CRASH DATA RESEARCH CENTER

Calspan Corporation Buffalo, NY 14225

NOT-IN-TRAFFIC SURVEILLANCE CALSPAN ON-SITE FRONT OVER INCIDENT INVESTIGATION SCI CASE NO.: CA09052 VEHICLE: 2003 FORD EXPEDITION LOCATION: MASSACHUSETTS DATE OF INCIDENT: JULY 2009

Contract No. DTNH22-07-C-00043

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The crash investigation process is an inexact science which requires that physical evidence such as skid marks, vehicular damage measurements, and occupant contact points are coupled with the investigator's expert knowledge and experience of vehicle dynamics and occupant kinematics in order to determine the pre-crash, crash, and post-crash movements of involved vehicles and occupants.

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

TECHNICAL REPORT STANDARD TITLE PAGE

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This on-site investigation focused on the circumstances of a non-fatal front over incident and the front visibility study of the involved 2003 Ford Expedition.

16. Abstract

This on-site investigation focused on the circumstances of a non-fatal front over incident and the front visibility study of the involved 2003 Ford Expedition. This incident occurred at the garage door opening of a private residence as the driver was moving the Ford forward out of the garage. The non-motorist was a 22-month-old female and the daughter of the driver. The driver exited the home through an interior door and entered the garage where she proceeded to move the vehicle forward a short distance in order to open the rear tail gate. During this maneuver, the 22-month-old female non-motorist exited the residence through the interior door, entered the garage and approached the front right corner area of the Ford. The non-motorist was subsequently struck by the front bumper, knocked to the ground and was contacted by the front right tire. The non-motorist was transferred to a helicopter for transport to a trauma center. Numerous tests were conducted on the non-motorist which revealed no internal injuries. The child did sustain petechiae of the torso and head, an abdominal contusion and a left leg contusion. She was released five days post-incident.

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NOT-IN-TRAFFIC SURVEILLANCE CALSPAN ON-SITE FRONT OVER INCIDENT INVESTIGATION SCI CASE NO.: CA09052 **VEHICLE: 2003 FORD EXPEDITION** LOCATION: MASSACHUSETTS **DATE OF INCIDENT: JULY 2009**

BACKGROUND

This on-site investigation focused on the circumstances of a non-fatal front over incident and the front visibility study of the involved 2003 Ford Expedition (Figure 1). This incident occurred at the garage door opening of a private residence as the driver was moving the Ford forward out of the garage. The nonmotorist was a 22-month-old female and the daughter of the driver. The driver exited the home through an interior door and entered the garage where she proceeded to move the vehicle forward a short distance in order to open the rear



tail gate. During this maneuver, the 22-month-old female non-motorist exited the residence through the interior door, entered the garage and approached the front right corner area of the Ford. The non-motorist was subsequently struck by the front bumper, knocked to the ground and was contacted by the front right tire. The non-motorist was transported by ground ambulance to a landing zone where she was transferred to a helicopter for transport to a trauma center. Numerous tests were conducted on the nonmotorist which revealed no internal injuries. The child did sustain petechiae of the torso and head, an abdominal contusion and a left leg contusion. She was released five days post-incident.

This incident was identified by the Crash Investigation Division (CID) of the National Highway Traffic Safety Administration (NHTSA) on July 23, 2009. Details of the incident were forwarded to the Calspan Special Crash Investigations (SCI) team on the same day. The SCI team established cooperation with the driver of the vehicle on July 28, 2009 to facilitate the inspection of the Ford, the incident site, and to conduct an interview. The inspection of the vehicle, incident site, and driver interview were conducted on August 5, 2009.

SUMMARY

Incident Site

The front over incident occurred during the daytime hours of July 2009. At the time of the incident, the weather was not a factor. The incident occurred in the left bay of a two-vehicle garage at the home of the driver. The driver's residence was a two-story, single-family dwelling located in a suburban neighborhood (**Figure 2**). The garage measured 6.2 meters (20.3 feet) in total width and consisted of two bays. The depth of the left bay measured 7.5 meters (24.6 feet). The entry door to the house was located



Figure 2: View of the driver's residence.

in the rear aspect of the left bay. The right bay measured 6.5 meters (21.3 feet) in depth and was used for vehicle parking. The left bay (closest to the house) was being used for storage at the time of the incident. The stored items included, but were not limited to, bicycles, cooking range, toys, and a shop vacuum. At the time of the incident, these items extended to the centerline of the garage. Additionally, the right garage door was closed at the time of the incident. The driver stated that the items were moved closer to the left wall post-incident. The 2003 Ford Expedition was backed into the left bay at the time of the incident. The Incident Schematic is included as **Figure 10** of this report.

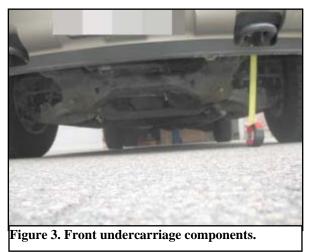
Vehicle Data

The 2003 Ford Expedition was identified by the Vehicle Identification Number (VIN): 1FMFU18L63L (production sequence deleted). This four-door, four-wheel drive sport utility vehicle was equipped with a 5.4-liter V-8 engine linked to a four-speed automatic transmission and the Eddie Bauer trim package. The Ford Expedition was equipped with P265/70R17 tires, the tire size recommended by the vehicle manufacturer. The Ford was equipped with a rear bumper mounted ultrasonic parking aid system.

The window glazing was AS1 for the laminated windshield, AS2 for the front doors, and AS3 OEM deep tint for the rear doors, rear quarter windows, backlight, and the sun roof. The driver stated that all windows were closed at the time of the incident. The clarity of the glass was clear and there were no obstructions to the front, side, or rear glazing.

The interior of the Ford was configured with bucket seats for the first row, and bench seats for second row and third rows. The front seats were equipped with integrated head restraints. The second row was equipped with height adjustable head restraints for the outboard seats that had been removed by the driver prior to the incident. The second row center seat was equipped with an integrated head restraint. The third row was folded forward in the stowed position at the time of the incident.

Figure 3 is an overall view of the front undercarriage components. The vertical clearance heights of the front components of the Ford were measured from the paved surface of the driveway in front of the residence and are listed in the following table:



Component	Clearance Height
Beltline	124 cm (48.8 in)
Top of hood	112 cm (44 in)
Top of bumper	77 cm (30.5 in)
Base of bumper	41 cm (16 in)
Valance	31 cm (12.3 in)
Tow hooks	37 cm (14.5 in)
Cross member	31 cm (12 in)
Cross members mounts	23 cm (9 in)
Frame rails	41 cm (16.3 in)
Lower control arms	24 cm (9.3 in)

Driver Data

The driver of the Ford was a 33-year-old female with a stated height of 135 cm (53 in) and weight of 54 kg (118 lb). The driver had no hearing or vision deficiencies. The driver was familiar with backing into and out of the garage, and the driveway from her residence. Although the driver was familiar with backing out of the garage, she stated that this was the first time she could recall that she had backed the vehicle into the garage and parked.

Non-Motorist Data

The non-motorist was a 22-month-old female. The non-motorist had a measured height of 84 cm (33 in) and a driver stated weight of 12 kg (26 lbs). At the time of the incident, she was wearing a brown floral patterned dress, blue T-shirt, diaper, and no shoes. The child has no known sight or hearing impairments.

Incident Sequence

Pre-Incident

Prior to the incident, the driver and her three toddlers were in the residence. The driver had been gathering items for a family trip that they were scheduled to depart for the following day. The driver recalled that the vehicle was backed into the garage and she could not access the cargo area. She stated to the SCI investigator that she told the children to stay in the home so she could go into the garage and pull the Ford forward. Her intention was to move the vehicle forward a few feet so she could open the tailgate and begin loading some of the items into the Ford. Upon asking the toddlers to remain in the family room located behind the garage, she exited through the interior door into the garage and approached the Ford from the vehicle's rear right. She walked behind the vehicle to its left side, entered the Ford, and started the vehicle. The driver stated the she did not close the front left door and was holding it with her left hand. She depressed the brake pedal, placed the transmission selector in drive and released the brake. The vehicle began to idle forward. The driver noted that her attention was on the front left door and front of the vehicle as she did not want to contact the wall during this maneuver.

Incident

While the driver was moving the vehicle, the 22-month-old female exited the residence through the same door and approached the Ford from the vehicle's rear right. The non-motorist walked along the right side of the vehicle between the storage items and the vehicle (**Figure 4**). As the non-motorist reached the front right corner, she turned to the left and was struck by the front right corner of the vehicle and was knocked to the ground. The non-motorist was on her back with her head extending through the garage door opening (**Figure 5**). The vehicle continued forward and ran over her left leg and onto her abdomen. The Ford traveled approximately 0.6-0.9 meters (2-3 feet) where the driver stopped the vehicle with the front left door immediately inboard of the exterior wall. The driver stated that she did not see the non-motorist and was unaware of the incident. **Figures 4 and 5** depict the travel directions of the vehicle and the non-motorist.



Figure 4. Non-motorist approach to the right side of the Ford.



Figure 5. Area of contact between the front right tire and the non-motorist.

Post-Incident

The driver placed the transmission selector in "Park" and turned off the Ford. She exited the vehicle and walked along the left side and rear of the Ford. Upon reaching the rear right corner, the driver looked toward the front right of the Ford and observed the nonmotorist under the front right tire. She immediately ran back into the vehicle, started it, depressed the brake pedal and placed the transmission selector in reverse. The driver stated that she tried to remain calm as she released the brake pedal, began a backing maneuver and focused on the "R" on the transmission gear selector. She backed the vehicle a short distance, exited through the front left door and ran to the non-motorist. The driver stated that she picked-up the non-motorist, noted that she was blue in color and not breathing. She yelled out the non-motorist's name, at which point the nonmotorist started breathing. She placed the child on the front lawn, ran into the house and called the 9-1-1 emergency response number. She remained on the line for approximately five minutes until the first responders arrived. The non-motorist was transported by ground ambulance to a landing zone where she was transferred to a helicopter. The non-motorist was flown to a trauma center where she was admitted for observation. After numerous tests were conducted on the non-motorist, it was determined that the child did not sustain any internal injuries. The non-motorist was diagnosed with petechiae of the torso and head, and contusions to her left leg and abdomen. She was released five days post-incident.

Vehicle Contact Damage/Evidence

The Ford was inspected by the SCI investigator at the residence where the incident occurred 20 days post-incident. The vehicle had been used on several occasions since the incident. The SCI investigator inspected the front bumper and undercarriage of the vehicle for contact evidence. No contact evidence was present on the bumper or undercarriage components.

Front Visibility

The driver of the Ford parked the vehicle on the driveway at the mouth of the garage and its front visibility was documented during the SCI inspection. The driveway was level in the area of the measurements. Five 71 cm (28 in) tall red reflective targets were used to identify the location of the blind zone around the front of the vehicle. The targets were located outboard the left mirror, at the front left, forward of the centerline, at the front right, and outboard the right mirror. The locations of the targets were adjusted outboard of the vehicle along the driver's sight line, to



Figure 6. Driver's view out of the front right window.

a point where the driver indicated that she could first identify the target. The driver was asked to remain seated in a normal driving position during the visibility study. Her

seated eye height was 156 cm (61.5 in) above the ground. **Figure 6** is a driver view through the front right window to the right target. **Figures 7 and 8** are exterior views depicting the blind zone along the right side of the Ford. The target locations were then measured with respect to the vehicle. The lateral distance from the right plane to the target measured 2.3 m (7.5 ft). **Figure 9**, attached to the end of this report, is a scaled overhead visibility schematic depicting the blind zone forward of the vehicle.

It should be noted that although the non-motorist was walking within the blind zone on the right side of the vehicle, it would have been possible to observe the non-motorist during her initial approach to the vehicle by the use of the right mirror. The driver did not observe the non-motorist, as her attention was focused to the front left door and front of the vehicle throughout the entire maneuver of driving the vehicle forward.



Figure 7. Right side blind zone.

Figure 8. Front oblique view of the blind zone.

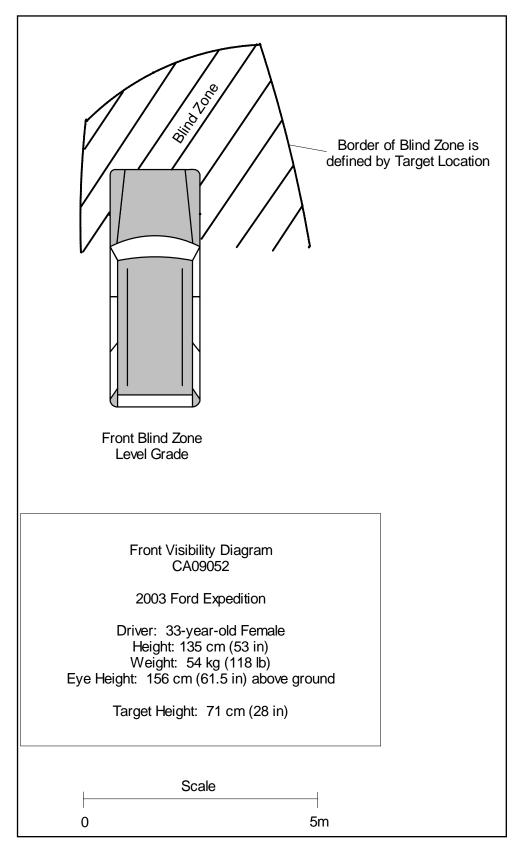


Figure 9. Rear Visibility Diagram

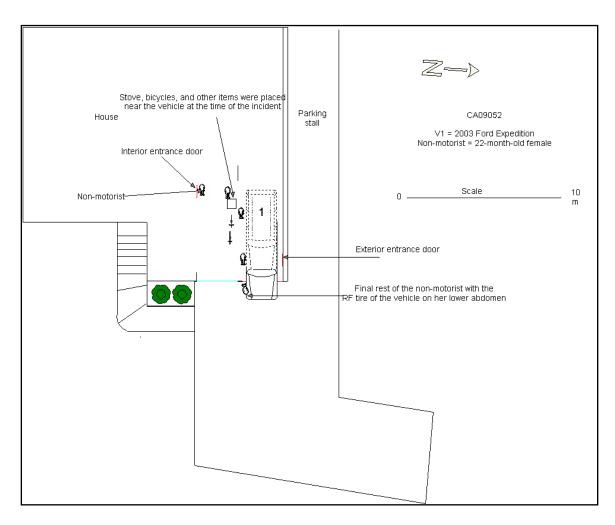


Figure 10. Incident Schematic

U.S. Department of Transportation SCENE National Highway Traffic Safety Administration	FORM Special Crash Investigations Not In Traffic Surveillance
	SCENE INFORMATION
1. Case Number IDENTIFICATION 2. Date of Crash /	 7. Type of area in which crash occurred (Select all that apply) O Single family residential O Row houses/townhouses O Multi family housing O Commercial O Industrial O Rural O Unknown
3. Time of Crash	 Driver exterior sightline obstructions (Select all that apply)
Code reported military time of crash.	
NOTE: Midnight = 2400 Unknown = 9999	ONoneOUtility polesOOther vehiclesOSignsOBuildingOGlareOTreesOUnknown
AMBIENT CONDITIONS	O Shrubbery O No driver present O Other (specify)
4. Light Conditions	9. Crash location
O Daylight O Dark O Dark but lighted O Dawn O Dusk O Unknown	 O Driveway O Road / street O Parking Lot O Roadside / shoulder O Sidewalk O Other (specify) O Alley O Unknown O Intersection of driveway and sidewalk
5. Atmospheric Conditions (Select all that apply)	10. Non motorist sightline obstructions (Select all that apply)
 Clear-No adverse conditions Cloudy Rain Snow Fog, Smog, Smoke Sleet, Hail (freezing rain or drizzle) Blowing Snow Severe Crosswinds Blowing Sand, Soil, Dirt Other (specify): Unknown 	 O None O Other vehicles O Building O Trees O Shrubbery O Utility poles O Signs O Glare O Other (specify)
6. Temperature	
 O Below 0 degrees Celsius (Below 32 F) O 1-10 degrees Celsius (33-50 F) O >10-24 degrees Celsius (51-75 F) O Over 24 degrees Celsius (Over 75 F) O Unknown 	 12. Estimated distance from parked position to impact m 13. Estimated speed at impact m 14. Grade at impact % 15. Estimated distance from impact to vehicle final rest m
	Unknown = 999 Reference Items 11,12, 13, 14, 15

1. Case Number _____ ____ ____

VEHICLE IDENTIFICATION

- 3. Model Year ____ ___ ___
- 4. Vehicle Make (specify):
- 5. Vehicle Model (specify): _____

GLAZING					
Location	Presence (check)	Status (select)	Clarity (select)	Tint (check)	Glazing Obstructions (specify if present)
Windshield		Fixed / Closed / Open / Partially Open / Unknown	Clear / Hazy / Very Dirty / Unknown		
LF		Fixed / Closed / Open / Partially Open	Clear / Hazy / Very Dirty		
RF		Fixed / Closed / Open / Partially Open	Clear / Hazy / Very Dirty		
2 nd Left		Fixed / Closed / Open / Partially Open	Clear / Hazy / Very Dirty		
2 nd Right		Fixed / Closed / Open / Partially Open	Clear / Hazy / Very Dirty		
3 rd Left		Fixed / Closed / Open / Partially Open	Clear / Hazy / Very Dirty		
3 rd Right		Fixed / Closed / Open / Partially Open	Clear / Hazy / Very Dirty		
Backlight		Fixed / Closed / Open / Partially Open	Clear / Hazy / Very Dirty		
Left Backlight		Fixed / Closed / Open / Partially Open	Clear / Hazy / Very Dirty		
Right Backlight		Fixed / Closed / Open / Partially Open	Clear / Hazy / Very Dirty		
Roof		Fixed / Closed / Open / Partially Open	Clear / Hazy / Very Dirty		
Other (specify)		Fixed / Closed / Open / Partially Open	Clear / Hazy / Very Dirty		
		TIRE D	ΑΤΑ		
6. Vehicle	Manufactu	irer Recommended Tire Size _			
7. LF Tire	Size		RF Tire Size		
8. LR Tire	Size		RR Tire Size		

Special Crash Investigations – Not In Traffic Surveillance: Vehicle Form

	Seats / Head Restraint Data				
Seat Position	Seat Type (Select from below)	Head Restraint (Check if available)	Head Restraint Adjustment (select)	NOTES:	
Front Left			Full Down / Mid / Full Up		
Front Middle			Full Down / Mid / Full Up		
Front Right			Full Down / Mid / Full Up		
2 nd Left			Full Down / Mid / Full Up		
2 nd Middle			Full Down / Mid / Full Up		
2 nd Right			Full Down / Mid / Full Up		
3 rd Left			Full Down / Mid / Full Up		
3 rd Middle			Full Down / Mid / Full Up		
3 rd Right			Full Down / Mid / Full Up		

Seat Type codes:

- 0 = No seat or seat folded down
- 1 = Bucket
- 2 = Bucket w/ folding back
- 3 = Bench
- 4 = Bench with folding back cushions
- 5 = Bench w/ folding back
- 6 = Split bench w/ separate back cushions
- 7 = Split bench w/ separate folding back

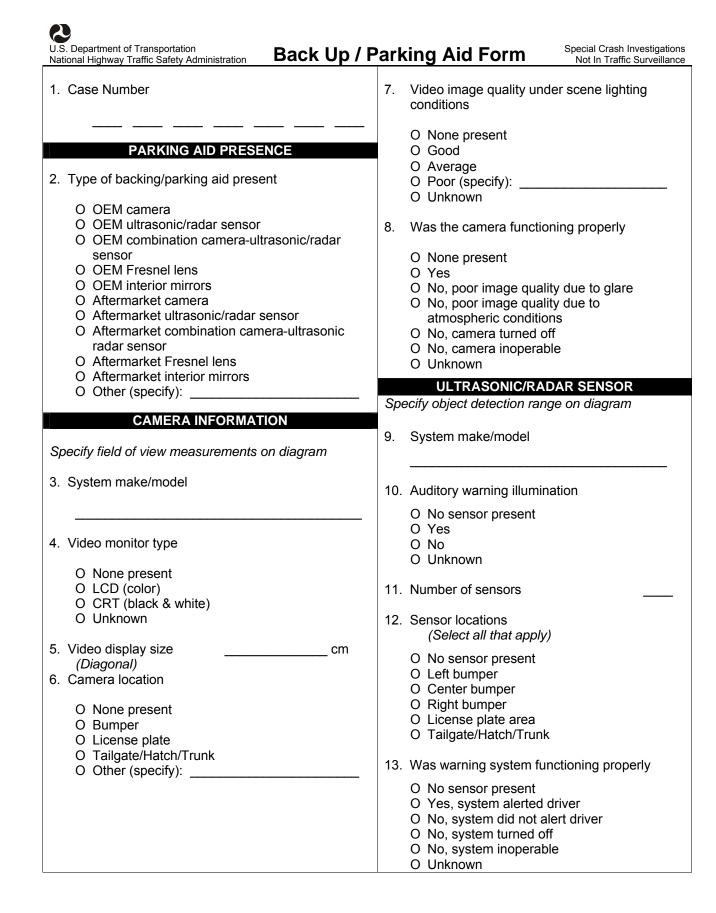
VEHICLE MEASUREMENTS

Clearance Heights	Measurements (all from ground, and in centimeters	
Beltline		
Top of trunk/tailgate		
Bottom of bumper		
Trailer hitch (if applicable)		
Undercarriage		
Sway bar		
Axle		
Differential		
Other (specify):		
Sensor Height (if equipped)		
Camera Height (if equipped)		

8 = Pedestal (i.e. column supported)

- 9 = Box mounted (i.e. van type)
- 10= Other seat type (specify)
- 99= Unknown seat type

Page 2



Special Crash Investigations – Not In Traffic Surveill	Iance: Back Up / Parking Aid Form Page 2
14. Did driver react to warning	
O No sensor present O Yes O No O Unknown	
15. Did driver report common false warnings	
O No sensor present O Yes O No O Unknown	

U.S. Department of Transportation National Highway Traffic Safety Administration	FORM Special Crash Investigations Not In Traffic Surveillance
1. Case Number	10. Driver entry interruption (Select all that apply)
DRIVER PROFILE 2. Driver's Age	 O Direct trip from building to vehicle O Loaded items into vehicle O Spoke with family O Spoke with neighbors O Spoke with contacted nonmotorist O Return trip (backing into driveway/lot) O Other (specify):
 5. Driver's Weight kg 999 = Unknown 6. Driver eyewear worn (Select all that apply) O None O Eyeglasses O Sunglasses O Contacts O Unknown 	 O Leaving parking space in parking lot O Backing onto roadway from driveway O Entering parking space in parking lot O Backing into driveway from roadway O Other (specify):
 7. Driver vision deficiency condition (Select all that apply) O None O Near sighted O Far sighted O Astigmatism O Other (specify) O Unknown 	13. Driver in a hurry O Yes N/A O No Unknown O Unknown
 8. Non motorist's relationship to driver O No relationship O Child O Grandchild O Sibling O Neighbor O Friend O Other (specify): O Unknown DRIVER ACTIONS	 14. How did driver check behind (rear area of vehicle) after vehicle entry (Select all that apply) O Did not look O Checked mirrors O Turned right and looked back O Turned left and looked back Viewed Camera Listened for auditory/visual warning from system
 9. Driver approach to vehicle for entry From left front O From left O From left rear O From right rear O From right front O Circled vehicle O Return trip (backing into driveway/lot) O Other (specify): O N/A O Unknown 	O Other (specify): N/A Unknown 15. Estimated time between vehicle entry and start of backing O 0-10 Seconds O Over 60 Seconds O 11-30 Seconds O N/A O 31-60 Seconds Unknown

Special Crash Investigations – Not In Traffic Surveillance: Driver Form

16. What direction was the driver looking during backing maneuver	19. Did driver see struck non motorist prior to impact (Select all that apply)
(Select all that apply) O Straight ahead O Right O Left O Rearward	O No, never saw non motorist O Saw non motorist prior to entering vehicle O Saw non motorist after entering vehicle O Other (specify):
O At object inside the car O At mirrors	20. Est time between start of backing and impact
 O Other (specify): O N/A Unknown 17. Was the driver distracted during back up maneuver (Select all that apply) 	O <2 or = 1 second O 2-5 seconds O 6-10 seconds O > 10 seconds O N/A Unknown
O No non-driving activities <i>External</i>	21. Driver interior sightline obstructions (Select all that apply)
 O Looking at other vehicles O Looking at other non motorist O Looking at intended turn destination O External focus, not specified O Other external focus (specify): 	O Pillar O Other occupant O Headrest O Other (specify) O Cargo O Unknown None
Internal O Looking at other occupant O Talking to passenger O Dialing phone O Talking on phone O Listening to radio/cd/portable playback device O Adjusting radio/cd player O Adjusting climate controls O Using a device/controls integral to vehicle	 22. Recent experience driving this vehicle O More than 10 times the last three months O 6-10 times the last three months O 2-5 times the last three months O Less than 2 times the last three months O First time driving this vehicle O N/A Unknown 23. Frequency of driving in this parking lot/driveway
 (specify):	O Daily O Weekly O Several times a month O Monthly O Rarely O First time in lot/driveway O N/A Unknown
O N/A Unknown	24. Driver Impairment (Select all that apply)
18. Driver avoidance actions prior to impact (Select all that apply)O None	O No drugs or alcohol present O Alcohol present (specify BAC): O Drugs present (specify):
O Braking O Steering left	O Unknown 25. Source of alcohol/drug results
O Steering right O Accelerating O Other (specify): O N/A Unknown	O Police reported O Medical record O Other (specify) O Not Tested Unknown if tested

U.S. Department of Transportation	Non M		Special Crash Investigati
National Highway Traffic Safety Administra	tion Fo	rm	Not In Traffic Surveilla
1. Case Number		11. Non-motorist motion	
		O Not moving	
NON-MOTORIS	T PROFILE	O Walking slowly	
	Mont	O Walking rapidly O Running or jogging	
2. Non-motorist's Age	Year		na
99 = Unknown		O Falling/Stumbling/Rising	
		O On skates/skateboard	
Non-motorist's Sex	O Male	O On bike/scooter	
	O Female	O Other (specify):	
	O Unknown	O Unknown	
 Non-motorist's Height 999 = Unknown 	cm	12. Non-motorist approach relat	ive to rear of vehicle
		O Stationary	
	kg	O From left	
999 = Unknown		O From right O From behind	
6. Medical outcome		O Other (specify):	
		O Unknown	
O Not injured			
O ER only		13. Non-motorist first avoidance	e action
O Hospitalized 1-4 days			
 O Hospitalized 5 days or r O Treatment later 	nore	O No avoidance actions O Stopped	
O Fatal		O Accelerated pace	
O Unknown		O Ran away (along vehicle	e path)
		O Jumped	
 Source of most severe injury 		O Turned away from vehic	
Bumper		O Turned toward vehicle a	
O Tire O Undercarriage		O Dove or fell away from v O Other (specify):	enicie
O Other Specify:		O Unknown	
O Ground			
O N/A		14. Non-motorist primary focus	of attention
Unknown			
8. Non-motorist impairment		O Striking vehicle	
(Select all that apply) O No drugs or alcohol pres	cont	O Play object O Person	
O Positive for alcohol (spe	cify BAC):	O Surrounding traffic	
O Positive for drugs (spec	ify):	O Animal	
O Unknown		O Handheld electronic (ph	
0 Source of clochol/drug result	0	O Other Object (specify) _ O Unknown	
 Source of alcohol/drug result Police reported 	3	O UTKHOWH	
Medical Report		15. Were any other Non-motori	sts present?
O Other (specify)		(Select all that apply)	· · · · ·
O Not Tested			
O Unknown if tested		O Alone	
NON-MOTORIS		O One adult present	
NON-MOTORIS	ACTIONS	O One other child present O Multiple adults present	
10. Non-motorist attitude		O Multiple adults present	t
		O Unknown	
O Standing O	On skates/skateboard		

- 10. Non-motorist attitude
 - O StandingO Bending at waist
- O On skates/skateboard
- O On bike/scooter
- O Sitting O Crouching O Kneeling
- O Other (specify)_ O Unknown

Sp	ecial Crash Investigations – Not In Traffic Surveillance: Non-Motorist Form				Page 2
		NON MOTORIST CLOTHING			
NC		NE" if applicable	eight for outermost laye	ronly	
	<u>Color</u> Black Lt gray/silver Gold/tan Dark blue Dark green Maroon Orange White	'S Charcoal gray Brown Purple Light blue Light green Red Yellow Other (specify)	<u>Fabrics</u> Natural Synthetic Blend	<u>Textures</u> Soft Slick Coarse	<u>Weights</u> Heavy Medium Light
	Clothing Hat	Color	Fabric	Texture	Weight
HEADWEAR	Helmet Hood Other (specify):				
U P F	Short Sleeve Long Sleeve				
E R B O D Y	Light Jacket Heavy Jacket Other (Specify):				
L O W	Shorts Pants				
E R B O D Y	Shoes Other (specify):				