Total, Longitudal, and Lateral δV	42 -40 14
Est. δV with sequence number	DELTA V CODED 3
CDC	11 F D E W 2
Damage (C1-C6)	13 29 34 37 37 39
Crush (L and D)	160 0
Object Contacted 1	VEHICLE NO. 2
Object Contacted 2	0

NASS Weighting Factor

Weighting factor	37.849
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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 F-series P/U
Year	1998
Class	TRUCK
Body Type	LARGE PICKUP
Weight	172

Pre-Crash Driver Data

Accident Type	98
Pre-event Movement	NEGOTIATE CURVE
Critical Pre-crash Event	OPP DIR-OVR LEFT
Attempted Avoidance Manuever	99
Pre-impact Stability	9
Pre-impact Location	STAYED IN LANE

DRIVER Factors

Age	68	Height	188	Weight	110
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

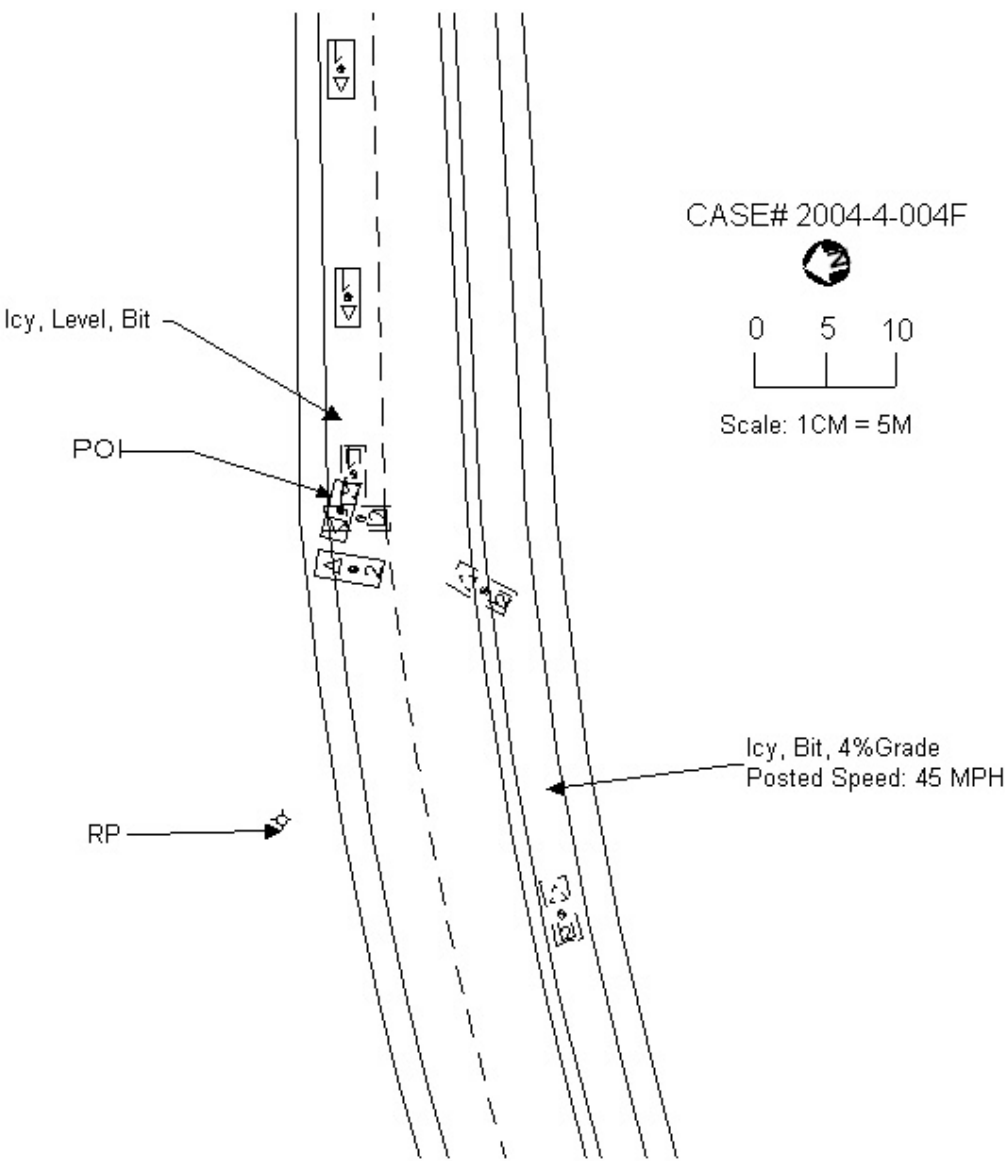
Injuries

Occupant	2004-2-4-3-1
MAIS	4=Severe
Seat Position	Front left side

AIS Level	Injury Description	Contacts
4=Severe	Cerebral subdural hematoma, small (<50ccs)	Windshield
1=Minor	Upper extremity skin abrasion	Air bag-DR side
1=Minor	Leg skin abrasion	Knee bolster
1=Minor	Leg skin contusion (hematoma)	Knee bolster

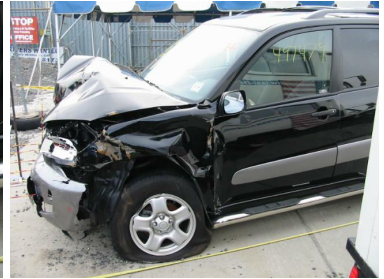
2 Case 2004-4-10

Summary:
V1 was traveling westbound in the outboard lane of an icy, bituminous, 3-lane roadway negotiating a curve left. The posted speed limit is 45MPH. V2 was traveling eastbound on the same roadway negotiating a curve right. The eastbound lane had a downhill grade of 4



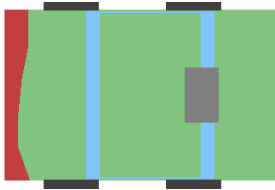
Vehicle	Body type	Make	Model	Year	OccAge	Occupant's sex	Maximum known occupant ais
1	COMPACT UTILITY	Toyota	RAV-4	2003	54	FEMALE-NOT PREG	3=Serious
2	CONVERTIBLE	Mercedes	300-560 SL 2-pass	1985	18	FEMALE-NOT PREG	3=Serious

Occupant: 2004-4-10-1-1



Fire Information

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



Pre-Crash Environment

Traffic Flow	Not DIVIDED
Number of Travel Lanes	THREE
Roadway Alignment	CURVE LEFT
Roadway Profile	LEVEL
Roadway Surface Type	ASPHALT
Roadway Surface Condition	ICE
Light Conditions	DAYLIGHT
Atmospheric Conditions	9
Relation to Intersection	NONINTER/NONJUNC
Traffic Control Device	
Police Reported Alcohol Presence	No ALCOHOL
Alcohol Test (< 95 indicates BAC 0.xx)	96

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	12 F D E W 2
Damage (C1-C6)	37 19 20 26 35 36
Crush (L and D)	146 0
Object Contacted 1	VEHICLE NO. 2
Object Contacted 2	0

NASS Weighting Factor

Weighting factor	28.846
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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 RAV-4
Year	2003
Class	TRUCK
Body Type	COMPACT UTILITY
Weight	131

Pre-Crash Driver Data

Accident Type	66
Pre-event Movement	NEGOTIATE CURVE
Critical Pre-crash Event	OPP DIR-OVR LEFT
Attempted Avoidance Manuever	BRAKE+STEER RT
Pre-impact Stability	TRACKING
Pre-impact Location	STAYED IN LANE

DRIVER Factors

Age	54	Height	175	Weight	63
Gender					FEMALE-NOT PREG
Ejection					No EJECTION
Ejection Area					No EJECTION
Entrapment					Not ENTRAPPED

Restraint Factors

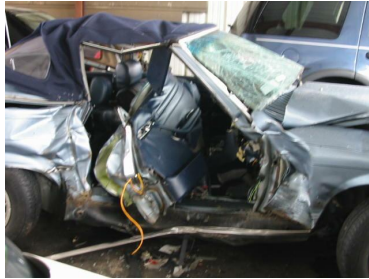
Restrain	Lap and shoulder
AOPS	YES-RES DET
Airbag Deployment	BAG DEPLOYED
Airbag Deployment - 1 st Seat	DR
PAS BAG DEPLY	
Airbag Deployment - Oth Seat	Not EQUIP W/ OTH

Injuries

Occupant	2004-4-10-1-1
MAIS	3=Serious
Seat Position	Front left side

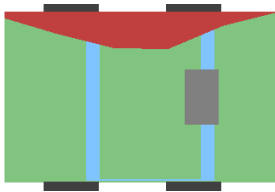
AIS Level	Injury Description	Contacts
2=Moderate	Tibial fracture of the medial malleolus	Foot controls
2=Moderate	Lumbar fracture of vertebral body <202=Moderate	Clavicle fracture
Belt webb/buckle		
2=Moderate	Patellar fracture	Knee bolster
3=Serious	Thoracic cavity injury NFS, with hemo-/pneumothorax	Belt webb/buckle
1=Minor	Facial skin abrasion	Air bag-DR side
1=Minor	Facial skin contusion	Air bag-DR side
1=Minor	Upper extremity skin abrasion	Air bag-DR side
1=Minor	Leg skin contusion (hematoma)	Belt webb/buckle
2=Moderate	Awake on admission, prior unconscious, length NFS	Other noncontact
1=Minor	Upper extremity skin contusion	Belt webb/buckle
1=Minor	Thoracic skin contusion	Belt webb/buckle
1=Minor	Leg skin contusion (hematoma)	Knee bolster
1=Minor	Leg skin contusion (hematoma)	Floor
1=Minor	Abdominal skin contusion	Belt webb/buckle

Occupant: 2004-4-10-2-1



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	THREE
Roadway Alignment	CURVE RIGHT
Roadway Profile	DOWNHILL GRADE
Roadway Surface Type	ASPHALT
Roadway Surface Condition	ICE
Light Conditions	DAYLIGHT
Atmospheric Conditions	9
Relation to Intersection	NONINTER/NONJUNC
Traffic Control Device	
Police Reported Alcohol Presence	No ALCOHOL
Alcohol Test (< 95 indicates BAC 0.xx)	96

Crash Severity

Nr. Quarter Turns	No rollover
Impact Speed	998
Total, Longitudal, and Lateral δV	37 -24 -28
Est. δV with sequence number	DELTA V CODED 1
CDC	2 R D A W 4
Damage (C1-C6)	0 19 53 52 32 8
Crush (L and D)	240 -10
Object Contacted 1	VEHICLE NO. 1
Object Contacted 2	0

NASS Weighting Factor

Weighting factor	28.846
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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	Mercedes 300-560 SL 2-pass
Year	1985
Class	PASSENGER CAR
Body Type	CONVERTIBLE
Weight	169

Pre-Crash Driver Data

Accident Type	66
Pre-event Movement	NEGOTIATE CURVE
Critical Pre-crash Event	POOR ROAD CONDIT
Attempted Avoidance Manuever	No AVOIDANCE
Pre-impact Stability	LAT SKID-CTR CLK
Pre-impact Location	Left TRAVEL LANE

DRIVER Factors

Age	18	Height	163	Weight	59
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

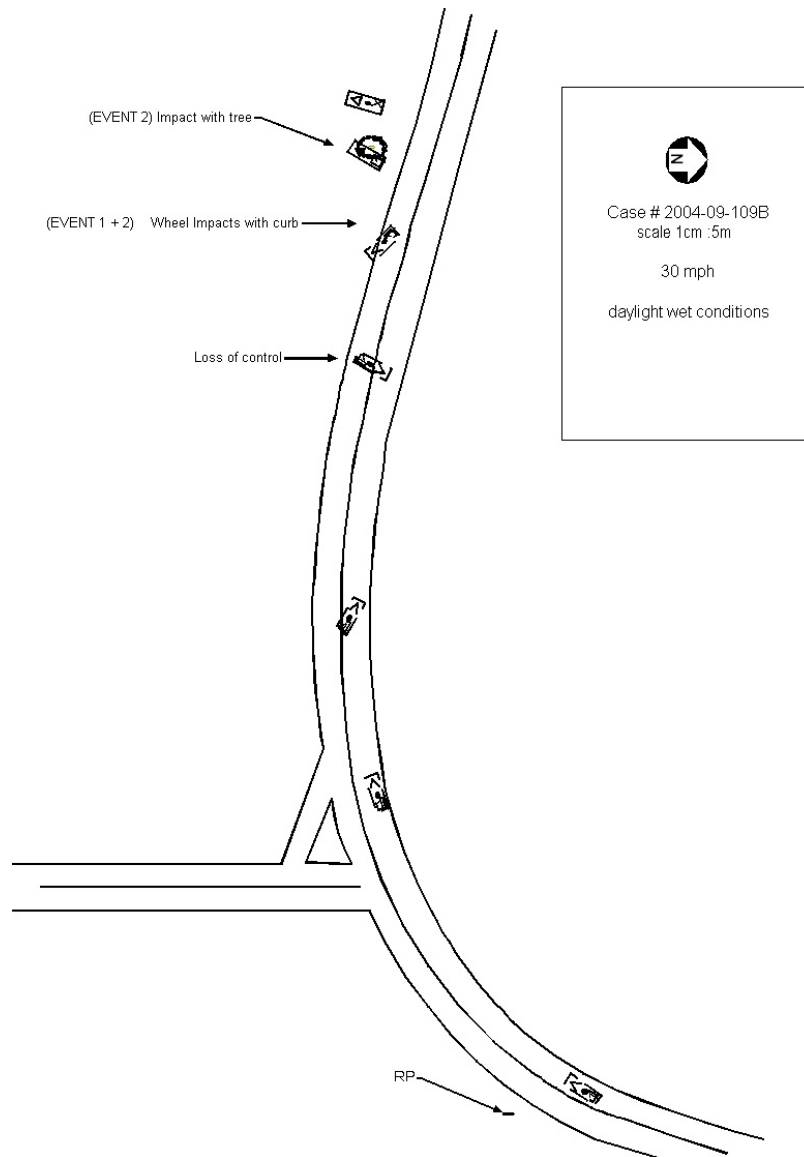
Occupant	2004-4-10-2-1
MAIS	3=Serious
Seat Position	Front left side

AIS Level	Injury Description	Contacts
3=Serious	Splenic laceration, moderate (>3 cms deep, no hilar injury)	Belt webb/buckle
2=Moderate	Lumbar fracture of transverse process without cord injury	Oth interior obj
2=Moderate	Lumbar fracture of transverse process without cord injury	Oth interior obj
2=Moderate	Lumbar fracture of transverse process without cord injury	Oth interior obj
2=Moderate	Lumbar fracture of transverse process without cord injury	Oth interior obj
2=Moderate	Lumbar fracture of transverse process without cord injury	Oth interior obj
2=Moderate	Awake on admission, prior unconscious, length NFS	Other noncontact
1=Minor	Leg skin contusion (hematoma)	Unknown SOURCE
2=Moderate	Splenic contusion NFS	Belt webb/buckle
1=Minor	690402	Oth interior obj
1=Minor	Facial skin abrasion	Flying glass

3 Case 2004-9-109

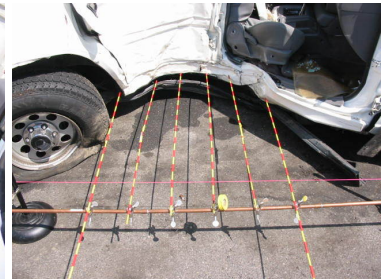
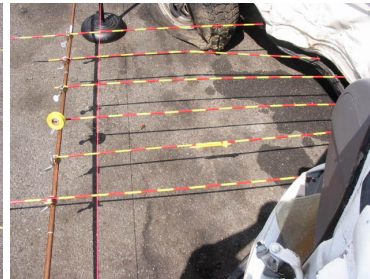
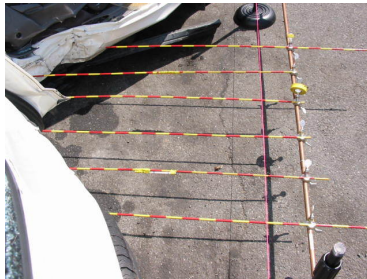
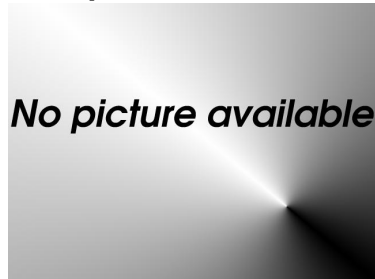
Summary:

V1 was traveling southbound on a two-lane, two-way roadway and was negotiating a sharp curve to the right on wet roads. V1 lost control, began a clockwise rotation for approximately 270 degrees and stuck a curb with both right side wheels. V1 continued off the roadway and made contact to a tree with its right side plane before coming to rest. V1 had two occupants. The restrained driver was transported with incapacitating injuries. The unrestrained FR occupant sustained fatal injuries. This vehicle was equipped with dual front air bags which did not deploy. V1 was towed due to damage.)



Vehicle	Body type	Make	Model	Year	Occ.#	Age	Occupant's sex	Maximum known occupant ais
1	COMPACT UTILITY	Isuzu	Rodeo	1995	1	57	MALE	4=Severe
1	COMPACT UTILITY	Isuzu	Rodeo	1995	2	53	FEMALE-NOT PREG	6=Maximum

Occupant: 2004-9-109-1-1



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



Crash Severity

Nr. Quarter Turns	No rollover
Impact Speed	998
Total, Longitudal, and Lateral δV	48 -16 -45
Est. δV with sequence number	DELTA V CODED 3
CDC	2 R P A W 6
Damage (C1-C6)	66 92 96 96 88 65
Crush (L and D)	85 -30
Object Contacted 1	LARGE TREE
Object Contacted 2	CURB

NASS Weighting Factor

Weighting factor	28.010
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Rollover Characteristics

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

Pre-Crash Environment

Traffic Flow	Not DIVIDED
Number of Travel Lanes	TWO
Roadway Alignment	CURVE RIGHT
Roadway Profile	DOWNHILL GRADE
Roadway Surface Type	ASPHALT
Roadway Surface Condition	WET
Light Conditions	DARK
Atmospheric Conditions	RAIN
Relation to Intersection	NONINTER/NONJUNC
Traffic Control Device	
Police Reported Alcohol Presence	No ALCOHOL
Alcohol Test (< 95 indicates BAC 0.xx)	96

Vehicle Factors

Make-Model	Isuzu Rodeo
Year	1995
Class	TRUCK
Body Type	COMPACT UTILITY
Weight	211

Pre-Crash Driver Data

Accident Type	7
Pre-event Movement	NEGOTIATE CURVE
Critical Pre-crash Event	TRAVEL TOO FAST
Attempted Avoidance Manuever	BRAKE+STEER LEFT
Pre-impact Stability	LATERAL SKID-CLK
Pre-impact Location	DEPARTED ROADWAY

DRIVER Factors

Age	57	Height	175	Weight	79
Gender					MALE
Ejection					No EJECTION
Ejection Area					No EJECTION
Entrapment					Not ENTRAPPED

Restraint Factors

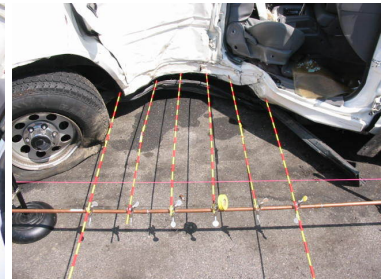
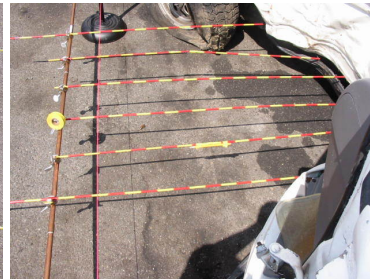
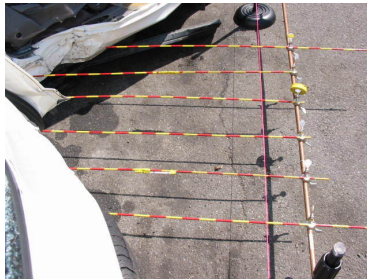
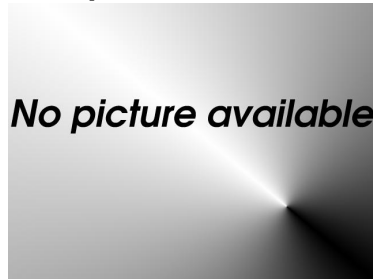
Restrain	Lap and shoulder
AOPS	YES-RES DET
Airbag Deployment	NONDEPLOYED
Airbag Deployment - 1 st Seat	NONDEPLOYED
Airbag Deployment - Oth Seat	Not EQUIP W/ OTH

Injuries

Occupant	2004-9-109-1-1
MAIS	4=Severe
Seat Position	Front left side

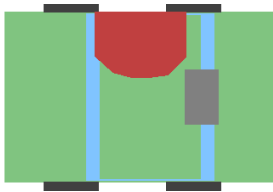
AIS Level	Injury Description	Contacts
1=Minor	Scalp laceration, NFS	Head restraint
1=Minor	Upper extremity skin contusion	Other occupants
1=Minor	Leg skin contusion (hematoma)	Other occupants
1=Minor	Thoracic skin contusion	Transmiss lever
1=Minor	Abdominal skin contusion	Transmiss lever
3=Serious	Cerebral subarachnoid hemorrhage	Head restraint
4=Severe	Cerebral intraventricular hemorrhage	Head restraint
3=Serious	450211	Transmiss lever
2=Moderate	Hepatic laceration NFS	Transmiss lever
2=Moderate	Thoracic spinous process fracture without cord injury	Transmiss lever
4=Severe	Cerebral hematoma, NFS	Head restraint

Occupant: 2004-9-109-1-2



Fire Information

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



Crash Severity

Nr. Quarter Turns	No rollover
Impact Speed	998
Total, Longitudal, and Lateral δV	48 -16 -45
Est. δV with sequence number	DELTA V CODED 3
CDC	2 R P A W 6
Damage (C1-C6)	66 92 96 96 88 65
Crush (L and D)	85 -30
Object Contacted 1	LARGE TREE
Object Contacted 2	CURB

NASS Weighting Factor

Weighting factor	28.010
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Rollover Characteristics

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

Pre-Crash Environment

Traffic Flow	Not DIVIDED
Number of Travel Lanes	TWO
Roadway Alignment	CURVE RIGHT
Roadway Profile	DOWNHILL GRADE
Roadway Surface Type	ASPHALT
Roadway Surface Condition	WET
Light Conditions	DARK
Atmospheric Conditions	RAIN
Relation to Intersection	NONINTER/NONJUNC
Traffic Control Device	
Police Reported Alcohol Presence	No ALCOHOL
Alcohol Test (< 95 indicates BAC 0.xx)	96

Vehicle Factors

Make-Model	Isuzu Rodeo
Year	1995
Class	TRUCK
Body Type	COMPACT UTILITY
Weight	211

Pre-Crash Driver Data

Accident Type	7
Pre-event Movement	NEGOTIATE CURVE
Critical Pre-crash Event	TRAVEL TOO FAST
Attempted Avoidance Manuever	BRAKE+STEER LEFT
Pre-impact Stability	LATERAL SKID-CLK
Pre-impact Location	DEPARTED ROADWAY

PASSENGER Factors

Age	53	Height	160	Weight	63
Gender					FEMALE-NOT PREG
Ejection					PARTIAL EJECTION
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

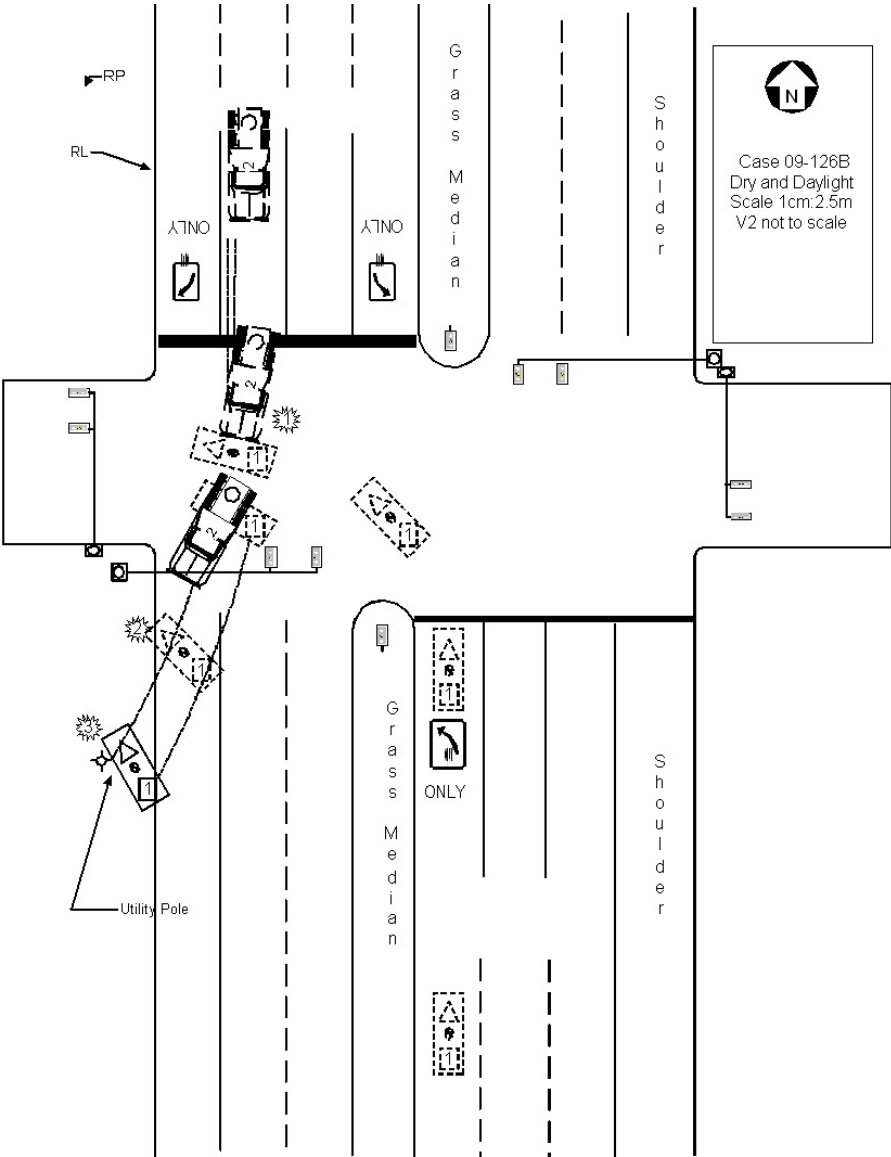
Occupant	2004-9-109-1-2
MAIS	6=Maximum
Seat Position	Front right side

AIS Level	Injury Description	Contacts
1=Minor	Facial skin laceration, minor	Right B pillar
1=Minor	Facial skin contusion	Right B pillar
1=Minor	Facial skin abrasion	Seat, back
1=Minor	Facial skin abrasion	Right B pillar
1=Minor	Thoracic skin abrasion	Right interior
1=Minor	Abdominal skin contusion	Right interior
1=Minor	690202	Seat, back
1=Minor	Neck skin abrasion	Right B pillar
1=Minor	Leg skin contusion (hematoma)	Transmiss lever
1=Minor	Upper extremity skin contusion	Transmiss lever
1=Minor	Upper extremity skin abrasion	Transmiss lever
1=Minor	Upper extremity skin abrasion	Flying glass
1=Minor	Leg skin abrasion	Transmiss lever
1=Minor	Scalp contusion	Right B pillar
6=Maximum	Brain stem laceration	Right B pillar
5=Critical	Brainstem contusion	Right B pillar
3=Serious	Cerebral subarachnoid hemorrhage	Right B pillar
3=Serious	Cerebral subarachnoid hemorrhage	Right B pillar
4=Severe	Basilar skull fracture, open, with brain tissue loss.	Right B pillar
6=Maximum	Cord laceration, complete, C3 or above, with fx&dislocation	Right B pillar
5=Critical	Thoracic aortic laceration, major NFS	Right interior
4=Severe	Abdominal aorta laceration, NFS	Right interior
2=Moderate	Hepatic laceration NFS	Right interior
2=Moderate	Splenic laceration NFS	Transmiss lever
3=Serious	Diaphragm laceration or rupture	Transmiss lever
5=Critical	Lung laceration, bilateral, with blood loss >204=Severe	Lung contusion, bilateral
Right interior		
2=Moderate	Kidney laceration NFS	Transmiss lever
2=Moderate	Pelvic fracture NFS	Right interior
4=Severe	>3 rib fxs on each side, stable chest	Right interior
1=Minor	Leg skin contusion (hematoma)	Seat, back

4 Case 2004-9-126

Summary:

V1 was traveling northbound during daylight hours on a dry, three-lane divided highway with a left turn lane. V2, a medium/heavy truck, was southbound on the same roadway approaching the same intersection intending to go straight. V2 was in lane 2. V1 attempted to turn left at the same time V2 was entering the intersection. V2 contacted V1's right side with its front. After the initial impact, V1 deflected off of V2 toward a curb and power pole on the west shoulder and contacted both with its left wheel and side respectively. V2 came to rest just south of the intersection. Both V1 and V2 were towed due to damage. The driver of V1 sustained fatal injuries.)



Vehicle	Body type	Make	Model	Year	Occ.#	Age	Occupant's sex	Maximum known occupant ais
1	4-DR SEDAN/HDTOP	Lincoln	LS	2000	1	31	FEMALE-NOT PREG	6=Maximum

Occupant: 2004-9-126-1-1



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, on the rear axle
Fuel Tank Damage	No damage
Fuel Type	Gasoline



Crash Severity

Nr. Quarter Turns	No rollover
Impact Speed	999
Total, Longitudal, and Lateral δV	999 999 999
Est. δV with sequence number	DELTA V CODED 1
CDC	2 R P A W 6
Damage (C1-C6)	4 45 90 87 52 12
Crush (L and D)	278 19
Object Contacted 1	VEHICLE NO. 2
Object Contacted 2	CURB

NASS Weighting Factor

Weighting factor	21.060
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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	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	Lincoln LS
Year	2000
Class	PASSENGER CAR
Body Type	4-DR SEDAN/HDTOP
Weight	168

Pre-Crash Driver Data

Accident Type	68
Pre-event Movement	TURNING LEFT
Critical Pre-crash Event	TURN LEFT-INTERS
Attempted Avoidance Manuever	99
Pre-impact Stability	9
Pre-impact Location	STAYED IN LANE

DRIVER Factors

Age	31	Height	170	Weight	117
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	BAG DEPLOYED

Injuries

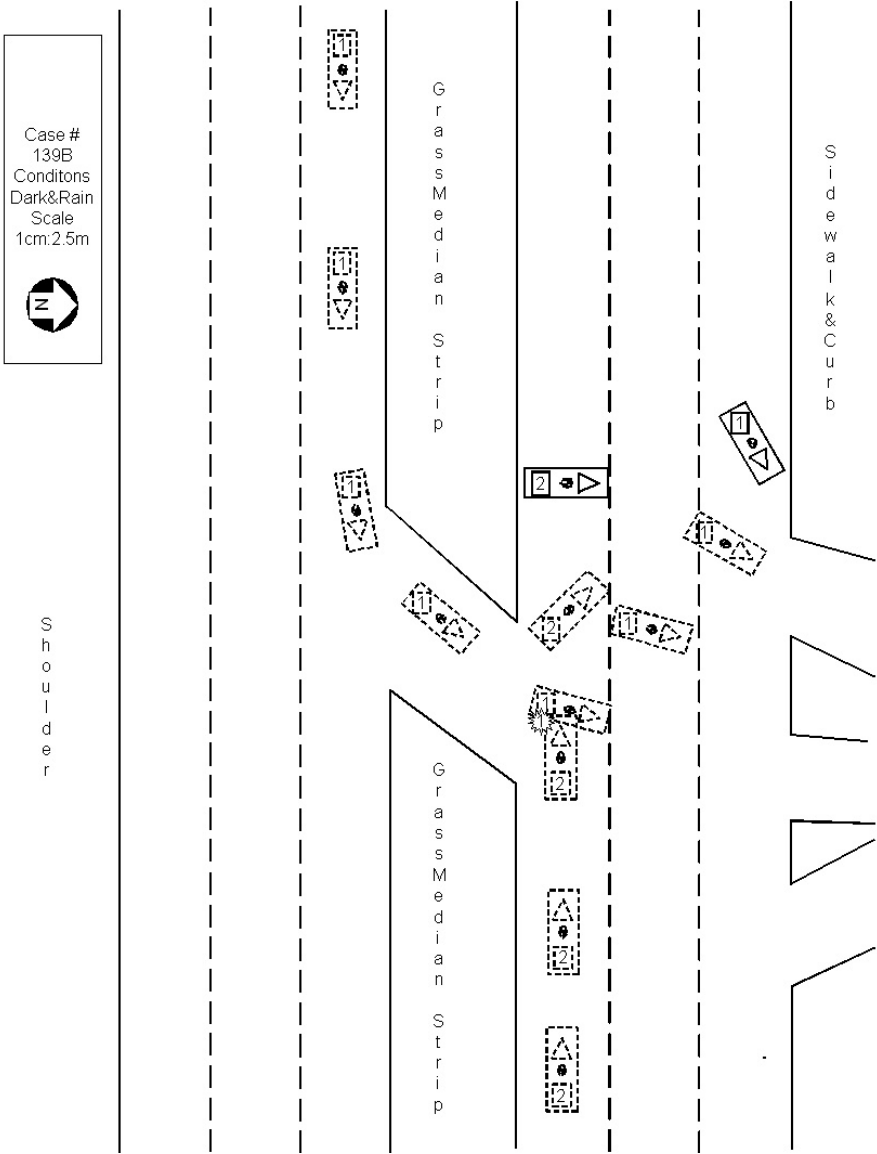
Occupant	2004-9-126-1-1
MAIS	6=Maximum
Seat Position	Front left side

AIS Level	Injury Description	Contacts
1=Minor	Facial skin laceration, minor	Flying glass
1=Minor	Facial skin laceration, minor	Flying glass
1=Minor	Scalp abrasion	Other air bag
6=Maximum	Complete cord syndrome, C3 or above, with fracture	Other noncontact
2=Moderate	Disc injury NFS	Other noncontact
1=Minor	Thoracic skin abrasion	Right interior
4=Severe	Flail chest, with lung contusion	Right interior
3=Serious	Lung laceration, unilateral NFS	Right interior
3=Serious	Hepatic laceration, moderate (>3cms deep, EBL>202=Moderate)	Kidney laceration, minor (<1cm, no urinary extravasation)
Transmiss lever		
2=Moderate	Kidney contusion, minor (subcapsular, nonexpanding)	Transmiss lever
3=Serious	Diaphragm laceration or rupture	Right interior
1=Minor	Upper extremity skin laceration, minor	Right interior
1=Minor	Leg skin abrasion	Knee bolster
1=Minor	Upper extremity skin abrasion	Flying glass

5 Case 2004-9-139

Summary:

V2 was proceeding westbound in lane 3 of a three-lane roadway, approaching an intersection. V1 was in lane 3 of a three lane roadway, headed east; V1 turned left, attempting to enter a shopping mall parking lot. V1 entered V2's path and was struck by V2. The passenger of V1 was killed. The driver of V1 and the driver of V2 were transported with incapacitating injuries. Both vehicles were towed due to damage.)



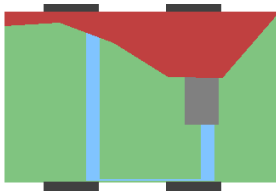
Vehicle	Body type	Make	Model	Year	Occ.#	Age	Occupant's sex	Maximum known occupant ais
1	4-DR SEDAN/HDTOP	Toyota	Camry	1997	1	20	MALE	4=Severe
1	4-DR SEDAN/HDTOP	Toyota	Camry	1997	2	16	FEMALE-NOT PREG	4=Severe
2	4-DR SEDAN/HDTOP	Mercury	Sable	2003	1	17	MALE	2=Moderate

Occupant: 2004-9-139-1-1



Fire Information

Fire Occurence	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, on the 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	57 -29 -49
Est. δV with sequence number	DELTA V CODED 1
CDC	2 R D E W 5
Damage (C1-C6)	3 96 95 45 14 20
Crush (L and D)	260 37
Object Contacted 1	VEHICLE NO. 2
Object Contacted 2	0

NASS Weighting Factor

Weighting factor	21.028
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Rollover Characteristics

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

Pre-Crash Environment

Traffic Flow	DVDED/NO BARRIER
Number of Travel Lanes	THREE
Roadway Alignment	STRAIGHT
Roadway Profile	LEVEL
Roadway Surface Type	ASPHALT
Roadway Surface Condition	WET
Light Conditions	DARK
Atmospheric Conditions	RAIN
Relation to Intersection	DRIVEWAY RELATED
Traffic Control Device	
Police Reported Alcohol Presence	No ALCOHOL
Alcohol Test (< 95 indicates BAC 0.xx)	96

Vehicle Factors

Make-Model	Toyota Camry
Year	1997
Class	PASSENGER CAR
Body Type	4-DR SEDAN/HDTOP
Weight	149

Pre-Crash Driver Data

Accident Type	68
Pre-event Movement	TURNING LEFT
Critical Pre-crash Event	TURN LEFT-INTERS
Attempted Avoidance Manuever	99
Pre-impact Stability	TRACKING
Pre-impact Location	STAYED IN LANE

DRIVER Factors

Age	20	Height	999	Weight	999
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	2004-9-139-1-1
MAIS	4=Severe
Seat Position	Front left side

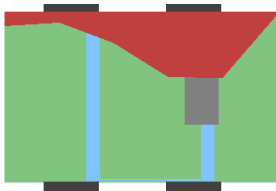
AIS Level	Injury Description	Contacts
2=Moderate	Awake on admission, prior unconscious, length NFS	Other noncontact
3=Serious	Lung contusion, uni-lateral	Transmiss lever
4=Severe	Hepatic laceration, major (<50	

Occupant: 2004-9-139-1-2



Fire Information

Fire Occurence	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, on the 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	57 -29 -49
Est. δV with sequence number	DELTA V CODED 1
CDC	2 R D E W 5
Damage (C1-C6)	3 96 95 45 14 20
Crush (L and D)	260 37
Object Contacted 1	VEHICLE NO. 2
Object Contacted 2	0

NASS Weighting Factor

Weighting factor	21.028
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Rollover Characteristics

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

Pre-Crash Environment

Traffic Flow	DVDED/NO BARRIER
Number of Travel Lanes	THREE
Roadway Alignment	STRAIGHT
Roadway Profile	LEVEL
Roadway Surface Type	ASPHALT
Roadway Surface Condition	WET
Light Conditions	DARK
Atmospheric Conditions	RAIN
Relation to Intersection	DRIVEWAY RELATED
Traffic Control Device	
Police Reported Alcohol Presence	No ALCOHOL
Alcohol Test (< 95 indicates BAC 0.xx)	96

Vehicle Factors

Make-Model	Toyota Camry
Year	1997
Class	PASSENGER CAR
Body Type	4-DR SEDAN/HDTOP
Weight	149

Pre-Crash Driver Data

Accident Type	68
Pre-event Movement	TURNING LEFT
Critical Pre-crash Event	TURN LEFT-INTERS
Attempted Avoidance Manuever	99
Pre-impact Stability	TRACKING
Pre-impact Location	STAYED IN LANE

PASSENGER Factors

Age	16	Height	168	Weight	54
Gender					FEMALE-NOT PREG
Ejection					No EJECTION
Ejection Area					No EJECTION
Entrapment					JAMMED DOOR/FIRE

Restraint Factors

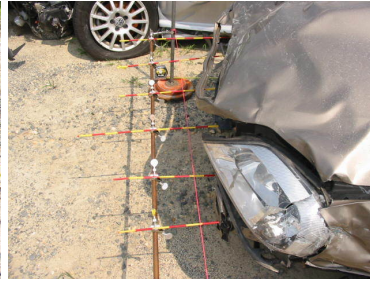
Restrain	None used/avail
AOPS	YES-RES DET
Airbag Deployment	BAG DEPLOYED
Airbag Deployment - 1 st Seat	DR
PAS BAG DEPLY	
Airbag Deployment - Oth Seat	Not EQUIP W/ OTH

Injuries

Occupant	2004-9-139-1-2
MAIS	4=Severe
Seat Position	Front right side

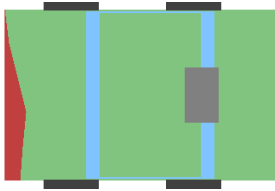
AIS Level	Injury Description	Contacts
1=Minor	Scalp laceration, minor	Right B pillar
1=Minor	297402	Right B pillar
1=Minor	297202	Right B pillar
1=Minor	Facial skin laceration, minor	Right B pillar
1=Minor	Facial skin abrasion	Right B pillar
1=Minor	Facial skin laceration, minor	Right B pillar
1=Minor	Facial skin abrasion	Right B pillar
1=Minor	Facial skin laceration, minor	Right B pillar
1=Minor	Facial skin abrasion	Right B pillar
1=Minor	Scalp contusion	Right B pillar
3=Serious	Cerebral contusions, multiple, bilateral but NFS	Right B pillar
3=Serious	Cerebral brain swelling, NFS	Right B pillar
1=Minor	Abdominal skin laceration, minor	Right B pillar
3=Serious	>3 rib fractures one side & <3 other side, with stable chest	Transmiss lever
4=Severe	Lung contusion, bilateral	Right B pillar
3=Serious	Lung laceration, unilateral NFS	Transmiss lever
2=Moderate	Hepatic laceration NFS	Right B pillar
2=Moderate	Splenic laceration NFS	Transmiss lever
3=Serious	Adrenal gland laceration, massive (avulsion, complex rupture)	Right B pillar
2=Moderate	Pelvic fracture NFS	Right interior
1=Minor	Upper extremity skin laceration, minor	Right B pillar
1=Minor	Leg skin contusion (hematoma)	Transmiss lever
1=Minor	Leg skin contusion (hematoma)	Right interior

Occupant: 2004-9-139-2-1



Fire Information

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



Pre-Crash Environment

Traffic Flow	DVDED/NO BARRIER
Number of Travel Lanes	THREE
Roadway Alignment	STRAIGHT
Roadway Profile	LEVEL
Roadway Surface Type	ASPHALT
Roadway Surface Condition	WET
Light Conditions	DARK
Atmospheric Conditions	RAIN
Relation to Intersection	DRIVEWAY RELATED
Traffic Control Device	
Police Reported Alcohol Presence	No ALCOHOL
Alcohol Test (< 95 indicates BAC 0.xx)	96

Crash Severity

Nr. Quarter Turns	No rollover
Impact Speed	998
Total, Longitudal, and Lateral δV	42 -39 14
Est. δV with sequence number	DELTA V CODED 1
CDC	71 F D E W 2
Damage (C1-C6)	23 27 32 19 7 0
Crush (L and D)	160 0
Object Contacted 1	VEHICLE NO. 1
Object Contacted 2	0

NASS Weighting Factor

Weighting factor	21.028
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Rollover Characteristics

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

Vehicle Factors

Make-Model	Mercury Sable
Year	2003
Class	PASSENGER CAR
Body Type	4-DR SEDAN/HDTOP
Weight	213

Pre-Crash Driver Data

Accident Type	69
Pre-event Movement	GOING STRAIGHT
Critical Pre-crash Event	OPP DIR-OVR LEFT
Attempted Avoidance Manuever	99
Pre-impact Stability	9
Pre-impact Location	STAYED IN LANE

DRIVER Factors

Age	17	Height	999	Weight	999
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

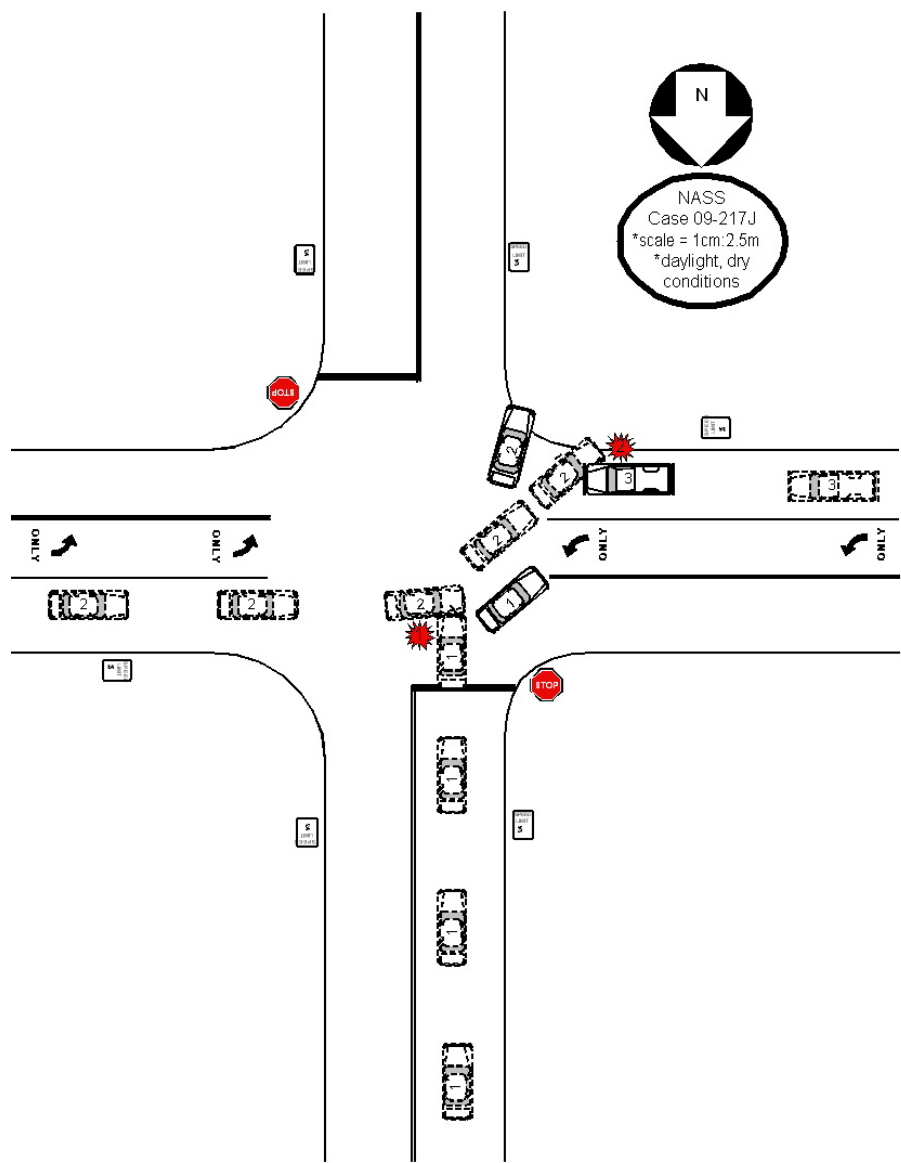
Occupant	2004-9-139-2-1
MAIS	2=Moderate
Seat Position	Front left side

AIS Level	Injury Description	Contacts
2=Moderate	Awake on admission, prior unconscious, length NFS	Other noncontact
1=Minor	Acute cervical spine strain without fracture or dislocation	Other noncontact
1=Minor	Upper extremity skin contusion	Steering rim
1=Minor	Leg skin contusion (hematoma)	Knee bolster
2=Moderate	Ankle joint dislocation NFS	Floor
2=Moderate	Knee sprain	Knee bolster
1=Minor	Ankle joint sprain	Floor
1=Minor	Wrist (carpus) joint sprain	Steering rim
1=Minor	Facial skin contusion	Air bag-DR side

6 Case 2004-9-217

Summary:

V1 was traveling south in lane one of a two lane undivided roadway, approaching an intersection. V2 was traveling west in lane one of a three lane undivided roadway, approaching the same intersection. V3 was traveling east in lane one of the same roadway as V2, also approaching the intersection. V1s front plane contacted V2s right plane in lane one of the westbound lanes. V2 then continued southwest across the intersection and V3s front plane contacted V2s right plane. V1 contained a driver and one other occupant. Both occupants were transported to the hospital via EMS (ambulance) for reported non-incapacitating injuries. Both occupants of V1 were treated and released the same day. V2 contained a driver and no other occupants. The driver was transported to the hospital via police (helicopter) for reported incapacitating injuries. The driver of V2 was admitted into the hospital for one night and released the following day. V3 contained a driver and one other occupant. Both occupants were not transported to the hospital and reported as uninjured. The passenger was treated and released from the hospital at a later time in the same day.)



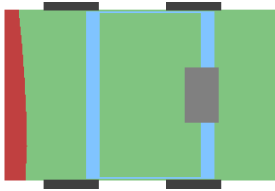
Vehicle #	Body type	Make	Model	Year	Occ.#	Age	Occupant's sex	Maximum known occupant injury
1	4-DR SEDAN/HDTOP	Dodge	Neon	2002	21	46	FEMALE-NOT PREG	1=Minor
1	4-DR SEDAN/HDTOP	Dodge	Neon	2002	22	51	FEMALE-NOT PREG	2=Moderate
2	2DR SEDAN/HT/CPE	Pontiac	J-2000/2000/Sunbird (84+)	2001	11	53	FEMALE-NOT PREG	3=Serious
3	COMPACT PICKUP	Ford	Ranger	1999	91	18	MALE	1=Minor
3	COMPACT PICKUP	Ford	Ranger	1999	92	21	MALE	1=Minor

Occupant: 2004-9-217-1-1



Fire Information

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



Crash Severity

Nr. Quarter Turns	No rollover
Impact Speed	998
Total, Longitudal, and Lateral δV	30 -28 10
Est. δV with sequence number	DELTA V CODED 1
CDC	11 F D E W 2
Damage (C1-C6)	30 33 32 29 25 21
Crush (L and D)	136 0
Object Contacted 1	VEHICLE NO. 2
Object Contacted 2	0

NASS Weighting Factor

Weighting factor	28.404
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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)	96

Vehicle Factors

Make-Model	Dodge Neon
Year	2002
Class	PASSENGER CAR
Body Type	4-DR SEDAN/HDTOP
Weight	118

Pre-Crash Driver Data

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

DRIVER Factors

Age	46	Height	170	Weight	136
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	2004-9-217-1-1
MAIS	1=Minor
Seat Position	Front left side

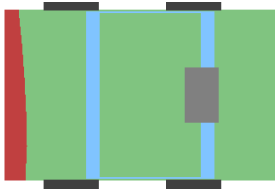
AIS Level	Injury Description	Contacts
1=Minor	Leg skin contusion (hematoma)	Knee bolster
1=Minor	Upper extremity skin contusion	Left interior
1=Minor	Upper extremity skin contusion	Belt webb/buckle
1=Minor	Thoracic skin contusion	Belt webb/buckle
1=Minor	Abdominal skin contusion	Belt webb/buckle
1=Minor	Upper extremity skin laceration, minor	Left interior
1=Minor	Wrist (carpus) joint sprain	Steering comb

Occupant: 2004-9-217-1-2



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	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)	96

Vehicle Factors

Make-Model	Dodge Neon
Year	2002
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	30 -28 10
Est. δV with sequence number	DELTA V CODED 1
CDC	11 F D E W 2
Damage (C1-C6)	30 33 32 29 25 21
Crush (L and D)	136 0
Object Contacted 1	VEHICLE NO. 2
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	28.404
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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	51	Height	165	Weight	107
Gender					FEMALE-NOT PREG
Ejection					No EJECTION
Ejection Area					No EJECTION
Entrapment					Not ENTRAPPED

Restraint Factors

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

Injuries

Occupant	2004-9-217-1-2
MAIS	2=Moderate
Seat Position	Second left

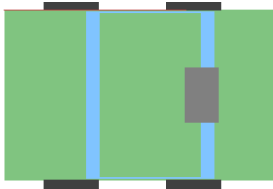
AIS Level	Injury Description	Contacts
1=Minor	Upper extremity skin contusion	Transmiss lever
1=Minor	Facial skin contusion	Head restraint
2=Moderate	Radial fracture, closed	Transmiss lever
1=Minor	Awake on admission, NFS	Head restraint

Occupant: 2004-9-217-2-1



Fire Information

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



Crash Severity

Nr. Quarter Turns	No rollover
Impact Speed	998
Total, Longitudal, and Lateral δV	42 -39 -14
Est. δV with sequence number	DELTA V CODED 2
CDC	1 R Y A W 99
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	28.404
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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	CURVE RIGHT
Roadway Profile	LEVEL
Roadway Surface Type	ASPHALT
Roadway Surface Condition	DRY
Light Conditions	DAYLIGHT
Atmospheric Conditions	No ADVERSE COND
Relation to Intersection	INTERSECTION REL
Traffic Control Device	
Police Reported Alcohol Presence	No ALCOHOL
Alcohol Test (< 95 indicates BAC 0.xx)	96

Vehicle Factors

Make-Model	Pontiac J-2000/2000/Sunbird (84+)
Year	2001
Class	PASSENGER CAR
Body Type	2DR SEDAN/HT/CPE
Weight	118

Pre-Crash Driver Data

Accident Type	87
Pre-event Movement	NEGOTIATE CURVE
Critical Pre-crash Event	XING ST-X PATH
Attempted Avoidance Manuever	99
Pre-impact Stability	TRACKING
Pre-impact Location	STAYED IN LANE

DRIVER Factors

Age	53	Height	999	Weight	999
Gender					FEMALE-NOT PREG
Ejection					No EJECTION
Ejection Area					No EJECTION
Entrapment					JAMMED DOOR/FIRE

Restraint Factors

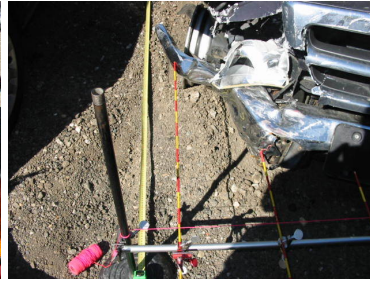
Restrain	Lap and shoulder
AOPS	YES-RES DET
Airbag Deployment	BAG DEPLOYED
Airbag Deployment - 1 st Seat	DR
PAS BAG DEPLY	
Airbag Deployment - Oth Seat	Not EQUIP W/ OTH

Injuries

Occupant	2004-9-217-2-1
MAIS	3=Serious
Seat Position	Front left side

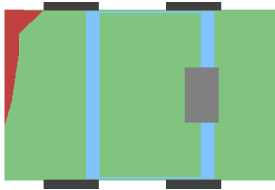
AIS Level	Injury Description	Contacts
1=Minor	Leg skin laceration, minor	Floor
3=Serious	Lung contusion, unilateral	Right interior
1=Minor	Thoracic skin abrasion	Belt webb/buckle
1=Minor	Leg skin abrasion	Transmiss lever

Occupant: 2004-9-217-3-1



Fire Information

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



Crash Severity

Nr. Quarter Turns	No rollover
Impact Speed	998
Total, Longitudal, and Lateral δV	24 -23 8
Est. δV with sequence number	DELTA V CODED 2
CDC	12 F Z E W 3
Damage (C1-C6)	1 10 15 20 22 55
Crush (L and D)	144 21
Object Contacted 1	VEHICLE NO. 2
Object Contacted 2	0

NASS Weighting Factor

Weighting factor	28.404
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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	THREE
Roadway Alignment	CURVE RIGHT
Roadway Profile	LEVEL
Roadway Surface Type	ASPHALT
Roadway Surface Condition	DRY
Light Conditions	DAYLIGHT
Atmospheric Conditions	No ADVERSE COND
Relation to Intersection	INTERSECTION REL
Traffic Control Device	
Police Reported Alcohol Presence	No ALCOHOL
Alcohol Test (< 95 indicates BAC 0.xx)	96

Vehicle Factors

Make-Model	Ford Ranger
Year	1999
Class	TRUCK
Body Type	COMPACT PICKUP
Weight	206

Pre-Crash Driver Data

Accident Type	98
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	18	Height	178	Weight	59
Gender					MALE
Ejection					No EJECTION
Ejection Area					No EJECTION
Entrapment					Not ENTRAPPED

Restraint Factors

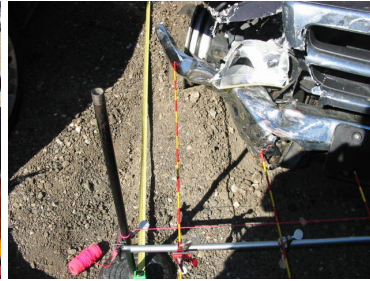
Restrain	Lap and shoulder
AOPS	YES-RES DET
Airbag Deployment	BAG DEPLOYED
Airbag Deployment - 1 st Seat	DR
PAS BAG DEPLY	
Airbag Deployment - Oth Seat	Not EQUIP W/ OTH

Injuries

Occupant	2004-9-217-3-1
MAIS	1=Minor
Seat Position	Front left side

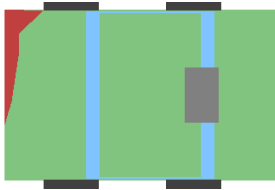
AIS Level	Injury Description	Contacts
1=Minor	Thoracic skin contusion	Belt webb/buckle
1=Minor	Upper extremity skin abrasion	Air bag-DR side

Occupant: 2004-9-217-3-2



Fire Information

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



Crash Severity

Nr. Quarter Turns	No rollover
Impact Speed	998
Total, Longitudal, and Lateral δV	24 -23 8
Est. δV with sequence number	DELTA V CODED 2
CDC	12 F Z E W 3
Damage (C1-C6)	1 10 15 20 22 55
Crush (L and D)	144 21
Object Contacted 1	VEHICLE NO. 2
Object Contacted 2	0

NASS Weighting Factor

Weighting factor	28.404
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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	CURVE RIGHT
Roadway Profile	LEVEL
Roadway Surface Type	ASPHALT
Roadway Surface Condition	DRY
Light Conditions	DAYLIGHT
Atmospheric Conditions	No ADVERSE COND
Relation to Intersection	INTERSECTION REL
Traffic Control Device	
Police Reported Alcohol Presence	No ALCOHOL
Alcohol Test (< 95 indicates BAC 0.xx)	96

Vehicle Factors

Make-Model	Ford Ranger
Year	1999
Class	TRUCK
Body Type	COMPACT PICKUP
Weight	206

Pre-Crash Driver Data

Accident Type	98
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	21	Height	170	Weight	59
Gender					MALE
Ejection					No EJECTION
Ejection Area					No EJECTION
Entrapment					Not ENTRAPPED

Restraint Factors

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

Injuries

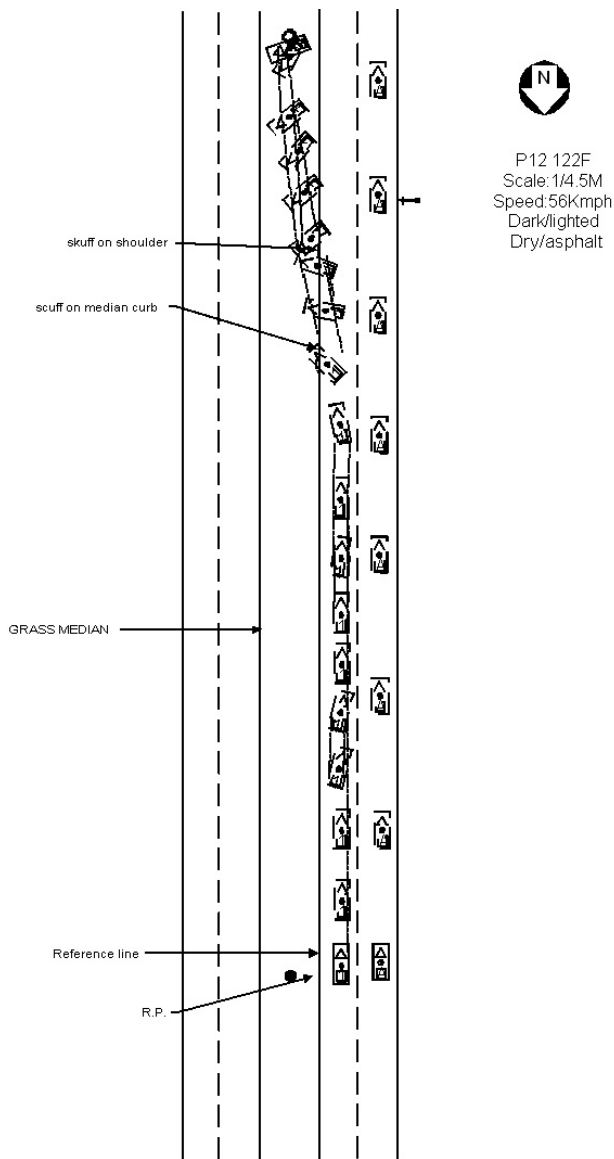
Occupant	2004-9-217-3-2
MAIS	1=Minor
Seat Position	Front right side

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

7 Case 2004-12-122

Summary:

V1, a 1994 Accura Integra, was traveling southbound on a two lane, one way divided asphalt roadway. The vehicle lost control and departed the roadway to the left side. V1, spun counterclockwise in the median and contacted it's right side to a tree. The tree was uprooted, and V1 came to final rest against it facing east. V1 was towed due to damage. Both passengers were transported to a local trauma facility with internal injuries.)



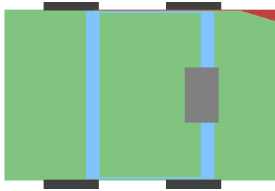
Vehicle	Body type	Make	Model	Year	Occ.#	Age	Occupant's sex	Maximum known occupant ais
1	3DR/2DR HATCHBAK	Acura	Integra	1994	1	18	MALE	3=Serious
1	3DR/2DR HATCHBAK	Acura	Integra	1994	2	18	FEMALE-NOT PREG	3=Serious

Occupant: 2004-12-122-1-1



Fire Information

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



Crash Severity

Nr. Quarter Turns	No rollover
Impact Speed	999
Total, Longitudal, and Lateral δV	999 999 999
Est. δV with sequence number	DELTA V CODED 1
CDC	65 R Z A N 4
Damage (C1-C6)	16 0 0 0 0 0
Crush (L and D)	259 -70
Object Contacted 1	SMALL TREE
Object Contacted 2	0

NASS Weighting Factor

Weighting factor	258.591
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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/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	NONINTER/NONJUNC
Traffic Control Device	
Police Reported Alcohol Presence	No ALCOHOL
Alcohol Test (< 95 indicates BAC 0.xx)	99

Vehicle Factors

Make-Model	Acura Integra
Year	1994
Class	PASSENGER CAR
Body Type	3DR/2DR HATCHBAK
Weight	115

Pre-Crash Driver Data

Accident Type	7
Pre-event Movement	ACCELER IN LANE
Critical Pre-crash Event	TRAVEL TOO FAST
Attempted Avoidance Manuever	STEERING RIGHT
Pre-impact Stability	LATERAL SKID-CLK
Pre-impact Location	DEPARTED ROADWAY

DRIVER Factors

Age	18	Height	180	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	2004-12-122-1-1
MAIS	3=Serious
Seat Position	Front left side

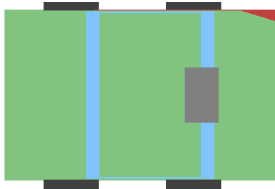
AIS Level	Injury Description	Contacts
1=Minor	Scalp laceration, minor	Int loose obj
1=Minor	Thoracic skin contusion	Belt webb/buckle
1=Minor	Acute cervical spine strain without fracture or dislocation	Seat, back
1=Minor	Leg skin abrasion	Belt webb/buckle
1=Minor	Facial skin abrasion	Steering rim
3=Serious	Lung contusion, unilateral	Seat, back
2=Moderate	2-3 rib fractures with stable chest	Seat, back
2=Moderate	Hepatic laceration, minor (<3cms deep, EBL<202=Moderate	Lumbar fracture of transverse process without cord injury
Seat, back		
1=Minor	Scalp contusion	Int loose obj

Occupant: 2004-12-122-1-2



Fire Information

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



Crash Severity

Nr. Quarter Turns	No rollover
Impact Speed	999
Total, Longitudal, and Lateral δV	999 999 999
Est. δV with sequence number	DELTA V CODED 1
CDC	65 R Z A N 4
Damage (C1-C6)	16 0 0 0 0 0
Crush (L and D)	259 -70
Object Contacted 1	SMALL TREE
Object Contacted 2	0

NASS Weighting Factor

Weighting factor	258.591
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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/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	NONINTER/NONJUNC
Traffic Control Device	
Police Reported Alcohol Presence	No ALCOHOL
Alcohol Test (< 95 indicates BAC 0.xx)	99

Vehicle Factors

Make-Model	Acura Integra
Year	1994
Class	PASSENGER CAR
Body Type	3DR/2DR HATCHBAK
Weight	115

Pre-Crash Driver Data

Accident Type	7
Pre-event Movement	ACCELER IN LANE
Critical Pre-crash Event	TRAVEL TOO FAST
Attempted Avoidance Manuever	STEERING RIGHT
Pre-impact Stability	LATERAL SKID-CLK
Pre-impact Location	DEPARTED ROADWAY

PASSENGER Factors

Age	18	Height	178	Weight	54
Gender					FEMALE-NOT PREG
Ejection					No EJECTION
Ejection Area					No EJECTION
Entrapment					JAMMED DOOR/FIRE

Restraint Factors

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

Injuries

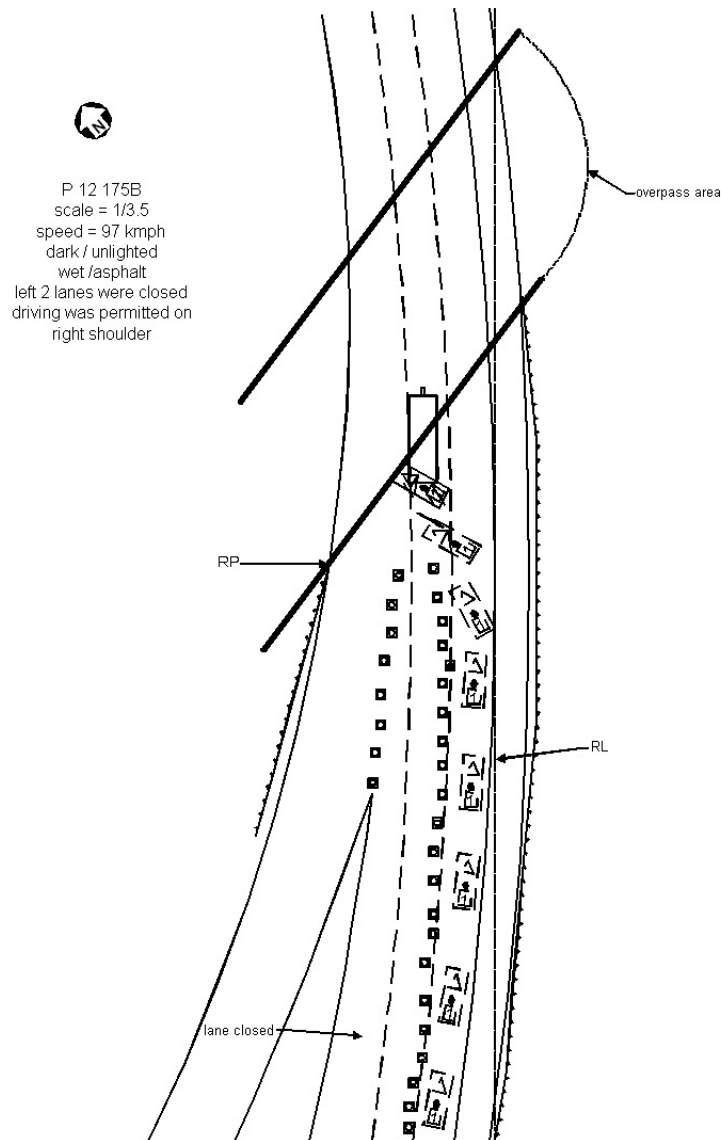
Occupant	2004-12-122-1-2
MAIS	3=Serious
Seat Position	Front right side

AIS Level	Injury Description	Contacts
2=Moderate	Thoracic spinous process fracture without cord injury	Seat, back
1=Minor	Upper extremity skin abrasion	Seat, back
1=Minor	Leg skin abrasion	Belt webb/buckle
1=Minor	Abdominal skin abrasion	Belt webb/buckle
3=Serious	Lung contusion, uni-lateral	Seat, back
1=Minor	Scalp contusion	Roof
1=Minor	Thoracic skin contusion	Belt webb/buckle
1=Minor	Leg skin contusion (hematoma)	Right interior

8 Case 2004-12-175

Summary:

V1, a 1999 Chevrolet Venture, was traveling north on a wet, asphalt, expressway where 2 lanes were closed due to construction. Driving was allowed on the right shoulder. There was construction going on at the overpass where they were painting the bridge. V1 started to lose control and rotated in a counter clockwise rotation. The right of the V1 contacted a hi-lo sandblaster trailer causing severe damage to the right side of the vehicle. V1 was towed due to damage. The only occupant of V1 was dead at the scene.)



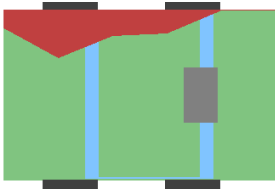
Vehicle	Body type	Make	Model	Year	Occ.#	Age	Occupant's sex	Maximum known occupant ais
1	MINIVAN	Chevrolet	Lumina APV	1999	1	28	FEMALE-NOT PREG	6=Maximum

Occupant: 2004-12-175-1-1



Fire Information

Fire Occurence	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, on the rear axle
Fuel Tank Damage	No damage
Fuel Type	Gasoline



Crash Severity

Nr. Quarter Turns	No rollover
Impact Speed	999
Total, Longitudal, and Lateral δV	999 999 999
Est. δV with sequence number	DELTA V CODED 1
CDC	62 R D A W 5
Damage (C1-C6)	0 0 33 37 70 26
Crush (L and D)	410 -8
Object Contacted 1	Oth NONFIXED OBJ
Object Contacted 2	0

NASS Weighting Factor

Weighting factor	54.082
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Rollover Characteristics

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

Pre-Crash Environment

Traffic Flow	ONE WAY
Number of Travel Lanes	TWO
Roadway Alignment	CURVE LEFT
Roadway Profile	LEVEL
Roadway Surface Type	ASPHALT
Roadway Surface Condition	WET
Light Conditions	DARK
Atmospheric Conditions	RAIN
Relation to Intersection	INTERCHANGE REL
Traffic Control Device	
Police Reported Alcohol Presence	ALCOHOL PRESENT
Alcohol Test (< 95 indicates BAC 0.xx)	24

Vehicle Factors

Make-Model	Chevrolet Lumina APV
Year	1999
Class	TRUCK
Body Type	MINIVAN
Weight	168

Pre-Crash Driver Data

Accident Type	98
Pre-event Movement	NEGOTIATE CURVE
Critical Pre-crash Event	TRAVEL TOO FAST
Attempted Avoidance Manuever	99
Pre-impact Stability	LAT SKID-CTR CLK
Pre-impact Location	Left TRAVEL LANE

DRIVER Factors

Age	28	Height	165	Weight	52
Gender					FEMALE-NOT PREG
Ejection					No EJECTION
Ejection Area					No EJECTION
Entrapment					ENTRAPPED

Restraint Factors

Restrain	Lap and shoulder
AOPS	YES-RES DET
Airbag Deployment	BAG DEPLOYED
Airbag Deployment - 1 st Seat	ONLY DR BAG DEPL
Airbag Deployment - Oth Seat	NONDEPLOYED

Injuries

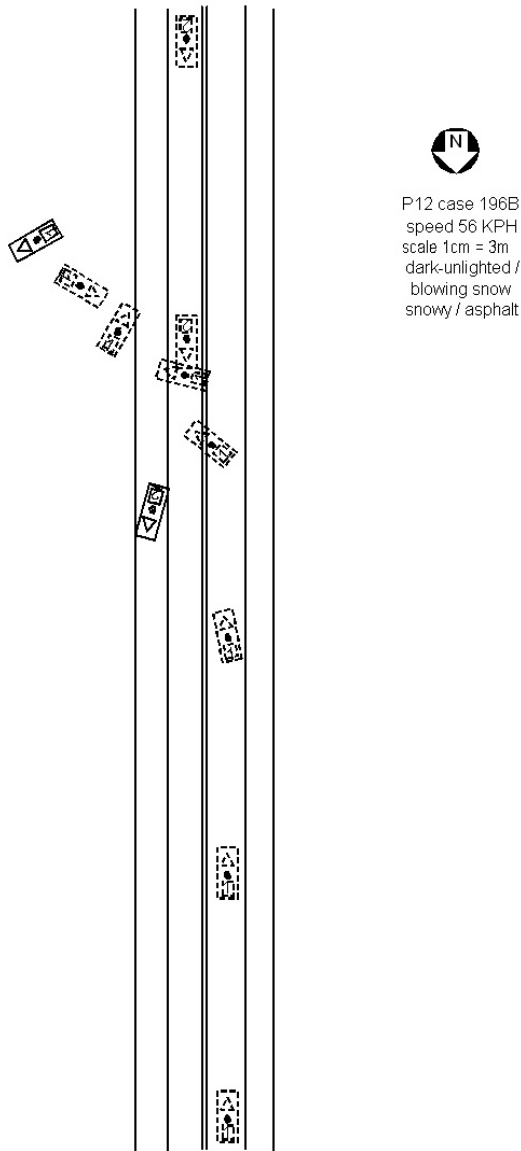
Occupant	2004-12-175-1-1
MAIS	6=Maximum
Seat Position	Front left side

AIS Level	Injury Description	Contacts
6=Maximum	Head injury, crush (massive destruction of skull and brain)	Other veh or obj
1=Minor	Facial skin laceration, minor	Other veh or obj
1=Minor	Facial bone fracture NFS	Other veh or obj
1=Minor	Teeth fracture	Other veh or obj
6=Maximum	Cord laceration, complete, C3 or above, with fx&dislocation	Other veh or obj
1=Minor	Upper extremity skin abrasion	Right interior
1=Minor	Abdominal skin abrasion	Right interior
1=Minor	690202	Oth interior obj
2=Moderate	Clavicle fracture	Right interior
5=Critical	Flail chest, bilateral	Right interior
3=Serious	Lung laceration, unilateral NFS	Right interior
5=Critical	Massive hepatic injury (>503=Serious	Humeral fracture, open/displaced/comminuted
Right interior		
1=Minor	Leg skin abrasion	Center panel
1=Minor	Leg skin contusion (hematoma)	Center panel

9 Case 2004-12-196

Summary:

V1, a 1993 Dodge Shodow, was heading south on a 2 lane, snowy, asphalt roadway after dark while V2, a 2003 Ford Escort, was heading north on the same roadway. As the vehicles approached each other V1 lost control on the slippery roadway and began a counter-clockwise spin as it approached the centerline. As V1 crossed the centerline the front of V2 contacted the right of V2. Both drivers were transported for medical attention and both vehicles were towed from the scene. The driver in V2 was released from the ER with minor injuries hours after being seen while the driver of V1 was hospitalized for 1 day at which time she died of serious injuries incurred in the crash. Both vehicles contained driver side airbags which deployed upon impact.)



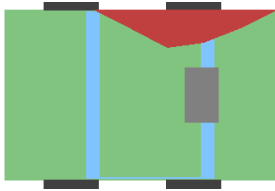
Vehicle	Body type	Make	Model	Year	Occ.#	Age	Occupant's sex	Maximum known occupant ais
1	3DR/2DR HATCHBAK	Dodge	Shadow	1993	1	56	FEMALE-NOT PREG	6=Maximum
2	2DR SEDAN/HT/CPE	Ford	Escort/EXP	2003	1	25	FEMALE-NOT PREG	1=Minor

Occupant: 2004-12-196-1-1



Fire Information

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



Pre-Crash Environment

Traffic Flow	Not DIVIDED
Number of Travel Lanes	TWO
Roadway Alignment	STRAIGHT
Roadway Profile	LEVEL
Roadway Surface Type	ASPHALT
Roadway Surface Condition	SNOW OR SLUSH
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 Shadow
Year	1993
Class	PASSENGER CAR
Body Type	3DR/2DR HATCHBAK
Weight	131

Crash Severity

Nr. Quarter Turns	No rollover
Impact Speed	998
Total, Longitudal, and Lateral δV	40 -20 -35
Est. δV with sequence number	DELTA V CODED 1
CDC	62 R Z E W 4
Damage (C1-C6)	0 26 47 54 27 0
Crush (L and D)	249 -49
Object Contacted 1	VEHICLE NO. 2
Object Contacted 2	0

Pre-Crash Driver Data

Accident Type	66
Pre-event Movement	GOING STRAIGHT
Critical Pre-crash Event	POOR ROAD CONDIT
Attempted Avoidance Manuever	99
Pre-impact Stability	LAT SKID-CTR CLK
Pre-impact Location	Left TRAVEL LANE

NASS Weighting Factor

Weighting factor	16.397
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DRIVER Factors

Rollover Characteristics		Age	56	Height	165	Weight	83
Number of Events	1	Gender	FEMALE-NOT PREG				
Rollover Initiation Type	No rollover	Ejection	PARTIAL EJECTION				
Location of Rollover Initiation	No rollover	Ejection Area	Right FRONT				
Rollover Initiation Object Contacted	No rollover	Entrapment	Not ENTRAPPED				
Location on Vehicle where Principal Tripping Force was Applied	No rollover						
Direction of Initial Roll	No rollover						

Restraint Factors

Restrain	Lap 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	2004-12-196-1-1
MAIS	6=Maximum
Seat Position	Front left side

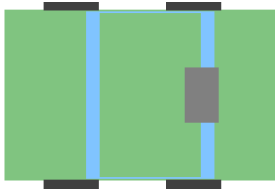
AIS Level	Injury Description	Contacts
2=Moderate	Mesenteric laceration NFS	Transmiss lever
4=Severe	Lung contusion, bilat- eral	Belt webb/buckle
1=Minor	Scalp contusion	Right wind frame
6=Maximum	Cord laceration, com- plete, C3 or above, with fx&dislocation	Right windowsill
6=Maximum	Brain stem laceration	Right windowsill
1=Minor	Upper extremity skin contusion	Belt webb/buckle
1=Minor	Thoracic skin contu- sion	Belt webb/buckle
1=Minor	Abdominal skin con- tusion	Belt webb/buckle
1=Minor	Leg skin contusion (hematoma)	Belt webb/buckle
4=Severe	>3 rib fxs on each side, stable chest	Belt webb/buckle
2=Moderate	Sternal fracture	Belt webb/buckle
4=Severe	Lung laceration, bilat- eral NFS	Belt webb/buckle
2=Moderate	Colonic contusion (hematoma)	Belt webb/buckle

Occupant: 2004-12-196-2-1



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	46 -43 16
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	16.397
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Rollover Characteristics

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

Pre-Crash Environment

Traffic Flow	Not DIVIDED
Number of Travel Lanes	TWO
Roadway Alignment	STRAIGHT
Roadway Profile	LEVEL
Roadway Surface Type	ASPHALT
Roadway Surface Condition	SNOW OR SLUSH
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)	99

Vehicle Factors

Make-Model	Ford Escort/EXP
Year	2003
Class	PASSENGER CAR
Body Type	2DR SEDAN/HT/CPE
Weight	112

Pre-Crash Driver Data

Accident Type	66
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	25	Height	160	Weight	66
Gender			FEMALE-NOT PREG		
Ejection			No EJECTION		
Ejection Area			No EJECTION		
Entrapment			Not ENTRAPPED		

Restraint Factors

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

Injuries

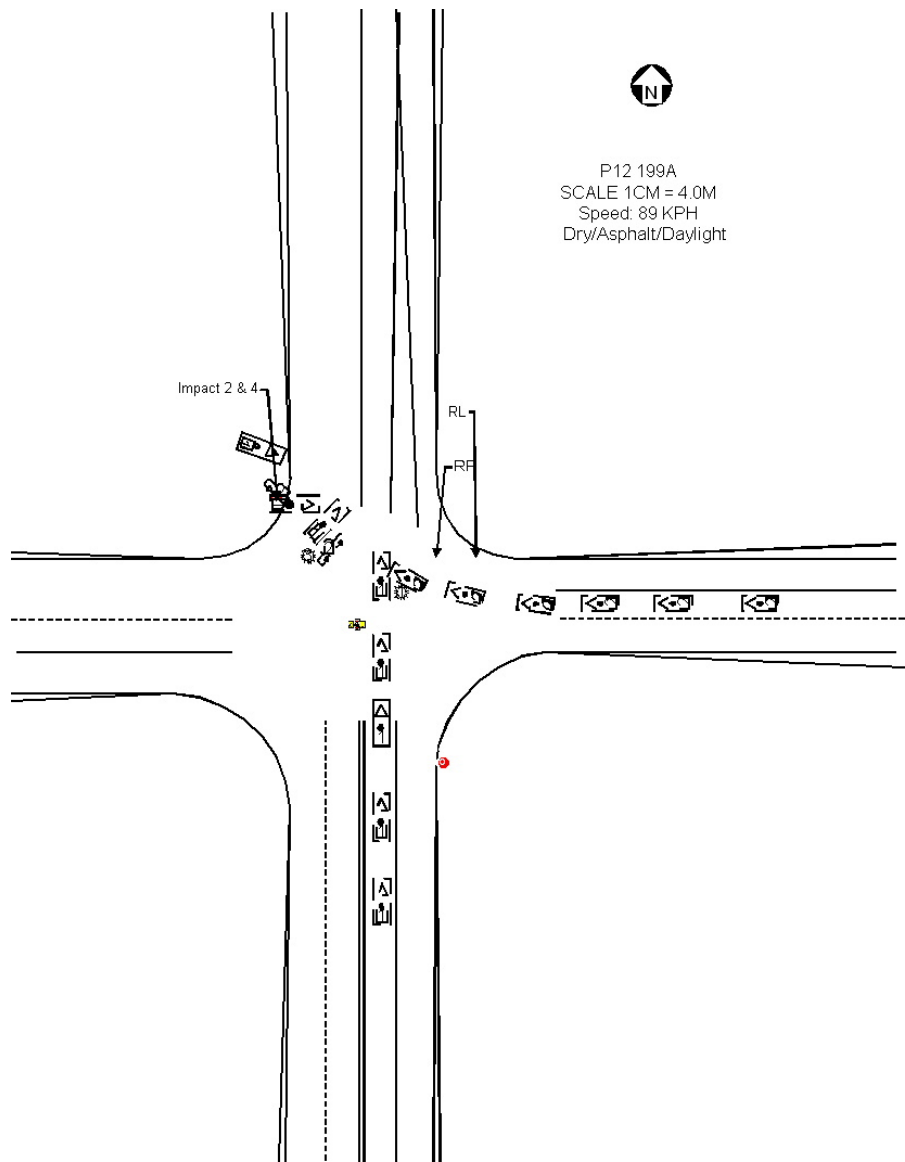
Occupant	2004-12-196-2-1
MAIS	1=Minor
Seat Position	Front left side

AIS Level	Injury Description	Contacts
1=Minor	Acute cervical spine strain without fracture or dislocation	Unknown SOURCE
1=Minor	Thoracic skin abrasion	Unknown SOURCE
1=Minor	Thoracic skin contusion	Unknown SOURCE
1=Minor	Neck skin contusion (hematoma)	Unknown SOURCE
1=Minor	Upper extremity skin contusion	Belt webb/buckle
1=Minor	Abdominal skin contusion	Belt webb/buckle
1=Minor	Leg skin contusion (hematoma)	Unknown SOURCE

10 Case 2004-12-199

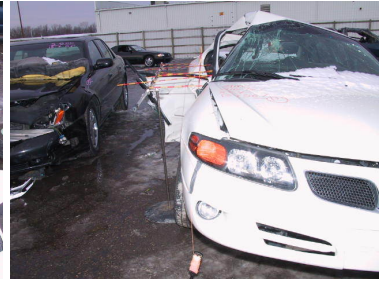
Summary:

Vehicle 1, a 2003 Pontiac Bonneville, was stopped at a 4-way intersection with a stop sign and flashing red signal on a 2 lane, dry, asphalt roadway during daylight hours. Vehicle 2, a 1987 Chevrolet S10 pickup truck, was traveling westbound on the same type of roadway, and was approaching a flashing yellow signal at the intersection. Vehicle 1 started to pass through the intersection and was contacted on the right side by the front of vehicle 2. Both vehicles traveled off road to the northwest where the left rear wheel of vehicle 1 contacted the curb and the left back panel contacted a post before coming to rest. Vehicle 2 also left the roadway and rolled over coming to rest on it's left side. Both vehicles were towed from the scene. Occupant 2 of vehicle 1 died at the scene. All other occupants involved in the crash were transported to trauma centers for treatment.)



Vehicle	Body type	Make	Model	Year	Occupant's sex	Maximum known occupant ais
1	4-DR SEDAN/HDTOP	Pontiac	Bonneville/Catalina	2003	59 FEMALE-NOT PREG	3=Serious
1	4-DR SEDAN/HDTOP	Pontiac	Bonneville/Catalina	2003	85 FEMALE-NOT PREG	6=Maximum
1	4-DR SEDAN/HDTOP	Pontiac	Bonneville/Catalina	2003	40 FEMALE-NOT PREG	2=Moderate
1	4-DR SEDAN/HDTOP	Pontiac	Bonneville/Catalina	2003	67 FEMALE-NOT PREG	4=Severe
2	COMPACT PICKUP	Chevrolet	S-10, T10	1987	56 MALE	3=Serious

Occupant: 2004-12-199-1-1



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, on the 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	Pontiac Bonneville/Catalina
Year	2003
Class	PASSENGER CAR
Body Type	4-DR SEDAN/HDTOP
Weight	165

Crash Severity

Nr. Quarter Turns	No rollover
Impact Speed	998
Total, Longitudal, and Lateral δV	27 -5 -27
Est. δV with sequence number	DELTA V CODED 1
CDC	63 R Y A W 4
Damage (C1-C6)	3 22 55 58 44 8
Crush (L and D)	237 -4
Object Contacted 1	VEHICLE NO. 2
Object Contacted 2	CURB

Pre-Crash Driver Data

Accident Type	87
Pre-event Movement	STARTING IN LANE
Critical Pre-crash Event	CROSS OVER INTER
Attempted Avoidance Manuever	ACCELERATING
Pre-impact Stability	TRACKING
Pre-impact Location	STAYED IN LANE

NASS Weighting Factor

Weighting factor	16.397
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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	59	Height	157	Weight	62
Gender					FEMALE-NOT PREG
Ejection					No EJECTION
Ejection Area					No EJECTION
Entrapment					Not ENTRAPPED

Restraint Factors

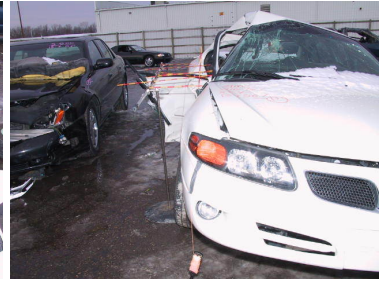
Restrain	Lap and shoulder
AOPS	YES-RES DET
Airbag Deployment	NONDEPLOYED
Airbag Deployment - 1 st Seat	NONDEPLOYED
Airbag Deployment - Oth Seat	Not EQUIP W/ OTH

Injuries

Occupant	2004-12-199-1-1
MAIS	3=Serious
Seat Position	Front left side

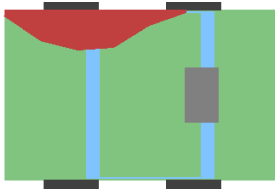
AIS Level	Injury Description	Contacts
2=Moderate	Hepatic laceration, minor (<3cms deep, EBL<203=Serious	2-3 rib fractures with stable chest and hemo-/pneumothorax
Transmiss lever 1=Minor	Upper extremity skin laceration, minor	Transmiss lever
1=Minor	Facial skin contusion	Other occupants
1=Minor	Upper extremity skin abrasion	Transmiss lever

Occupant: 2004-12-199-1-2



Fire Information

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



Crash Severity

Nr. Quarter Turns	No rollover
Impact Speed	998
Total, Longitudal, and Lateral δV	27 -5 -27
Est. δV with sequence number	DELTA V CODED 1
CDC	63 R Y A W 4
Damage (C1-C6)	3 22 55 58 44 8
Crush (L and D)	237 -4
Object Contacted 1	VEHICLE NO. 2
Object Contacted 2	CURB

NASS Weighting Factor

Weighting factor	16.397
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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	Pontiac Bonneville/Catalina
Year	2003
Class	PASSENGER CAR
Body Type	4-DR SEDAN/HDTOP
Weight	165

Pre-Crash Driver Data

Accident Type	87
Pre-event Movement	STARTING IN LANE
Critical Pre-crash Event	CROSS OVER INTER
Attempted Avoidance Manuever	ACCELERATING
Pre-impact Stability	TRACKING
Pre-impact Location	STAYED IN LANE

PASSENGER Factors

Age	85	Height	160	Weight	63
Gender					FEMALE-NOT PREG
Ejection					No EJECTION
Ejection Area					No EJECTION
Entrapment					9

Restraint Factors

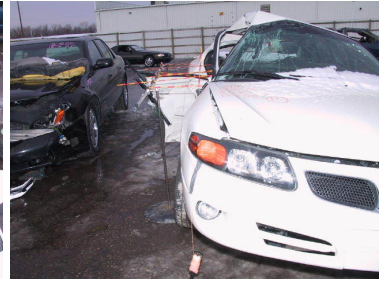
Restrain	Lap and shoulder
AOPS	YES-RES DET
Airbag Deployment	NONDEPLOYED
Airbag Deployment - 1 st Seat	NONDEPLOYED
Airbag Deployment - Oth Seat	Not EQUIP W/ OTH

Injuries

Occupant	2004-12-199-1-2
MAIS	6=Maximum
Seat Position	Front right side

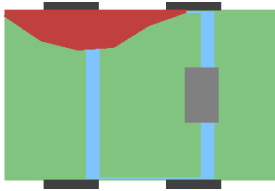
AIS Level	Injury Description	Contacts
1=Minor	Neck skin abrasion	Belt webb/buckle
1=Minor	Abdominal skin contusion	Right interior
1=Minor	Scalp laceration, minor	Right B pillar
1=Minor	Upper extremity skin laceration, minor	Right interior
1=Minor	Upper extremity skin abrasion	Right interior
1=Minor	Leg skin laceration, minor	Right interior
1=Minor	Leg skin contusion (hematoma)	Transmiss lever
1=Minor	Leg skin contusion (hematoma)	Seat, back
4=Severe	Cerebral hematoma, NFS	Right B pillar
3=Serious	Cerebral subarachnoid hemorrhage	Right B pillar
3=Serious	Cerebral subarachnoid hemorrhage	Right B pillar
3=Serious	Basilar skull fracture, NFS	Right B pillar
6=Maximum	Brain stem laceration	Right B pillar
6=Maximum	Cord laceration, complete, C3 or above, with dislocation	Right B pillar
2=Moderate	Sternal fracture	Right interior
2=Moderate	Thoracic spine fracture, no cord injury, NFS	Seat, back
2=Moderate	Clavicle fracture	Seat, back
2=Moderate	Clavicle fracture	Right B pillar
2=Moderate	Rib cage fracture NFS	Right interior
5=Critical	Myocardial laceration with perforation (+/- tamponade)	Right interior
5=Critical	Thoracic aortic laceration, major NFS	Right interior
4=Severe	Lung contusion, bilateral	Right interior
4=Severe	Lung laceration, bilateral NFS	Right interior
2=Moderate	Hepatic laceration, minor (<3cms deep, EBL<202=Moderate	Splenic laceration, minor (tear<3cms deep, no major vessel)
Transmiss lever		
2=Moderate	Pelvic fracture NFS	Right hardware
2=Moderate	Pericardial laceration (puncture)	Right interior

Occupant: 2004-12-199-1-3



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, on the rear axle
Fuel Tank Damage	No damage
Fuel Type	Gasoline



Crash Severity

Nr. Quarter Turns	No rollover
Impact Speed	998
Total, Longitudal, and Lateral δV	27 -5 -27
Est. δV with sequence number	DELTA V CODED 1
CDC	63 R Y A W 4
Damage (C1-C6)	3 22 55 58 44 8
Crush (L and D)	237 -4
Object Contacted 1	VEHICLE NO. 2
Object Contacted 2	CURB

NASS Weighting Factor

Weighting factor	16.397
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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	Pontiac Bonneville/Catalina
Year	2003
Class	PASSENGER CAR
Body Type	4-DR SEDAN/HDTOP
Weight	165

Pre-Crash Driver Data

Accident Type	87
Pre-event Movement	STARTING IN LANE
Critical Pre-crash Event	CROSS OVER INTER
Attempted Avoidance Manuever	ACCELERATING
Pre-impact Stability	TRACKING
Pre-impact Location	STAYED IN LANE

PASSENGER Factors

Age	40	Height	163	Weight	59
Gender					FEMALE-NOT PREG
Ejection					No EJECTION
Ejection Area					No EJECTION
Entrapment					Not ENTRAPPED

Restraint Factors

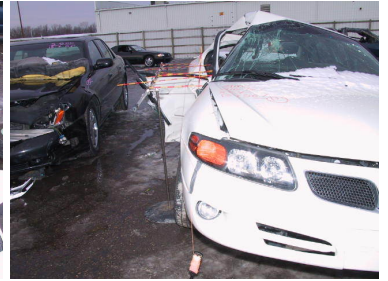
Restrain	Lap and shoulder
AOPS	YES-RES DET
Airbag Deployment	Not EQUIP/AVAIL
Airbag Deployment - 1 st Seat	NONDEPLOYED
Airbag Deployment - Oth Seat	Not EQUIP W/ OTH

Injuries

Occupant	2004-12-199-1-3
MAIS	2=Moderate
Seat Position	Second left

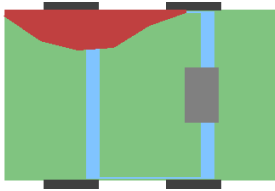
AIS Level	Injury Description	Contacts
1=Minor	Upper extremity skin abrasion	Seat, back
1=Minor	Leg skin abrasion	Seat, back
1=Minor	Leg skin contusion (hematoma)	Seat, back
1=Minor	Thoracic skin contusion	Other occupants
2=Moderate	Fibular head, neck, or shaft fracture	Seat, back

Occupant: 2004-12-199-1-4



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, on the rear axle
Fuel Tank Damage	No damage
Fuel Type	Gasoline



Crash Severity

Nr. Quarter Turns	No rollover
Impact Speed	998
Total, Longitudal, and Lateral δV	27 -5 -27
Est. δV with sequence number	DELTA V CODED 1
CDC	63 R Y A W 4
Damage (C1-C6)	3 22 55 58 44 8
Crush (L and D)	237 -4
Object Contacted 1	VEHICLE NO. 2
Object Contacted 2	CURB

NASS Weighting Factor

Weighting factor	16.397
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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	Pontiac Bonneville/Catalina
Year	2003
Class	PASSENGER CAR
Body Type	4-DR SEDAN/HDTOP
Weight	165

Pre-Crash Driver Data

Accident Type	87
Pre-event Movement	STARTING IN LANE
Critical Pre-crash Event	CROSS OVER INTER
Attempted Avoidance Manuever	ACCELERATING
Pre-impact Stability	TRACKING
Pre-impact Location	STAYED IN LANE

PASSENGER Factors

Age	67	Height	160	Weight	66
Gender					FEMALE-NOT PREG
Ejection					No EJECTION
Ejection Area					No EJECTION
Entrapment					9

Restraint Factors

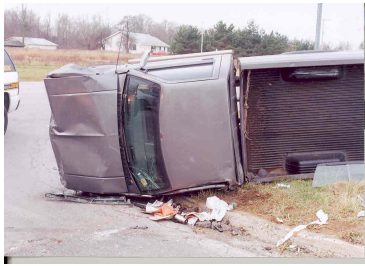
Restrain	Lap and shoulder
AOPS	YES-RES DET
Airbag Deployment	Not EQUIP/AVAIL
Airbag Deployment - 1 st Seat	NONDEPLOYED
Airbag Deployment - Oth Seat	Not EQUIP W/ OTH

Injuries

Occupant	2004-12-199-1-4
MAIS	4=Severe
Seat Position	Second right

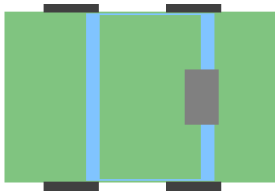
AIS Level	Injury Description	Contacts
1=Minor	Facial skin abrasion	Oth right pillar
1=Minor	Facial skin abrasion	Oth right pillar
1=Minor	Abdominal skin abrasion	Right hardware
2=Moderate	Awake on admission, prior unconscious, length NFS	Oth right pillar
1=Minor	Facial skin laceration NFS	Oth right pillar
2=Moderate	Mandible subcondylar fracture, closed	Other occupants
2=Moderate	Alveolar ridge fracture +/- tooth injury	Other occupants
3=Serious	Pelvic fracture, open/displaced/comminuted	Right interior
3=Serious	Pelvic fracture, open/displaced/comminuted	Right interior
2=Moderate	Pelvic fracture, closed	Right interior
3=Serious	Pelvic fracture, open/displaced/comminuted	Right interior
4=Severe	>3 rib fxs on one side & <3 other side & hemo-/pneumothorax	Right interior
1=Minor	Scalp contusion	Oth right pillar
2=Moderate	Hepatic contusion (hematoma) NFS	Right hardware
3=Serious	Lung contusion, uni-lateral	Right interior

Occupant: 2004-12-199-2-1



Fire Information

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



Crash Severity

Nr. Quarter Turns	1 QUARTER TURN
Impact Speed	998
Total, Longitudal, and Lateral δV	36 -28 23
Est. δV with sequence number	DELTA V CODED 1
CDC	11 F D E W 3
Damage (C1-C6)	0 0 0 0 0
Crush (L and D)	0 0
Object Contacted 1	VEHICLE NO. 1
Object Contacted 2	ROLLOVER-OVERTURN

NASS Weighting Factor

Weighting factor	16.397
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Rollover Characteristics

Number of Events	4
Rollover Initiation Type	COLLISION W/VEH
Location of Rollover Initiation	ROADSIDE/MEDIAN
Rollover Initiation Object Contacted	VEHICLE NO. 1
Location on Vehicle where Principal Tripping Force was Applied	END PLANE
Direction of Initial Roll	ROLL LEFT

Pre-Crash Environment

Traffic Flow	Not DIVIDED
Number of Travel Lanes	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	Chevrolet S-10, T10
Year	1987
Class	TRUCK
Body Type	COMPACT PICKUP
Weight	129

Pre-Crash Driver Data

Accident Type	86
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	Left TRAVEL LANE

DRIVER Factors

Age	56	Height	170	Weight	113
Gender					MALE
Ejection					No EJECTION
Ejection Area					No EJECTION
Entrapment					Not ENTRAPPED

Restraint Factors

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

Injuries

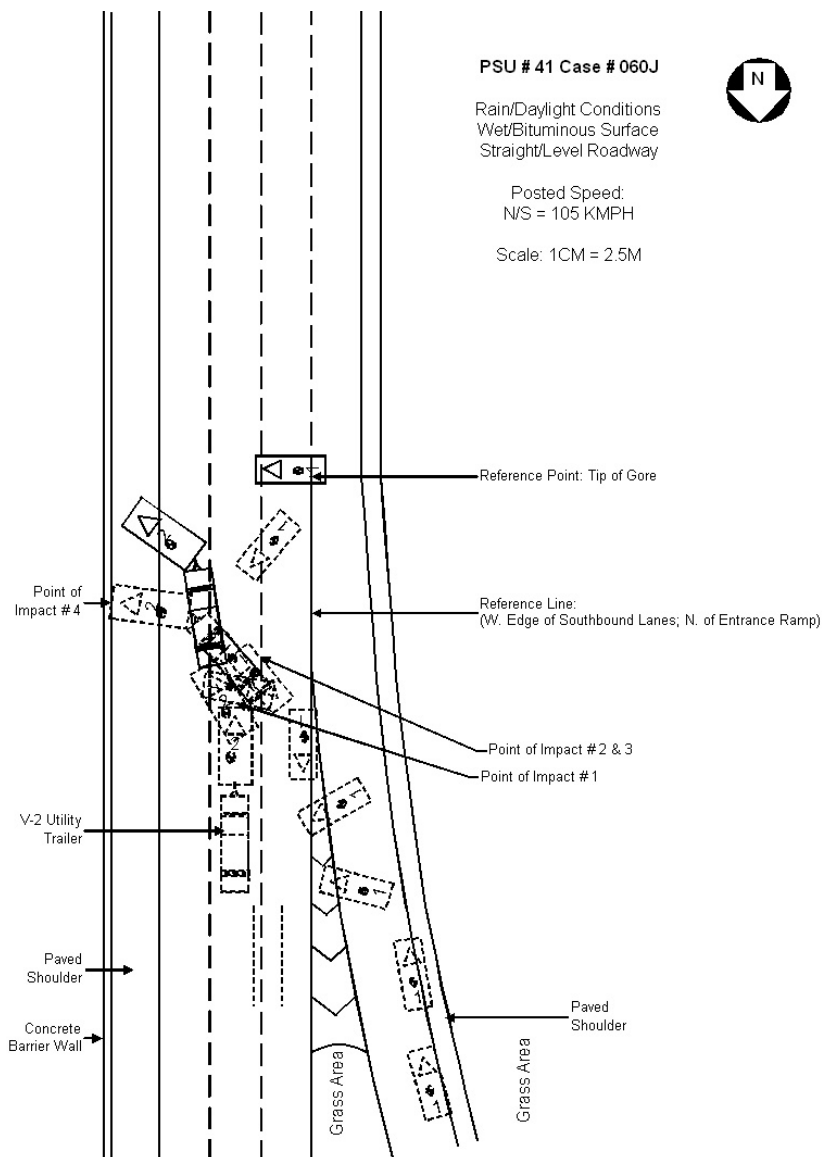
Occupant	2004-12-199-2-1
MAIS	3=Serious
Seat Position	Front left side

AIS Level	Injury Description	Contacts
1=Minor	Scalp laceration, minor	Roof left rail
3=Serious	Skull fracture, vault, comminuted (compound, depressed)	Roof left rail
1=Minor	Abdominal skin abrasion	Belt webb/buckle
1=Minor	Leg skin laceration, minor	Left interior
1=Minor	Scalp contusion	Roof left rail
1=Minor	Upper extremity skin contusion	Left interior

11 Case 2004-41-60

Summary:

V1, a 2001 Chrysler, Town Country van with five occupants, was negotiating a single lane entrance ramp to a limited access southbound highway. V2, a 2004 Dodge, Ram 3500, 2 X 4 pickup truck with one occupant was pulling a 23-foot, Econoline trailer as it traveled southbound in lane two of a two-way, six-lane divided roadway with a positive barrier wall. As V1 neared the end of this entrance ramp it began to rotate in a counterclockwise direction, traveling eastward across southbound lanes until the right side of V1 made contact with the front of V2. The right side of V1 then made contact with the right side of V2 in two locations. V2 front then impacted the concrete barrier wall before coming to final rest in lane three. V1's final rest was between lane one and two, facing eastward, south of the first impact. Both V1 and V2 were equipped with interior first row airbags which all deployed due to impact forces. Both vehicles were towed due to damage. All five occupants of V1 were transported and hospitalized with incapacitating injuries. The driver of V2 was treated by EMS, at the scene, for non-incapacitating injuries. At the time of this crash the roadway was wet and it was raining.)



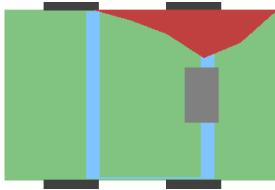
Vehicle #	Body type	Make	Model	Year	Occ.#	Age	Occupant's sex	Maximum known occupant ais
1	MINIVAN	Chrysler	Town & Country	2001	1	41	FEMALE-NOT PREG	4=Severe
1	MINIVAN	Chrysler	Town & Country	2001	2	60	FEMALE-NOT PREG	4=Severe
1	MINIVAN	Chrysler	Town & Country	2001	3	25	MALE	3=Serious
1	MINIVAN	Chrysler	Town & Country	2001	4	24	FEMALE-NOT PREG	3=Serious
1	MINIVAN	Chrysler	Town & Country	2001	5	5	MALE	4=Severe
2	LARGE PICKUP	Dodge	Ram 1500 P/U	2004	1	47	MALE	1=Minor

Occupant: 2004-41-60-1-1



Fire Information

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



Crash Severity

Nr. Quarter Turns	No rollover
Impact Speed	999
Total, Longitudal, and Lateral δV	999 999 999
Est. δV with sequence number	SEVERE 1
CDC	3 R Z A W 4
Damage (C1-C6)	0 47 70 35 14 0
Crush (L and D)	342 -31
Object Contacted 1	VEHICLE NO. 2
Object Contacted 2	VEHICLE NO. 2

NASS Weighting Factor

Weighting factor	18.186
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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	ONE WAY
Number of Travel Lanes	ONE
Roadway Alignment	CURVE RIGHT
Roadway Profile	LEVEL
Roadway Surface Type	ASPHALT
Roadway Surface Condition	WET
Light Conditions	DAYLIGHT
Atmospheric Conditions	RAIN
Relation to Intersection	INTERCHANGE REL
Traffic Control Device	
Police Reported Alcohol Presence	No ALCOHOL
Alcohol Test (< 95 indicates BAC 0.xx)	0

Vehicle Factors

Make-Model	Chrysler Town
Country	
Year	2001
Class	TRUCK
Body Type	MINIVAN
Weight	194

Pre-Crash Driver Data

Accident Type	48
Pre-event Movement	NEGOTIATE CURVE
Critical Pre-crash Event	TRAVEL TOO FAST
Attempted Avoidance Manuever	BRAKE+STEER LEFT
Pre-impact Stability	LAT SKID-CTR CLK
Pre-impact Location	Left TRAVEL LANE

DRIVER Factors

Age	41	Height	160	Weight	48
Gender					FEMALE-NOT PREG
Ejection					No EJECTION
Ejection Area					No EJECTION
Entrapment					Not ENTRAPPED

Restraint Factors

Restrain	Lap and shoulder
AOPS	YES-RES DET
Airbag Deployment	BAG DEPLOYED
Airbag Deployment - 1 st Seat	DR
PAS BAG DEPLY	
Airbag Deployment - Oth Seat	BAG DEPLOYED

Injuries

Occupant	2004-41-60-1-1
MAIS	4=Severe
Seat Position	Front left side

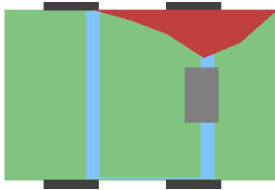
AIS Level	Injury Description	Contacts
1=Minor	Facial skin abrasion	Seat, back
1=Minor	Facial skin abrasion	Seat, back
4=Severe	Cerebellar hematoma, intracerebellar, small (<15ccs)	Seat, back
1=Minor	Leg skin contusion (hematoma)	Center panel

Occupant: 2004-41-60-1-2



Fire Information

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



Pre-Crash Environment

Traffic Flow	ONE WAY
Number of Travel Lanes	ONE
Roadway Alignment	CURVE RIGHT
Roadway Profile	LEVEL
Roadway Surface Type	ASPHALT
Roadway Surface Condition	WET
Light Conditions	DAYLIGHT
Atmospheric Conditions	RAIN
Relation to Intersection	INTERCHANGE REL
Traffic Control Device	
Police Reported Alcohol Presence	No ALCOHOL
Alcohol Test (< 95 indicates BAC 0.xx)	0

Crash Severity

Nr. Quarter Turns	No rollover
Impact Speed	999
Total, Longitudal, and Lateral δV	999 999 999
Est. δV with sequence number	SEVERE 1
CDC	3 R Z A W 4
Damage (C1-C6)	0 47 70 35 14 0
Crush (L and D)	342 -31
Object Contacted 1	VEHICLE NO. 2
Object Contacted 2	VEHICLE NO. 2

NASS Weighting Factor

Weighting factor	18.186
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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	Chrysler Town
Country	
Year	2001
Class	TRUCK
Body Type	MINIVAN
Weight	194

Pre-Crash Driver Data

Accident Type	48
Pre-event Movement	NEGOTIATE CURVE
Critical Pre-crash Event	TRAVEL TOO FAST
Attempted Avoidance Manuever	BRAKE+STEER LEFT
Pre-impact Stability	LAT SKID-CTR CLK
Pre-impact Location	Left TRAVEL LANE

PASSENGER Factors

Age	60	Height	155	Weight	54
Gender					FEMALE-NOT PREG
Ejection					No EJECTION
Ejection Area					No EJECTION
Entrapment					Not ENTRAPPED

Restraint Factors

Restrain	Lap and shoulder
AOPS	YES-RES DET
Airbag Deployment	BAG DEPLOYED
Airbag Deployment - 1 st Seat	DR
PAS BAG DEPLY	
Airbag Deployment - Oth Seat	BAG DEPLOYED

Injuries

Occupant	2004-41-60-1-2
MAIS	4=Severe
Seat Position	Front right side

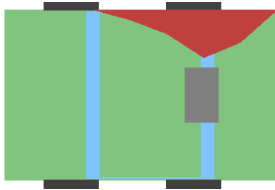
AIS Level	Injury Description	Contacts
3=Serious	Cervical pedicle fracture, no cord injury	Other noncontact
2=Moderate	2-3 rib fractures with stable chest	Right hardware
1=Minor	Thoracic skin contusion	Belt webb/buckle
1=Minor	Thoracic skin abrasion	Right hardware
1=Minor	Leg skin contusion (hematoma)	Right hardware
2=Moderate	Kidney laceration NFS	Right hardware
2=Moderate	Cervical vertebral body fracture, no cord injury NFS	Other noncontact
2=Moderate	Skull fracture, vault, closed (simple, undisplaced)	Right B pillar
4=Severe	Cerebral epidural or extradural hematoma, small	Right B pillar

Occupant: 2004-41-60-1-3



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	Deformed
Fuel Type	Gasoline



Pre-Crash Environment

Traffic Flow	ONE WAY
Number of Travel Lanes	ONE
Roadway Alignment	CURVE RIGHT
Roadway Profile	LEVEL
Roadway Surface Type	ASPHALT
Roadway Surface Condition	WET
Light Conditions	DAYLIGHT
Atmospheric Conditions	RAIN
Relation to Intersection	INTERCHANGE REL
Traffic Control Device	
Police Reported Alcohol Presence	No ALCOHOL
Alcohol Test (< 95 indicates BAC 0.xx)	0

Crash Severity

Nr. Quarter Turns	No rollover
Impact Speed	999
Total, Longitudal, and Lateral δV	999 999 999
Est. δV with sequence number	SEVERE 1
CDC	3 R Z A W 4
Damage (C1-C6)	0 47 70 35 14 0
Crush (L and D)	342 -31
Object Contacted 1	VEHICLE NO. 2
Object Contacted 2	VEHICLE NO. 2

NASS Weighting Factor

Weighting factor	18.186
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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	Chrysler Town
Country	
Year	2001
Class	TRUCK
Body Type	MINIVAN
Weight	194

Pre-Crash Driver Data

Accident Type	48
Pre-event Movement	NEGOTIATE CURVE
Critical Pre-crash Event	TRAVEL TOO FAST
Attempted Avoidance Manuever	BRAKE+STEER LEFT
Pre-impact Stability	LAT SKID-CTR CLK
Pre-impact Location	Left TRAVEL LANE

PASSENGER Factors

Age	25	Height	185	Weight	77
Gender					MALE
Ejection					No EJECTION
Ejection Area					No EJECTION
Entrapment					ENTRAPPED

Restraint Factors

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

Injuries

Occupant	2004-41-60-1-3
MAIS	3=Serious
Seat Position	Second right

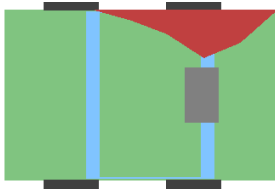
AIS Level	Injury Description	Contacts
3=Serious	450211	Right interior
2=Moderate	Sternal fracture	Right interior
2=Moderate	Lumbar fracture of transverse process without cord injury	Unknown SOURCE
3=Serious	Cerebral subarachnoid hemorrhage	OMV other front
3=Serious	Lung contusion, unilateral	Seat, back
1=Minor	Thoracic skin contusion	Right interior
1=Minor	Abdominal skin contusion	Right interior
3=Serious	Cerebral pneumocephalus	OMV other front
1=Minor	Retina laceration	OMV other front
3=Serious	Basilar skull fracture, NFS	OMV other front
2=Moderate	Skull fracture, vault, NFS	OMV other front
2=Moderate	Pelvic fracture NFS	Seat, back
2=Moderate	Pelvic fracture NFS	Right interior
3=Serious	Pelvic fracture, open/displaced/comminuted	Right interior

Occupant: 2004-41-60-1-4



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	Deformed
Fuel Type	Gasoline



Crash Severity

Nr. Quarter Turns	No rollover
Impact Speed	999
Total, Longitudal, and Lateral δV	999 999 999
Est. δV with sequence number	SEVERE 1
CDC	3 R Z A W 4
Damage (C1-C6)	0 47 70 35 14 0
Crush (L and D)	342 -31
Object Contacted 1	VEHICLE NO. 2
Object Contacted 2	VEHICLE NO. 2

NASS Weighting Factor

Weighting factor	18.186
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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	ONE WAY
Number of Travel Lanes	ONE
Roadway Alignment	CURVE RIGHT
Roadway Profile	LEVEL
Roadway Surface Type	ASPHALT
Roadway Surface Condition	WET
Light Conditions	DAYLIGHT
Atmospheric Conditions	RAIN
Relation to Intersection	INTERCHANGE REL
Traffic Control Device	
Police Reported Alcohol Presence	No ALCOHOL
Alcohol Test (< 95 indicates BAC 0.xx)	0

Vehicle Factors

Make-Model	Chrysler Town
Country	
Year	2001
Class	TRUCK
Body Type	MINIVAN
Weight	194

Pre-Crash Driver Data

Accident Type	48
Pre-event Movement	NEGOTIATE CURVE
Critical Pre-crash Event	TRAVEL TOO FAST
Attempted Avoidance Manuever	BRAKE+STEER LEFT
Pre-impact Stability	LAT SKID-CTR CLK
Pre-impact Location	Left TRAVEL LANE

PASSENGER Factors

Age	24	Height	157	Weight	47
Gender					FEMALE-NOT PREG
Ejection					No EJECTION
Ejection Area					No EJECTION
Entrapment					ENTRAPPED

Restraint Factors

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

Injuries

Occupant	2004-41-60-1-4
MAIS	3=Serious
Seat Position	Third middle

AIS Level	Injury Description	Contacts
1=Minor	Facial skin contusion	Oth right pillar
1=Minor	Upper extremity skin contusion	Right interior
1=Minor	Leg skin abrasion	Right interior
1=Minor	Leg skin contusion (hematoma)	Seat, back
1=Minor	Leg skin contusion (hematoma)	Right interior
1=Minor	Leg skin abrasion	Right interior
1=Minor	Leg skin avulsion, superficial (<100cms2)	Right interior
3=Serious	Pelvic fracture, open/displaced/comminuted	Right interior
3=Serious	Pelvic fracture, open/displaced/comminuted	Right interior
2=Moderate	Pelvic fracture, closed	Right interior
1=Minor	297402	Oth right pillar
1=Minor	Scalp contusion	Oth right pillar

Occupant: 2004-41-60-1-5



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	Deformed
Fuel Type	Gasoline



Crash Severity

Nr. Quarter Turns	No rollover
Impact Speed	999
Total, Longitudal, and Lateral δV	999 999 999
Est. δV with sequence number	SEVERE 1
CDC	3 R Z A W 4
Damage (C1-C6)	0 47 70 35 14 0
Crush (L and D)	342 -31
Object Contacted 1	VEHICLE NO. 2
Object Contacted 2	VEHICLE NO. 2

NASS Weighting Factor

Weighting factor	18.186
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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	ONE WAY
Number of Travel Lanes	ONE
Roadway Alignment	CURVE RIGHT
Roadway Profile	LEVEL
Roadway Surface Type	ASPHALT
Roadway Surface Condition	WET
Light Conditions	DAYLIGHT
Atmospheric Conditions	RAIN
Relation to Intersection	INTERCHANGE REL
Traffic Control Device	
Police Reported Alcohol Presence	No ALCOHOL
Alcohol Test (< 95 indicates BAC 0.xx)	0

Vehicle Factors

Make-Model	Chrysler Town
Country	
Year	2001
Class	TRUCK
Body Type	MINIVAN
Weight	194

Pre-Crash Driver Data

Accident Type	48
Pre-event Movement	NEGOTIATE CURVE
Critical Pre-crash Event	TRAVEL TOO FAST
Attempted Avoidance Manuever	BRAKE+STEER LEFT
Pre-impact Stability	LAT SKID-CTR CLK
Pre-impact Location	Left TRAVEL LANE

PASSENGER Factors

Age	5	Height	122	Weight	25
Gender					MALE
Ejection					No EJECTION
Ejection Area					No EJECTION
Entrapment					ENTRAPPED

Restraint Factors

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

Injuries

Occupant	2004-41-60-1-5
MAIS	4=Severe
Seat Position	Third right

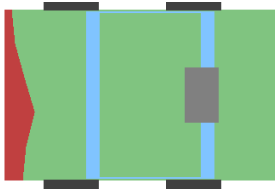
AIS Level	Injury Description	Contacts
1=Minor	Myocardial contusion NFS	Right interior
2=Moderate	Thoracic spine fracture, no cord injury, NFS	Other noncontact
2=Moderate	Lumbar fracture without cord injury NFS	Other noncontact
2=Moderate	Lumbar fracture without cord injury NFS	Other noncontact
4=Severe	Lung contusion, bilateral	Right interior
2=Moderate	Hepatic contusion (hematoma) NFS	Right interior
4=Severe	Cerebral epidural or extradural hematoma, NFS	Right wind frame
1=Minor	Leg skin abrasion	Seat, back
1=Minor	Leg skin laceration, minor	Seat, back

Occupant: 2004-41-60-2-1



Fire Information

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



Crash Severity

Nr. Quarter Turns	No rollover
Impact Speed	999
Total, Longitudal, and Lateral δV	999 999 999
Est. δV with sequence number	SEVERE 1
CDC	12 F D E W 2
Damage (C1-C6)	27 32 44 29 16 10
Crush (L and D)	180 0
Object Contacted 1	VEHICLE NO. 1
Object Contacted 2	CONCRETE BARRIER

NASS Weighting Factor

Weighting factor	18.186
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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/W/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	INTERCHANGE REL
Traffic Control Device	
Police Reported Alcohol Presence	No ALCOHOL
Alcohol Test (< 95 indicates BAC 0.xx)	96

Vehicle Factors

Make-Model	Dodge Ram 1500 P/U
Year	2004
Class	TRUCK
Body Type	LARGE PICKUP
Weight	449

Pre-Crash Driver Data

Accident Type	48
Pre-event Movement	GOING STRAIGHT
Critical Pre-crash Event	ENTR LTD ACC HWY
Attempted Avoidance Manuever	BRAKE W/O LOCKUP
Pre-impact Stability	Oth VEH CTL LOSS
Pre-impact Location	STAYED IN LANE

DRIVER Factors

Age	47	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

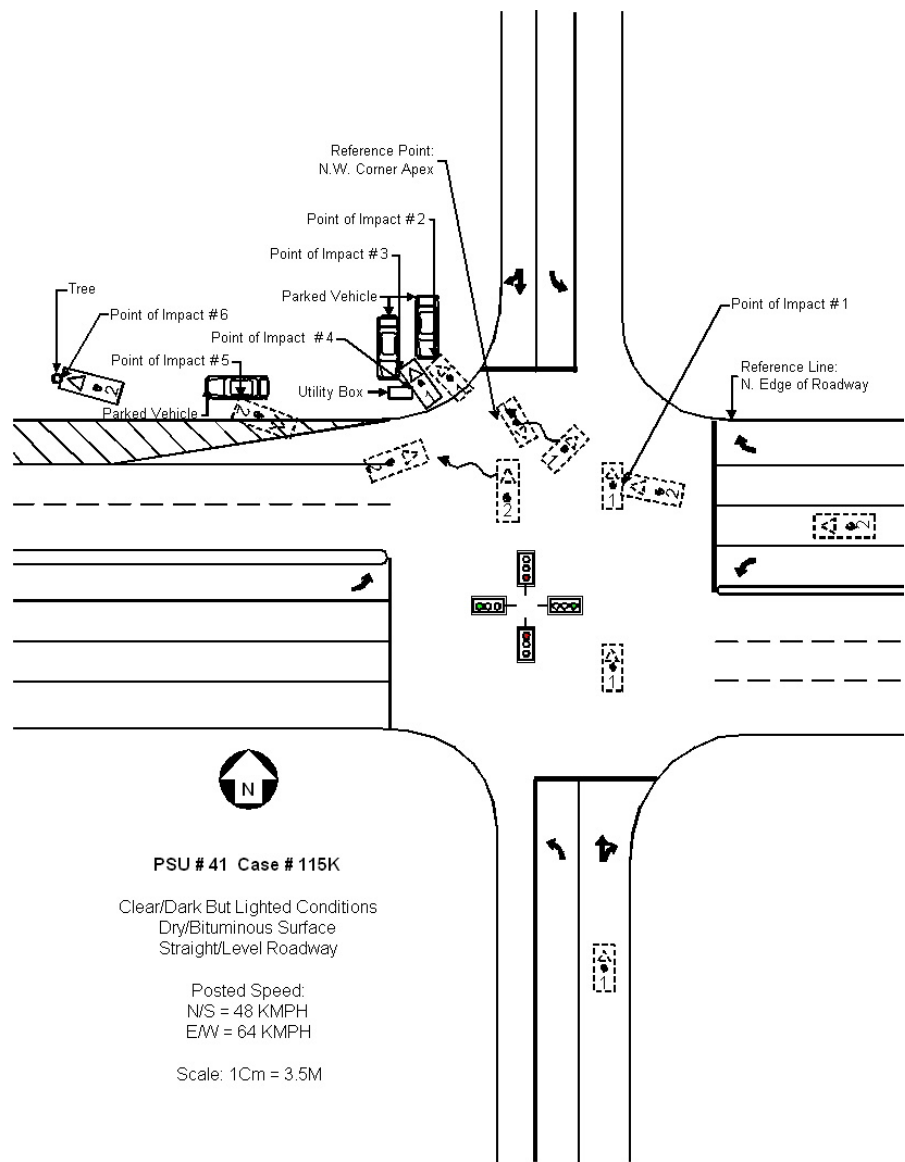
Occupant	2004-41-60-2-1
MAIS	1=Minor
Seat Position	Front left side

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

12 Case 2004-41-115

Summary:

V1, a 1998 Toyota Rav4, compact utility vehicle with one occupant, was traveling northbound in lane one of a two-way, three-lane undivided roadway. V2, a 2004 BMW 745LI four-door sedan with one occupant, was traveling westbound in lane three of a two-way, four lane divided roadway with a center median, without a positive barrier. As both vehicles entered the same intersection the right side of V1 struck the front end of V2. Due to the angle and placement of impact both vehicles rotated clockwise in a northwesterly direction. As V1 left the roadway its front end struck a parked vehicle. Then V1's left side struck another parked vehicle and an electrical utility box where it came to final rest. The driver of V1 was totally ejected prior to final rest. As V2 left the roadway its back end struck a parked vehicle. Then V2's front end struck a tree where it came to final rest. Both vehicles were disabled and towed. The driver of V1 was transported to a trauma center and admitted.)



Vehicle	Body type	Make	Model	Year	Occ.#	Age	Occupant's sex	Maximum known occupant ais
1	COMPACT UTILITY	Toyota	RAV-4	1998	1	55	FEMALE-NOT PREG	3=Serious
2	4-DR SEDAN/HDTOP	BMW	7-series	2004	1	30	MALE	0=None

Occupant: 2004-41-115-1-1



Fire Information

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



Crash Severity

Nr. Quarter Turns	No rollover
Impact Speed	998
Total, Longitudal, and Lateral δV	34 -12 -32
Est. δV with sequence number	DELTA V CODED 1
CDC	2 R D E W 4
Damage (C1-C6)	0 55 63 58 44 0
Crush (L and D)	228 -28
Object Contacted 1	VEHICLE NO. 2
Object Contacted 2	Not IN TRAN LGTVEH

NASS Weighting Factor

Weighting factor	16.900
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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	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	Toyota RAV-4
Year	1998
Class	TRUCK
Body Type	COMPACT UTILITY
Weight	178

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	55	Height	163	Weight	62
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	2004-41-115-1-1
MAIS	3=Serious
Seat Position	Front left side

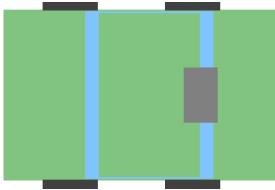
AIS Level	Injury Description	Contacts
1=Minor	Abdominal skin contusion	Belt webb/buckle
1=Minor	Leg skin contusion (hematoma)	Belt webb/buckle
2=Moderate	Pelvic fracture NFS	Right interior
2=Moderate	Lumbar fracture of transverse process without cord injury	Right interior
2=Moderate	Lumbar fracture of transverse process without cord injury	Right interior
3=Serious	Radial fracture, open/displaced/comminuted	Transmiss lever
3=Serious	Ulnar fracture, open/displaced/comminuted	Transmiss lever
2=Moderate	Kidney contusion, minor (subcapsular, nonexpanding)	Right interior
2=Moderate	Kidney laceration NFS	Right interior

Occupant: 2004-41-115-2-1



Fire Information

Fire Occurence	No fire
Fire Origin	No fire
Location of Fuel Leakage	Unknown
Type of Fuel Tank	Unknown type
Fuel Tank Location	Unknown
Fuel Cap Location	Right side, behind rear axle
Fuel Tank Damage	Unknown
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)	97

Crash Severity

Nr. Quarter Turns	No rollover
Impact Speed	998
Total, Longitudal, and Lateral δV	30 -26 15
Est. δV with sequence number	DELTA V CODED 1
CDC	11 F D E W 1
Damage (C1-C6)	0 0 0 0 0 0
Crush (L and D)	0 0
Object Contacted 1	VEHICLE NO. 1
Object Contacted 2	LARGE TREE

NASS Weighting Factor

Weighting factor	16.900
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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	BMW 7-series
Year	2004
Class	PASSENGER CAR
Body Type	4-DR SEDAN/HDTOP
Weight	203

Pre-Crash Driver Data

Accident Type	86
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	30	Height	999	Weight	999
Gender			MALE		
Ejection			No EJECTION		
Ejection Area			No EJECTION		
Entrapment			Not ENTRAPPED		

Restraint Factors

Restrain	99
AOPS	YES-RES DET
Airbag Deployment	BAG DEPLOYED
Airbag Deployment - 1 st Seat	ONLY DR BAG DEPL
Airbag Deployment - Oth Seat	BAG DEPLOYED

Injuries

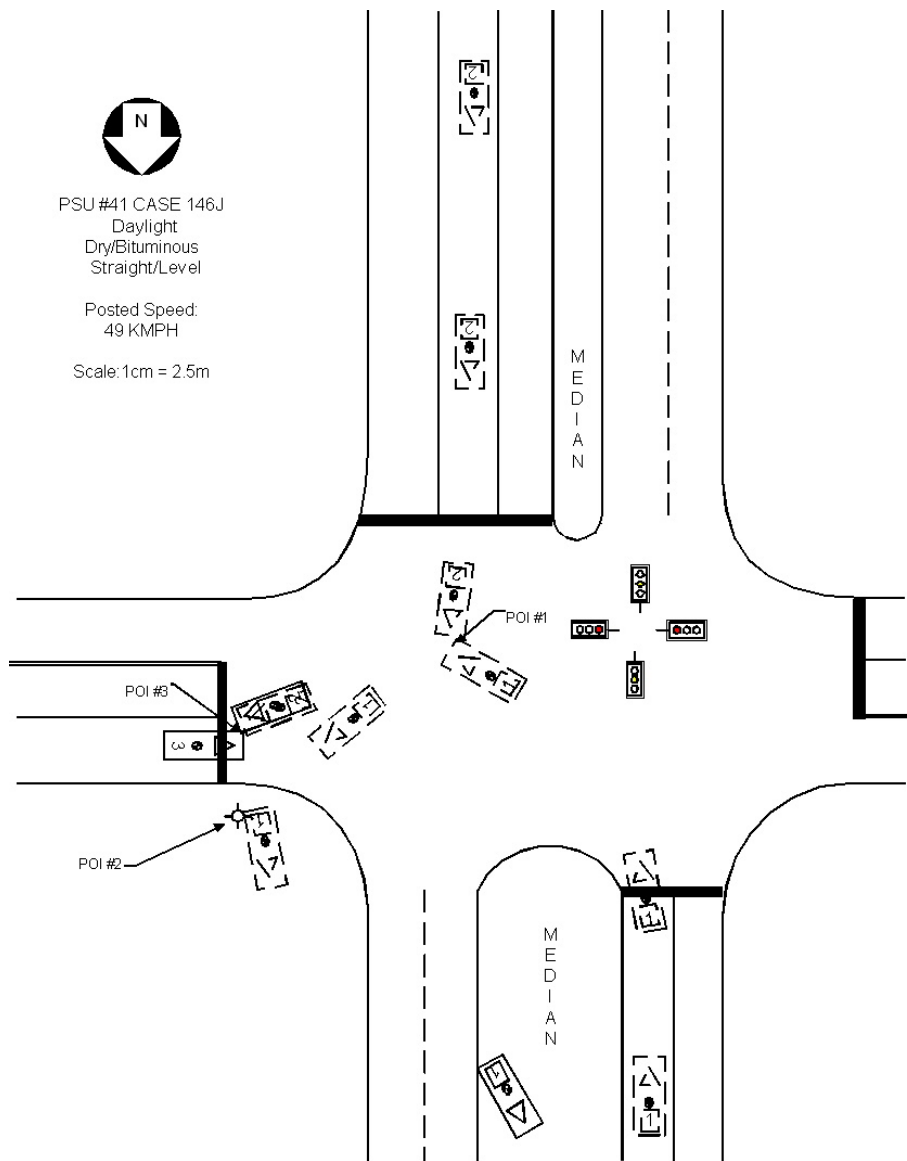
Occupant	2004-41-115-2-1
MAIS	0=None
Seat Position	Front left side

AIS Level	Injury Description	Contacts
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13 Case 2004-41-146

Summary:

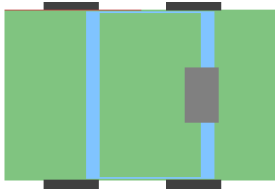
V1, a 2003 Honda Accord, was traveling southbound in lane two of a two-way, four-lane divided roadway without positive barrier. V2, a 1995 Toyota 4Runner, was traveling northbound in lane two of a two-way, five-lane divided roadway without positive barrier. V3, a 2001 Saturn, was stopped at a traffic light facing westbound in lane one of a two-way, three-lane undivided roadway. V1 attempted to make a left turn going eastbound when V2's front end struck V1's right front in a corner type impact. V1 turned and began traveling in a northwest direction, left the roadway and it's right side struck a utility pole. V1 continued traveling in a northwest direction reentered the roadway crossed two lanes and exited the roadway a second time coming to final rest facing northwest. V2 continued traveling in a northeast direction until V2's front end struck V3's front end. V2 came to final rest facing northeast. V3 came to final rest facing west. V1, V2 and V3 were towed due to damage. the driver of V1 and the driver of V2 were transported to a trauma center for treatment.)



Vehicle	Body type	Make	Model	Year	Occ.#	Age	Occupant's sex	Maximum known occupant ais
1	4-DR SEDAN/HDTOP	Honda	Accord	2003	1	86	FEMALE-NOT PREG	3=Serious
2	COMPACT UTILITY	Toyota	4-Runner	1995	1	46	FEMALE-NOT PREG	1=Minor
3	STATION WAGON	Saturn	SW	2001	1	59	FEMALE-NOT PREG	1=Minor

Occupant: 2004-41-146-1-1**Fire Information**

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

**Crash Severity**

Nr. Quarter Turns	No rollover
Impact Speed	998
Total, Longitudal, and Lateral δV	23 -12 -20
Est. δV with sequence number	DELTA V CODED 1
CDC	2 R F E W 3
Damage (C1-C6)	0 0 0 0 0 0
Crush (L and D)	0 0
Object Contacted 1	VEHICLE NO. 2
Object Contacted 2	MEDIUM POLE

NASS Weighting Factor

Weighting factor	23.385
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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/W/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)	96

Vehicle Factors

Make-Model	Honda Accord
Year	2003
Class	PASSENGER CAR
Body Type	4-DR SEDAN/HDTOP
Weight	139

Pre-Crash Driver Data

Accident Type	68
Pre-event Movement	TURNING LEFT
Critical Pre-crash Event	TURN LEFT-INTERS
Attempted Avoidance Manuever	STEERING LEFT
Pre-impact Stability	TRACKING
Pre-impact Location	STAYED IN LANE

DRIVER Factors

Age	86	Height	168	Weight	71
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	2004-41-146-1-1
MAIS	3=Serious
Seat Position	Front left side

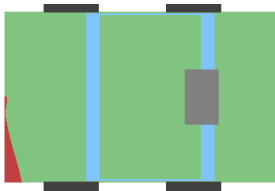
AIS Level	Injury Description	Contacts
1=Minor	Upper extremity skin contusion	Air bag-DR side
1=Minor	Leg skin contusion (hematoma)	Knee bolster
3=Serious	Pelvic fracture, open/displaced/comminuted	Knee bolster
3=Serious	851614	Floor
2=Moderate	Rib cage fracture NFS	Left interior
1=Minor	Facial skin contusion	Steering rim
1=Minor	Leg skin contusion (hematoma)	Belt webb/buckle

Occupant: 2004-41-146-2-1



Fire Information

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



Pre-Crash Environment

Traffic Flow	DVDED/NO BARRIER
Number of Travel Lanes	THREE
Roadway Alignment	STRAIGHT
Roadway Profile	LEVEL
Roadway Surface Type	ASPHALT
Roadway Surface Condition	DRY
Light Conditions	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)	96

Vehicle Factors

Make-Model	Toyota 4-Runner
Year	1995
Class	TRUCK
Body Type	COMPACT UTILITY
Weight	171

Crash Severity

Nr. Quarter Turns	No rollover
Impact Speed	998
Total, Longitudal, and Lateral δV	19 -19 3
Est. δV with sequence number	DELTA V CODED 1
CDC	12 F L E E 2
Damage (C1-C6)	26 19 12 6 0 4
Crush (L and D)	160 -62
Object Contacted 1	VEHICLE NO. 1
Object Contacted 2	VEHICLE NO. 3

Pre-Crash Driver Data

Accident Type	69
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	STAYED IN LANE

NASS Weighting Factor

Weighting factor	23.385
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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	46	Height	999	Weight	999
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	2004-41-146-2-1
MAIS	1=Minor
Seat Position	Front left side

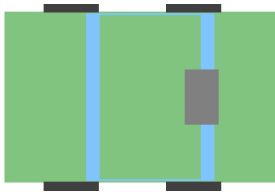
AIS Level	Injury Description	Contacts
1=Minor	Thoracic skin contusion	Belt webb/buckle
1=Minor	Lumbar spine acute strain without fracture or dislocation	Other noncontact

Occupant: 2004-41-146-3-1



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



Crash Severity

Nr. Quarter Turns	No rollover
Impact Speed	999
Total, Longitudal, and Lateral δV	999 999 999
Est. δV with sequence number	MINOR 3
CDC	12 F L E S 99
Damage (C1-C6)	0 0 0 0 0 0
Crush (L and D)	0 0
Object Contacted 1	VEHICLE NO. 2
Object Contacted 2	0

NASS Weighting Factor

Weighting factor	23.385
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Rollover Characteristics

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

Pre-Crash Environment

Traffic Flow	Not DIVIDED
Number of Travel Lanes	THREE
Roadway Alignment	STRAIGHT
Roadway Profile	LEVEL
Roadway Surface Type	ASPHALT
Roadway Surface Condition	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)	96

Vehicle Factors

Make-Model	Saturn SW
Year	2001
Class	PASSENGER CAR
Body Type	STATION WAGON
Weight	112

Pre-Crash Driver Data

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

DRIVER Factors

Age	59	Height	160	Weight	73
Gender					FEMALE-NOT PREG
Ejection					No EJECTION
Ejection Area					No EJECTION
Entrapment					Not ENTRAPPED

Restraint Factors

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

Injuries

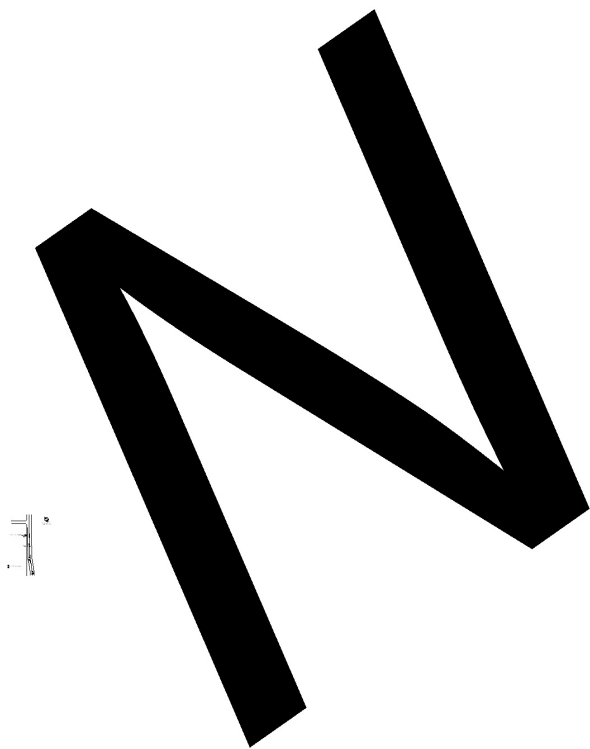
Occupant	2004-41-146-3-1
MAIS	1=Minor
Seat Position	Front left side

AIS Level	Injury Description	Contacts
1=Minor	Scalp contusion	Steering rim
1=Minor	297402	Sunvisor
1=Minor	297402	Steering rim
1=Minor	Upper extremity skin contusion	Unknown SOURCE

14 Case 2004-43-144

Summary:

This was a single vehicle crash that occurred in a rural area. It was dark and rainy at the time of the crash. V1, a 1995 Ford Explorer, was traveling north on a 2-lane undivided road approaching a right curve. As V1 negotiated the curve, it lost traction and began to rotate counterclockwise. V1 passed through the southbound travel lane while continuing to rotate, then departed the roadway altogether to the left (West). The right plane of V1 struck a tree on the West roadside, where it came to immediate rest. The vehicle was towed from the scene. The restrained driver of V1, its sole occupant, received "A" injuries and was hospitalized.)



Vehicle	Body type	Make	Model	Year	Occ.#	Age	Occupant's sex	Maximum known occupant ais
1	COMPACT UTILITY	Ford	Bronco II	1995	1	24	MALE	5=Critical

Occupant: 2004-43-144-1-1



Fire Information

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



Crash Severity

Nr. Quarter Turns	No rollover
Impact Speed	998
Total, Longitudal, and Lateral δV	51 9 -50
Est. δV with sequence number	DELTA V CODED 1
CDC	3 R P A W 6
Damage (C1-C6)	0 6 18 57 78 14
Crush (L and D)	247 -9
Object Contacted 1	LARGE TREE
Object Contacted 2	0

NASS Weighting Factor

Weighting factor	40.259
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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 RIGHT
Roadway Profile	LEVEL
Roadway Surface Type	ASPHALT
Roadway Surface Condition	WET
Light Conditions	DARK
Atmospheric Conditions	RAIN
Relation to Intersection	NONINTER/NONJUNC
Traffic Control Device	
Police Reported Alcohol Presence	No ALCOHOL
Alcohol Test (< 95 indicates BAC 0.xx)	96

Vehicle Factors

Make-Model	Ford Bronco II
Year	1995
Class	TRUCK
Body Type	COMPACT UTILITY
Weight	170

Pre-Crash Driver Data

Accident Type	7
Pre-event Movement	NEGOTIATE CURVE
Critical Pre-crash Event	TRAVEL TOO FAST
Attempted Avoidance Manuever	99
Pre-impact Stability	LATERAL SKID-CLK
Pre-impact Location	DEPARTED ROADWAY

DRIVER Factors

Age	24	Height	999	Weight	999
Gender			MALE		
Ejection			No EJECTION		
Ejection Area			No EJECTION		
Entrapment			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	2004-43-144-1-1
MAIS	5=Critical
Seat Position	Front left side

AIS Level	Injury Description	Contacts
3=Serious	Cerebral subarachnoid hemorrhage	Right wind frame
5=Critical	Intracerebral hematoma, small, bilateral	Right wind frame
2=Moderate	Clavicle fracture	Right B pillar
1=Minor	Neck skin laceration, minor	Right B pillar
3=Serious	Cerebral contusions, multiple, unilateral but NFS	Right wind frame
4=Severe	Cerebral intraventricular hemorrhage	Right wind frame
2=Moderate	Skull fracture, vault, closed (simple, undisplaced)	Right wind frame

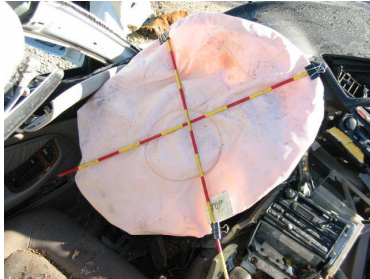
15 Case 2004-43-312

Summary:

V1 was traveling South in lane 1 of a 2-lane roadway while negotiating a curve left. The driver of V1 lost control, rotated counter-clockwise and exited the roadway to the left. V1 struck four fence posts with its right side and then struck a tree with its right side. V1 rotated to the right and struck a tree with its front and came to rest facing South. V1 was towed from the scene. The driver of V1 reported moderate injuries and was transported to a trauma center by EMS. Occupants 2 and 3 of V1 suffered fatal injuries.)

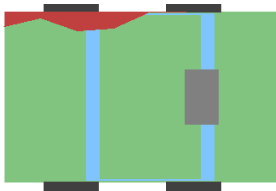
Vehicle	Body type	Make	Model	Year	Occ.#	Age	Occupant's sex	Maximum known occupant ais
1	4-DR SEDAN/HDTOP	Acura	Legend	1993	1	31	MALE	4=Severe
1	4-DR SEDAN/HDTOP	Acura	Legend	1993	2	26	FEMALE-NOT PREG	6=Maximum
1	4-DR SEDAN/HDTOP	Acura	Legend	1993	3	5	MALE	5=Critical

Occupant: 2004-43-312-1-1



Fire Information

Fire Occurence	No fire
Fire Origin	No fire
Location of Fuel Leakage	No fuel leakage
Type of Fuel Tank	Metallic
Fuel Tank Location	Forward of rear axle, centered
Fuel Cap Location	Left side, behind rear axle
Fuel Tank Damage	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	No ALCOHOL
Alcohol Test (< 95 indicates BAC 0.xx)	96

Crash Severity

Nr. Quarter Turns	No rollover
Impact Speed	998
Total, Longitudal, and Lateral δV	29 -19 -22
Est. δV with sequence number	DELTA V CODED 5
CDC	2 R Y A W 3
Damage (C1-C6)	0 0 23 27 8 21
Crush (L and D)	390 104
Object Contacted 1	LARGE TREE
Object Contacted 2	LARGE TREE

NASS Weighting Factor

Weighting factor	40.581
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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	Acura Legend
Year	1993
Class	PASSENGER CAR
Body Type	4-DR SEDAN/HDTOP
Weight	160

Pre-Crash Driver Data

Accident Type	7
Pre-event Movement	NEGOTIATE CURVE
Critical Pre-crash Event	OFF EDGE-LEFT
Attempted Avoidance Manuever	99
Pre-impact Stability	LAT SKID-CTR CLK
Pre-impact Location	DEPARTED ROADWAY

DRIVER Factors

Age	31	Height	999	Weight	999
Gender			MALE		
Ejection			No EJECTION		
Ejection Area			No EJECTION		
Entrapment			Not ENTRAPPED		

Restraint Factors

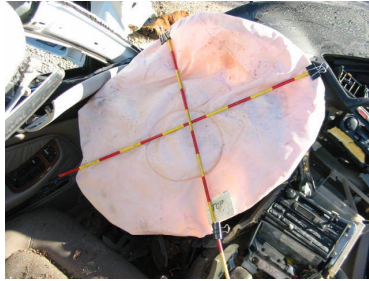
Restrain	Lap and shoulder
AOPS	YES-RES DET
Airbag Deployment	BAG DEPLOYED
Airbag Deployment - 1 st Seat	DR
PAS BAG DEPLY	
Airbag Deployment - Oth Seat	Not EQUIP W/ OTH

Injuries

Occupant	2004-43-312-1-1
MAIS	4=Severe
Seat Position	Front left side

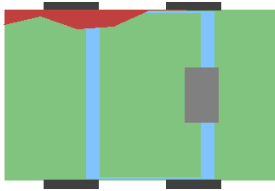
AIS Level	Injury Description	Contacts
1=Minor	297202	Air bag-DR side
1=Minor	Abdominal skin abrasion	Transmiss lever
1=Minor	Abdominal skin contusion	Belt webb/buckle
1=Minor	Upper extremity skin abrasion	Seat, back
1=Minor	Upper extremity skin abrasion	Center panel
3=Serious	Thoracic cavity injury NFS, with hemo-/pneumothorax	Belt webb/buckle
4=Severe	Cerebral hematoma, NFS	Roof
3=Serious	Cerebral subarachnoid hemorrhage	Roof

Occupant: 2004-43-312-1-2



Fire Information

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



Crash Severity

Nr. Quarter Turns	No rollover
Impact Speed	998
Total, Longitudal, and Lateral δV	29 -19 -22
Est. δV with sequence number	DELTA V CODED 5
CDC	2 R Y A W 3
Damage (C1-C6)	0 0 23 27 8 21
Crush (L and D)	390 104
Object Contacted 1	LARGE TREE
Object Contacted 2	LARGE TREE

NASS Weighting Factor

Weighting factor	40.581
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Rollover Characteristics

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

Pre-Crash Environment

Traffic Flow	Not DIVIDED
Number of Travel Lanes	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	No ALCOHOL
Alcohol Test (< 95 indicates BAC 0.xx)	96

Vehicle Factors

Make-Model	Acura Legend
Year	1993
Class	PASSENGER CAR
Body Type	4-DR SEDAN/HDTOP
Weight	160

Pre-Crash Driver Data

Accident Type	7
Pre-event Movement	NEGOTIATE CURVE
Critical Pre-crash Event	OFF EDGE-LEFT
Attempted Avoidance Manuever	99
Pre-impact Stability	LAT SKID-CTR CLK
Pre-impact Location	DEPARTED ROADWAY

PASSENGER Factors

Age	26	Height	155	Weight	77
Gender					FEMALE-NOT PREG
Ejection					PARTIAL EJECTION
Ejection Area					9
Entrapment					Not ENTRAPPED

Restraint Factors

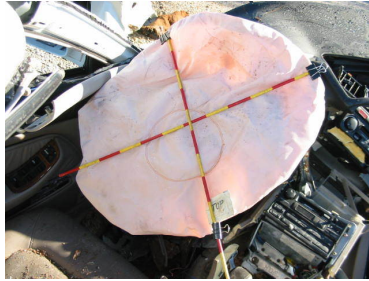
Restrain	Lap and shoulder
AOPS	YES-RES DET
Airbag Deployment	BAG DEPLOYED
Airbag Deployment - 1 st Seat	DR
PAS BAG DEPLY	
Airbag Deployment - Oth Seat	Not EQUIP W/ OTH

Injuries

Occupant	2004-43-312-1-2
MAIS	6=Maximum
Seat Position	Front right side

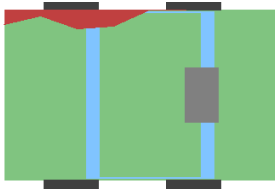
AIS Level	Injury Description	Contacts
1=Minor	Facial skin laceration, minor	Other veh or obj
1=Minor	Facial skin laceration, minor	Other veh or obj
3=Serious	Skull fracture, vault, comminuted (compound, depressed)	Other veh or obj
1=Minor	Scalp laceration, minor	Right A pillar
1=Minor	Facial skin abrasion	Flying glass
1=Minor	Scalp contusion	Other veh or obj
4=Severe	Basilar skull fracture, open, with brain tissue loss.	Other veh or obj
3=Serious	Cerebral subarachnoid hemorrhage	Other veh or obj
6=Maximum	Brain stem laceration	Other veh or obj
1=Minor	Thoracic skin abrasion	Flying glass
1=Minor	Thoracic skin contusion	Right interior
1=Minor	Abdominal skin abrasion	Right interior
1=Minor	Abdominal skin contusion	Right interior
1=Minor	Perineal laceration NFS	Right interior
4=Severe	>3 rib fxs on one side & <3 other side & hemo-/pneumothorax	Right interior
5=Critical	Thoracic aortic laceration, major NFS	Right interior
4=Severe	440606	Right interior
5=Critical	Massive hepatic injury (>502=Moderate	Pelvic fracture NFS
Right interior		
1=Minor	Leg skin laceration NFS	Right interior
3=Serious	Femur fracture NFS	Right interior
3=Serious	Tibial shaft fracture, open/displaced/comminuted	Right interior
2=Moderate	Fibular head, neck, or shaft fracture	Right interior
1=Minor	Leg skin contusion (hematoma)	Right panel
2=Moderate	851605	Right panel
2=Moderate	Tibial fracture NFS	Right panel
1=Minor	Leg skin abrasion	Right panel
1=Minor	Upper extremity skin abrasion	Right interior
1=Minor	Upper extremity skin contusion	Right interior

Occupant: 2004-43-312-1-3



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	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	No ALCOHOL
Alcohol Test (< 95 indicates BAC 0.xx)	96

Vehicle Factors

Make-Model	Acura Legend
Year	1993
Class	PASSENGER CAR
Body Type	4-DR SEDAN/HDTOP
Weight	160

Crash Severity

Nr. Quarter Turns	No rollover
Impact Speed	998
Total, Longitudal, and Lateral δV	29 -19 -22
Est. δV with sequence number	DELTA V CODED 5
CDC	2 R Y A W 3
Damage (C1-C6)	0 0 23 27 8 21
Crush (L and D)	390 104
Object Contacted 1	LARGE TREE
Object Contacted 2	LARGE TREE

Pre-Crash Driver Data

Accident Type	7
Pre-event Movement	NEGOTIATE CURVE
Critical Pre-crash Event	OFF EDGE-LEFT
Attempted Avoidance Manuever	99
Pre-impact Stability	LAT SKID-CTR CLK
Pre-impact Location	DEPARTED ROADWAY

NASS Weighting Factor

Weighting factor	40.581
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PASSENGER Factors

Age	5	Height	112	Weight	24
Gender			MALE		
Ejection			No EJECTION		
Ejection Area			No EJECTION		
Entrapment			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	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	2004-43-312-1-3
MAIS	5=Critical
Seat Position	Second right

AIS Level	Injury Description	Contacts
1=Minor	297402	Right interior
1=Minor	297402	Right interior
2=Moderate	Nose fracture, open/displaced/comminuted	Right interior
2=Moderate	Mandible body (+/- ramus) fracture, open/displaced/comminuted	Right interior
1=Minor	Facial skin contusion	Right interior
1=Minor	Facial skin abrasion	Right interior
2=Moderate	Skull fracture, vault, NFS	Roof right rail
3=Serious	Cerebral subarachnoid hemorrhage	Roof right rail
1=Minor	Facial skin laceration NFS	Flying glass
1=Minor	Neck skin abrasion	Unknown SOURCE
1=Minor	Neck skin contusion (hematoma)	Unknown SOURCE
1=Minor	Neck skin abrasion	Belt webb/buckle
5=Critical	Cord laceration, complete, C4 or below, with fracture	Roof right rail
1=Minor	Upper extremity skin abrasion	Right interior
1=Minor	Upper extremity skin contusion	Right interior
4=Severe	>3 rib fxs on one side & <3 other side & hemo-/pneumothorax	Right interior
1=Minor	Leg skin contusion (hematoma)	Right interior
1=Minor	Leg skin abrasion	Right interior
1=Minor	Leg skin contusion (hematoma)	Seat, back
2=Moderate	Fibular head, neck, or shaft fracture	Right interior
2=Moderate	Tibial shaft fracture	Right interior

16 Case 2004-45-4

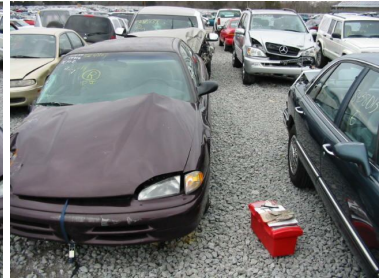
Summary:

Vehicle #1 (1995 Dodge Intrepid) was traveling west from a fast-food restuarant driveway across a five lane roadway toward a shopping center driveway on the west side of the roadway. Vehicle #2 (1989 Chevrolet Blazer) was traveling south in the center travel lane of a five lane roadway that has a center right/left turn lane. Vehicle #1 was struck on the right side (front) by the front of Vehicle #2. Vehicle #1 rotated counterclockwise and Vehicle #2 rotated clockwise, Vehicle #1's right (back) striking the left side of Vehicle #2. Vehicle #1 then came to rest on the west side paved shoulder facing south just beyond the entrance to a shopping center driveway. Vehicle #2 then came to rest in the shopping center driveway facing southwest. The belted driver of the non-deployed aribag equipped Vehicle #1 was transported to a medical facility. The belted driver and passenber of Vehicle #2 were transported to a medical facility. The vehicles were towed from the scene of the event. Note: The driver of Vehicle #1 died of medical problems, not related to the event, a few days later.)



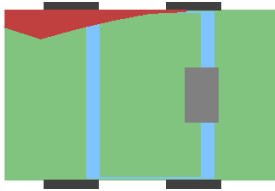
Vehicle#	Body type	Make	Model	Year	Occ.#	Age	Occupant's sex	Maximum known occupant ais
1	4-DR SEDAN/HDTOP	Dodge	Intrepid	1995	1	79	MALE	3=Serious
2	COMPACT UTILITY	Chevrolet	S-10 Blazer	1989	1	24	MALE	1=Minor
2	COMPACT UTILITY	Chevrolet	S-10 Blazer	1989	2	25	MALE	1=Minor

Occupant: 2004-45-4-1-1



Fire Information

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



Pre-Crash Environment

Traffic Flow	ONE WAY
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	DRIVEWAY RELATED
Traffic Control Device	
Police Reported Alcohol Presence	No ALCOHOL
Alcohol Test (< 95 indicates BAC 0.xx)	96

Vehicle Factors

Make-Model	Dodge Intrepid
Year	1995
Class	PASSENGER CAR
Body Type	4-DR SEDAN/HDTOP
Weight	146

Crash Severity

Nr. Quarter Turns	No rollover
Impact Speed	998
Total, Longitudal, and Lateral δV	31 -20 -24
Est. δV with sequence number	DELTA V CODED 1
CDC	2 R Y A W 3
Damage (C1-C6)	2 5 15 27 42 24
Crush (L and D)	214 151
Object Contacted 1	VEHICLE NO. 2
Object Contacted 2	VEHICLE NO. 2

Pre-Crash Driver Data

Accident Type	87
Pre-event Movement	GOING STRAIGHT
Critical Pre-crash Event	TURN LEFT-INTERS
Attempted Avoidance Manuever	No AVOIDANCE
Pre-impact Stability	TRACKING
Pre-impact Location	Left TRAVEL LANE

NASS Weighting Factor

Weighting factor	41.436
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DRIVER Factors

Rollover Characteristics		Age	79	Height	173	Weight	64
		Gender			MALE		
		Ejection			No EJECTION		
		Ejection Area			No EJECTION		
		Entrapment			Not ENTRAPPED		
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	NONDEPLOYED
Airbag Deployment - 1 st Seat	NONDEPLOYED
Airbag Deployment - Oth Seat	Not EQUIP W/ OTH

Injuries

Occupant	2004-45-4-1-1
MAIS	3=Serious
Seat Position	Front left side

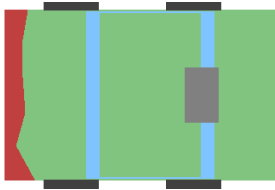
AIS Level	Injury Description	Contacts
2=Moderate	Pelvic fracture NFS	Oth interior obj
2=Moderate	Pelvic fracture NFS	Oth interior obj
1=Minor	Leg skin contusion (hematoma)	Knee bolster
1=Minor	Leg skin abrasion	Knee bolster
3=Serious	2-3 rib fractures with stable chest and hemo-/pneumothorax	Oth interior obj
2=Moderate	Tibial condylar fracture	Knee bolster
1=Minor	Thoracic skin contusion	Unknown SOURCE

Occupant: 2004-45-4-2-1



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	FIVE
Roadway Alignment	STRAIGHT
Roadway Profile	LEVEL
Roadway Surface Type	ASPHALT
Roadway Surface Condition	DRY
Light Conditions	DAYLIGHT
Atmospheric Conditions	No ADVERSE COND
Relation to Intersection	DRIVEWAY RELATED
Traffic Control Device	
Police Reported	Alcohol Not REPORTED
Presence	
Alcohol Test (< 95 indicates	96
BAC 0.xx)	

Crash Severity

Nr. Quarter Turns	No rollover
Impact Speed	998
Total, Longitudal, and Lateral δV	26 -20 17
Est. δV with sequence number	DELTA V CODED 1
CDC	11 F D E W 2
Damage (C1-C6)	44 17 31 27 26 34
Crush (L and D)	160 0
Object Contacted 1	VEHICLE NO. 1
Object Contacted 2	VEHICLE NO. 1

NASS Weighting Factor

Weighting factor	41.436
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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

Vehicle Factors

Make-Model	Chevrolet S-10 Blazer
Year	1989
Class	TRUCK
Body Type	COMPACT UTILITY
Weight	151

Pre-Crash Driver Data

Accident Type	86
Pre-event Movement	GOING STRAIGHT
Critical Pre-crash Event	XING ST-SAME DIR
Attempted Avoidance Maneuver	99
Pre-impact Stability	TRACKING
Pre-impact Location	STAYED IN LANE

DRIVER Factors

Age	24	Height	180	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	2004-45-4-2-1
MAIS	1=Minor
Seat Position	Front left side

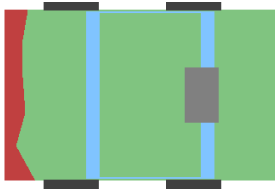
AIS Level	Injury Description	Contacts
1=Minor	Lumbar spine acute strain without fracture or dislocation	Other noncontact

Occupant: 2004-45-4-2-2



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	FIVE
Roadway Alignment	STRAIGHT
Roadway Profile	LEVEL
Roadway Surface Type	ASPHALT
Roadway Surface Condition	DRY
Light Conditions	DAYLIGHT
Atmospheric Conditions	No ADVERSE COND
Relation to Intersection	DRIVEWAY RELATED
Traffic Control Device	
Police Reported Alcohol Presence	Not REPORTED
Alcohol Test (< 95 indicates BAC 0.xx)	96

Crash Severity

Nr. Quarter Turns	No rollover
Impact Speed	998
Total, Longitudal, and Lateral δV	26 -20 17
Est. δV with sequence number	DELTA V CODED 1
CDC	11 F D E W 2
Damage (C1-C6)	44 17 31 27 26 34
Crush (L and D)	160 0
Object Contacted 1	VEHICLE NO. 1
Object Contacted 2	VEHICLE NO. 1

NASS Weighting Factor

Weighting factor	41.436
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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 S-10 Blazer
Year	1989
Class	TRUCK
Body Type	COMPACT UTILITY
Weight	151

Pre-Crash Driver Data

Accident Type	86
Pre-event Movement	GOING STRAIGHT
Critical Pre-crash Event	XING ST-SAME DIR
Attempted Avoidance Manuever	99
Pre-impact Stability	TRACKING
Pre-impact Location	STAYED IN LANE

PASSENGER Factors

Age	25	Height	185	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

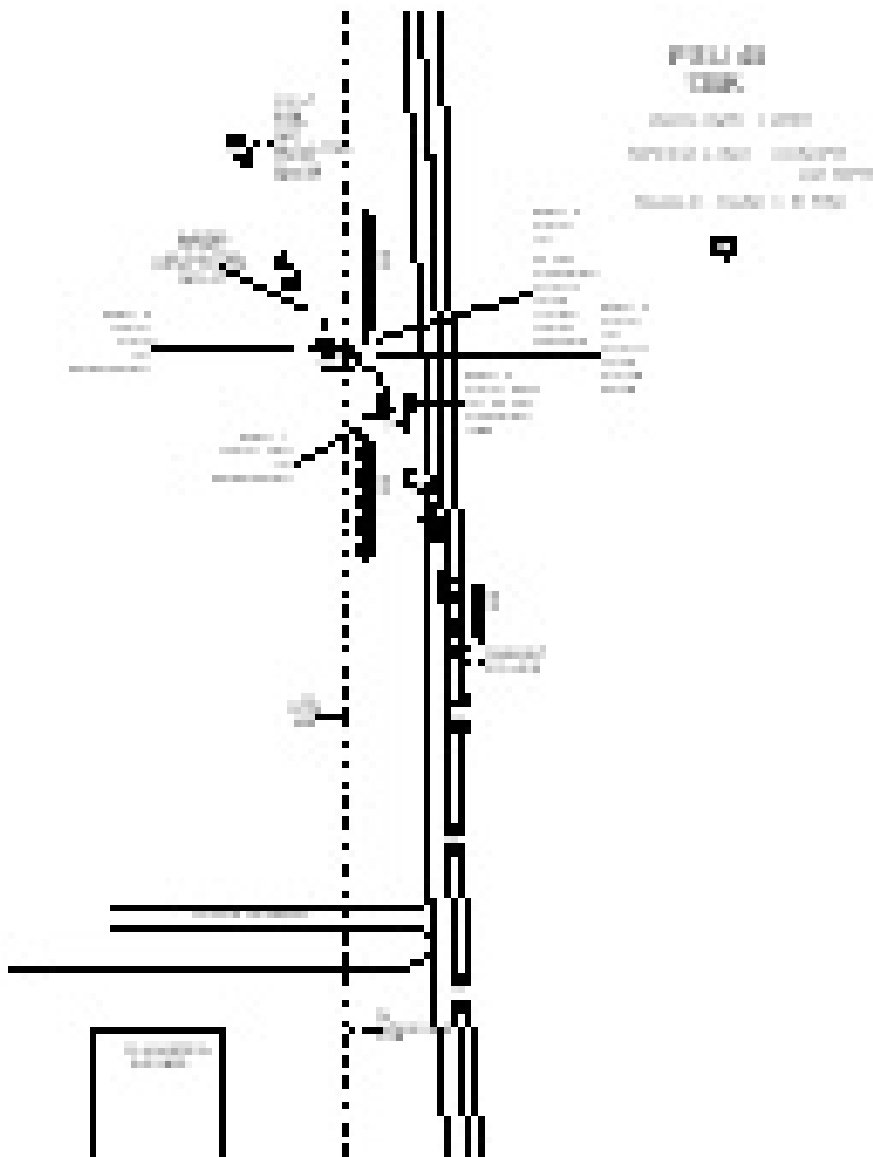
Occupant	2004-45-4-2-2
MAIS	1=Minor
Seat Position	Front right side

AIS Level	Injury Description	Contacts
1=Minor	Scalp contusion	Int loose obj
1=Minor	Leg skin contusion (hematoma)	Glove door
1=Minor	Acute cervical spine strain without fracture or dislocation	Other noncontact

17 Case 2004-45-130

Summary:

V1 was traveling west on a two-lane undivided roadway with two-way traffic. The driver was exiting a right curve in the roadway when the vehicle departed the right edge of the pavement. The driver attempted to correct by steering to the left. The vehicle entered a counter-clockwise yaw as it departed the left side of the roadway, traveling southwest. The front left bumper impacted an embankment. Then the right side back contacted a 55-centimeter tree. As the vehicle continued southwest down an embankment, the right side contacted a guide wire and a 33-centimeter utility pole. After the vehicle contacted the utility pole, the front right bumper struck an embankment and the right front door came open due to body deformation, ejecting the belted driver. The driver came to rest approximately 4 meters southwest of the struck pole. The vehicle came to rest facing southwest approximately 17 meters southwest of the struck pole. The ejected driver was hospitalized. The vehicle was equipped with a driver airbag, which was deployed. The disabled vehicle was towed from the crash. Please see case notes concerning belt usage.)



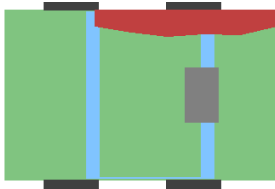
Vehicle	Body type	Make	Model	Year	Occ.#	Age	Occupant's sex	Maximum known occupant ais
1	4-DR SEDAN/HDTOP	Mazda	626	1993	1	19	MALE	4=Severe

Occupant: 2004-45-130-1-1



Fire Information

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



Pre-Crash Environment

Traffic Flow	Not DIVIDED
Number of Travel Lanes	TWO
Roadway Alignment	CURVE RIGHT
Roadway Profile	UPHILL GRADE
Roadway Surface Type	ASPHALT
Roadway Surface Condition	DRY
Light Conditions	DAYLIGHT
Atmospheric Conditions	No ADVERSE COND
Relation to Intersection	NONINTER/NONJUNC
Traffic Control Device	
Police Reported Alcohol Presence	No ALCOHOL
Alcohol Test (< 95 indicates BAC 0.xx)	97

Vehicle Factors

Make-Model	Mazda 626
Year	1993
Class	PASSENGER CAR
Body Type	4-DR SEDAN/HDTOP
Weight	124

Crash Severity

Nr. Quarter Turns	No rollover
Impact Speed	999
Total, Longitudal, and Lateral δV	999 999 999
Est. δV with sequence number	DELTA V CODED 4
CDC	2 R Z A W 3
Damage (C1-C6)	23 36 34 38 32 23
Crush (L and D)	74 -100
Object Contacted 1	MEDIUM POLE
Object Contacted 2	LARGE TREE

Pre-Crash Driver Data

Accident Type	7
Pre-event Movement	NEGOTIATE CURVE
Critical Pre-crash Event	TRAVEL TOO FAST
Attempted Avoidance Manuever	BRAKE+STEER LEFT
Pre-impact Stability	LAT SKID-CTR CLK
Pre-impact Location	DEPARTED ROADWAY

NASS Weighting Factor

Weighting factor	51.137
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DRIVER Factors

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

Age	19	Height	183	Weight	79
Gender					MALE
Ejection					COMPLETE EJECT
Ejection Area					Right FRONT
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

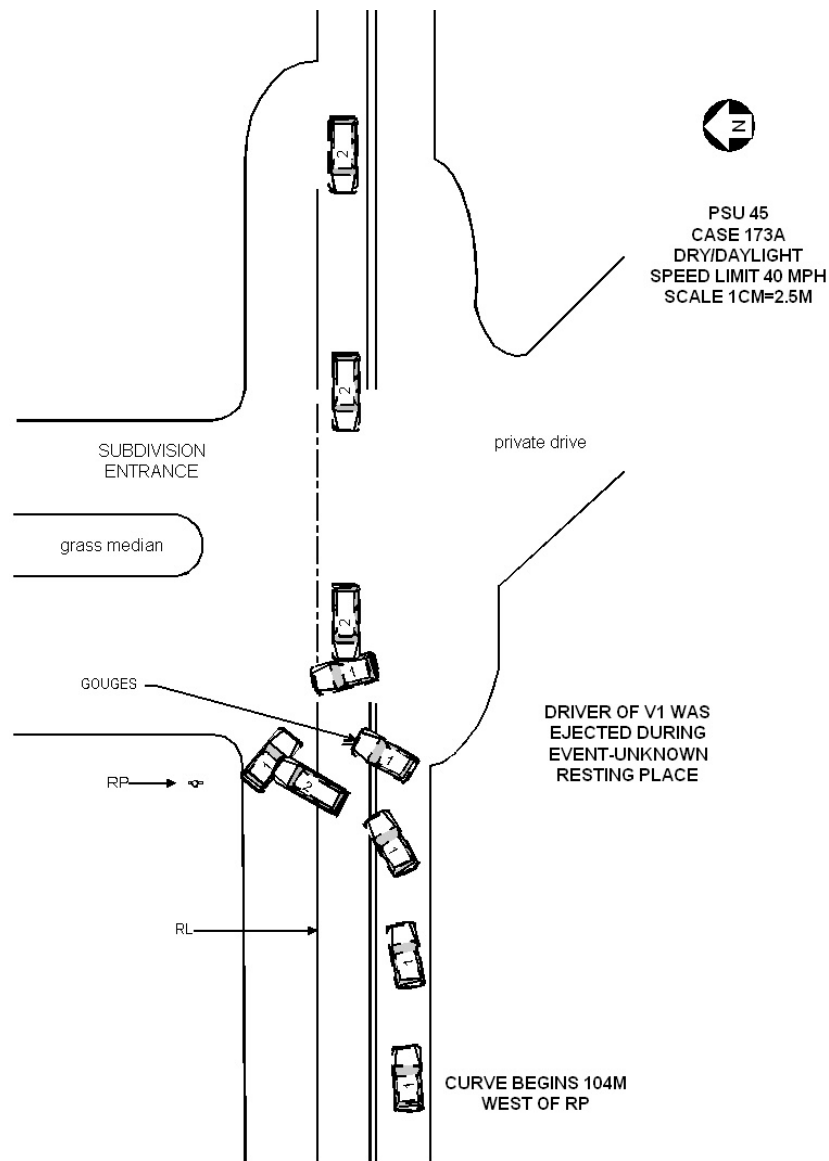
Occupant	2004-45-130-1-1
MAIS	4=Severe
Seat Position	Front left side

AIS Level	Injury Description	Contacts
3=Serious	Humeral fracture, open/displaced/comminuted	Ground
4=Severe	Splenic laceration, major (segmental injury, no hilar injury)	Ground
4=Severe	Lung contusion, bilateral	Ground
1=Minor	Thoracic skin abrasion	Ground
1=Minor	Leg skin contusion (hematoma)	Ground
1=Minor	Leg skin abrasion	Ground
1=Minor	Facial skin contusion	Ground
1=Minor	Facial skin contusion	Ground
1=Minor	Upper extremity skin contusion	Ground
1=Minor	Facial skin laceration, minor	Ground
1=Minor	Facial skin laceration, minor	Ground
1=Minor	Scalp laceration, minor	Ground
3=Serious	Cerebral contusions, multiple, unilateral, small (<30ccs)	Ground
2=Moderate	Skull fracture, vault, closed (simple, undisplaced)	Ground
3=Serious	Basilar skull fracture, NFS	Ground
2=Moderate	Orbit fracture, closed	Ground
1=Minor	297402	Ground
3=Serious	>3 rib fractures one side & <3 other side, with stable chest	Ground

18 Case 2004-45-173

Summary:

V1, a 2002 Porsche 911 was eastbound on a two lane suburban roadway under dry/daylight conditions with a speed limit of 40 MPH. V2, a 1999 Toyota Landcruiser, was westbound on the same road. As V1 exited a left curve, V1 lost control, entered a counterclockwise yaw and crossed over into the westbound lane. V2 front impacted V1 in the right side. V1 came to final rest facing southeast in the westbound lane. V2 came to final rest facing northeast. Belted driver of V1 was completely ejected via the LF door and was fatal at the scene. Belted driver of V2 was transported for treatment. Both frontal, and the right front side airbag deployed on V1. Both frontal airbags deployed on V2. Both vehicles were towed from the scene.)



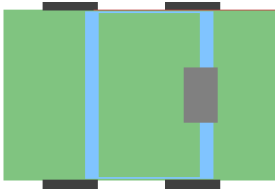
Vehicle	Body type	Make	Model	Year	Occ.#	Age	Occupant's sex	Maximum known occupant ais
1	CONVERTIBLE	Porsche	911	2002	1	53	MALE	6=Maximum
2	LARGE UTILITY	Toyota	Landcruiser	1999	1	51	FEMALE-NOT PREG	1=Minor

Occupant: 2004-45-173-1-1



Fire Information

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



Pre-Crash Environment

Traffic Flow	Not DIVIDED
Number of Travel Lanes	THREE
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	9
Alcohol Test (< 95 indicates BAC 0.xx)	0

Crash Severity

Nr. Quarter Turns	No rollover
Impact Speed	998
Total, Longitudal, and Lateral δV	67 -23 -63
Est. δV with sequence number	DELTA V CODED 1
CDC	2 R Z A W 7
Damage (C1-C6)	0 0 0 0 0 0
Crush (L and D)	0 0
Object Contacted 1	VEHICLE NO. 2
Object Contacted 2	0

NASS Weighting Factor

Weighting factor	44.296
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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	Porsche 911
Year	2002
Class	PASSENGER CAR
Body Type	CONVERTIBLE
Weight	144

Pre-Crash Driver Data

Accident Type	66
Pre-event Movement	NEGOTIATE CURVE
Critical Pre-crash Event	OVER LINE-LEFT
Attempted Avoidance Manuever	99
Pre-impact Stability	LAT SKID-CTR CLK
Pre-impact Location	Left TRAVEL LANE

DRIVER Factors

Age	53	Height	180	Weight	82
Gender					MALE
Ejection					PARTIAL EJECTION
Ejection Area					Left FRONT
Entrapment					Not ENTRAPPED

Restraint Factors

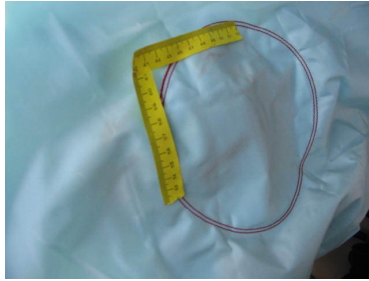
Restrain	Lap and shoulder
AOPS	YES-RES DET
Airbag Deployment	BAG DEPLOYED
Airbag Deployment - 1 st Seat	DR
PAS BAG DEPLY	
Airbag Deployment - Oth Seat	BAG DEPLOYED

Injuries

Occupant	2004-45-173-1-1
MAIS	6=Maximum
Seat Position	Front left side

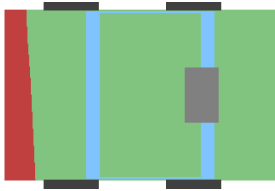
AIS Level	Injury Description	Contacts
6=Maximum	Head injury, crush (massive destruction of skull and brain)	Right A pillar
2=Moderate	Sclera laceration involving globe (includes rupture)	Right A pillar
2=Moderate	Clavicle fracture	Belt webb/buckle
2=Moderate	Clavicle fracture	Right interior
2=Moderate	Sternal fracture	Right interior
2=Moderate	2-3 rib fractures with stable chest	Right interior
1=Minor	Upper extremity skin abrasion	Belt webb/buckle
1=Minor	Thoracic skin abrasion	Belt webb/buckle
3=Serious	Pelvic fracture, open/displaced/comminuted	Right interior
3=Serious	851801	Right interior
3=Serious	Penile laceration, massive (amputation, complex, rupture)	Right interior
2=Moderate	Scrotal laceration, major (amputation, avulsion, complex)	Right interior
1=Minor	Leg skin laceration, minor	Left interior
2=Moderate	Humeral fracture NFS	Right interior
1=Minor	Upper extremity skin laceration NFS	Right interior

Occupant: 2004-45-173-2-1



Fire Information

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



Crash Severity

Nr. Quarter Turns	No rollover
Impact Speed	998
Total, Longitudal, and Lateral δV	32 -28 16
Est. δV with sequence number	DELTA V CODED 1
CDC	51 F D E W 2
Damage (C1-C6)	45 43 40 38 34 32
Crush (L and D)	178 0
Object Contacted 1	VEHICLE NO. 1
Object Contacted 2	0

NASS Weighting Factor

Weighting factor	44.296
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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	THREE
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)	97

Vehicle Factors

Make-Model	Toyota Landcruiser
Year	1999
Class	TRUCK
Body Type	LARGE UTILITY
Weight	311

Pre-Crash Driver Data

Accident Type	66
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	51	Height	165	Weight	61
Gender					FEMALE-NOT PREG
Ejection					No EJECTION
Ejection Area					No EJECTION
Entrapment					Not ENTRAPPED

Restraint Factors

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

Injuries

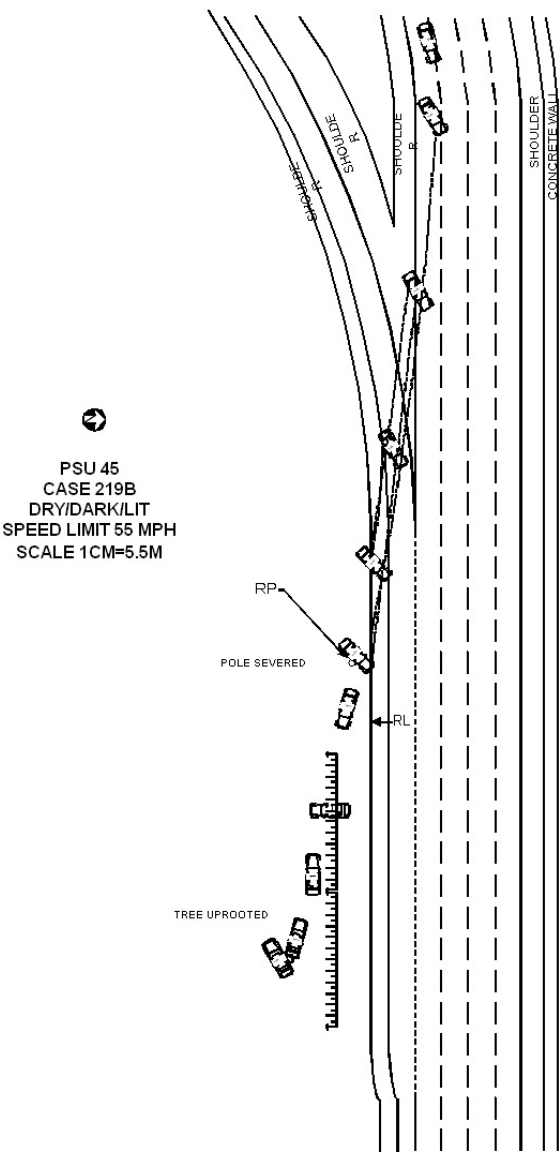
Occupant	2004-45-173-2-1
MAIS	1=Minor
Seat Position	Front left side

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

19 Case 2004-45-219

Summary:

V1, a 2004 Nissan 350Z, was eastbound on a 4 lane divided interstate road with a merging lane to the south (five lanes total), under dry/dark/lit conditions with a speed limit of 55 MPH. V1 lost control, entered into a counterclockwise yaw, departed the road to the right side, and impacted a metal utility pole with the right side. V1 continued east, traveled down an embankment and impacted a tree with the rear. V1 caught fire and was partially burned, with most of the fire damage coming to the right side and front of the vehicle. Both belted occupants expired at the scene. No airbags deployed. V1 was towed from the scene.)



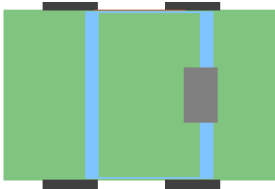
Vehicle	Body type	Make	Model	Year	Occ.#	Age	Occupant's sex	Maximum known occupant ais
1	3DR/2DR HATCHBAK	35	48	2004	1	25	MALE	6=Maximum
1	3DR/2DR HATCHBAK	35	48	2004	2	18	MALE	6=Maximum

Occupant: 2004-45-219-1-1



Fire Information

Fire Occurence	Major fire
Fire Origin	Fuel tank
Location of Fuel Leakage	Tank
Type of Fuel Tank	Metallic
Fuel Tank Location	Forward of rear axle, right side
Fuel Cap Location	Right side, behind rear axle
Fuel Tank Damage	Unknown
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	DARK/LIGHTED
Atmospheric Conditions	No ADVERSE COND
Relation to Intersection	NONINTER/NONJUNC
Traffic Control Device	
Police Reported Alcohol Presence	9
Alcohol Test (< 95 indicates BAC 0.xx)	97

Crash Severity

Nr. Quarter Turns	No rollover
Impact Speed	999
Total, Longitudal, and Lateral δV	999 999 999
Est. δV with sequence number	SEVERE 1
CDC	2 R P A W 5
Damage (C1-C6)	0 0 0 0 0 0
Crush (L and D)	0 0
Object Contacted 1	LARGE POLE
Object Contacted 2	LARGE TREE

NASS Weighting Factor

Weighting factor	80.065
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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	35 48
Year	2004
Class	PASSENGER CAR
Body Type	3DR/2DR HATCHBAK
Weight	143

Pre-Crash Driver Data

Accident Type	2
Pre-event Movement	GOING STRAIGHT
Critical Pre-crash Event	TRAVEL TOO FAST
Attempted Avoidance Manuever	BRAKE W/ LOCKUP
Pre-impact Stability	LAT SKID-CTR CLK
Pre-impact Location	DEPARTED ROADWAY

DRIVER Factors

Age	25	Height	185	Weight	88
Gender			MALE		
Ejection			No EJECTION		
Ejection Area			No EJECTION		
Entrapment			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	2004-45-219-1-1
MAIS	6=Maximum
Seat Position	Front left side

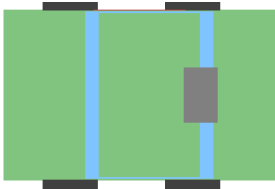
AIS Level	Injury Description	Contacts
6=Maximum	Burn, 2nd or 3rd degree, >907=Unk. sev.	115999
Unknown SOURCE		

Occupant: 2004-45-219-1-2



Fire Information

Fire Occurence	Major fire
Fire Origin	Fuel tank
Location of Fuel Leakage	Tank
Type of Fuel Tank	Metallic
Fuel Tank Location	Forward of rear axle, right side
Fuel Cap Location	Right side, behind rear axle
Fuel Tank Damage	Unknown
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	DARK/LIGHTED
Atmospheric Conditions	No ADVERSE COND
Relation to Intersection	NONINTER/NONJUNC
Traffic Control Device	
Police Reported Alcohol Presence	9
Alcohol Test (< 95 indicates BAC 0.xx)	97

Crash Severity

Nr. Quarter Turns	No rollover
Impact Speed	999
Total, Longitudal, and Lateral δV	999 999 999
Est. δV with sequence number	SEVERE 1
CDC	2 R P A W 5
Damage (C1-C6)	0 0 0 0 0 0
Crush (L and D)	0 0
Object Contacted 1	LARGE POLE
Object Contacted 2	LARGE TREE

NASS Weighting Factor

Weighting factor	80.065
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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	35 48
Year	2004
Class	PASSENGER CAR
Body Type	3DR/2DR HATCHBAK
Weight	143

Pre-Crash Driver Data

Accident Type	2
Pre-event Movement	GOING STRAIGHT
Critical Pre-crash Event	TRAVEL TOO FAST
Attempted Avoidance Manuever	BRAKE W/ LOCKUP
Pre-impact Stability	LAT SKID-CTR CLK
Pre-impact Location	DEPARTED ROADWAY

PASSENGER Factors

Age	18	Height	183	Weight	77
Gender			MALE		
Ejection			No EJECTION		
Ejection Area			No EJECTION		
Entrapment			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

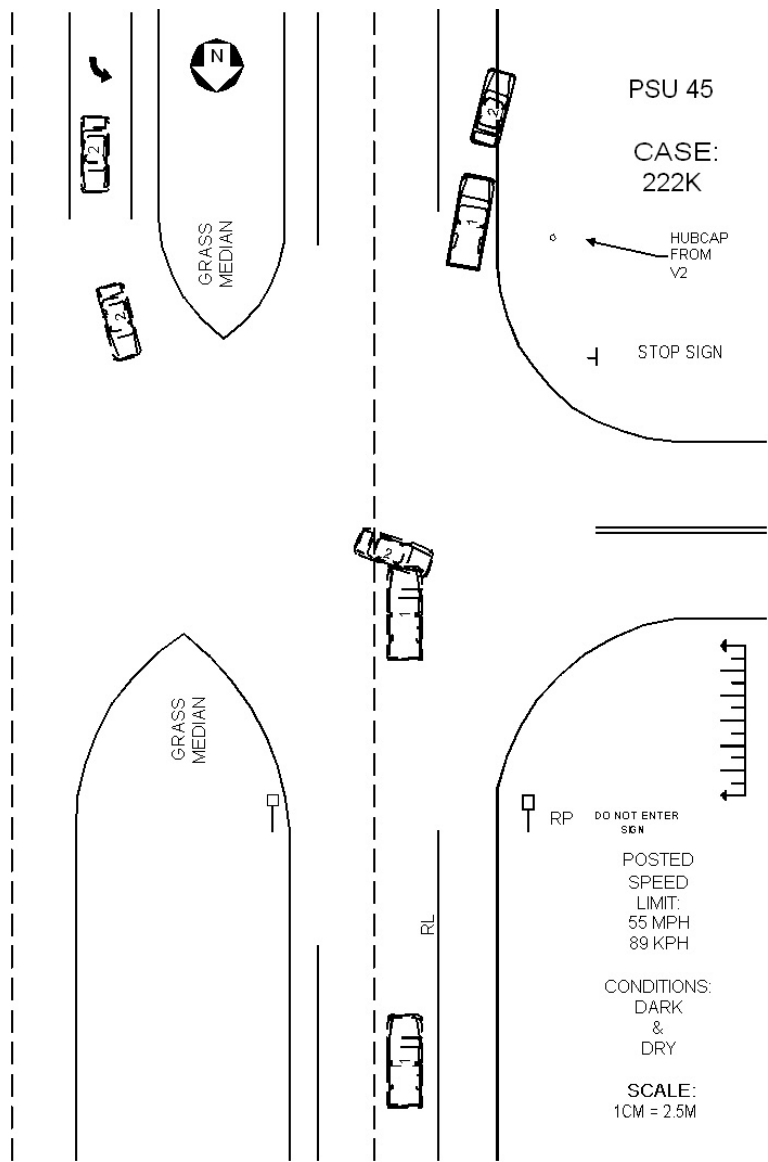
Occupant	2004-45-219-1-2
MAIS	6=Maximum
Seat Position	Front right side

AIS Level	Injury Description	Contacts
6=Maximum	Burn, 2nd or 3rd degree, >903=Serious	Thoracic cavity injury NFS, with hemo- /pneumothorax
Right interior 2=Moderate	Humeral fracture NFS	Right interior
3=Serious	Femur fracture NFS	Right interior

20 Case 2004-45-222

Summary:

Vehicle #1 (1986 Chevrolet Custom-Deluxe Pick-up with a camper top) was traveling south in the outside travel lane on a four lane roadway that has a center grass median and a cross-over in the center for an intersection roadway. Vehicle #2 (1999 Toyota Corolla 4-door sedan) was traveling north on a five lane roadway that has a center grass median and a left turn lane in the turn lane. Vehicle #2 crossed through the cross-over and across the southbound lanes and was struck in the right side by the front of Vehicle #1. Vehicle #2 rotated counterclockwise and came to rest beyond the intersection on the paved shoulder. Vehicle #1 came to rest beyond the intersection on the paved shoulder. The belted driver of Vehicle #1 was not injured. The belted driver of the airbag deployed Vehicle #2 was transported to a medical facility. The vehicles were towed from the scene of the event.)



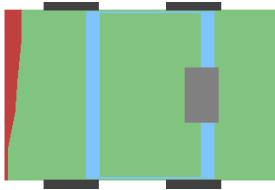
Vehicle #	Body type	Make	Model	Year	Occ.#	Age	Occupant's sex	Maximum known occupant
1	LARGE PICKUP	Chevrolet	C,K,R,V-series Pickup	1986	1	58	MALE	0=None
2	4-DR SEDAN/HDTOP	Toyota	Corolla	1999	1	73	FEMALE-NOT PREG	4=Severe

Occupant: 2004-45-222-1-1



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	22 -22 4
Est. δV with sequence number	DELTA V CODED 1
CDC	12 F D E W 1
Damage (C1-C6)	6 6 16 19 24 25
Crush (L and D)	180 0
Object Contacted 1	VEHICLE NO. 2
Object Contacted 2	0

NASS Weighting Factor

Weighting factor	87.855
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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	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)	96

Vehicle Factors

Make-Model	Chevrolet C,K,R,V-series
Year	Pickup 1986
Class	TRUCK
Body Type	LARGE PICKUP
Weight	191

Pre-Crash Driver Data

Accident Type	69
Pre-event Movement	GOING STRAIGHT
Critical Pre-crash Event	XING ST-X PATH
Attempted Avoidance Manuever	BRAKE UNK LOCKUP
Pre-impact Stability	TRACKING
Pre-impact Location	STAYED IN LANE

DRIVER Factors

Age	58	Height	185	Weight	100
Gender			MALE		
Ejection			No EJECTION		
Ejection Area			No EJECTION		
Entrapment			Not ENTRAPPED		

Restraint Factors

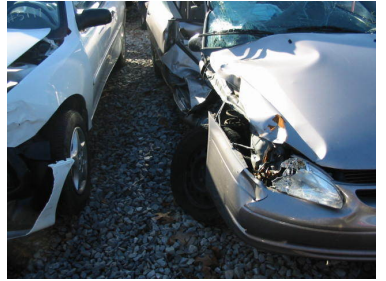
Restrain	Lap and shoulder
AOPS	NO
Airbag Deployment	Not EQUIP/AVAIL
Airbag Deployment - 1 st Seat	Not EQUIP/AVAIL
Airbag Deployment - Oth Seat	Not EQUIP W/ OTH

Injuries

Occupant	2004-45-222-1-1
MAIS	0=None
Seat Position	Front left side

AIS Level	Injury Description	Contacts
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Occupant: 2004-45-222-2-1



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	THREE
Roadway Alignment	STRAIGHT
Roadway Profile	LEVEL
Roadway Surface Type	ASPHALT
Roadway Surface Condition	DRY
Light Conditions	DARK
Atmospheric Conditions	No ADVERSE COND
Relation to Intersection	INTERSECTION REL
Traffic Control Device	
Police Reported Alcohol Presence	No ALCOHOL
Alcohol Test (< 95 indicates BAC 0.xx)	96

Vehicle Factors

Make-Model	Toyota Corolla
Year	1999
Class	PASSENGER CAR
Body Type	4-DR SEDAN/HDTOP
Weight	115

Crash Severity

Nr. Quarter Turns	No rollover
Impact Speed	998
Total, Longitudal, and Lateral δV	40 -20 -35
Est. δV with sequence number	DELTA V CODED 1
CDC	2 R Y A W 3
Damage (C1-C6)	1 3 38 25 24 7
Crush (L and D)	265 86
Object Contacted 1	VEHICLE NO. 1
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	87.855
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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	73	Height	160	Weight	70
Gender					FEMALE-NOT PREG
Ejection					No EJECTION
Ejection Area					No EJECTION
Entrapment					JAMMED DOOR/FIRE

Restraint Factors

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

Injuries

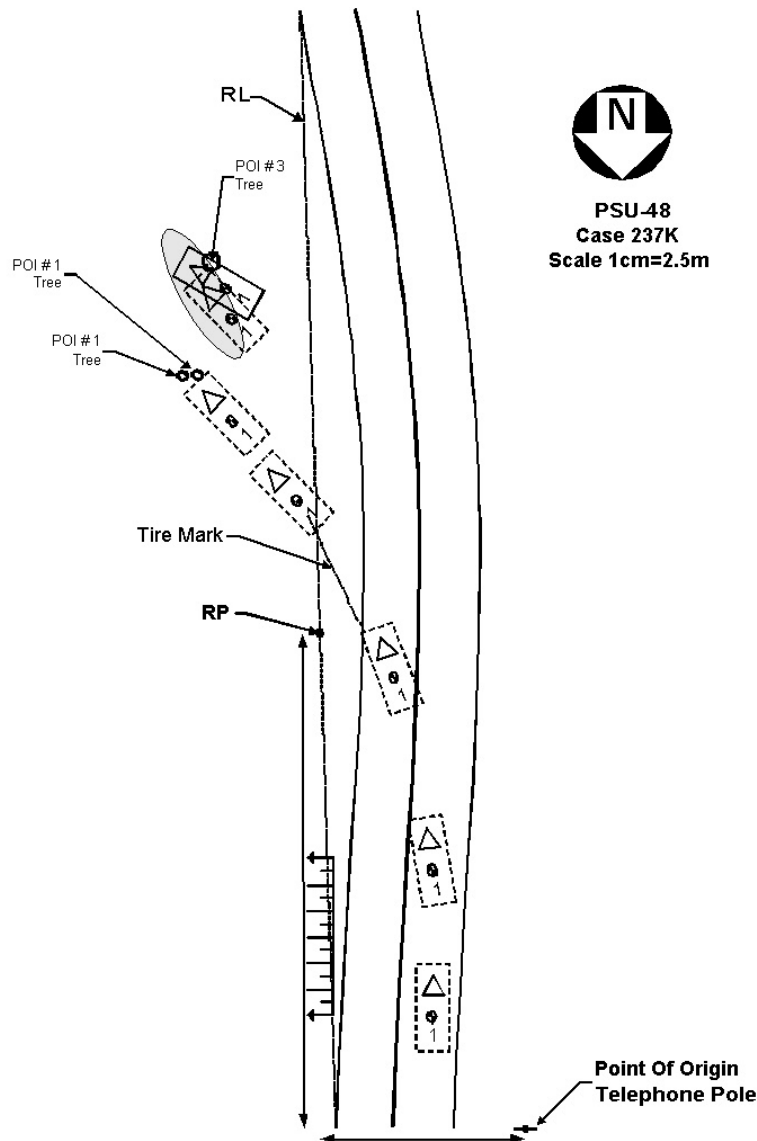
Occupant	2004-45-222-2-1
MAIS	4=Severe
Seat Position	Front left side

AIS Level	Injury Description	Contacts
2=Moderate	Clavicle fracture	Belt webb/buckle
4=Severe	>3 rib fxs on one side & <3 other side & hemo-/pneumothorax	Belt webb/buckle
4=Severe	Intracerebral hematoma, small (<30ccs)	Right interior
1=Minor	Abdominal skin contusion	Belt webb/buckle
1=Minor	Upper extremity skin contusion	Belt webb/buckle
1=Minor	Thoracic skin contusion	Belt webb/buckle
1=Minor	Leg skin contusion (hematoma)	Knee bolster
1=Minor	Facial skin laceration, minor	Right interior
1=Minor	Leg skin contusion (hematoma)	Transmiss lever
1=Minor	Scalp contusion	Right interior

21 Case 2004-48-237

Summary:

V1, a 1997 Chevrolet Tahoe, was traveling southbound in the first lane of a two-lane, two-way, undivided, bituminous roadway, curving leftward. V1 crossed the northbound lane and departed the roadway to the left side, where the front of V1 impacted two trees, knocking them down. V1 deflected right and rotated away from the first impacts, and struck a third tree with its right side, where V1 came to rest. At rest, V1 experienced a major fire, which spread from the engine compartment rearward. V1 was towed due to damage. The restrained driver of V1 sustained incapacitating injuries and was transported to a trauma center and hospitalized. V1 was equipped with dual frontal airbags, which both deployed. V1 was also equipped with a supported EDR, from which data was recovered.)



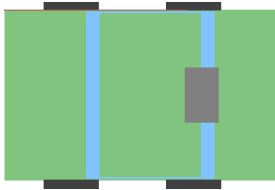
Vehicle	Body type	Make	Model	Year	Occ.#	Age	Occupant's sex	Maximum known occupant ais
1	LARGE UTILITY	Chevrolet	Fullsize Blazer	1997	1	35	MALE	3=Serious

Occupant: 2004-48-237-1-1



Fire Information

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



Crash Severity

Nr. Quarter Turns	No rollover
Impact Speed	999
Total, Longitudal, and Lateral δV	999 999 999
Est. δV with sequence number	>24 AND <40 KMPH 3
CDC	61 R Y A W 4
Damage (C1-C6)	0 0 0 0 0 0
Crush (L and D)	0 0
Object Contacted 1	LARGE TREE
Object Contacted 2	SMALL TREE

NASS Weighting Factor

Weighting factor	379.927
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Rollover Characteristics

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

Pre-Crash Environment

Traffic Flow	Not DIVIDED
Number of Travel Lanes	TWO
Roadway Alignment	CURVE 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	Chevrolet Fullsize Blazer
Year	1997
Class	TRUCK
Body Type	LARGE UTILITY
Weight	223

Pre-Crash Driver Data

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

DRIVER Factors

Age	35	Height	180	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	BAG DEPLOYED
Airbag Deployment - 1 st Seat	DR
PAS BAG DEPLY	
Airbag Deployment - Oth Seat	Not EQUIP W/ OTH

Injuries

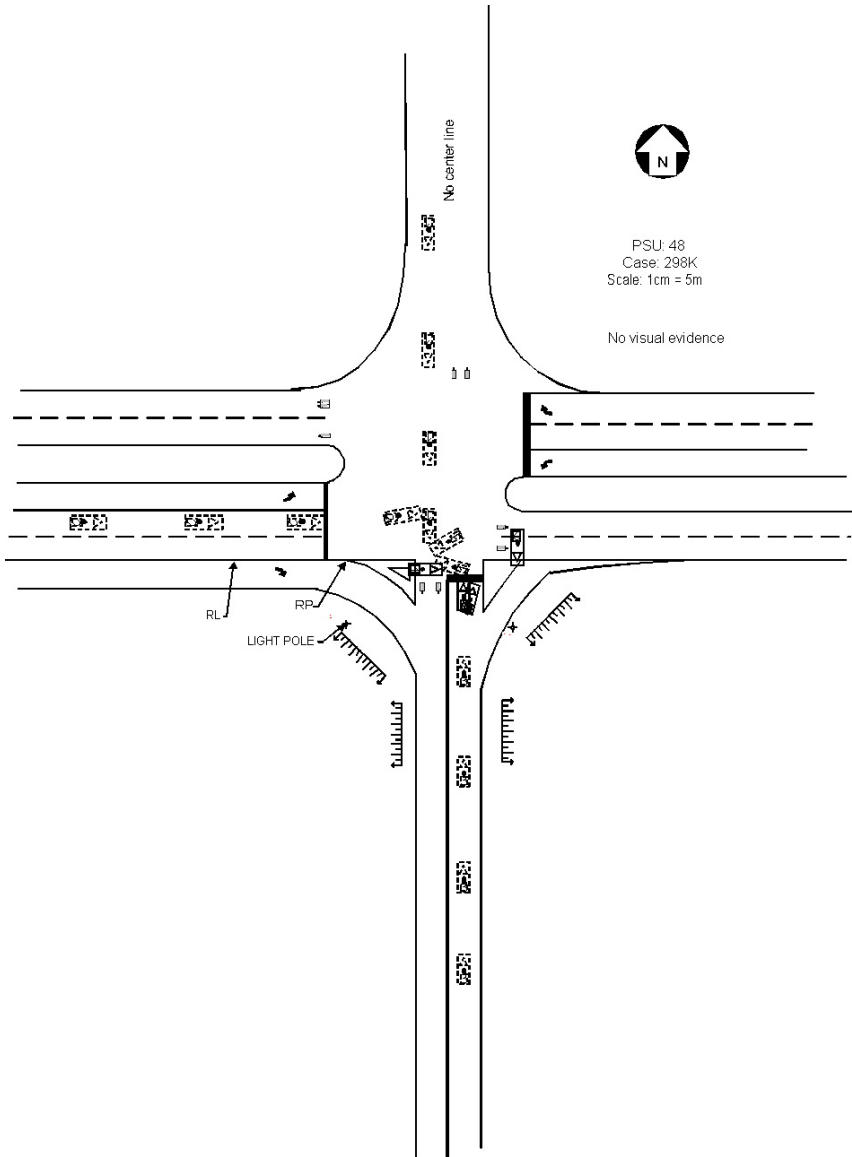
Occupant	2004-48-237-1-1
MAIS	3=Serious
Seat Position	Front left side

AIS Level	Injury Description	Contacts
3=Serious	Inhalation injury, minor (CO level<20 mg1=Minor)	Facial skin abrasion
Flying glass		
1=Minor	Upper extremity skin abrasion	Belt webb/buckle
1=Minor	Upper extremity skin contusion	Belt webb/buckle
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	Upper extremity skin abrasion	Left interior
1=Minor	Upper extremity skin contusion	Left interior
1=Minor	Leg skin contusion (hematoma)	Knee bolster

22 Case 2004-48-298

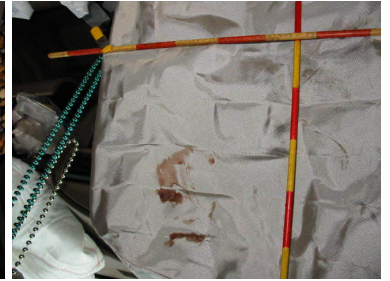
Summary:

The crash occurred on six lane, asphalt, level, roadway with a grassy median dividing opposing traffic crossed by a two lane, asphalt roadway with no roadway dividers for opposing lanes of traffic. The road surfaces were wet and level. It was nighttime and the roadway was lighted. It was raining at the time of the crash. Vehicle one, a 1995 Buick Regal, was crossing the red light controlled intersection traveling south on the two lane roadway when its' right rear plane came into contact with the frontal plane of vehicle two, a 1998 Ford Crown Victoria Police Cruiser, which was traveling east in lane three of the six lane roadway. The Police cruiser was on an emergency run with the siren and lights activated. After vehicle one impacted with vehicle two it rotated clockwise 90 degrees and its' left rear plane came into contact with the frontal plane of vehicle three, a 1997 Mazda Prot?g?, which was stopped on the two lane roadway facing north. Vehicle one came to rest facing west in the intersection. Vehicle two came to rest facing north/east in the intersection and vehicle three came to rest facing north in its' original travel lane. All three vehicles were towed due to damage. Vehicle one was equipped with driver and passenger frontal airbags, which deployed from impact. The driver of vehicle one, restrained with lap and shoulder belts, was hospitalized with left femur and lower back fracture. Vehicle two was equipped with driver and passenger frontal airbags, which were reported deployed according to the PAR. The driver of vehicle two, restrained with lap and shoulder belts, was not reported injured. Vehicle three was equipped with driver and passenger frontal airbags, which deployed from impact. The driver and right front passenger, both restrained with lap and shoulder belts, were not reported injured.)



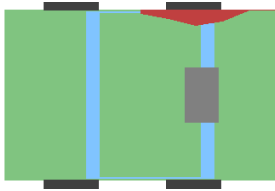
Vehicle	Body type	Make	Model	Year	Occ. Age	Occupant's sex	Maximum known occupant ais
1	4-DR SEDAN/HDTOP	Buick	Regal	1995	48	MALE	3=Serious
2	4-DR SEDAN/HDTOP	Ford	Crown Victoria	1998	27	MALE	0=None
3	4-DR SEDAN/HDTOP	Mazda	GLC/323/Protege	1997	55	FEMALE-NOT PREG	0=None
3	4-DR SEDAN/HDTOP	Mazda	GL C/323/Protege	1997	99	9	0=None

Occupant: 2004-48-298-1-1



Fire Information

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



Crash Severity

Nr. Quarter Turns	No rollover
Impact Speed	999
Total, Longitudal, and Lateral δV	999 999 999
Est. δV with sequence number	MODERATE 1
CDC	2 R B E W 3
Damage (C1-C6)	0 0 16 22 12 5
Crush (L and D)	135 -162
Object Contacted 1	VEHICLE NO. 2
Object Contacted 2	VEHICLE NO. 3

NASS Weighting Factor

Weighting factor	824.779
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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	WET
Light Conditions	DARK/LIGHTED
Atmospheric Conditions	RAIN
Relation to Intersection	INTERSECTION REL
Traffic Control Device	
Police Reported Alcohol Presence	No ALCOHOL
Alcohol Test (< 95 indicates BAC 0.xx)	0

Vehicle Factors

Make-Model	Buick Regal
Year	1995
Class	PASSENGER CAR
Body Type	4-DR SEDAN/HDTOP
Weight	151

Pre-Crash Driver Data

Accident Type	90
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	48	Height	185	Weight	109
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	2004-48-298-1-1
MAIS	3=Serious
Seat Position	Front left side

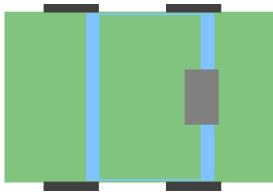
AIS Level	Injury Description	Contacts
3=Serious	Intertrochanteric femoral fracture	Knee bolster
2=Moderate	Lumbar fracture of transverse process without cord injury	Left B pillar
2=Moderate	Lumbar fracture of transverse process without cord injury	Left B pillar
2=Moderate	C-spine disk herniation NFS	Other noncontact
1=Minor	Upper extremity skin abrasion	Left interior
1=Minor	Upper extremity skin contusion	Left interior

Occupant: 2004-48-298-2-1



Fire Information

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



Crash Severity

Nr. Quarter Turns	No rollover
Impact Speed	999
Total, Longitudal, and Lateral δV	999 999 999
Est. δV with sequence number	MODERATE 1
CDC	99 9 9 9 9 99
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	824.779
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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	FOUR
Roadway Alignment	STRAIGHT
Roadway Profile	LEVEL
Roadway Surface Type	ASPHALT
Roadway Surface Condition	WET
Light Conditions	DARK/LIGHTED
Atmospheric Conditions	RAIN
Relation to Intersection	INTERSECTION REL
Traffic Control Device	
Police Reported Alcohol Presence	No ALCOHOL
Alcohol Test (< 95 indicates BAC 0.xx)	96

Vehicle Factors

Make-Model	Ford Crown Victoria
Year	1998
Class	PASSENGER CAR
Body Type	4-DR SEDAN/HDTOP
Weight	175

Pre-Crash Driver Data

Accident Type	90
Pre-event Movement	GOING STRAIGHT
Critical Pre-crash Event	XING ST-X PATH
Attempted Avoidance Manuever	BRAKE+STEER LEFT
Pre-impact Stability	LONGITUDINAL SKID
Pre-impact Location	STAYED IN LANE

DRIVER Factors

Age	27	Height	188	Weight	93
Gender			MALE		
Ejection			No EJECTION		
Ejection Area			No EJECTION		
Entrapment			Not ENTRAPPED		

Restraint Factors

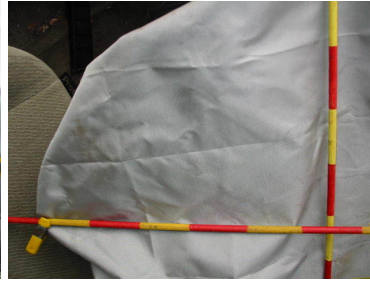
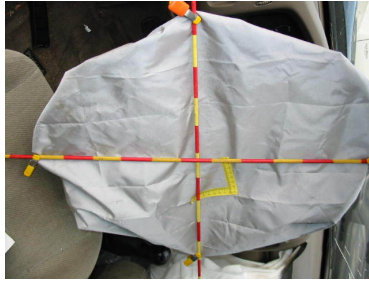
Restrain	Lap and shoulder
AOPS	YES-RES DET
Airbag Deployment	Unk IF DEPLOYED
Airbag Deployment - 1 st Seat	DR
PAS UNK DEPLY	
Airbag Deployment - Oth Seat	Not EQUIP W/ OTH

Injuries

Occupant	2004-48-298-2-1
MAIS	0=None
Seat Position	Front left side

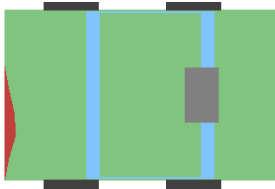
AIS Level	Injury Description	Contacts
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Occupant: 2004-48-298-3-1



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



Pre-Crash Environment

Traffic Flow	Not DIVIDED
Number of Travel Lanes	TWO
Roadway Alignment	STRAIGHT
Roadway Profile	LEVEL
Roadway Surface Type	ASPHALT
Roadway Surface Condition	WET
Light Conditions	DARK/LIGHTED
Atmospheric Conditions	RAIN
Relation to Intersection	INTERSECTION REL
Traffic Control Device	
Police Reported Alcohol Presence	No ALCOHOL
Alcohol Test (< 95 indicates BAC 0.xx)	96

Vehicle Factors

Make-Model	Mazda GLC/323/Protege
Year	1997
Class	PASSENGER CAR
Body Type	4-DR SEDAN/HDTOP
Weight	108

Crash Severity

Nr. Quarter Turns	No rollover
Impact Speed	998
Total, Longitudal, and Lateral δV	24 -24 4
Est. δV with sequence number	DELTA V CODED 2
CDC	12 F Y E W 1
Damage (C1-C6)	0 7 17 14 7 1
Crush (L and D)	150 -18
Object Contacted 1	VEHICLE NO. 1
Object Contacted 2	0

Pre-Crash Driver Data

Accident Type	98
Pre-event Movement	STOPPED IN LANE
Critical Pre-crash Event	OPP DIR-OVR LEFT
Attempted Avoidance Manuever	99
Pre-impact Stability	TRACKING
Pre-impact Location	STAYED IN LANE

NASS Weighting Factor

Weighting factor	824.779
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DRIVER Factors

Rollover Characteristics

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

Age	55	Height	163	Weight	54
Gender					FEMALE-NOT PREG
Ejection					No EJECTION
Ejection Area					No EJECTION
Entrapment					Not ENTRAPPED

Restraint Factors

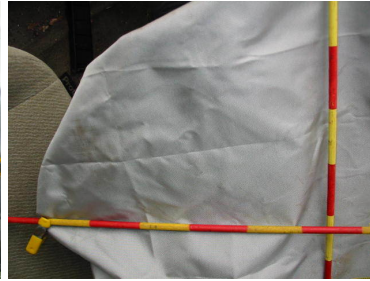
Restrain	Lap and shoulder
AOPS	YES-RES DET
Airbag Deployment	BAG DEPLOYED
Airbag Deployment - 1 st Seat	DR
PAS BAG DEPLY	
Airbag Deployment - Oth Seat	BAG DEPLOYED

Injuries

Occupant	2004-48-298-3-1
MAIS	0=None
Seat Position	Front left side

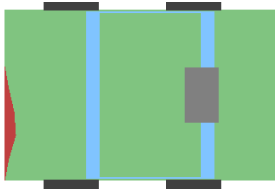
AIS Level	Injury Description	Contacts
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Occupant: 2004-48-298-3-2



Fire Information

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



Pre-Crash Environment

Traffic Flow	Not DIVIDED
Number of Travel Lanes	TWO
Roadway Alignment	STRAIGHT
Roadway Profile	LEVEL
Roadway Surface Type	ASPHALT
Roadway Surface Condition	WET
Light Conditions	DARK/LIGHTED
Atmospheric Conditions	RAIN
Relation to Intersection	INTERSECTION REL
Traffic Control Device	
Police Reported Alcohol Presence	No ALCOHOL
Alcohol Test (< 95 indicates BAC 0.xx)	96

Vehicle Factors

Make-Model	Mazda GLC/323/Protege
Year	1997
Class	PASSENGER CAR
Body Type	4-DR SEDAN/HDTOP
Weight	108

Crash Severity

Nr. Quarter Turns	No rollover
Impact Speed	998
Total, Longitudal, and Lateral δV	24 -24 4
Est. δV with sequence number	DELTA V CODED 2
CDC	12 F Y E W 1
Damage (C1-C6)	0 7 17 14 7 1
Crush (L and D)	150 -18
Object Contacted 1	VEHICLE NO. 1
Object Contacted 2	0

Pre-Crash Driver Data

Accident Type	98
Pre-event Movement	STOPPED IN LANE
Critical Pre-crash Event	OPP DIR-OVR LEFT
Attempted Avoidance Manuever	99
Pre-impact Stability	TRACKING
Pre-impact Location	STAYED IN LANE

NASS Weighting Factor

Weighting factor	824.779
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PASSENGER Factors

Age	99	Height	999	Weight	999
Gender			9		
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	BAG DEPLOYED

Injuries

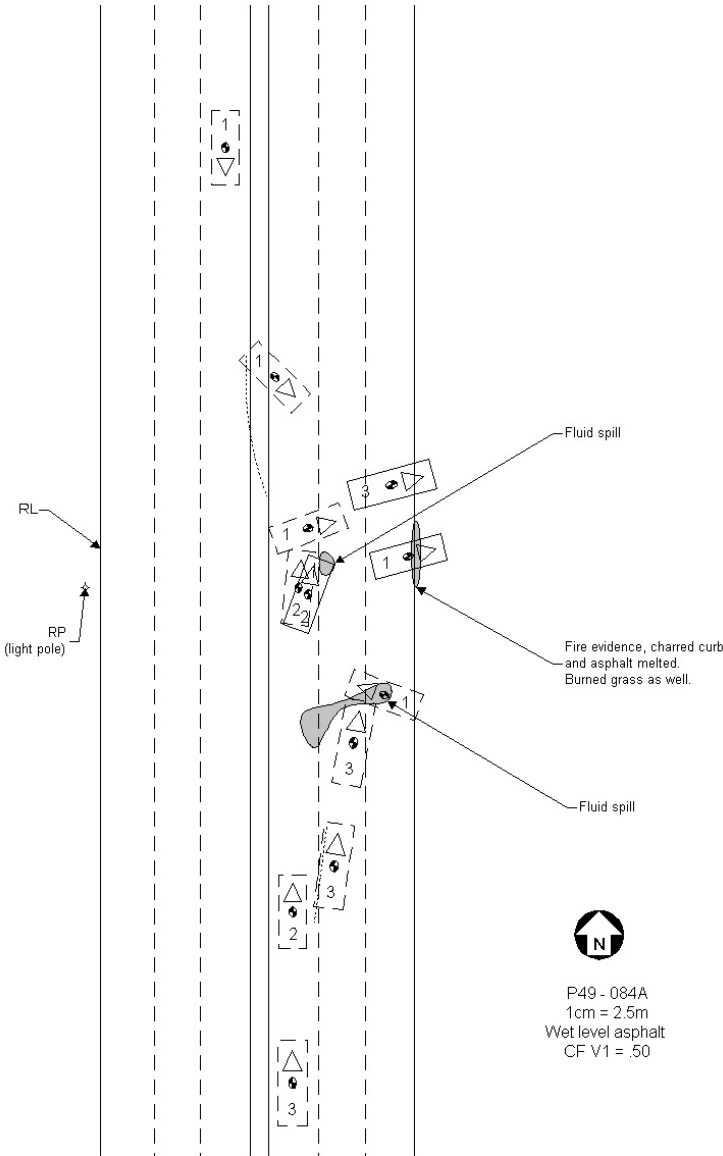
Occupant	2004-48-298-3-2
MAIS	0=None
Seat Position	Front right side

AIS Level	Injury Description	Contacts
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23 Case 2004-49-84

Summary:

V1 was southbound in the third lane of a three-lane divided roadway (total six lanes with no positive barrier). V2 and V3 were northbound in the third lane of a three-lane divided (six lanes overall with no positive barrier) roadway, approaching V1. V1 lost traction on the wet surface and began to rotate counter- clockwise. V1 departed the road to the left and crossed the center median, into northbound traffic, where the front of V2 impacted the right side of V1. V1 rotated clockwise and entered the second lane. V3 moved into the second lane, where the front of V3 impacted V1's left side. V1 rotated clockwise further and impacted left of V1 to right of V3. V1 and V3 moved to final rest northeasterly. After final rest, V1 caught fire, sustaining major damage. All three vehicles were towed due to damage. All three vehicles were equipped with dual frontal airbags. V2 frontal bags deployed, V3 driver bag deployed. V3 was equipped with manual passenger-bag suppression switch in "off" position. V3 was also equipped with a supported EDR, data recovered. The driver of V1 was fatal at the scene with brain stem laceration, brain hemorrhage and third degree burns to back and legs. The front seat passenger was fatal at the scene with 100



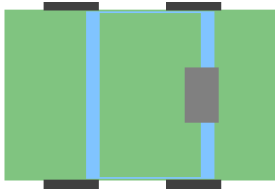
Vehicle	Body type	Make	Model	Year	Occ.#	Age	Occupant's sex	Maximum known occupant
1	4-DR SEDAN/HDTOP	Honda	Accord	2002	1	16	MALE	6=Maximum
1	4-DR SEDAN/HDTOP	Honda	Accord	2002	2	14	MALE	6=Maximum
2	4-DR SEDAN/HDTOP	Toyota	Camry	1997	1	56	FEMALE-NOT PREG	2=Moderate
3	LARGE PICKUP	Chevrolet	C,K,R,V-series Pickup	1998	1	26	MALE	0=None

Occupant: 2004-49-84-1-1



Fire Information

Fire Occurrence	Major fire
Fire Origin	9
Location of Fuel Leakage	Unknown
Type of Fuel Tank	Unknown type
Fuel Tank Location	Unknown
Fuel Cap Location	Left side, behind rear axle
Fuel Tank Damage	Other damage
Fuel Type	Gasoline



Pre-Crash Environment

Traffic Flow	DVDED/NO BARRIER
Number of Travel Lanes	THREE
Roadway Alignment	STRAIGHT
Roadway Profile	LEVEL
Roadway Surface Type	ASPHALT
Roadway Surface Condition	WET
Light Conditions	DARK/LIGHTED
Atmospheric Conditions	No ADVERSE COND
Relation to Intersection	NONINTER/NONJUNC
Traffic Control Device	
Police Reported Alcohol Presence	9
Alcohol Test (< 95 indicates BAC 0.xx)	0

Crash Severity

Nr. Quarter Turns	No rollover
Impact Speed	998
Total, Longitudal, and Lateral δV	61 11 -60
Est. δV with sequence number	DELTA V CODED 1
CDC	99 R 9 9 9 99
Damage (C1-C6)	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	11.174
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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	Honda Accord
Year	2002
Class	PASSENGER CAR
Body Type	4-DR SEDAN/HDTOP
Weight	142

Pre-Crash Driver Data

Accident Type	64
Pre-event Movement	GOING STRAIGHT
Critical Pre-crash Event	POOR ROAD CONDIT
Attempted Avoidance Manuever	99
Pre-impact Stability	LAT SKID-CTR CLK
Pre-impact Location	Left TRAVEL LANE

DRIVER Factors

Age	16	Height	165	Weight	55
Gender			MALE		
Ejection			No EJECTION		
Ejection Area			No EJECTION		
Entrapment			JAMMED DOOR/FIRE		

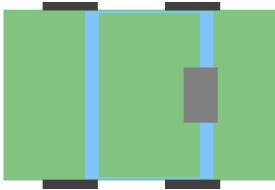
Restraint Factors		AIS Level	In- Con- jury jury De- facts scrip- tion
Restrain	Lap and shoulder		
AOPS	YES-RES DET		
Airbag Deployment	NONDEPLOYED		
Airbag Deployment - 1 st Seat	NONDEPLOYED		
Airbag Deployment - Oth	BAG DEPLOYED		
Seat		6=Maximum	Brain Unknown stem SOURCE lac- er- a- tion
Injuries			
Occupant	2004-49-84-1-1		
MAIS	6=Maximum	5=Critical	Cerebral Unknown sub- SOURCE du- ral hematoma, small (<50ccs), bi- lat- eral
Seat Position	Front left side	4=Severe	Lung Unknown con- SOURCE tu- sion, bi- lat- eral
		5=Critical	Burn, Cerebral 2nd sub- or arach- 3rd noid de- hem- gree, or- 403=Stage ri- ous
		Unknown SOURCE 3=Serious	Cerebral Unknown sub- SOURCE arach- noid hem- or- rhage
		2=Moderate	Dislocation Unknown of SOURCE atlanto- occipital
		2=Moderate	Hepatic con- lac- tu- er- sion, a- mi- tion, nor mi- (sub- nor cap- (<3cms

Occupant: 2004-49-84-1-2



Fire Information

Fire Occurence	Major fire
Fire Origin	9
Location of Fuel Leakage	Unknown
Type of Fuel Tank	Unknown type
Fuel Tank Location	Unknown
Fuel Cap Location	Left 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	61 11 -60
Est. δV with sequence number	DELTA V CODED 1
CDC	99 R 9 9 9 99
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	11.174
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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	THREE
Roadway Alignment	STRAIGHT
Roadway Profile	LEVEL
Roadway Surface Type	ASPHALT
Roadway Surface Condition	WET
Light Conditions	DARK/LIGHTED
Atmospheric Conditions	No ADVERSE COND
Relation to Intersection	NONINTER/NONJUNC
Traffic Control Device	
Police Reported Alcohol Presence	9
Alcohol Test (< 95 indicates BAC 0.xx)	0

Vehicle Factors

Make-Model	Honda Accord
Year	2002
Class	PASSENGER CAR
Body Type	4-DR SEDAN/HDTOP
Weight	142

Pre-Crash Driver Data

Accident Type	64
Pre-event Movement	GOING STRAIGHT
Critical Pre-crash Event	POOR ROAD CONDIT
Attempted Avoidance Maneuver	99
Pre-impact Stability	LAT SKID-CTR CLK
Pre-impact Location	Left TRAVEL LANE

PASSENGER Factors

Age	14	Height	160	Weight	51
Gender					MALE
Ejection					No EJECTION
Ejection Area					No EJECTION
Entrapment					JAMMED DOOR/FIRE

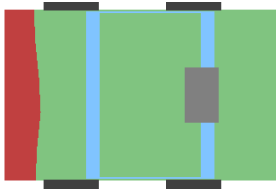
Restraint Factors		AIS Level		Injury Description
Restrain	99			Burn
AOPS	YES-RES DET			2nd
Airbag Deployment	NONDEPLOYED			or
Airbag Deployment - 1 st Seat	NONDEPLOYED			3rd
Airbag Deployment - Oth	BAG DEPLOYED			de-
Seat		6=Maximum		gree
Injuries				>90°
Occupant	2004-49-84-1-2			ri-
MAIS	6=Maximum			ous
Seat Position	Front right side			
		Unknown SOURCE		4400
		4=Severe		
		4=Severe		Lung
				con-
				tu-
				sion
				bi-
				lat-
		3=Serious		eral
				Sacr
				frac-
				ture
		2=Moderate		Pelv
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		2=Moderate		Hep
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				(sub
				cap-
				su-
				lar,
				<50%
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		Splenic laceration, minor (tear<3cms deep, no major vessel)		Unk
		1=Minor		SOU
				Adre
				gland
				con-
				tu-
				sion
				mi-
				nor
		2=Moderate		Kidn
				con-
				tu-
				sion

Occupant: 2004-49-84-2-1



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



Crash Severity

Nr. Quarter Turns	No rollover
Impact Speed	998
Total, Longitudal, and Lateral δV	65 -64 11
Est. δV with sequence number	DELTA V CODED 1
CDC	12 F D E W 3
Damage (C1-C6)	46 48 53 51 45 43
Crush (L and D)	156 0
Object Contacted 1	VEHICLE NO. 1
Object Contacted 2	0

NASS Weighting Factor

Weighting factor	11.174
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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	THREE
Roadway Alignment	STRAIGHT
Roadway Profile	LEVEL
Roadway Surface Type	ASPHALT
Roadway Surface Condition	WET
Light Conditions	DARK/LIGHTED
Atmospheric Conditions	No ADVERSE COND
Relation to Intersection	NONINTER/NONJUNC
Traffic Control Device	
Police Reported Alcohol Presence	No ALCOHOL
Alcohol Test (< 95 indicates BAC 0.xx)	96

Vehicle Factors

Make-Model	Toyota Camry
Year	1997
Class	PASSENGER CAR
Body Type	4-DR SEDAN/HDTOP
Weight	135

Pre-Crash Driver Data

Accident Type	65
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	56	Height	160	Weight	86
Gender					FEMALE-NOT PREG
Ejection					No EJECTION
Ejection Area					No EJECTION
Entrapment					Not ENTRAPPED

Restraint Factors

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

Injuries

Occupant	2004-49-84-2-1
MAIS	2=Moderate
Seat Position	Front left side

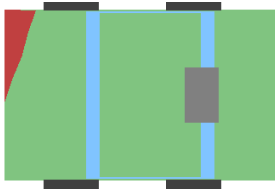
AIS Level	Injury Description	Contacts
2=Moderate	Rib cage fracture NFS	Steering comb
1=Minor	Upper extremity skin laceration, minor	Windshield
1=Minor	Leg skin contusion (hematoma)	Knee bolster
1=Minor	Leg skin contusion (hematoma)	Foot controls
1=Minor	297402	Air bag-DR side
1=Minor	Upper extremity skin contusion	Belt webb/buckle
1=Minor	Abdominal skin contusion	Belt webb/buckle

Occupant: 2004-49-84-3-1



Fire Information

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



Crash Severity

Nr. Quarter Turns	No rollover
Impact Speed	998
Total, Longitudal, and Lateral δV	37 -37 < 0.5 KMPH
Est. δV with sequence number	DELTA V CODED 2
CDC	12 F Z E W 2
Damage (C1-C6)	0 1 12 26 34 46
Crush (L and D)	186 34
Object Contacted 1	VEHICLE NO. 1
Object Contacted 2	VEHICLE NO. 1

NASS Weighting Factor

Weighting factor	11.174
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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	THREE
Roadway Alignment	STRAIGHT
Roadway Profile	LEVEL
Roadway Surface Type	ASPHALT
Roadway Surface Condition	WET
Light Conditions	DARK/LIGHTED
Atmospheric Conditions	No ADVERSE COND
Relation to Intersection	NONINTER/NONJUNC
Traffic Control Device	
Police Reported Alcohol Presence	No ALCOHOL
Alcohol Test (< 95 indicates BAC 0.xx)	96

Vehicle Factors

Make-Model	Chevrolet C,K,R,V-series Pickup
Year	1998
Class	TRUCK
Body Type	LARGE PICKUP
Weight	194

Pre-Crash Driver Data

Accident Type	98
Pre-event Movement	GOING STRAIGHT
Critical Pre-crash Event	OPP DIR-OVR LEFT
Attempted Avoidance Manuever	BRAKE+STEER RT
Pre-impact Stability	LONGITUDINAL SKID
Pre-impact Location	Left TRAVEL LANE

DRIVER Factors

Age	26	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	ONLY DR BAG DEPL
Airbag Deployment - Oth Seat	Not EQUIP W/ OTH

Injuries

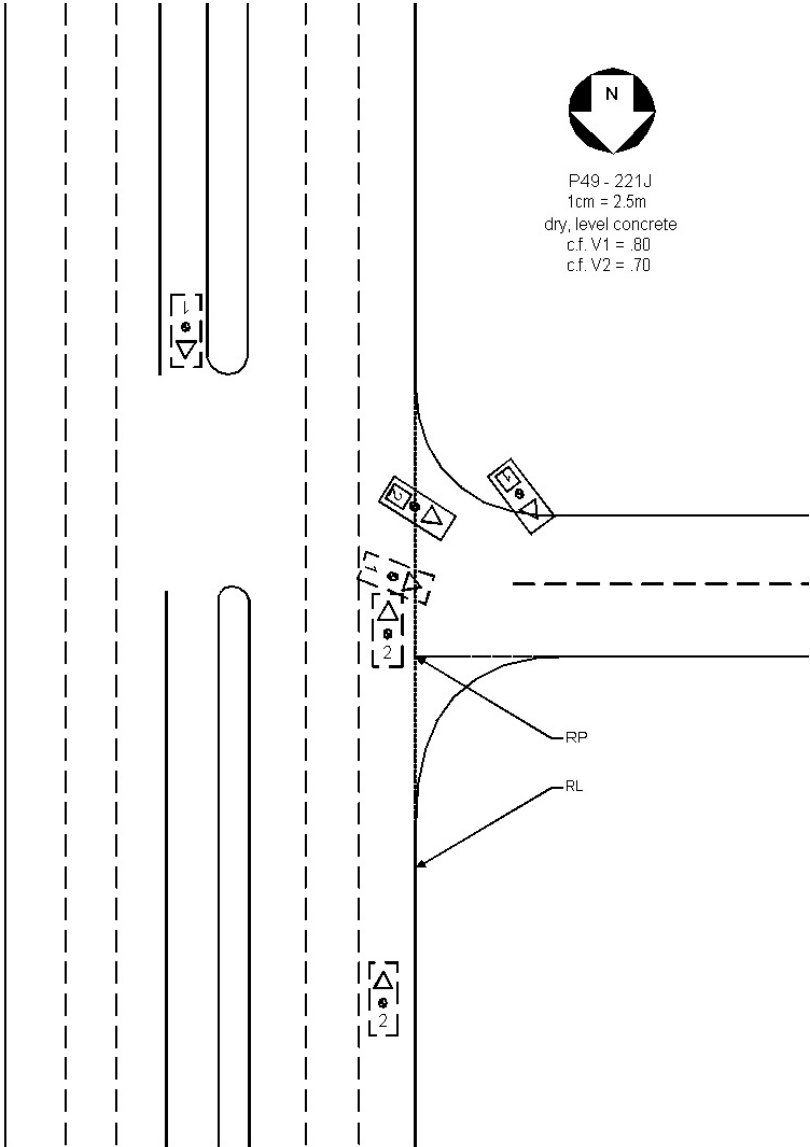
Occupant	2004-49-84-3-1
MAIS	0=None
Seat Position	Front left side

AIS Level	Injury Description	Contacts
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24 Case 2004-49-221

Summary:

V1, a late-model-year vehicle, was traveling northbound in the fourth lane of a four-lane, divided (seven lanes overall, no positive barrier) trafficway, about to turn left at an intersection. V2 was traveling southbound in the first lane of a three-lane divided (seven lanes overall, no positive barrier) traffic way, approaching the same intersection. As V1 made its turn, the front of V2 impacted the right side of V1. Both vehicles rotated clockwise as they moved southwest. V1 departed the road and came to rest on the southwest curb, causing damage to the left rear wheel. V2 came to rest in the first southbound lane. Both vehicles were towed due to damage. The restrained right front passenger of V1 sustained incapacitating injuries and was transported and hospitalized. The drivers of V1 and V2 sustained minor injuries and sought treatment later. V1 was equipped with dual frontal, side, and head curtain airbags. The seat mounted side and side curtain bags deployed. V2 was equipped with driver airbag, which also deployed.)



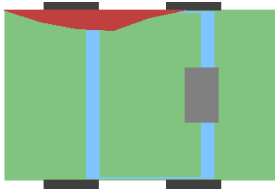
Vehicle	Body type	Make	Model	Year	Occ.#	Age	Occupant's sex	Maximum known occupant ais
1	4-DR SEDAN/HDTOP	Mazda	RX-8	2004	1	54	MALE	3=Serious
1	4-DR SEDAN/HDTOP	Mazda	RX-8	2004	2	26	FEMALE-NOT PREG	5=Critical
2	COMPACT UTILITY	Jeep	Cherokee84-	1993	1	39	MALE	1=Minor

Occupant: 2004-49-221-1-1



Fire Information

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



Crash Severity

Nr. Quarter Turns	No rollover
Impact Speed	998
Total, Longitudal, and Lateral δV	27 -17 -21
Est. δV with sequence number	DELTA V CODED 1
CDC	2 R Y A W 3
Damage (C1-C6)	0 11 29 27 17 0
Crush (L and D)	288 6
Object Contacted 1	VEHICLE NO. 2
Object Contacted 2	CURB

NASS Weighting Factor

Weighting factor	9.457
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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	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	INTERCHANGE REL
Traffic Control Device	
Police Reported Alcohol Presence	ALCOHOL PRESENT
Alcohol Test (< 95 indicates BAC 0.xx)	97

Vehicle Factors

Make-Model	Mazda RX-8
Year	2004
Class	PASSENGER CAR
Body Type	4-DR SEDAN/HDTOP
Weight	142

Pre-Crash Driver Data

Accident Type	68
Pre-event Movement	TURNING LEFT
Critical Pre-crash Event	TURN LEFT-INTERS
Attempted Avoidance Manuever	99
Pre-impact Stability	9
Pre-impact Location	STAYED IN LANE

DRIVER Factors

Age	54	Height	183	Weight	91
Gender					MALE
Ejection					No EJECTION
Ejection Area					No EJECTION
Entrapment					Not ENTRAPPED

Restraint Factors

Restrain	Lap and shoulder
AOPS	YES-RES DET
Airbag Deployment	NONDEPLOYED
Airbag Deployment - 1 st Seat	NONDEPLOYED
Airbag Deployment - Oth Seat	BAG DEPLOYED

Injuries

Occupant	2004-49-221-1-1
MAIS	3=Serious
Seat Position	Front left side

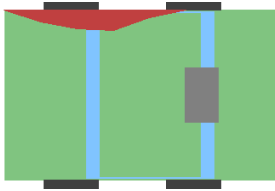
AIS Level	Injury Description	Contacts
3=Serious	Lung injury NFS	Unknown SOURCE

Occupant: 2004-49-221-1-2



Fire Information

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



Crash Severity

Nr. Quarter Turns	No rollover
Impact Speed	998
Total, Longitudal, and Lateral δV	27 -17 -21
Est. δV with sequence number	DELTA V CODED 1
CDC	2 R Y A W 3
Damage (C1-C6)	0 11 29 27 17 0
Crush (L and D)	288 6
Object Contacted 1	VEHICLE NO. 2
Object Contacted 2	CURB

NASS Weighting Factor

Weighting factor	9.457
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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	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	INTERCHANGE REL
Traffic Control Device	
Police Reported Alcohol Presence	ALCOHOL PRESENT
Alcohol Test (< 95 indicates BAC 0.xx)	97

Vehicle Factors

Make-Model	Mazda RX-8
Year	2004
Class	PASSENGER CAR
Body Type	4-DR SEDAN/HDTOP
Weight	142

Pre-Crash Driver Data

Accident Type	68
Pre-event Movement	TURNING LEFT
Critical Pre-crash Event	TURN LEFT-INTERS
Attempted Avoidance Manuever	99
Pre-impact Stability	9
Pre-impact Location	STAYED IN LANE

PASSENGER Factors

Age	26	Height	175	Weight	77
Gender					FEMALE-NOT PREG
Ejection					No EJECTION
Ejection Area					No EJECTION
Entrapment					ENTRAPPED

Restraint Factors

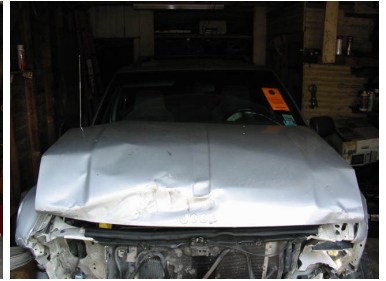
Restrain	Lap and shoulder
AOPS	YES-RES DET
Airbag Deployment	NONDEPLOYED
Airbag Deployment - 1 st Seat	NONDEPLOYED
Airbag Deployment - Oth Seat	BAG DEPLOYED

Injuries

Occupant	2004-49-221-1-2
MAIS	5=Critical
Seat Position	Front right side

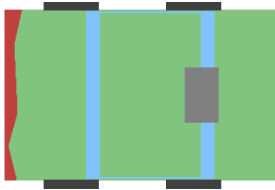
AIS Level	Injury Description	Contacts
4=Severe	Cerebral subdural hematoma, small (<50ccs)	OMV hood edge
3=Serious	Cerebral subarachnoid hemorrhage	OMV hood edge
3=Serious	540640	Right interior
3=Serious	Pelvic fracture, open/displaced/comminuted	Right interior
2=Moderate	Pelvic fracture, closed	Transmiss lever
5=Critical	Unconscious on admission, inappropriate movements	OMV hood edge
1=Minor	Upper extremity skin laceration, minor	Right hardware
1=Minor	Leg skin contusion (hematoma)	Right interior

Occupant: 2004-49-221-2-1



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	DVDED/NO BARRIER
Number of Travel Lanes	THREE
Roadway Alignment	STRAIGHT
Roadway Profile	LEVEL
Roadway Surface Type	CONCRETE
Roadway Surface Condition	DRY
Light Conditions	DAYLIGHT
Atmospheric Conditions	No ADVERSE COND
Relation to Intersection	INTERCHANGE REL
Traffic Control Device	
Police Reported Alcohol Presence	No ALCOHOL
Alcohol Test (< 95 indicates BAC 0.xx)	96

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	11 F D E W 2
Damage (C1-C6)	18 6 19 17 14 25
Crush (L and D)	160 0
Object Contacted 1	VEHICLE NO. 1
Object Contacted 2	0

NASS Weighting Factor

Weighting factor	9.457
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Rollover Characteristics

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

Vehicle Factors

Make-Model	Jeep Cherokee84-
Year	1993
Class	TRUCK
Body Type	COMPACT UTILITY
Weight	167

Pre-Crash Driver Data

Accident Type	69
Pre-event Movement	GOING STRAIGHT
Critical Pre-crash Event	OPP DIR-OVR LEFT
Attempted Avoidance Manuever	99
Pre-impact Stability	9
Pre-impact Location	STAYED IN LANE

DRIVER Factors

Age	39	Height	170	Weight	73
Gender			MALE		
Ejection			No EJECTION		
Ejection Area			No EJECTION		
Entrapment			Not ENTRAPPED		

Restraint Factors

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

Injuries

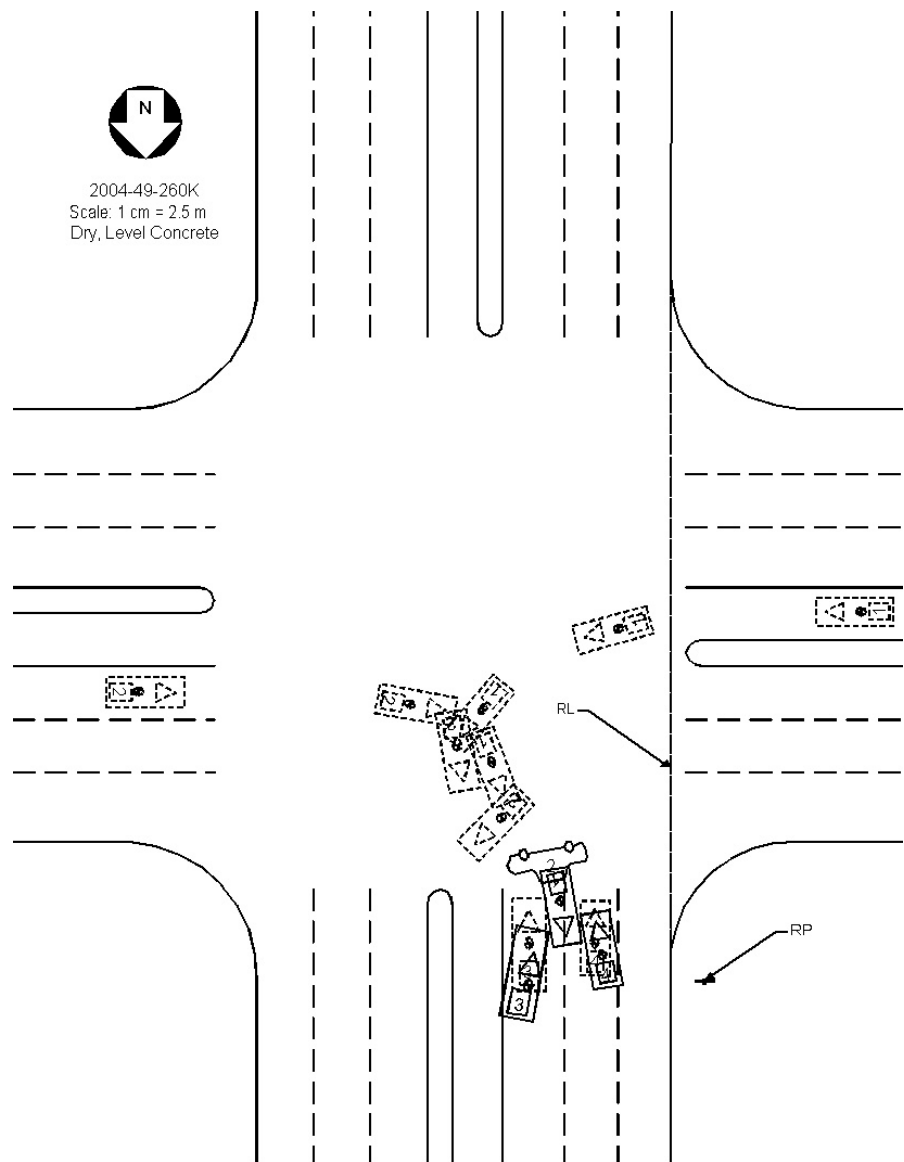
Occupant	2004-49-221-2-1
MAIS	1=Minor
Seat Position	Front left side

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

25 Case 2004-49-260

Summary:

V1, a 1993 BMW M5, was traveling east in the fourth lane of a four-lane, divided (seven lanes overall, divided by raised median), concrete roadway, turning left at an intersection. V2, a 1998 Ford Explorer, was traveling west in the third lane of opposing traffic, approaching the same intersection. V3, a 1987 Chevrolet Suburban, and V4, a 2002 Mitsubishi Montero, were stopped facing southbound at the same intersection in the third and second lanes, respectively. As V1 made its turn, the front of V2 impacted the right side of V1. V1 and V2 rotated towards each other, and the left side of V2 impacted the right side of V1 in a "sideslap" configuration. V1 deflected northwest and the front of V1 impacted the front of V3. V1 continued northwest, and the left side of V1 sideswiped the left side of V4, where V1 came to rest. V2 rotated clockwise from impact and moved northwest. V2 tripped and rolled towards its left side, but the roll was arrested by V1 at final rest. V2 came to rest with its left side in contact with V1's back and trunk lid. V1, V2 and V3 were towed due to damage. V4 was driven from the scene. The restrained driver of V1 was hospitalized with brain contusion and hemorrhage as well as lung contusion and neck fracture. The right front passenger was hospitalized with multiple skull fracture and massive brain injury. The restrained drivers of V2 and V3 were injured and refused transport. V1 was equipped with a first-generation driver's frontal airbag, which deployed. Safety equipment and status of the other vehicles is unknown.)



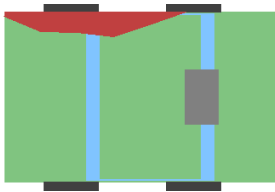
Vehicle	Body type	Make	Model	Year	Occ.#	Age	Occupant's sex	Maximum known occupant ais
1	4-DR SEDAN/HDTOP	BMW	5-series	1993	1	47	MALE	5=Critical
1	4-DR SEDAN/HDTOP	BMW	5-series	1993	2	26	FEMALE-NOT PREG	5=Critical
2	COMPACT UTILITY	Ford	Bronco II	1998	1	19	MALE	7=Unk. sev.
3	UTILITY STAWAGON	Chevrolet	Suburban	1987	1	41	MALE	7=Unk. sev.
3	UTILITY STAWAGON	Chevrolet	Suburban	1987	2	24	MALE	0=None

Occupant: 2004-49-260-1-1



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



Crash Severity

Nr. Quarter Turns	No rollover
Impact Speed	998
Total, Longitudal, and Lateral δV	21 -18 -11
Est. δV with sequence number	DELTA V CODED 1
CDC	1 R Y A W 3
Damage (C1-C6)	0 18 36 30 28 6
Crush (L and D)	217 20
Object Contacted 1	VEHICLE NO. 2
Object Contacted 2	VEHICLE NO. 3

NASS Weighting Factor

Weighting factor	8.788
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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	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)	96

Vehicle Factors

Make-Model	BMW 5-series
Year	1993
Class	PASSENGER CAR
Body Type	4-DR SEDAN/HDTOP
Weight	173

Pre-Crash Driver Data

Accident Type	68
Pre-event Movement	TURNING LEFT
Critical Pre-crash Event	OPP DIR-OVR RGHT
Attempted Avoidance Manuever	99
Pre-impact Stability	9
Pre-impact Location	STAYED IN LANE

DRIVER Factors

Age	47	Height	180	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	2004-49-260-1-1
MAIS	5=Critical
Seat Position	Front left side

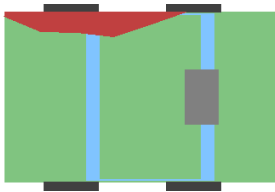
AIS Level	Injury Description	Contacts
5=Critical	Unconscious on admission, inappropriate movements	Center panel
3=Serious	Cerebral contusions, multiple, unilateral, small (<30ccs)	Center panel
3=Serious	Cerebral subarachnoid hemorrhage	Center panel
4=Severe	Cerebral subdural hematoma, small (<50ccs)	Center panel
4=Severe	Cerebral intraventricular hemorrhage	Center panel
2=Moderate	Cervical transverse process fracture, no cord injury	Center panel
3=Serious	Lung contusion, unilateral	Steering comb
3=Serious	Pharyngeal laceration without perforation, mucosal tear	Steering rim
1=Minor	Scalp abrasion	Center panel
1=Minor	Scalp laceration, minor	Center panel

Occupant: 2004-49-260-1-2



Fire Information

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



Crash Severity

Nr. Quarter Turns	No rollover
Impact Speed	998
Total, Longitudal, and Lateral δV	21 -18 -11
Est. δV with sequence number	DELTA V CODED 1
CDC	1 R Y A W 3
Damage (C1-C6)	0 18 36 30 28 6
Crush (L and D)	217 20
Object Contacted 1	VEHICLE NO. 2
Object Contacted 2	VEHICLE NO. 3

NASS Weighting Factor

Weighting factor	8.788
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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	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)	96

Vehicle Factors

Make-Model	BMW 5-series
Year	1993
Class	PASSENGER CAR
Body Type	4-DR SEDAN/HDTOP
Weight	173

Pre-Crash Driver Data

Accident Type	68
Pre-event Movement	TURNING LEFT
Critical Pre-crash Event	OPP DIR-OVR RGHT
Attempted Avoidance Manuever	99
Pre-impact Stability	9
Pre-impact Location	STAYED IN LANE

PASSENGER Factors

Age	26	Height	999	Weight	999
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	DR BAG DEPLOYED
Airbag Deployment - Oth Seat	Not EQUIP W/ OTH

Injuries

Occupant	2004-49-260-1-2
MAIS	5=Critical
Seat Position	Front right side

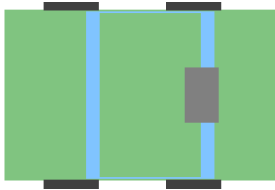
AIS Level	Injury Description	Contacts
5=Critical	Brainstem compression (includes herniation)	Right A pillar
5=Critical	Brain stem hemorrhage	Right A pillar
3=Serious	Cerebellar subarachnoid hemorrhage	Right A pillar
3=Serious	Cerebral contusions, multiple, unilateral, small (<30ccs)	Right A pillar
3=Serious	Cerebral subarachnoid hemorrhage	Right A pillar
3=Serious	Cerebral subarachnoid hemorrhage	Right A pillar
4=Severe	Cerebral subdural hematoma, small (<50ccs)	Right A pillar
5=Critical	Cerebral brain swelling, severe	Right A pillar
5=Critical	Cerebral brain swelling, severe	Right A pillar
3=Serious	Cerebral pneumocephalus	Right A pillar
3=Serious	Skull fracture, vault, comminuted (compound, depressed)	Right A pillar
3=Serious	Skull fracture, vault, comminuted (compound, depressed)	Right A pillar
3=Serious	Orbit fracture, open/displaced/comminuted	Right A pillar
4=Severe	Lung contusion, bilateral	Right interior
3=Serious	2-3 rib fractures with stable chest and hemo-/pneumothorax	Right interior
3=Serious	Pelvic fracture, open/displaced/comminuted	Right hardware
2=Moderate	Pelvic fracture, closed	Right hardware
2=Moderate	Clavicle fracture	Right interior
5=Critical	Internal carotid artery laceration	Right A pillar
2=Moderate	Thoracic transverse process fracture without cord injury	Right interior
1=Minor	Scalp laceration, minor	Right A pillar
1=Minor	Facial skin laceration, minor	Right A pillar
1=Minor	Facial skin abrasion	Right A pillar
1=Minor	Facial skin abrasion	Right A pillar
1=Minor	Facial skin laceration, minor	Right A pillar
1=Minor	Neck skin contusion (hematoma)	Belt webb/buckle
1=Minor	Neck skin laceration, minor	Belt webb/buckle
1=Minor	Neck skin laceration, minor	Right A pillar

Occupant: 2004-49-260-2-1



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	21 -18 11
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	8.788
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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

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)	96

Vehicle Factors

Make-Model	Ford Bronco II
Year	1998
Class	TRUCK
Body Type	COMPACT UTILITY
Weight	182

Pre-Crash Driver Data

Accident Type	69
Pre-event Movement	GOING STRAIGHT
Critical Pre-crash Event	CROSS OVER INTER
Attempted Avoidance Maneuver	99
Pre-impact Stability	9
Pre-impact Location	STAYED IN LANE

DRIVER Factors

Age	19	Height	180	Weight	58
Gender			MALE		
Ejection			No EJECTION		
Ejection Area			No EJECTION		
Entrapment			9		

Restraint Factors

Restrain	99
AOPS	VIN DET AIR BAG
Airbag Deployment	9
Airbag Deployment - 1 st Seat	9
Airbag Deployment - Oth Seat	Not EQUIP W/ OTH

Injuries

Occupant	2004-49-260-2-1
MAIS	7=Unk. sev.
Seat Position	Front left side

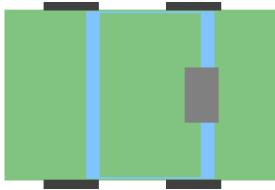
AIS Level	Injury Description	Contacts
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Occupant: 2004-49-260-3-1



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	999
Total, Longitudal, and Lateral δV	999 999 999
Est. δV with sequence number	9 99
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	8.788
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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

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)	96

Vehicle Factors

Make-Model	Chevrolet Suburban
Year	1987
Class	TRUCK
Body Type	UTILITY STAWAGON
Weight	191

Pre-Crash Driver Data

Accident Type	98
Pre-event Movement	STOPPED IN LANE
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	41	Height	175	Weight	86
Gender			MALE		
Ejection			No EJECTION		
Ejection Area			No EJECTION		
Entrapment			9		

Restraint Factors

Restrain	99
AOPS	NO
Airbag Deployment	Not EQUIP/AVAIL
Airbag Deployment - 1 st Seat	Not EQUIP/AVAIL
Airbag Deployment - Oth Seat	Not EQUIP W/ OTH

Injuries

Occupant	2004-49-260-3-1
MAIS	7=Unk. sev.
Seat Position	Front left side

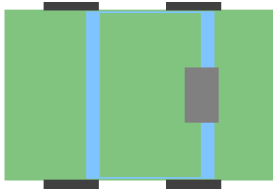
AIS Level	Injury Description	Contacts
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Occupant: 2004-49-260-3-2



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	999
Total, Longitudal, and Lateral δV	999 999 999
Est. δV with sequence number	9 99
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	8.788
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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

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)	96

Vehicle Factors

Make-Model	Chevrolet Suburban
Year	1987
Class	TRUCK
Body Type	UTILITY STAWAGON
Weight	191

Pre-Crash Driver Data

Accident Type	98
Pre-event Movement	STOPPED IN LANE
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	999	Weight	999
Gender			MALE		
Ejection			No EJECTION		
Ejection Area			No EJECTION		
Entrapment			9		

Restraint Factors

Restrain		99
AOPS		NO
Airbag Deployment		Not EQUIP/AVAIL
Airbag Deployment - 1 st Seat		Not EQUIP/AVAIL
Airbag Deployment - Oth Seat		Not EQUIP W/ OTH

Injuries

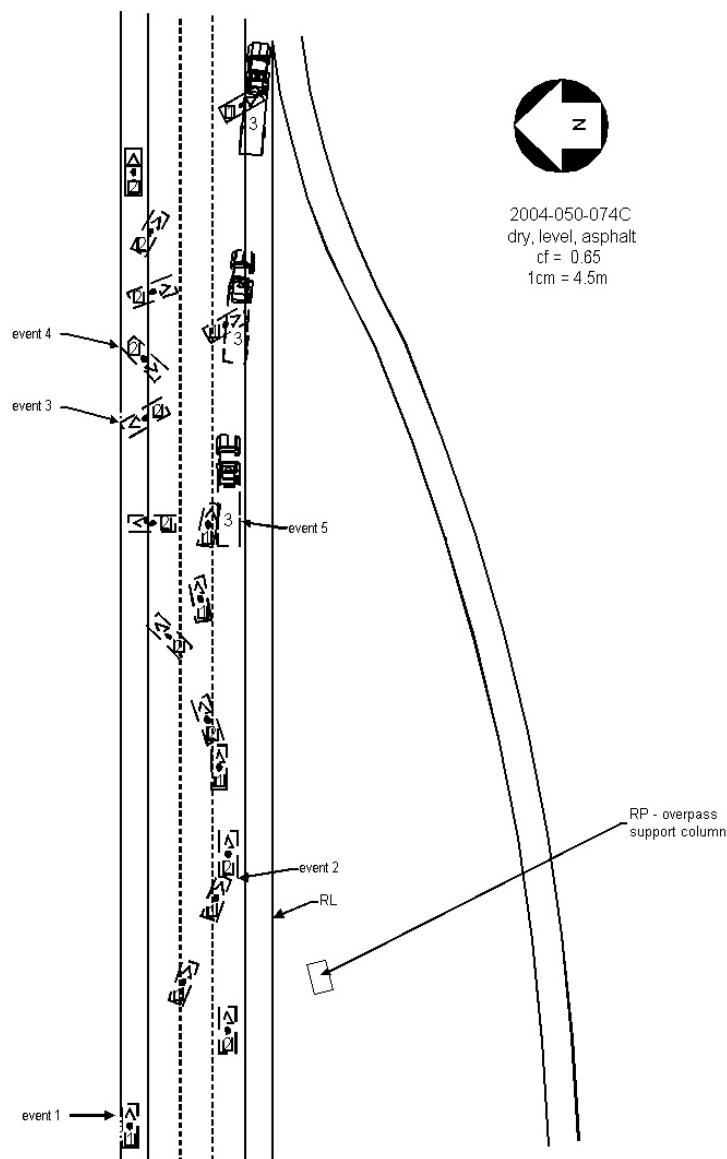
Occupant	2004-49-260-3-2
MAIS	0=None
Seat Position	Front right side

AIS Level	Injury Description	Contacts
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26 Case 2004-50-74

Summary:

Vehicle 1 (a 2002 Ford Ranger) was eastbound on a three-lane, divided, level asphalt state highway. Vehicle 2 (a 1998 Oldsmobile Delta 88) and vehicle 3 (a 1999 International 8100 tractor-trailer) were eastbound in lane one of the same roadway. Vehicle 1 traveled off the left side of the roadway and the left side struck the median concrete wall. Vehicle 1 then moved across the roadway into lane one, and the front of vehicle 1 struck the back of vehicle 2. Vehicle 2 rotated counterclockwise, moving across the roadway and the front then the back struck the median concrete wall. Vehicle 2 came to rest on the shoulder facing east. Vehicle 1 continued east, rotating clockwise, and the right side struck the left side of the trailer of Vehicle 3. Vehicle 1 continued traveling until it was under vehicle 3's trailer. Vehicles 1 and 3 came to rest off the right side of the highway. Vehicles 1 and 2 were towed due to damage. The restrained driver of vehicle 1 was hospitalized overnight for observation of loss of consciousness and released with contusions. The restrained driver of vehicle 2 was treated later for minor contusion. The air bags in vehicle 1 did not deploy, the air bags in vehicle 2 did deploy.)



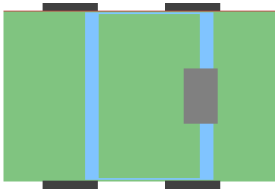
Vehicle	Body type	Make	Model	Year	Occ.#	Age	Occupant's sex	Maximum known occupant ais
1	COMPACT PICKUP	Ford	Ranger	2002	1	18	MALE	3=Serious
2	4-DR SEDAN/HDTOP	Oldsmobile	Delta 88	1998	1	56	FEMALE-NOT PREG	1=Minor

Occupant: 2004-50-74-1-1



Fire Information

Fire Occurence	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



Crash Severity

Nr. Quarter Turns	No rollover
Impact Speed	999
Total, Longitudal, and Lateral δV	999 999 999
Est. δV with sequence number	9 5
CDC	99 R D A W 99
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. 2

NASS Weighting Factor

Weighting factor	5.442
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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/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	ALCOHOL PRESENT
Alcohol Test (< 95 indicates BAC 0.xx)	34

Vehicle Factors

Make-Model	Ford Ranger
Year	2002
Class	TRUCK
Body Type	COMPACT PICKUP
Weight	140

Pre-Crash Driver Data

Accident Type	6
Pre-event Movement	CHANGING LANES
Critical Pre-crash Event	OFF EDGE-LEFT
Attempted Avoidance Maneuver	99
Pre-impact Stability	9
Pre-impact Location	DEPARTED ROADWAY

DRIVER Factors

Age	18	Height	160	Weight	73
Gender			MALE		
Ejection			No EJECTION		
Ejection Area			No EJECTION		
Entrapment			Not ENTRAPPED		

Restraint Factors

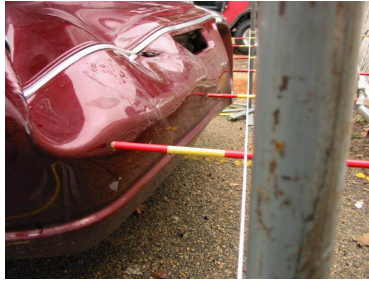
Restrain	Lap and shoulder
AOPS	YES-RES DET
Airbag Deployment	NONDEPLOYED
Airbag Deployment - 1 st Seat	NONDEPLOYED
Airbag Deployment - Oth Seat	Not EQUIP W/ OTH

Injuries

Occupant	2004-50-74-1-1
MAIS	3=Serious
Seat Position	Front left side

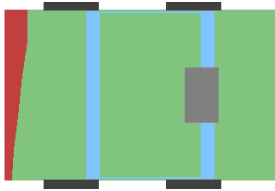
AIS Level	Injury Description	Contacts
3=Serious	Unconscious on admission, length <1 hour	Unknown SOURCE
1=Minor	Facial skin laceration, minor	Unknown SOURCE
1=Minor	Scalp laceration, minor	Unknown SOURCE
1=Minor	Thoracic skin abrasion	Belt webb/buckle
1=Minor	Upper extremity skin abrasion	Belt webb/buckle
1=Minor	Upper extremity skin abrasion	Unknown SOURCE

Occupant: 2004-50-74-2-1



Fire Information

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



Crash Severity

Nr. Quarter Turns	No rollover
Impact Speed	998
Total, Longitudal, and Lateral δV	25 -24 -9
Est. δV with sequence number	DELTA V CODED 3
CDC	1 F D E W 2
Damage (C1-C6)	10 14 20 26 33 33
Crush (L and D)	162 0
Object Contacted 1	CONCRETE BARRIER
Object Contacted 2	VEHICLE NO. 1

NASS Weighting Factor

Weighting factor	5.442
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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/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)	96

Vehicle Factors

Make-Model	Oldsmobile Delta 88
Year	1998
Class	PASSENGER CAR
Body Type	4-DR SEDAN/HDTOP
Weight	157

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	56	Height	152	Weight	81
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

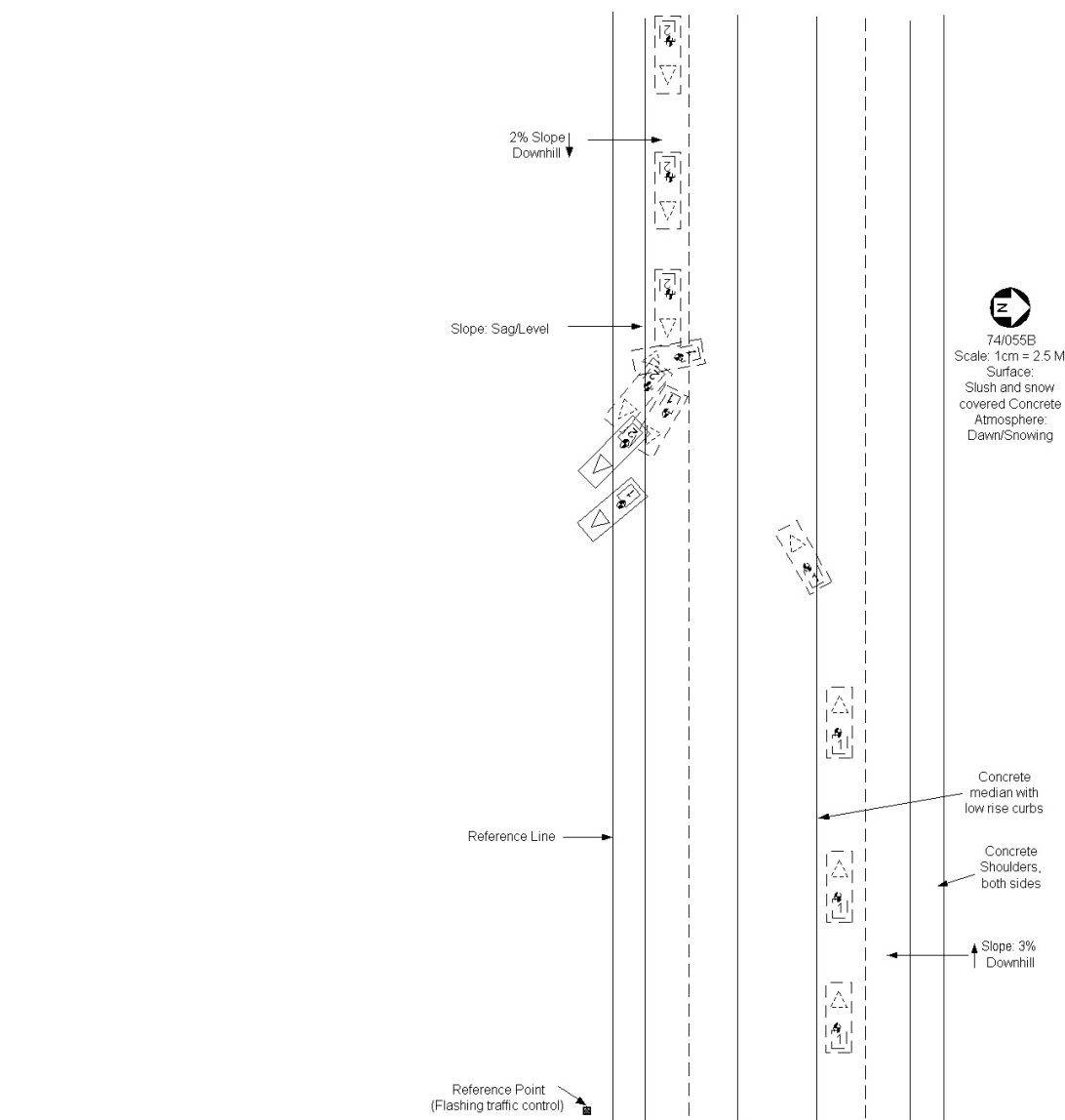
Occupant	2004-50-74-2-1
MAIS	1=Minor
Seat Position	Front left side

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

27 Case 2004-74-55

Summary:

Vehicle 1, a 2000 Ford F250, was westbound in lane 2 of a 4 lane, median divided, downhill, slush covered, concrete roadway. Vehicle 2, 1998 Dodge Ram, was eastbound in lane 1 of the same roadway, also traveling downhill. It was approximately dawn and it was snowing. Vehicle 1 lost control and crossed the median, entering westbound lanes. The front end of Vehicle 2 struck vehicle 1s' right side. Both vehicles moved towards the east and the south shoulder as they side-slapped. Vehicle 1 came to rest off the side of the shoulder facing southwest. Vehicle 2 came to rest over the shoulder facing southeast. Both vehicles were towed due to damage. Driver of vehicle 1 was restrained by lap and shoulder belts. V1 was equipped with redesigned airbags which did not deploy. RF airbag switch was in "on" position. Driver of vehicle 2 was restrained by lap and shoulder belts. Retractor type pretensioners fired in both the LF and RF positions. Vehicle 2 was equipped with redesigned airbags which did deploy. RF airbag switch was in "on" position. The restrained driver of vehicle 1 was fatal at the scene with fracture-dislocation of the neck and laceration of the pontine-medullary junction of brain stem. The restrained driver of vehicle 2 was hospitalized with both bone lower leg fracture.)



Vehicle	Body type	Make	Model	Year	Occ.#	Age	Occupant's sex	Maximum known occupant ais
1	LARGE PICKUP	Ford	F-series P/U	2000	1	35	MALE	6=Maximum
2	LARGE PICKUP	Dodge	Ram 1500 P/U	1998	1	41	MALE	3=Serious

Occupant: 2004-74-55-1-1



Fire Information

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



Pre-Crash Environment

Traffic Flow	DVDED/NO BARRIER
Number of Travel Lanes	TWO
Roadway Alignment	STRAIGHT
Roadway Profile	DOWNHILL GRADE
Roadway Surface Type	CONCRETE
Roadway Surface Condition	SNOW OR SLUSH
Light Conditions	DAWN
Atmospheric Conditions	SNOW
Relation to Intersection	NONINTER/NONJUNC
Traffic Control Device	
Police Reported Alcohol Presence	9
Alcohol Test (< 95 indicates BAC 0.xx)	0

Crash Severity

Nr. Quarter Turns	No rollover
Impact Speed	998
Total, Longitudal, and Lateral δV	74 < 0.5 KMPH -74
Est. δV with sequence number	DELTA V CODED 1
CDC	63 R D A W 8
Damage (C1-C6)	91 133 163 178 140 64
Crush (L and D)	266 -41
Object Contacted 1	VEHICLE NO. 2
Object Contacted 2	VEHICLE NO. 2

NASS Weighting Factor

Weighting factor	7.980
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Rollover Characteristics

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

Vehicle Factors

Make-Model	Ford F-series P/U
Year	2000
Class	TRUCK
Body Type	LARGE PICKUP
Weight	260

Pre-Crash Driver Data

Accident Type	66
Pre-event Movement	GOING STRAIGHT
Critical Pre-crash Event	POOR ROAD CONDIT
Attempted Avoidance Manuever	99
Pre-impact Stability	LAT SKID-CTR CLK
Pre-impact Location	DEPARTED ROADWAY

DRIVER Factors

Age	35	Height	170	Weight	77
Gender					MALE
Ejection					No EJECTION
Ejection Area					No EJECTION
Entrapment					Not ENTRAPPED

Restraint Factors

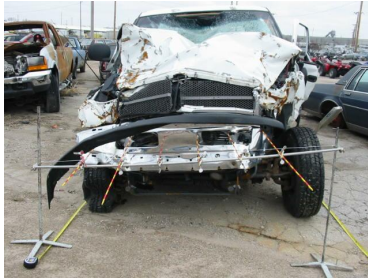
Restrain	Lap and shoulder
AOPS	YES-RES DET
Airbag Deployment	NONDEPLOYED
Airbag Deployment - 1 st Seat	NONDEPLOYED
Airbag Deployment - Oth Seat	Not EQUIP W/ OTH

Injuries

Occupant	2004-74-55-1-1
MAIS	6=Maximum
Seat Position	Front left side

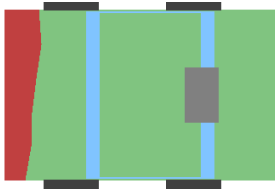
AIS Level	Injury Description	Contacts
6=Maximum	Brain stem laceration	Right interior
2=Moderate	Cervical vertebral body fracture, no cord injury NFS	Right interior
3=Serious	Lung contusion, uni-lateral	Transmiss lever
2=Moderate	Splenic laceration, minor (tear<3cms deep, no major vessel)	Belt webb/buckle
3=Serious	Cerebral subarachnoid hemorrhage	Right interior
1=Minor	Scalp laceration, minor	Right interior
1=Minor	Facial skin laceration, minor	Right interior
1=Minor	Leg skin abrasion	Belt webb/buckle
1=Minor	Leg skin abrasion	Transmiss lever
1=Minor	Leg skin abrasion	Steering rim
1=Minor	Upper extremity skin abrasion	Right interior
1=Minor	Upper extremity skin abrasion	Belt webb/buckle
1=Minor	Upper extremity skin contusion	Belt webb/buckle

Occupant: 2004-74-55-2-1



Fire Information

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



Pre-Crash Environment

Traffic Flow	DVDED/NO BARRIER
Number of Travel Lanes	TWO
Roadway Alignment	STRAIGHT
Roadway Profile	DOWNHILL GRADE
Roadway Surface Type	CONCRETE
Roadway Surface Condition	SNOW OR SLUSH
Light Conditions	DAWN
Atmospheric Conditions	SNOW
Relation to Intersection	NONINTER/NONJUNC
Traffic Control Device	
Police Reported Alcohol Presence	9
Alcohol Test (< 95 indicates BAC 0.xx)	0

Crash Severity

Nr. Quarter Turns	No rollover
Impact Speed	998
Total, Longitudal, and Lateral δV	66 -65 11
Est. δV with sequence number	DELTA V CODED 1
CDC	12 F D E W 2
Damage (C1-C6)	31 39 41 47 54 51
Crush (L and D)	170 0
Object Contacted 1	VEHICLE NO. 1
Object Contacted 2	VEHICLE NO. 1

NASS Weighting Factor

Weighting factor	7.980
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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 Ram 1500 P/U
Year	1998
Class	TRUCK
Body Type	LARGE PICKUP
Weight	283

Pre-Crash Driver Data

Accident Type	66
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	41	Height	178	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
PAS BAG DEPLY	
Airbag Deployment - Oth Seat	Not EQUIP W/ OTH

Injuries

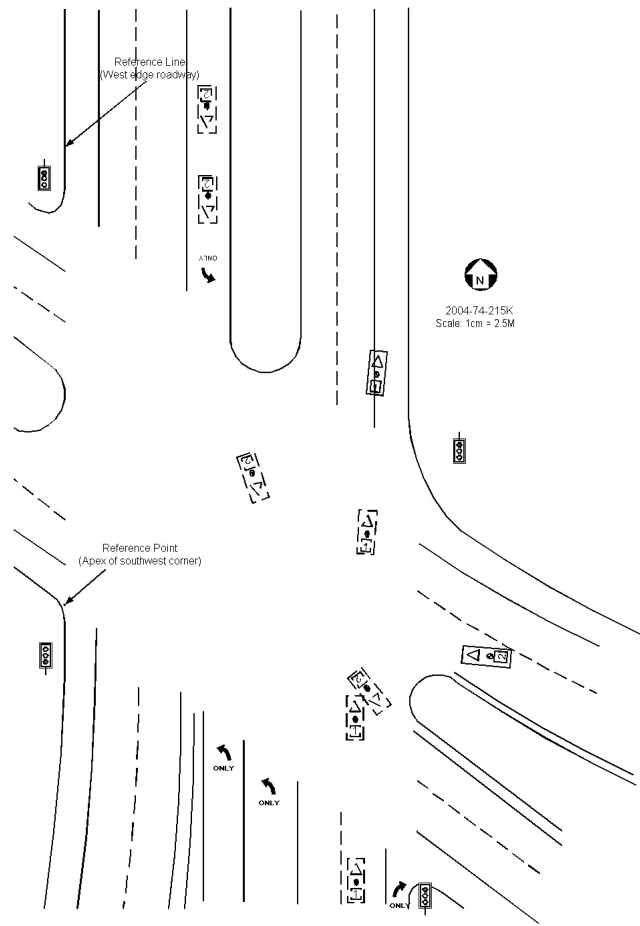
Occupant	2004-74-55-2-1
MAIS	3=Serious
Seat Position	Front left side

AIS Level	Injury Description	Contacts
3=Serious	Tibial shaft fracture, open/displaced/comminuted	Floor
2=Moderate	Fibular head, neck, or shaft fracture	Floor
1=Minor	297202	Bag-DR side+eyew
1=Minor	Leg skin abrasion	Floor

28 Case 2004-74-215

Summary:

Vehicle 1, a 1987 Chevrolet Blazer, was northbound in lane one of a seven-lane, median divided, dry, level, concrete roadway, approaching an intersection. Vehicle 2, a 1999 Pontiac Grand Am, was southbound in lane three on the same roadway. As vehicle 2 turned left at the intersection, the right side was struck by the front of vehicle 1. Vehicle 1 continued northbound after impact, moving over to the east curb on the north side of the intersection to final rest. Vehicle 2 rotated clockwise, coming to rest facing west just north of the median on the east side of the intersection. Both vehicles were towed due to damage. Vehicle 2 was equipped with left and right front air bags that deployed. Vehicle 1 restrained driver was hospitalized for observation of head injury and released with a right forehead abrasion. Vehicle 2 restrained driver was hospitalized with neck fractures and a brain injury.)



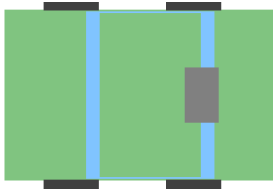
Vehicle	Body type	Make	Model	Year	Occ.#	Age	Occupant's sex	Maximum known occupant ais
1	COMPACT UTILITY	Chevrolet	S-10 Blazer	1987	1	44	MALE	1=Minor
2	4-DR SEDAN/HDTOP	Pontiac	Grand AM	1999	1	65	MALE	4=Severe

Occupant: 2004-74-215-1-1



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	999
Total, Longitudal, and Lateral δV	999 999 999
Est. δV with sequence number	9 99
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	9.408
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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	FIVE
Roadway Alignment	STRAIGHT
Roadway Profile	LEVEL
Roadway Surface Type	CONCRETE
Roadway Surface Condition	DRY
Light Conditions	DARK/LIGHTED
Atmospheric Conditions	No ADVERSE COND
Relation to Intersection	INTERSECTION REL
Traffic Control Device	
Police Reported Alcohol Presence	ALCOHOL PRESENT
Alcohol Test (< 95 indicates BAC 0.xx)	20

Vehicle Factors

Make-Model	Chevrolet S-10 Blazer
Year	1987
Class	TRUCK
Body Type	COMPACT UTILITY
Weight	144

Pre-Crash Driver Data

Accident Type	69
Pre-event Movement	GOING STRAIGHT
Critical Pre-crash Event	CROSS OVER INTER
Attempted Avoidance Maneuver	99
Pre-impact Stability	9
Pre-impact Location	STAYED IN LANE

DRIVER Factors

Age	44	Height	183	Weight	100
Gender			MALE		
Ejection			No EJECTION		
Ejection Area			No EJECTION		
Entrapment			Not ENTRAPPED		

Restraint Factors

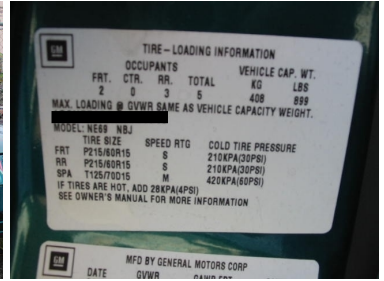
Restrain	Lap and shoulder
AOPS	NO
Airbag Deployment	Not EQUIP/AVAIL
Airbag Deployment - 1 st Seat	Not EQUIP/AVAIL
Airbag Deployment - Oth Seat	Not EQUIP W/ OTH

Injuries

Occupant	2004-74-215-1-1
MAIS	1=Minor
Seat Position	Front left side

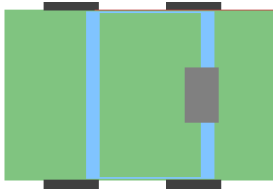
AIS Level	Injury Description	Contacts
1=Minor	Awake on admission, never unconscious	Windshield
1=Minor	Facial skin abrasion	Windshield
1=Minor	Facial skin contusion	Windshield

Occupant: 2004-74-215-2-1



Fire Information

Fire Occurrence	No fire
Fire Origin	No fire
Location of Fuel Leakage	Unknown
Type of Fuel Tank	Unknown type
Fuel Tank Location	Unknown
Fuel Cap Location	Right side, behind rear axle
Fuel Tank Damage	Unknown
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	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)	96

Crash Severity

Nr. Quarter Turns	No rollover
Impact Speed	999
Total, Longitudal, and Lateral δV	999 999 999
Est. δV with sequence number	SEVERE 1
CDC	1 R Z A W 99
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	9.408
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Rollover Characteristics

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

Vehicle Factors

Make-Model	Pontiac Grand AM
Year	1999
Class	PASSENGER CAR
Body Type	4-DR SEDAN/HDTOP
Weight	145

Pre-Crash Driver Data

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

DRIVER Factors

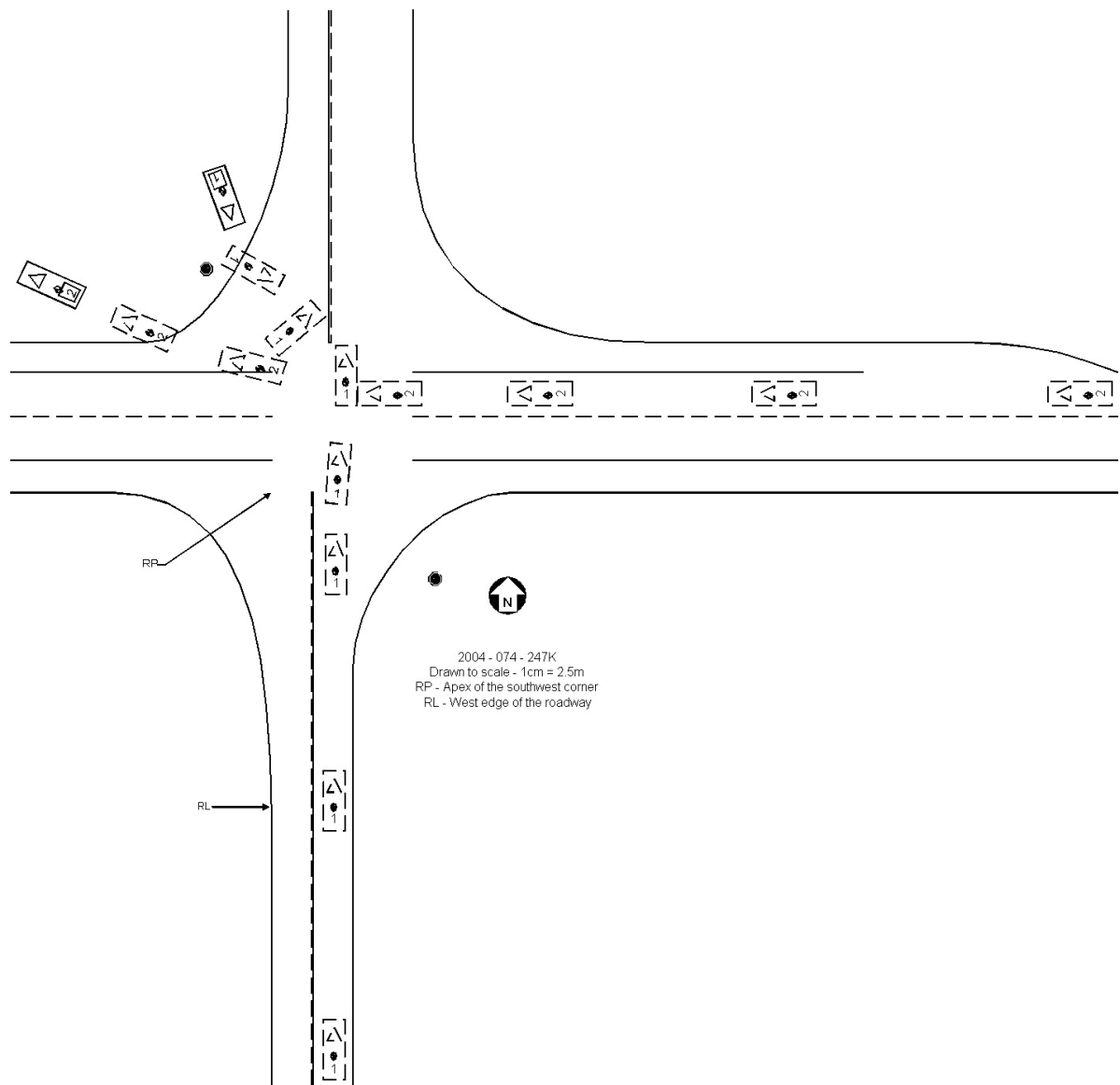
Age	65	Height	183	Weight	95
Gender			MALE		
Ejection			No EJECTION		
Ejection Area			No EJECTION		
Entrapment			Not ENTRAPPED		

Restraint Factors		AIS Level	Injury Description
Restrain AOPS	Lap and shoulder YES-RES DET		
Airbag Deployment	BAG DEPLOYED		
Airbag Deployment - 1 st Seat	DR		
PAS BAG DEPLY			
Airbag Deployment - Oth Seat	Not EQUIP W/ OTH	2=Moderate	Lethal or on in ad- te mis- ric sion, un- con- scious
Injuries			
Occupant	2004-74-215-2-1		
MAIS	4=Severe		
Seat Position	Front left side		
		2=Moderate	<1 hour Cervical ver- te- bral body frac- ture, tu- no no cord co in- in jury, ju <2024/10/01
			er- er- ate at Right in- te- rior
		3=Serious	Cerebral brainin swelling mild ric
		4=Severe	Intracerebral hematoma, small (<30cc)
		3=Serious	Cerebral con- in- tu- te- sion, ric- sin- gle, small (<30cc)
		1=Minor	Scalp R con- in- tu- te- sion ric
		1=Minor	Facial R skin in abra- te- sion ric
		1=Mi	Facial R

29 Case 2004-74-247

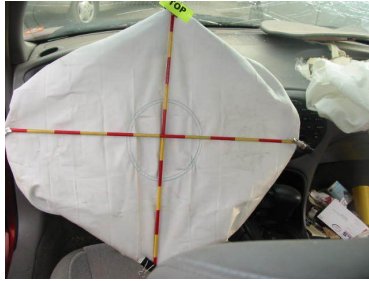
Summary:

Vehicle 1 (1996 Mercury Sable) was traveling north on a two-lane, undivided, level, bituminous roadway, approaching an intersection. Vehicle 2 (1994 Ford F-150) was traveling west on an intersecting, three-lane, undivided, level, bituminous roadway. In the intersection, the front of vehicle 2 struck the right rear side of vehicle 1. Both vehicles moved off to the northwest corner to final rest. Both vehicles were towed due to damage. Both front air bags in vehicle 1 deployed. Vehicle 2 was equipped with a driver air bag that deployed. Vehicle 1 restrained driver was hospitalized with neck fracture. Vehicle 1 restrained front seat passenger was treated and released with abrasion and contusion. Vehicle 1 unrestrained left rear seat passenger, who was completely ejected, was hospitalized with a skull fracture. Vehicle 1 right rear seat passenger, who was restrained in a child seat, was hospitalized overnight and released with neck dislocation. Vehicle 2 restrained driver received a minor forearm burn but was not treated.)



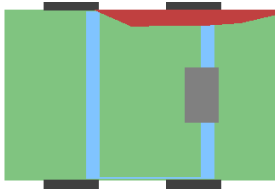
Vehicle	Body type	Make	Model	Year	Occ.#	Age	Occupant's sex	Maximum known occupant ais
1	4-DR SEDAN/HDTOP	Mercury	Sable	1996	1	41	FEMALE-NOT PREG	3=Serious
1	4-DR SEDAN/HDTOP	Mercury	Sable	1996	2	13	FEMALE-NOT PREG	1=Minor
1	4-DR SEDAN/HDTOP	Mercury	Sable	1996	3	6	FEMALE-NOT PREG	3=Serious
1	4-DR SEDAN/HDTOP	Mercury	Sable	1996	4	LESS THAN ONE YR	MALE	2=Moderate
2	LARGE PICKUP	Ford	F-series P/U	1994	1	25	MALE	1=Minor

Occupant: 2004-74-247-1-1



Fire Information

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



Pre-Crash Environment

Traffic Flow	Not DIVIDED
Number of Travel Lanes	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)	96

Vehicle Factors

Make-Model	Mercury Sable
Year	1996
Class	PASSENGER CAR
Body Type	4-DR SEDAN/HDTOP
Weight	154

Crash Severity

Nr. Quarter Turns	No rollover
Impact Speed	998
Total, Longitudal, and Lateral δV	18 -14 -12
Est. δV with sequence number	DELTA V CODED 1
CDC	1 R Z A W 3
Damage (C1-C6)	6 18 22 22 23 0
Crush (L and D)	220 -135
Object Contacted 1	VEHICLE NO. 2
Object Contacted 2	0

Pre-Crash Driver Data

Accident Type	87
Pre-event Movement	GOING STRAIGHT
Critical Pre-crash Event	CROSS OVER INTER
Attempted Avoidance Manuever	99
Pre-impact Stability	TRACKING
Pre-impact Location	STAYED IN LANE

NASS Weighting Factor

Weighting factor	9.408
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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	41	Height	165	Weight	48
Gender					FEMALE-NOT PREG
Ejection					No EJECTION
Ejection Area					No EJECTION
Entrapment					Not ENTRAPPED

Restraint Factors

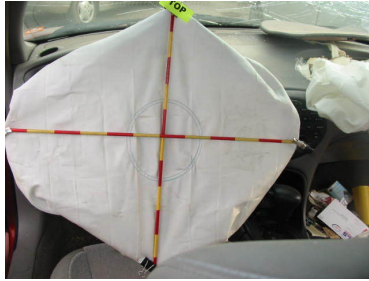
Restrain	Lap and shoulder
AOPS	YES-RES DET
Airbag Deployment	BAG DEPLOYED
Airbag Deployment - 1 st Seat	DR
PAS BAG DEPLY	
Airbag Deployment - Oth Seat	Not EQUIP W/ OTH

Injuries

Occupant	2004-74-247-1-1
MAIS	3=Serious
Seat Position	Front left side

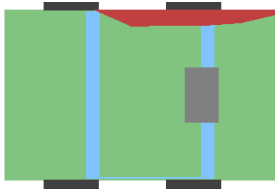
AIS Level	Injury Description	Contacts
3=Serious	Cervical pedicle fracture, no cord injury	Head restraint
2=Moderate	Awake on admission, unconscious <1 hour	Head restraint
1=Minor	Facial skin abrasion	Flying glass

Occupant: 2004-74-247-1-2



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)	96

Vehicle Factors

Make-Model	Mercury Sable
Year	1996
Class	PASSENGER CAR
Body Type	4-DR SEDAN/HDTOP
Weight	154

Crash Severity

Nr. Quarter Turns	No rollover
Impact Speed	998
Total, Longitudal, and Lateral δV	18 -14 -12
Est. δV with sequence number	DELTA V CODED 1
CDC	1 R Z A W 3
Damage (C1-C6)	6 18 22 22 23 0
Crush (L and D)	220 -135
Object Contacted 1	VEHICLE NO. 2
Object Contacted 2	0

Pre-Crash Driver Data

Accident Type	87
Pre-event Movement	GOING STRAIGHT
Critical Pre-crash Event	CROSS OVER INTER
Attempted Avoidance Maneuver	99
Pre-impact Stability	TRACKING
Pre-impact Location	STAYED IN LANE

NASS Weighting Factor

Weighting factor	9.408
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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	13	Height	999	Weight	999
Gender					FEMALE-NOT PREG
Ejection					No EJECTION
Ejection Area					No EJECTION
Entrapment					Not ENTRAPPED

Restraint Factors

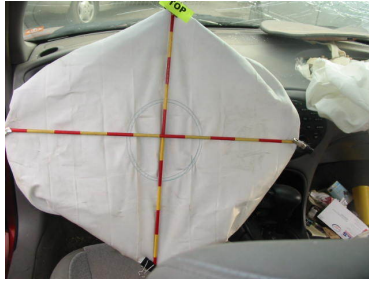
Restrain	Lap and shoulder
AOPS	YES-RES DET
Airbag Deployment	BAG DEPLOYED
Airbag Deployment - 1 st Seat	DR
PAS BAG DEPLY	
Airbag Deployment - Oth Seat	Not EQUIP W/ OTH

Injuries

Occupant	2004-74-247-1-2
MAIS	1=Minor
Seat Position	Front right side

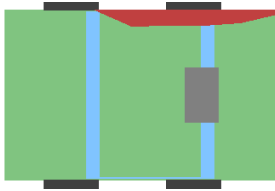
AIS Level	Injury Description	Contacts
1=Minor	Thoracic skin contusion	Right interior
1=Minor	Upper extremity skin abrasion	Right interior

Occupant: 2004-74-247-1-3



Fire Information

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



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)	96

Vehicle Factors

Make-Model	Mercury Sable
Year	1996
Class	PASSENGER CAR
Body Type	4-DR SEDAN/HDTOP
Weight	154

Crash Severity

Nr. Quarter Turns	No rollover
Impact Speed	998
Total, Longitudal, and Lateral δV	18 -14 -12
Est. δV with sequence number	DELTA V CODED 1
CDC	1 R Z A W 3
Damage (C1-C6)	6 18 22 22 23 0
Crush (L and D)	220 -135
Object Contacted 1	VEHICLE NO. 2
Object Contacted 2	0

Pre-Crash Driver Data

Accident Type	87
Pre-event Movement	GOING STRAIGHT
Critical Pre-crash Event	CROSS OVER INTER
Attempted Avoidance Maneuver	99
Pre-impact Stability	TRACKING
Pre-impact Location	STAYED IN LANE

NASS Weighting Factor

Weighting factor	9.408
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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	6	Height	999	Weight	999
Gender					FEMALE-NOT PREG
Ejection					COMPLETE EJECT
Ejection Area					Right REAR
Entrapment					Not ENTRAPPED

Restraint Factors

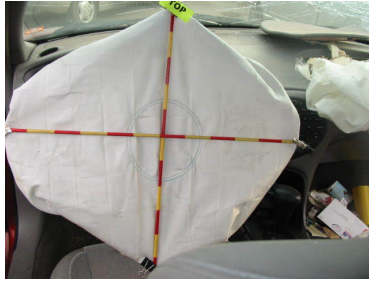
Restrain	None used/avail
AOPS	YES-RES DET
Airbag Deployment	Not EQUIP/AVAIL
Airbag Deployment - 1 st Seat	DR
PAS BAG DEPLY	
Airbag Deployment - Oth Seat	Not EQUIP W/ OTH

Injuries

Occupant	2004-74-247-1-3
MAIS	3=Serious
Seat Position	Second left

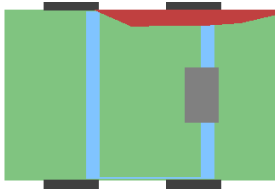
AIS Level	Injury Description	Contacts
3=Serious	Basilar skull fracture, without CSF leak	Ground
1=Minor	Scalp contusion	Ground
1=Minor	Scalp laceration, minor	Ground
1=Minor	690202	Ground
1=Minor	Upper extremity skin contusion	Ground
1=Minor	Facial skin abrasion	Ground

Occupant: 2004-74-247-1-4



Fire Information

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



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)	96

Vehicle Factors

Make-Model	Mercury Sable
Year	1996
Class	PASSENGER CAR
Body Type	4-DR SEDAN/HDTOP
Weight	154

Crash Severity

Nr. Quarter Turns	No rollover
Impact Speed	998
Total, Longitudal, and Lateral δV	18 -14 -12
Est. δV with sequence number	DELTA V CODED 1
CDC	1 R Z A W 3
Damage (C1-C6)	6 18 22 22 23 0
Crush (L and D)	220 -135
Object Contacted 1	VEHICLE NO. 2
Object Contacted 2	0

Pre-Crash Driver Data

Accident Type	87
Pre-event Movement	GOING STRAIGHT
Critical Pre-crash Event	CROSS OVER INTER
Attempted Avoidance Manuever	99
Pre-impact Stability	TRACKING
Pre-impact Location	STAYED IN LANE

NASS Weighting Factor

Weighting factor	9.408
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PASSENGER Factors

Age	LESS THAN ONE YR	Height	999	Weight	999
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

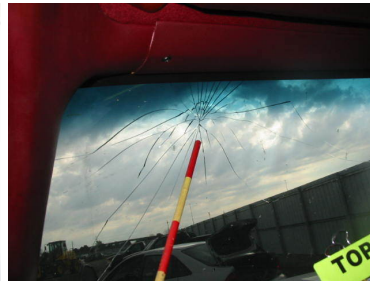
Restrain	Lap+sh w/ch seat
AOPS	YES-RES DET
Airbag Deployment	Not EQUIP/AVAIL
Airbag Deployment - 1 st Seat	DR
PAS BAG DEPLY	
Airbag Deployment - Oth Seat	Not EQUIP W/ OTH

Injuries

Occupant	2004-74-247-1-4
MAIS	2=Moderate
Seat Position	Second right

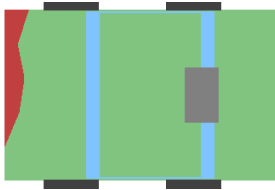
AIS Level	Injury Description	Contacts
2=Moderate	C-spine dislocation no bone or cord involvement NFS	Other occupants
1=Minor	Scalp laceration, minor	Flying glass
1=Minor	Scalp laceration, minor	Flying glass

Occupant: 2004-74-247-2-1



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	Not DIVIDED
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)	96

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 F D E W 2
Damage (C1-C6)	0 1 22 29 19 35
Crush (L and D)	180 110
Object Contacted 1	VEHICLE NO. 1
Object Contacted 2	0

NASS Weighting Factor

Weighting factor	9.408
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Rollover Characteristics

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

Vehicle Factors

Make-Model	Ford F-series P/U
Year	1994
Class	TRUCK
Body Type	LARGE PICKUP
Weight	184

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	25	Height	173	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

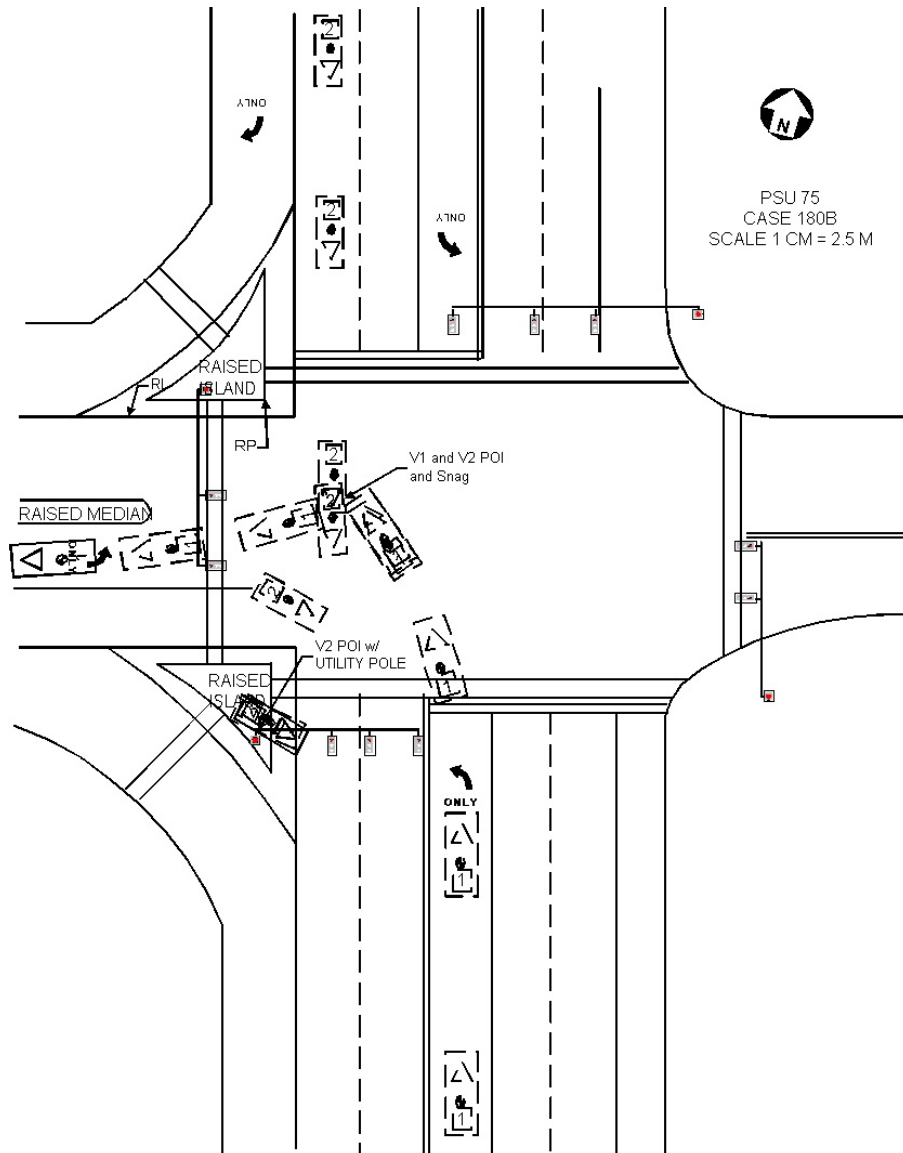
Occupant	2004-74-247-2-1
MAIS	1=Minor
Seat Position	Front left side

AIS Level	Injury Description	Contacts
1=Minor	792002	Air bag exh has

30 Case 2004-75-180

Summary:

This two-vehicle crash occurred at 1635 hours on a straight, downhill, undivided, bituminous, dry, seven-lane, state highway. The crash occurred at a four-way traffic controlled intersection. The highway is a designated east-west roadway that runs generally north-south at the location of the crash. The southbound lanes of traffic consist of one right turn lane, two through lanes, and a left turn lane. The northbound lanes of traffic consist of one left turn lane, two through lanes, and a right turn lane. The intersection is located at the sag of two downhill sections of the roadway. The roadway was free of defects and there were no adverse atmospheric conditions present at the time of the crash. V1, a 1997 Dodge Grand Caravan, was traveling northbound in lane four intending to turn left at the intersection. V2, a 1991 BMW 325ix, was traveling in lane two intending to go straight. The front of V1 contacted the left side of V2. After the initial impact, V2 rotated counterclockwise to the southwest and contacted its right side with a utility pole. V1 traveled to the west and came to final rest in the left turn lane of eastbound traffic on its wheels facing west. V2 came to final rest at the point of impact with the utility pole on its wheels facing southeast. V1 was equipped with driver and passenger frontal airbags, neither of which deployed. V2 was equipped with a driver airbag, which did not deploy. V1 was towed from the scene. V2 was towed from the scene due to severe damage to the right side. The driver of V1 was wearing her lap and shoulder belt and was not injured. Both occupants in the second row were restrained in child safety seats with a lap and shoulder belt and were not injured. Both occupants in the third row were restrained with lap and shoulder belts and were not injured. The driver of V2 was wearing his lap and shoulder belt and was pronounced dead at the scene with neck fracture and brain stem injury.)



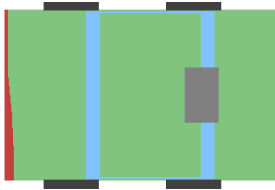
Vehicle	Body type	Make	Model	Year	Occ.#	Age	Occupant's sex	Maximum known occupant ais
1	MINIVAN	Dodge	Caravan	1997	1	38	FEMALE-NOT PREG	0=None
1	MINIVAN	Dodge	Caravan	1997	2	7	FEMALE-NOT PREG	0=None
1	MINIVAN	Dodge	Caravan	1997	3	4	MALE	0=None
1	MINIVAN	Dodge	Caravan	1997	4	9	MALE	0=None
1	MINIVAN	Dodge	Caravan	1997	5	9	MALE	0=None
2	2DR SEDAN/HT/CPE	BMW	3-series	1991	1	41	MALE	5=Critical

Occupant: 2004-75-180-1-1



Fire Information

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



Crash Severity

Nr. Quarter Turns	No rollover
Impact Speed	998
Total, Longitudal, and Lateral δV	17 -13 -11
Est. δV with sequence number	DELTA V CODED 1
CDC	1 F D E W 1
Damage (C1-C6)	13 13 11 5 5 6
Crush (L and D)	166 -21
Object Contacted 1	VEHICLE NO. 2
Object Contacted 2	0

NASS Weighting Factor

Weighting factor	35.092
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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	SEVEN OR MORE
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)	96

Vehicle Factors

Make-Model	Dodge Caravan
Year	1997
Class	TRUCK
Body Type	MINIVAN
Weight	197

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	178	Weight	75
Gender					FEMALE-NOT PREG
Ejection					No EJECTION
Ejection Area					No EJECTION
Entrapment					Not ENTRAPPED

Restraint Factors

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

Injuries

Occupant	2004-75-180-1-1
MAIS	0=None
Seat Position	Front left side

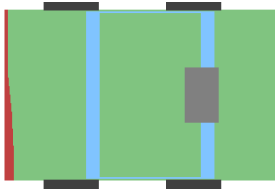
AIS Level	Injury Description	Contacts
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Occupant: 2004-75-180-1-2



Fire Information

Fire Occurrence	No fire
Fire Origin	No fire
Location of Fuel Leakage	No fuel leakage
Type of Fuel Tank	Non-metallic
Fuel Tank Location	Forward of rear axle, left side
Fuel Cap Location	Left side, 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	17 -13 -11
Est. δV with sequence number	DELTA V CODED 1
CDC	1 F D E W 1
Damage (C1-C6)	13 13 11 5 5 6
Crush (L and D)	166 -21
Object Contacted 1	VEHICLE NO. 2
Object Contacted 2	0

NASS Weighting Factor

Weighting factor	35.092
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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	SEVEN OR MORE
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)	96

Vehicle Factors

Make-Model	Dodge Caravan
Year	1997
Class	TRUCK
Body Type	MINIVAN
Weight	197

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	7	Height	122	Weight	22
Gender					FEMALE-NOT PREG
Ejection					No EJECTION
Ejection Area					No EJECTION
Entrapment					Not ENTRAPPED

Restraint Factors

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

Injuries

Occupant	2004-75-180-1-2
MAIS	0=None
Seat Position	Second left

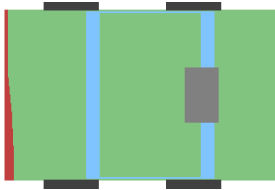
AIS Level	Injury Description	Contacts
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Occupant: 2004-75-180-1-3



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



Crash Severity

Nr. Quarter Turns	No rollover
Impact Speed	998
Total, Longitudal, and Lateral δV	17 -13 -11
Est. δV with sequence number	DELTA V CODED 1
CDC	1 F D E W 1
Damage (C1-C6)	13 13 11 5 5 6
Crush (L and D)	166 -21
Object Contacted 1	VEHICLE NO. 2
Object Contacted 2	0

NASS Weighting Factor

Weighting factor	35.092
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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	SEVEN OR MORE
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)	96

Vehicle Factors

Make-Model	Dodge Caravan
Year	1997
Class	TRUCK
Body Type	MINIVAN
Weight	197

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	4	Height	76	Weight	14
Gender			MALE		
Ejection			No EJECTION		
Ejection Area			No EJECTION		
Entrapment			Not ENTRAPPED		

Restraint Factors

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

Injuries

Occupant	2004-75-180-1-3
MAIS	0=None
Seat Position	Second right

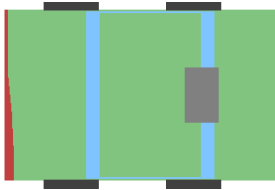
AIS Level	Injury Description	Contacts
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Occupant: 2004-75-180-1-4



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



Crash Severity

Nr. Quarter Turns	No rollover
Impact Speed	998
Total, Longitudal, and Lateral δV	17 -13 -11
Est. δV with sequence number	DELTA V CODED 1
CDC	1 F D E W 1
Damage (C1-C6)	13 13 11 5 5 6
Crush (L and D)	166 -21
Object Contacted 1	VEHICLE NO. 2
Object Contacted 2	0

NASS Weighting Factor

Weighting factor	35.092
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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	SEVEN OR MORE
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)	96

Vehicle Factors

Make-Model	Dodge Caravan
Year	1997
Class	TRUCK
Body Type	MINIVAN
Weight	197

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	9	Height	152	Weight	29
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	2004-75-180-1-4
MAIS	0=None
Seat Position	Third left

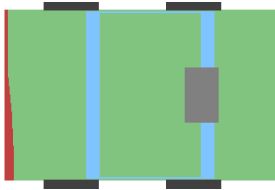
AIS Level	Injury Description	Contacts
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Occupant: 2004-75-180-1-5



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



Crash Severity

Nr. Quarter Turns	No rollover
Impact Speed	998
Total, Longitudal, and Lateral δV	17 -13 -11
Est. δV with sequence number	DELTA V CODED 1
CDC	1 F D E W 1
Damage (C1-C6)	13 13 11 5 5 6
Crush (L and D)	166 -21
Object Contacted 1	VEHICLE NO. 2
Object Contacted 2	0

NASS Weighting Factor

Weighting factor	35.092
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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	SEVEN OR MORE
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)	96

Vehicle Factors

Make-Model	Dodge Caravan
Year	1997
Class	TRUCK
Body Type	MINIVAN
Weight	197

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	9	Height	160	Weight	34
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	2004-75-180-1-5
MAIS	0=None
Seat Position	Third right

AIS Level	Injury Description	Contacts
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Occupant: 2004-75-180-2-1



Fire Information

Fire Occurrence	No fire
Fire Origin	No fire
Location of Fuel Leakage	Unknown
Type of Fuel Tank	Metallic
Fuel Tank Location	Forward of rear axle, left side
Fuel Cap Location	Right side, behind rear axle
Fuel Tank Damage	Deformed
Fuel Type	Gasoline



Crash Severity

Nr. Quarter Turns	No rollover
Impact Speed	998
Total, Longitudal, and Lateral δV	37 6 -36
Est. δV with sequence number	DELTA V CODED 2
CDC	63 R P A W 6
Damage (C1-C6)	0 26 59 13 4 0
Crush (L and D)	338 96
Object Contacted 1	LARGE POLE
Object Contacted 2	VEHICLE NO. 1

NASS Weighting Factor

Weighting factor	35.092
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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	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	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	BMW 3-series
Year	1991
Class	PASSENGER CAR
Body Type	2DR SEDAN/HT/CPE
Weight	136

Pre-Crash Driver Data

Accident Type	69
Pre-event Movement	GOING STRAIGHT
Critical Pre-crash Event	OPP DIR-OVR LEFT
Attempted Avoidance Maneuver	99
Pre-impact Stability	9
Pre-impact Location	STAYED IN LANE

DRIVER Factors

Age	41	Height	180	Weight	109
Gender			MALE		
Ejection			No EJECTION		
Ejection Area			No EJECTION		
Entrapment			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

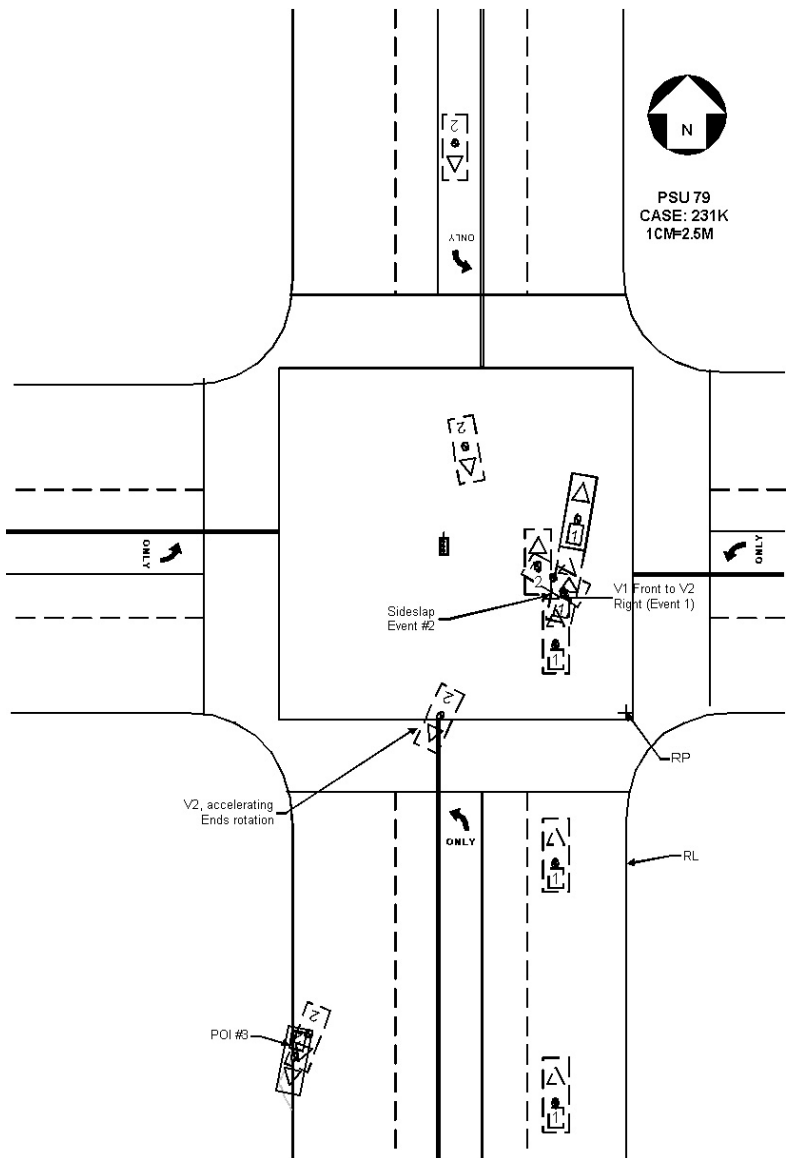
Occupant	2004-75-180-2-1
MAIS	5=Critical
Seat Position	Front left side

AIS Level	Injury Description	Contacts
5=Critical	Brain stem injury, NFS	Right interior
2=Moderate	Cervical fracture with-out cord injury +/- dis-location NFS	Right interior

31 Case 2004-79-231

Summary:

Vehicle one is a 2002 Ford Ranger with manual lap and shoulder belts and dual front airbags. Vehicle two is a 1988 Chevy Cavalier Z24 convertible with manual lap and shoulder belts. Vehicle two was traveling south making a left turn from the number three lane of a five lane, dry, level, asphalt, undivided roadway. Vehicle one was traveling north in the number one lane of the same roadway. The front of vehicle two impacted the right side of vehicle one. V2 then rotated counterclockwise, side-slapped right side to the left side of V1, continued rotating and accelerating, so that when the rotation ended, V2 proceeded on a southwest trajectory and its front impacted the west curb and V2 then came to rest. V1 came to rest facing northeast in the intersection. Vehicle one was towed with moderate damage and deployed airbags. Vehicle two was towed with major damage. The restrained driver of vehicle one was not reported injured. The restrained driver of vehicle two was hospitalized with skull fractures and multiple brain hemorrhage.)



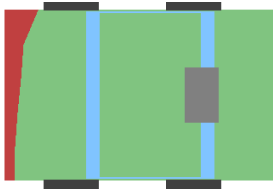
Vehicle	Body type	Make	Model	Year	Occ.#	Age	Occupant's sex	Maximum known occupant ais
1	COMPACT PICKUP	Ford	Ranger	2002	1	18	FEMALE-NOT PREG	0=None
2	CONVERTIBLE	Chevrolet	Cavalier	1988	1	54	MALE	5=Critical

Occupant: 2004-79-231-1-1



Fire Information

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



Crash Severity

Nr. Quarter Turns	No rollover
Impact Speed	998
Total, Longitudal, and Lateral δV	46 -45 8
Est. δV with sequence number	DELTA V CODED 1
CDC	12 F D E W 2
Damage (C1-C6)	15 15 19 24 28 49
Crush (L and D)	154 0
Object Contacted 1	VEHICLE NO. 2
Object Contacted 2	VEHICLE NO. 2

NASS Weighting Factor

Weighting factor	8.119
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Rollover Characteristics

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

Pre-Crash Environment

Traffic Flow	Not DIVIDED
Number of Travel Lanes	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)	96

Vehicle Factors

Make-Model	Ford Ranger
Year	2002
Class	TRUCK
Body Type	COMPACT PICKUP
Weight	148

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

DRIVER Factors

Age	18	Height	165	Weight	59
Gender					FEMALE-NOT PREG
Ejection					No EJECTION
Ejection Area					No EJECTION
Entrapment					Not ENTRAPPED

Restraint Factors

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

Injuries

Occupant	2004-79-231-1-1
MAIS	0=None
Seat Position	Front left side

AIS Level	Injury Description	Contacts
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Occupant: 2004-79-231-2-1



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	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	9
Alcohol Test (< 95 indicates BAC 0.xx)	0

Vehicle Factors

Make-Model	Chevrolet Cavalier
Year	1988
Class	PASSENGER CAR
Body Type	CONVERTIBLE
Weight	124

Crash Severity

Nr. Quarter Turns	No rollover
Impact Speed	998
Total, Longitudal, and Lateral δV	54 -35 -41
Est. δV with sequence number	DELTA V CODED 1
CDC	2 R Y A W 5
Damage (C1-C6)	3 48 61 52 29 9
Crush (L and D)	265 25
Object Contacted 1	VEHICLE NO. 1
Object Contacted 2	VEHICLE NO. 1

Pre-Crash Driver Data

Accident Type	68
Pre-event Movement	TURNING LEFT
Critical Pre-crash Event	TURN LEFT-INTERS
Attempted Avoidance Manuever	99
Pre-impact Stability	TRACKING
Pre-impact Location	STAYED IN LANE

NASS Weighting Factor

Weighting factor	8.119
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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	54	Height	175	Weight	54
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

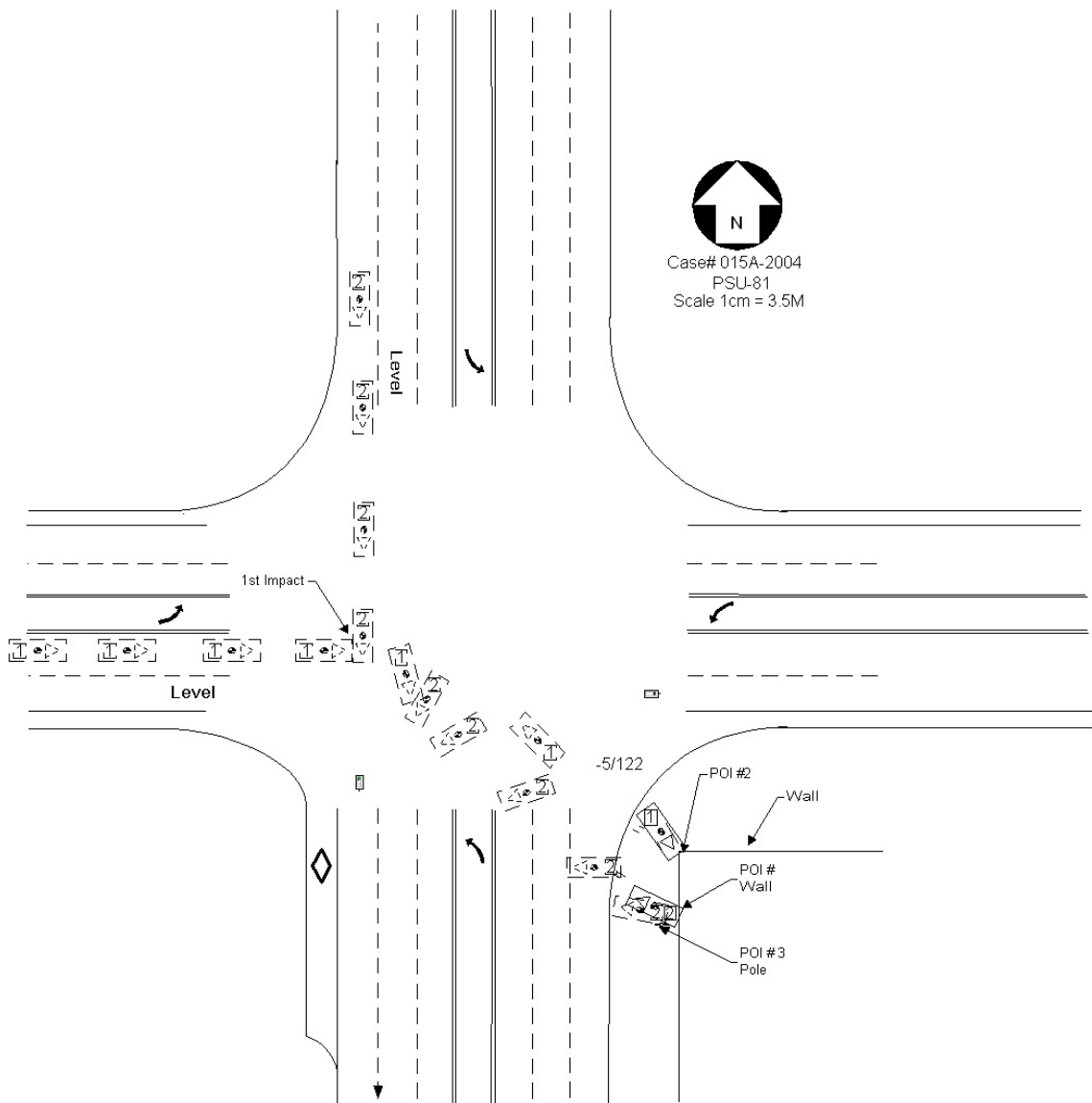
Occupant	2004-79-231-2-1
MAIS	5=Critical
Seat Position	Front left side

AIS Level	Injury Description	Contacts
5=Critical	Unconscious on admission, inappropriate movements	Right interior
2=Moderate	Skull fracture, vault, closed (simple, undisplaced)	Right interior
3=Serious	Basilar skull fracture, without CSF leak	Right interior
5=Critical	Cerebral diffuse axonal injury	Right interior
3=Serious	Cerebral subarachnoid hemorrhage	Right interior
3=Serious	Cerebral subarachnoid hemorrhage	Right interior
5=Critical	Intracerebral hematoma, small, bilateral	Right interior
3=Serious	Cerebral contusion, single, small (<30ccs)	Right interior
3=Serious	Cerebral brain swelling, mild	Right interior
1=Minor	Scalp laceration, minor	Right interior
1=Minor	Facial skin abrasion	Flying glass
1=Minor	Facial skin laceration, minor	Flying glass
1=Minor	Thoracic skin contusion	Seat, back
1=Minor	Upper extremity skin abrasion	Right interior

32 Case 2004-81-15

Summary:

Vehicle 1, a 1999 Chevrolet Tahoe, was traveling eastbound, in lane two of a two-way, five-lane, undivided, wet, bituminous roadway, approaching an intersection. Vehicle 2, a 2002 Toyota Camry, was traveling southbound in lane one of a two-way, seven-lane, undivided, wet, bituminous roadway, approaching the same intersection. As both vehicles entered the intersection, the front of V1 collided with the right side V2. Both vehicles rotated clockwise from impact, moving southeast, and crossing all traffic lanes. Both vehicles departed the roadway onto the southeast corner, where the front of V1 impacted a wall, where V1 came to rest. V2 impacted the same wall with its back plane as its left side impacted a pole, where V2 came to rest. Both vehicles were towed due to damage. The restrained driver of V1 was not injured. The restrained driver of V2 was hospitalized for observation and released with a wrist fracture. The restrained right front passenger of V2, who was fully reclined at the time of the crash, sustained thoracic aorta transection and cervical spinal cord transection, and was declared dead at the scene. V1 was equipped with redesigned dual frontal airbags, which deployed. V2 was equipped with advanced dual frontal airbags, which did not deploy. V2 was also equipped with dual front-row seatback-mounted side airbags and dual head curtains. The right seatback and head curtain deployed.)



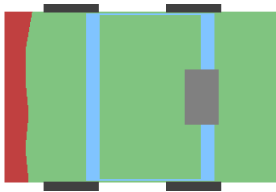
Vehicle	Body type	Make	Model	Year	Occ. Age	Occupant's sex	Maximum known occupant ais
1	LARGE UTILITY	Chevrolet	Fullsize Blazer	1999	28	MALE	0=None
2	4-DR SEDAN/HDTOP	Toyota	Camry	2002	23	FEMALE-NOT PREG	3=Serious
2	4-DR SEDAN/HDTOP	Toyota	Camry	2002	24	MALE	6=Maximum

Occupant: 2004-81-15-1-1



Fire Information

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



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	WET
Light Conditions	DARK/LIGHTED
Atmospheric Conditions	No ADVERSE COND
Relation to Intersection	INTERSECTION REL
Traffic Control Device	
Police Reported Alcohol Presence	ALCOHOL PRESENT
Alcohol Test (< 95 indicates BAC 0.xx)	97

Crash Severity

Nr. Quarter Turns	No rollover
Impact Speed	998
Total, Longitudal, and Lateral δV	24 -21 12
Est. δV with sequence number	DELTA V CODED 1
CDC	11 F D E W 2
Damage (C1-C6)	35 30 35 31 32 41
Crush (L and D)	185 0
Object Contacted 1	VEHICLE NO. 2
Object Contacted 2	WALL

NASS Weighting Factor

Weighting factor	8.911
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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 Fullsize Blazer
Year	1999
Class	TRUCK
Body Type	LARGE UTILITY
Weight	246

Pre-Crash Driver Data

Accident Type	86
Pre-event Movement	GOING STRAIGHT
Critical Pre-crash Event	CROSS OVER INTER
Attempted Avoidance Manuever	99
Pre-impact Stability	TRACKING
Pre-impact Location	STAYED IN LANE

DRIVER Factors

Age	28	Height	170	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	BAG DEPLOYED
Airbag Deployment - 1 st Seat	DR
PAS BAG DEPLY	
Airbag Deployment - Oth Seat	Not EQUIP W/ OTH

Injuries

Occupant	2004-81-15-1-1
MAIS	0=None
Seat Position	Front left side

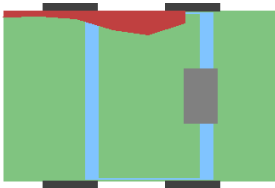
AIS Level	Injury Description	Contacts
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Occupant: 2004-81-15-2-1



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



Crash Severity

Nr. Quarter Turns	No rollover
Impact Speed	998
Total, Longitudal, and Lateral δV	39 -19 -34
Est. δV with sequence number	DELTA V CODED 1
CDC	2 R Y E W 3
Damage (C1-C6)	17 34 27 11 7 8
Crush (L and D)	275 56
Object Contacted 1	VEHICLE NO. 1
Object Contacted 2	WALL

NASS Weighting Factor

Weighting factor	8.911
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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	SEVEN OR MORE
Roadway Alignment	STRAIGHT
Roadway Profile	LEVEL
Roadway Surface Type	ASPHALT
Roadway Surface Condition	WET
Light Conditions	DARK/LIGHTED
Atmospheric Conditions	No ADVERSE COND
Relation to Intersection	INTERSECTION REL
Traffic Control Device	
Police Reported Alcohol Presence	No ALCOHOL
Alcohol Test (< 95 indicates BAC 0.xx)	96

Vehicle Factors

Make-Model	Toyota Camry
Year	2002
Class	PASSENGER CAR
Body Type	4-DR SEDAN/HDTOP
Weight	146

Pre-Crash Driver Data

Accident Type	87
Pre-event Movement	GOING STRAIGHT
Critical Pre-crash Event	XING ST-X PATH
Attempted Avoidance Maneuver	99
Pre-impact Stability	TRACKING
Pre-impact Location	STAYED IN LANE

DRIVER Factors

Age	23	Height	173	Weight	91
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	BAG DEPLOYED

Injuries

Occupant	2004-81-15-2-1
MAIS	3=Serious
Seat Position	Front left side

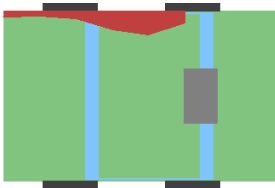
AIS Level	Injury Description	Contacts
3=Serious	Radial fracture, open/displaced/comminuted	Left apnel
1=Minor	Facial skin abrasion	Flying glass
1=Minor	Leg skin contusion (hematoma)	Transmiss lever

Occupant: 2004-81-15-2-2



Fire Information

Fire Occurence	No fire
Fire Origin	No fire
Location of Fuel Leakage	No fuel leakage
Type of Fuel Tank	Metallic
Fuel Tank Location	Forward of rear axle, 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	39 -19 -34
Est. δV with sequence number	DELTA V CODED 1
CDC	2 R Y E W 3
Damage (C1-C6)	17 34 27 11 7 8
Crush (L and D)	275 56
Object Contacted 1	VEHICLE NO. 1
Object Contacted 2	WALL

NASS Weighting Factor

Weighting factor	8.911
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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	SEVEN OR MORE
Roadway Alignment	STRAIGHT
Roadway Profile	LEVEL
Roadway Surface Type	ASPHALT
Roadway Surface Condition	WET
Light Conditions	DARK/LIGHTED
Atmospheric Conditions	No ADVERSE COND
Relation to Intersection	INTERSECTION REL
Traffic Control Device	
Police Reported Alcohol Presence	No ALCOHOL
Alcohol Test (< 95 indicates BAC 0.xx)	96

Vehicle Factors

Make-Model	Toyota Camry
Year	2002
Class	PASSENGER CAR
Body Type	4-DR SEDAN/HDTOP
Weight	146

Pre-Crash Driver Data

Accident Type	87
Pre-event Movement	GOING STRAIGHT
Critical Pre-crash Event	XING ST-X PATH
Attempted Avoidance Manuever	99
Pre-impact Stability	TRACKING
Pre-impact Location	STAYED IN LANE

PASSENGER Factors

Age	24	Height	175	Weight	133
Gender			MALE		
Ejection			No EJECTION		
Ejection Area			No EJECTION		
Entrapment			9		

Restraint Factors

Restrain	Lap and shoulder
AOPS	YES-RES DET
Airbag Deployment	NONDEPLOYED
Airbag Deployment - 1 st Seat	NONDEPLOYED
Airbag Deployment - Oth Seat	BAG DEPLOYED

Injuries

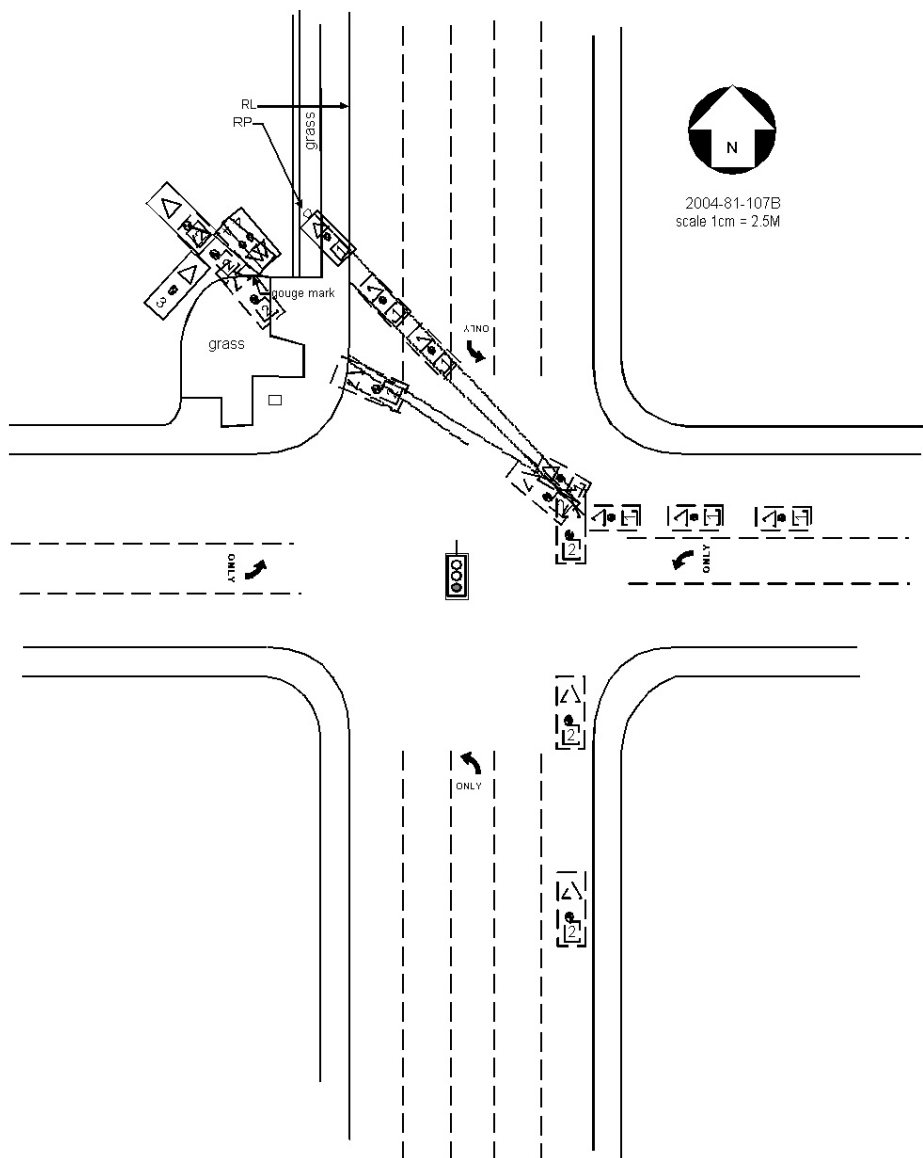
Occupant	2004-81-15-2-2
MAIS	6=Maximum
Seat Position	Front right side

AIS Level	Injury Description	Contacts
6=Maximum	Cord laceration, complete, C3 or above, with dislocation	Right interior
5=Critical	Thoracic aortic laceration, major, & mediastinal bleeding	Right B pillar
4=Severe	Lung contusion, bilateral	Right B pillar
3=Serious	Hepatic laceration, moderate (>3cms deep, EBL>203=Serious	Cerebral subarachnoid hemorrhage
Right interior 3=Serious	Cerebral subarachnoid hemorrhage	Right interior
1=Minor	Facial skin abrasion	Right interior
1=Minor	297202	Right interior
1=Minor	Facial skin abrasion	Right interior
1=Minor	Thoracic skin abrasion	Right B pillar
1=Minor	Abdominal skin abrasion	Right B pillar
1=Minor	Upper extremity skin abrasion	Right B pillar
1=Minor	Upper extremity skin abrasion	Right interior
1=Minor	Upper extremity skin abrasion	Right interior
1=Minor	Upper extremity skin abrasion	Right interior
1=Minor	Upper extremity skin abrasion	Flying glass

33 Case 2004-81-107

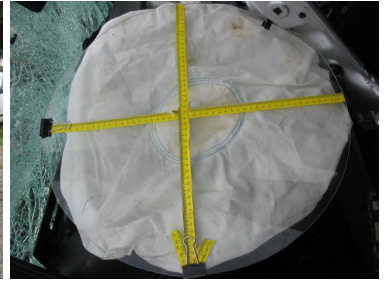
Summary:

Vehicle one (V1), a 2004 Jeep Wrangler, was traveling westbound in lane one on a three-lane, two-way, undivided, bituminous roadway, approaching an intersection. V2, a 1980 Chevrolet van, was traveling northbound in lane one on a two-way, five-lane, undivided, intersecting roadway. V3, a 1994 Ford Ranger, and V4, a 2004 Chrysler PT Cruiser, were parked in a parking lot in the NW corner of the intersection. In the intersection, the front of V1 struck the right side of V2. The vehicles rotated, the left side of V1 struck the right side of V2 and the vehicles traveled toward the NW corner of the intersection. The right front wheel/tire of V2 struck the curb. V1 traveled over the curb, the front struck the concrete base of a pole and the vehicle came to rest. V2 continued on and the front struck the right side of V4, the left side struck the front of V3 and V2 came to final rest. V1 and V2 were towed due to damage. V1 was equipped with front air bags that deployed. V1 restrained driver was hospitalized with a hand fracture. V1 restrained passenger was hospitalized with multiple rib fractures, upper leg fracture, and small spleen laceration. V2 restrained driver was hospitalized with multiple pelvic and lower back fractures as well as brain injury. V2 restrained front seat passenger was fatal at the scene with multiple rib fractures and internal injuries. V3 unrestrained passenger, located in the rear of the van, was hospitalized with multiple internal injuries and fractures.)



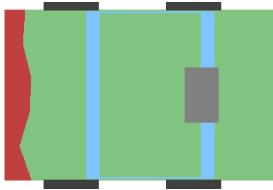
Vehicle #	Body type	Make	Model	Year	Occ. #	Age	Occupant's sex	Maximum known occupant ais
1	COMPACT UTILITY	Jeep	YJ-Wrangler	2004	1	19	MALE	2=Moderate
1	COMPACT UTILITY	Jeep	YJ-Wrangler	2004	2	25	MALE	4=Severe
2	LARGE VAN	Chevrolet	G-series Van	1980	1	49	FEMALE-NOT PREG	3=Serious
2	LARGE VAN	Chevrolet	G-series Van	1980	2	35	FEMALE-NOT PREG	5=Critical
2	LARGE VAN	Chevrolet	G-series Van	1980	3	36	FEMALE-NOT PREG	4=Severe

Occupant: 2004-81-107-1-1



Fire Information

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



Crash Severity

Nr. Quarter Turns	No rollover
Impact Speed	998
Total, Longitudal, and Lateral δV	42 -40 14
Est. δV with sequence number	DELTA V CODED 1
CDC	71 F D E W 2
Damage (C1-C6)	39 22 37 39 27 30
Crush (L and D)	160 0
Object Contacted 1	VEHICLE NO. 2
Object Contacted 2	MEDIUM POLE

NASS Weighting Factor

Weighting factor	8.911
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Rollover Characteristics

Number of Events	6
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	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	ALCOHOL PRESENT
Alcohol Test (< 95 indicates BAC 0.xx)	11

Vehicle Factors

Make-Model	Jeep YJ-Wrangler
Year	2004
Class	TRUCK
Body Type	COMPACT UTILITY
Weight	173

Pre-Crash Driver Data

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

DRIVER Factors

Age	19	Height	175	Weight	113
Gender					MALE
Ejection					No EJECTION
Ejection Area					No EJECTION
Entrapment					Not ENTRAPPED

Restraint Factors

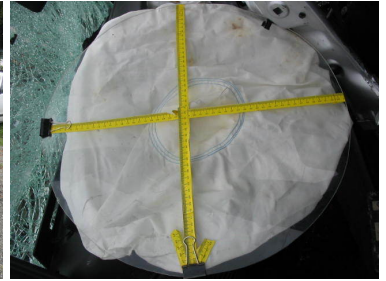
Restrain	Lap and shoulder
AOPS	YES-RES DET
Airbag Deployment	BAG DEPLOYED
Airbag Deployment - 1 st Seat	DR
PAS BAG DEPLY	
Airbag Deployment - Oth Seat	Not EQUIP W/ OTH

Injuries

Occupant	2004-81-107-1-1
MAIS	2=Moderate
Seat Position	Front left side

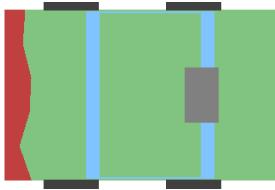
AIS Level	Injury Description	Contacts
2=Moderate	Carpus or metacarpus fracture	Left apnel
2=Moderate	Awake on admission, unconscious <1 hour	Steering comb
1=Minor	Facial skin laceration, minor	Steering comb
1=Minor	Thoracic skin abrasion	Left interior
1=Minor	Upper extremity skin laceration, minor	Left apnel
1=Minor	Leg skin abrasion	Knee bolster

Occupant: 2004-81-107-1-2



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	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	42 -40 14
Est. δV with sequence number	DELTA V CODED 1
CDC	71 F D E W 2
Damage (C1-C6)	39 22 37 39 27 30
Crush (L and D)	160 0
Object Contacted 1	VEHICLE NO. 2
Object Contacted 2	MEDIUM POLE

NASS Weighting Factor

Weighting factor	8.911
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Rollover Characteristics

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

Pre-Crash Environment

Traffic Flow	Not DIVIDED
Number of Travel Lanes	THREE
Roadway Alignment	STRAIGHT
Roadway Profile	LEVEL
Roadway Surface Type	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	Jeep YJ-Wrangler
Year	2004
Class	TRUCK
Body Type	COMPACT UTILITY
Weight	173

Pre-Crash Driver Data

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

PASSENGER Factors

Age	25	Height	188	Weight	149.5KG AND OVER
Gender				MALE	
Ejection				No EJECTION	
Ejection Area				No EJECTION	
Entrapment				Not ENTRAPPED	

Restraint Factors

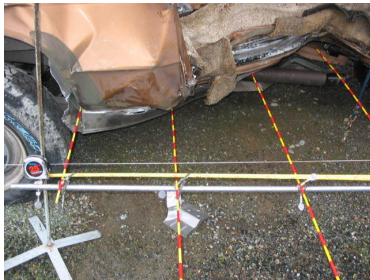
Restrain	Lap and shoulder
AOPS	YES-RES DET
Airbag Deployment	BAG DEPLOYED
Airbag Deployment - 1 st Seat	DR
PAS BAG DEPLY	
Airbag Deployment - Oth Seat	Not EQUIP W/ OTH

Injuries

Occupant	2004-81-107-1-2
MAIS	4=Severe
Seat Position	Front right side

AIS Level	Injury Description	Contacts
4=Severe	Rib fxs (=>1), open/displaced/comminuted,& hemo-/pneumo thx	Belt webb/buckle
3=Serious	Femoral shaft fracture	Center panel
2=Moderate	Splenic laceration, minor (tear<3cms deep, no major vessel)	Belt webb/buckle
1=Minor	Abdominal skin abrasion	Belt webb/buckle
1=Minor	Upper extremity skin laceration, minor	Center panel

Occupant: 2004-81-107-2-1



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	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	35 -12 -33
Est. δV with sequence number	DELTA V CODED 1
CDC	2 R P E W 5
Damage (C1-C6)	30 46 60 89 75 67
Crush (L and D)	196 55
Object Contacted 1	VEHICLE NO. 1
Object Contacted 2	Not IN TRAN LGTVEH

NASS Weighting Factor

Weighting factor	8.911
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Rollover Characteristics

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

Pre-Crash Environment

Traffic Flow	Not DIVIDED
Number of Travel Lanes	FIVE
Roadway Alignment	STRAIGHT
Roadway Profile	LEVEL
Roadway Surface Type	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)	96

Vehicle Factors

Make-Model	Chevrolet G-series Van
Year	1980
Class	TRUCK
Body Type	LARGE VAN
Weight	178

Pre-Crash Driver Data

Accident Type	87
Pre-event Movement	GOING STRAIGHT
Critical Pre-crash Event	XING ST-X PATH
Attempted Avoidance Maneuver	99
Pre-impact Stability	TRACKING
Pre-impact Location	STAYED IN LANE

DRIVER Factors

Age	49	Height	168	Weight	64
Gender			FEMALE-NOT PREG		
Ejection			No EJECTION		
Ejection Area			No EJECTION		
Entrapment			Not ENTRAPPED		

Restraint Factors

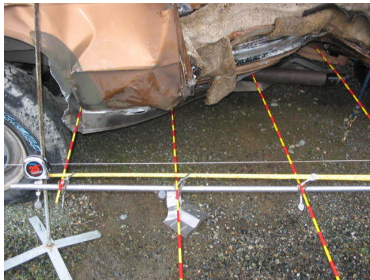
Restrain	Lap and shoulder
AOPS	NO
Airbag Deployment	Not EQUIP/AVAIL
Airbag Deployment - 1 st Seat	Not EQUIP/AVAIL
Airbag Deployment - Oth Seat	Not EQUIP W/ OTH

Injuries

Occupant	2004-81-107-2-1
MAIS	3=Serious
Seat Position	Front left side

AIS Level	Injury Description	Contacts
3=Serious	Cerebral subarachnoid hemorrhage	Other occupants
3=Serious	Cerebral subarachnoid hemorrhage	Other occupants
3=Serious	Cerebral brain swelling, mild	Other occupants
3=Serious	Cerebral brain swelling, mild	Other occupants
2=Moderate	Hepatic contusion, minor (subcapsular, <503=Serious	Pelvic fracture, open/displaced/comminut
Transmiss lever		
2=Moderate	Pelvic fracture, closed	Transmiss lever
2=Moderate	Pelvic fracture, closed	Transmiss lever
2=Moderate	Lumbar fracture of transverse process without cord injury	Transmiss lever
2=Moderate	Lumbar fracture of transverse process without cord injury	Transmiss lever
1=Minor	Scalp contusion	Left B pillar
1=Minor	Leg skin contusion (hematoma)	Transmiss lever
1=Minor	Leg skin abrasion	Left apnel
1=Minor	Leg skin abrasion	Floor
2=Moderate	894004	Transmiss lever

Occupant: 2004-81-107-2-2



Fire Information

Fire Occurence	No fire
Fire Origin	No fire
Location of Fuel Leakage	No fuel leakage
Type of Fuel Tank	Metallic
Fuel Tank Location	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	35 -12 -33
Est. δV with sequence number	DELTA V CODED 1
CDC	2 R P E W 5
Damage (C1-C6)	30 46 60 89 75 67
Crush (L and D)	196 55
Object Contacted 1	VEHICLE NO. 1
Object Contacted 2	Not IN TRAN LGTVEH

NASS Weighting Factor

Weighting factor	8.911
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Rollover Characteristics

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

Pre-Crash Environment

Traffic Flow	Not DIVIDED
Number of Travel Lanes	FIVE
Roadway Alignment	STRAIGHT
Roadway Profile	LEVEL
Roadway Surface Type	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)	96

Vehicle Factors

Make-Model	Chevrolet G-series Van
Year	1980
Class	TRUCK
Body Type	LARGE VAN
Weight	178

Pre-Crash Driver Data

Accident Type	87
Pre-event Movement	GOING STRAIGHT
Critical Pre-crash Event	XING ST-X PATH
Attempted Avoidance Maneuver	99
Pre-impact Stability	TRACKING
Pre-impact Location	STAYED IN LANE

PASSENGER Factors

Age	35	Height	155	Weight	77
Gender					FEMALE-NOT PREG
Ejection					No EJECTION
Ejection Area					No EJECTION
Entrapment					Not ENTRAPPED

Restraint Factors

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

Injuries

Occupant	2004-81-107-2-2
MAIS	5=Critical
Seat Position	Front right side

AIS Level	Injury Description	Contacts
5=Critical	Trachea and main stem bronchus laceration, complex injury	Right interior
3=Serious	Rib fractures (=>1 rib), open/displaced/comminuted	Right interior
3=Serious	Lung laceration, unilateral NFS	Right interior
3=Serious	Lung contusion, unilateral	Right interior
2=Moderate	Pleural laceration	Right interior
3=Serious	Hepatic laceration, moderate (>3cms deep, EBL>202=Moderate)	Ankle joint dislocation NFS
Floor		
1=Minor	Scalp laceration, minor	Flying glass
1=Minor	Facial skin laceration, minor	Flying glass
1=Minor	Neck skin abrasion	Belt webb/buckle
1=Minor	Abdominal skin contusion	Belt webb/buckle
1=Minor	Leg skin abrasion	Belt webb/buckle
1=Minor	Upper extremity skin abrasion	Flying glass
1=Minor	Leg skin contusion (hematoma)	Right interior
1=Minor	Leg skin contusion (hematoma)	Right panel
1=Minor	Leg skin abrasion	Right panel
1=Minor	Leg skin contusion (hematoma)	Floor

Occupant: 2004-81-107-2-3



Fire Information

Fire Occurence	No fire
Fire Origin	No fire
Location of Fuel Leakage	No fuel leakage
Type of Fuel Tank	Metallic
Fuel Tank Location	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	35 -12 -33
Est. δV with sequence number	DELTA V CODED 1
CDC	2 R P E W 5
Damage (C1-C6)	30 46 60 89 75 67
Crush (L and D)	196 55
Object Contacted 1	VEHICLE NO. 1
Object Contacted 2	Not IN TRAN LGTVEH

NASS Weighting Factor

Weighting factor	8.911
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Rollover Characteristics

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

Pre-Crash Environment

Traffic Flow	Not DIVIDED
Number of Travel Lanes	FIVE
Roadway Alignment	STRAIGHT
Roadway Profile	LEVEL
Roadway Surface Type	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)	96

Vehicle Factors

Make-Model	Chevrolet G-series Van
Year	1980
Class	TRUCK
Body Type	LARGE VAN
Weight	178

Pre-Crash Driver Data

Accident Type	87
Pre-event Movement	GOING STRAIGHT
Critical Pre-crash Event	XING ST-X PATH
Attempted Avoidance Maneuver	99
Pre-impact Stability	TRACKING
Pre-impact Location	STAYED IN LANE

PASSENGER Factors

Age	36	Height	165	Weight	999
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

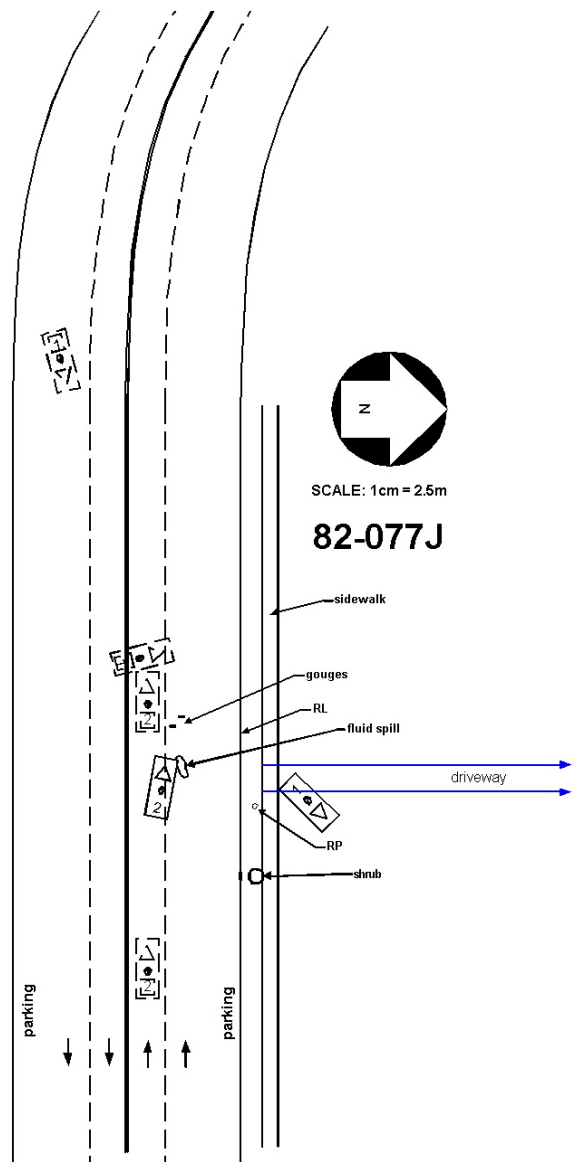
Occupant	2004-81-107-2-3
MAIS	4=Severe
Seat Position	Other seat

AIS Level	Injury Description	Contacts
4=Severe	440606	Int loose obj
4=Severe	Rib fxs (=>1), open/displaced/comminuted,& hemo-/pneumo thx	Int loose obj
4=Severe	Cerebral epidural or extradural hematoma, small	Int loose obj
4=Severe	Cerebral subdural hematoma, small (<50ccs)	Int loose obj
2=Moderate	Lethargic on admission, unconscious <1 hour	Int loose obj
3=Serious	Radial fracture, open/displaced/comminuted	Int loose obj
3=Serious	Ulnar fracture, open/displaced/comminuted	Int loose obj
2=Moderate	Tibial fracture medial malleolus, open/displaced/comminuted	Int loose obj
3=Serious	Tibial fracture of the posterior malleolus, open/displaced/c	Int loose obj
3=Serious	Femoral shaft fracture	Int loose obj
2=Moderate	Scapular fracture	Int loose obj
2=Moderate	Scapular fracture	Int loose obj
1=Minor	Upper extremity skin laceration, minor	Int loose obj
1=Minor	Leg skin laceration, minor	Int loose obj

34 Case 2004-82-77

Summary:

Vehicle 1 (V1) was traveling eastbound in lane one of a four-lane, two-way, wet roadway negotiating a curve to the left. V2 was traveling westbound in lane two of the same four-lane, two-way roadway. V1 lost control while braking to negotiate the curve. V1 crossed over the center lane line into westbound traffic. V2 front plane impacted V1 right plane. V1 came to final rest northwest of impact on the sidewalk. V2 came to final rest a short distance west of impact. V1 and V2 were towed due to damage. The driver of V1 was restrained with a manual lap and shoulder belt. V1 was equipped with front driver and passenger air bags that did not deploy. V1 was also equipped with side curtain air bags and side thorax air bags; the right side curtain and seat back air bags deployed. The driver of V2 was restrained with a manual lap and shoulder belt. The driver of V1 was hospitalized with brain hemorrhage. The driver of V2 was treated and released with minor contusion.)



Vehicle	Body type	Make	Model	Year	Occ.#	Age	Occupant's sex	Maximum known occupant ais
1	4-DR SEDAN/HDTOP	VW	Jetta	2003	1	23	FEMALE-NOT PREG	5=Critical
2	STATION WAGON	Toyota	Corolla	1988	1	43	MALE	1=Minor

Occupant: 2004-82-77-1-1



Fire Information

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



Crash Severity

Nr. Quarter Turns	No rollover
Impact Speed	998
Total, Longitudal, and Lateral δV	43 8 -42
Est. δV with sequence number	DELTA V CODED 1
CDC	3 R D E W 4
Damage (C1-C6)	28 56 57 54 48 27
Crush (L and D)	159 13
Object Contacted 1	VEHICLE NO. 2
Object Contacted 2	0

NASS Weighting Factor

Weighting factor	3.877
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Rollover Characteristics

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

Pre-Crash Environment

Traffic Flow	Not DIVIDED
Number of Travel Lanes	FOUR
Roadway Alignment	CURVE LEFT
Roadway Profile	DOWNHILL GRADE
Roadway Surface Type	CONCRETE
Roadway Surface Condition	WET
Light Conditions	DAYLIGHT
Atmospheric Conditions	RAIN
Relation to Intersection	NONINTER/NONJUNC
Traffic Control Device	
Police Reported Alcohol Presence	9
Alcohol Test (< 95 indicates BAC 0.xx)	0

Vehicle Factors

Make-Model	VW Jetta
Year	2003
Class	PASSENGER CAR
Body Type	4-DR SEDAN/HDTOP
Weight	134

Pre-Crash Driver Data

Accident Type	64
Pre-event Movement	NEGOTIATE CURVE
Critical Pre-crash Event	TRAVEL TOO FAST
Attempted Avoidance Maneuver	99
Pre-impact Stability	LAT SKID-CTR CLK
Pre-impact Location	Left TRAVEL LANE

DRIVER Factors

Age	23	Height	175	Weight	82
Gender	FEMALE-NOT PREG				
Ejection	No EJECTION				
Ejection Area	No EJECTION				
Entrapment	Not ENTRAPPED				

Restraint Factors

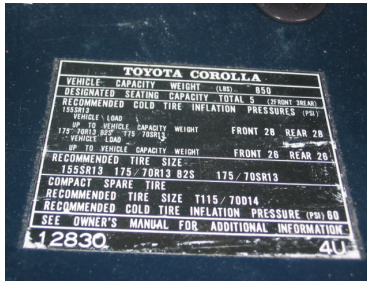
Restrain	Lap and shoulder
AOPS	YES-RES DET
Airbag Deployment	NONDEPLOYED
Airbag Deployment - 1 st Seat	NONDEPLOYED
Airbag Deployment - Oth Seat	BAG DEPLOYED

Injuries

Occupant	2004-82-77-1-1
MAIS	5=Critical
Seat Position	Front left side

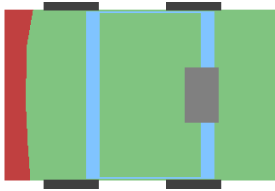
AIS Level	Injury Description	Contacts
5=Critical	Cerebral diffuse axonal injury	Right interior
3=Serious	Cerebral contusions, multiple, unilateral, small (<30ccs)	Right interior
3=Serious	Unconscious on admission, length <1 hour	Right interior
1=Minor	Leg skin contusion (hematoma)	Transmiss lever
1=Minor	Upper extremity skin contusion	Seat, back
1=Minor	Neck skin contusion (hematoma)	Right interior

Occupant: 2004-82-77-2-1



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	UPHILL GRADE
Roadway Surface Type	CONCRETE
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)	96

Vehicle Factors

Make-Model	Toyota Corolla
Year	1988
Class	PASSENGER CAR
Body Type	STATION WAGON
Weight	104

Crash Severity

Nr. Quarter Turns	No rollover
Impact Speed	998
Total, Longitudal, and Lateral δV	55 -54 10
Est. δV with sequence number	DELTA V CODED 1
CDC	12 F D E W 2
Damage (C1-C6)	38 34 32 32 33 42
Crush (L and D)	146 0
Object Contacted 1	VEHICLE NO. 1
Object Contacted 2	0

Pre-Crash Driver Data

Accident Type	65
Pre-event Movement	GOING STRAIGHT
Critical Pre-crash Event	OPP DIR-OVR LEFT
Attempted Avoidance Manuever	BRAKE W/ LOCKUP
Pre-impact Stability	LONGITUDINAL SKID
Pre-impact Location	STAYED IN LANE

NASS Weighting Factor

Weighting factor	3.877
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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	185	Weight	88
Gender			MALE		
Ejection			No EJECTION		
Ejection Area			No EJECTION		
Entrapment			Not ENTRAPPED		

Restraint Factors

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

Injuries

Occupant	2004-82-77-2-1
MAIS	1=Minor
Seat Position	Front left side

AIS Level	Injury Description	Contacts
1=Minor	Thoracic skin contusion	Belt webb/buckle
1=Minor	Leg skin abrasion	Left apnel
1=Minor	Leg skin contusion (hematoma)	Left apnel
1=Minor	Upper extremity skin contusion	Belt webb/buckle
1=Minor	Facial skin contusion	Steering rim