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ON-SITE NOT IN TRAFFIC SURVEILLANCE BACK OVER INVESTIGATION

CASE NUMBER - IN08025 LOCATION - KANSAS VEHICLE - 1994 Ford Bronco CRASH DATE - May 2008

Submitted:

July 28, 2008 Revised: August 28, 2008



Contract Number: DTNH22-07-C-00044

Prepared for:

U.S. Department of Transportation National Highway Traffic Safety Administration National Center for Statistics and Analysis Washington, D.C. 20590-0003

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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 be 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 Documentation Page

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Form DOT 1700.7 (8-72)

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BACKGROUND

This incident was brought to the National Highway Traffic Safety Administration's attention on or before May 14, 2008 by an on-line article from a Kansas newspaper. This incident involved a 1994 Ford Bronco (Figure 1) and a pedalcyclist. The incident occurred in May, 2008, at 16:10 hours, in Kansas and was investigated by the applicable city police department. An incident report was completed and a copy submitted to the state government. This incident is of special interest because the Ford's driver backed over a pedalcyclist (2-year-old, male) who sustained fatal injuries. This contractor established contact with



local police on May 26, 2008 and obtained a copy of the police incident report on June 2, 2008. Contact was made with the Ford's driver on June 9, 2008 and cooperation was finalized on June 13, 2008. This contractor inspected the scene and Ford, and interviewed the Ford's driver on June 26, 2008. This report is based on the police incident report, scene and Ford inspections and an interview with the Ford's driver.

SUMMARY

This incident occurred during daylight hours under clear and dry weather conditions. The Ford was parked on a level residential driveway. After entering the vehicle and conversing with her two passengers and another adult that was standing adjacent to the left front door, the driver checked her mirrors and began to back the vehicle. She was looking over her right shoulder and continuing to converse with the front right passenger as she backed up. Unknown to the driver, the pedalcyclist was riding a toy tricycle behind and to the right of the Ford. His specific location relative to the Ford when the driver prepared to back up was unknown. As she backed up and to the right, the back bumper impacted the pedalcyclist, the vehicle's right rear tire rolled over him, and he sustained fatal head injuries.

CRASH CIRCUMSTANCES

Crash Environment: The Ford was parked, heading east at the east end of a residential driveway (Figure 2) that traversed east/west and was located on the north side of the driver's residence. The Ford was parked on the gravel portion of the driveway and another car was parked immediately to the Ford's right, on the concrete portion of the driveway. The gravel did not extend to the street. At the time of the incident, the light condition was daylight, the atmospheric condition was clear, and the driveway



Figure 2: Parked vehicle (left arrow) represents initial position of Ford; right arrow shows area of impact

Crash Circumstances (Continued)

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was dry and level. The site of the incident was located within a residential area. See the Scene Diagram at the end of this report.

The Ford's driver (18-year-old, **Pre-Crash:** female) stated during the interview that she was conversing with several other adults and children at the east end of the driveway. She left this group and approached the vehicle from the front right but could not remember if she walked around the front or the back end to enter. She estimated that she sat in the vehicle for 30 seconds-1 minute before the front right passenger (19-year-old, female) entered. The driver's brother (17-year-old, male) approached the Ford and stood near the right front door and conversed with the occupants for 1-2 minutes before entering the vehicle and sitting in the middle of the second seat. At this point, the pedalcyclist's father (driver's stepfather) came to the driver's door and spoke with the occupants for 30 seconds-1 minute. When the conversation ended, the driver prepared to back up by looking at the rearview mirror and left side view mirror. She could not recall if she also looked at the right side view mirror. She then looked over her right shoulder out of the backlight and began to back the vehicle while engaged in a conversation with the front right



Figure 3: Arrow indicates estimated path of Ford to impact area



Figure 4: Ford's back bumper and right rear tire; numbers on scale indicate tenths of meter

passenger. Unknown to the driver, the pedalcyclist (driver's stepbrother) was riding a toy tricycle on or near the concrete portion of the driveway, behind and to the right of the Ford. His position and movement was not known because the driver nor other people at the scene saw him just prior to the incident. The driver's intention was to back the vehicle to the right and onto the concrete (**Figure 3**) because the gravel portion of the driveway did not extend all the way to the street.

Crash: The driver backed the vehicle by moving her right foot on and off the brake, letting the Ford slowly idle backward, never touching the accelerator. She estimated that approximately 2-5 seconds after beginning the backing maneuver, she felt and heard a "rough" sound as the back bumper impacted the pedalcyclist and the right rear tire (**Figure 4**) rolled over him. Upon hearing this, the driver immediately stopped the vehicle. The vehicle traversed 16.6 meters (54.4 feet) to impact and an additional 2 meters to final rest. The vehicle's impact speed was unknown, but based on the driver's description of the incident, it was probably in a range of 2-8 km/h (1-5 mph).

Crash Circumstances (Continued)

Post-Crash: The Ford's driver got out of the vehicle and walked around to the right side of the vehicle. By this time, the pedalcyclist's father had picked him up from the driveway and was holding him in his arms. According to the driver, the pedalcyclist was just in front of the right rear tire at final rest. The driver subsequently moved the vehicle to a neighbor's driveway because her mother told her to make room for the ambulance. The police were notified and the pedalcyclist was transported by ambulance to a hospital. He was pronounced dead 32 minutes post-incident from an unspecified head injury.

CASE VEHICLE

The 1994 Ford Bronco was a four wheel drive, two-door sport utility vehicle (VIN: 1FMEU15HXRL-----) equipped with a 5.8L,V-8 engine and automatic transmission. The back windows and backlight were tinted (AS-3). The vehicle's recommended tire size was P265/75R15 and the vehicle was equipped with 22x11.50R15LT size tires. The Ford was not equipped with a back up/parking aid. The Ford's specified wheelbase was 266 centimeters (104.7 inches), the specified rear overhang was 120 centimeters (47.2 inches), and the specified overall length was 466 centimeters (183.6 inches). The distance from the ground to the bottom of the back bumper was 44 centimeters (17.3 inches). The distance from the ground to the top of the tailgate was 131 centimeters (51.6 inches). The height of the beltline was 128 centimeters (50.4 inches).

CASE VEHICLE DAMAGE

The vehicle inspection revealed no damage or contact evidence to the Ford's back bumper, undercarriage, or right rear tire. Based on the vehicle inspection and the Collision Deformation Classification (CDC) guidelines for pedestrian impacts, the CDC was **06-BRLN-1** (**180** degrees).

CASE VEHICLE DRIVER

The Ford's driver (18-year-old, female) was 157 centimeters (62 inches) tall and weighed 54 kilograms (120 pounds). She resided at the site of the incident and drove the vehicle in and out of the driveway daily. She was not wearing eyeglasses or contacts at the time of the incident.

CASE VEHICLE VISIBILITY STUDY

A visibility study was conducted during the inspection of the Ford in order to determine the nominal blind zone behind the Ford as well as the nominal blind zone of both side view mirrors and the rearview mirror. The standard 71 centimeters (28 inches) high target was used for the observations. The SCI investigator drove the Ford's driver to a remote location where the vehicle was located. The driver assisted the SCI investigator in making the visibility observations, as well as a surrogate that served as the back center passenger. The driver's eye height above the ground was measured as 155 centimeters (61 inches) as she sat in the driver's seat with the seat adjusted between the middle and full forward track position, which was her normal seat track position. The top of the surrogate passenger's head was measured as she sat in the second row center seat position and was 177 centimeters (64.6 inches) above the ground. The driver was the primary

Case Vehicle Visibility Study (Continued)

driver of the Ford and rarely adjusted her rearview and side view mirrors, and did not have to adjust them prior to the observations. Please refer to the Nominal Visibility Diagram at the end of this report when reading the following description.

The initial set of observations was made with the driver looking over her right shoulder out of the backlight as she did at the time of the incident. The target was moved rearward from the back bumper along the Ford's centerline 6.9 meters (22.6 feet) before it came into the driver's view (Figures 5 and 6). When the target was moved 1.1 meters (3.6 feet) to the right of the centerline, it became obstructed by the spare tire, which was mounted on the Ford's tailgate. The target had to be moved 2.8 meters (9.2 feet) further to the right to become visible to the driver on the right side of the spare tire. When the target was moved 1.4 meters (4.6 feet) further to the right, it became obstructed by the right Cpillar and second row center passenger (Figure 7). The target had to be moved an additional 7 meters (23 feet) before it became visible on the right side of the second row center passenger. The target was repositioned at the centerline and when moved to the left 1.5 meters (4.9 feet), passed beyond the driver's view because it was unnatural to turn her head further to the right.

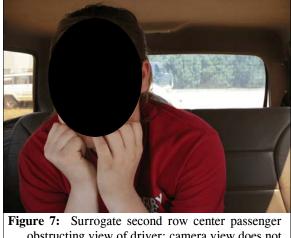
The Ford's driver was asked to view behind the vehicle through the rearview mirror. The target was moved rearward from the back bumper 7.1 meters (23.3 feet) before the driver could see it (**Figure 8**). The target was moved 0.3 meter (1 foot) to the right of the centerline where it became obstructed by the second row center passenger and spare tire. The target did not become visible again until it was moved 2.1 meters (6.9 feet) further to the right, and when moved another 1.1



Figure 5: Arrow at target shows extent of blind zone with driver looking over shoulder



Figure 6: Arrow at target shows driver's over right shoulder view



obstructing view of driver; camera view does not accurately represent driver's view

meters (3.6 feet), the target became obstructed by the right C-pillar. When moved another 0.7 meter (2.3 feet) to the right, the target became visible to the driver on the right side of the C-pillar. The target was moved another 0.6 meter (2 feet) it was no longer visible because it went out of the mirrors's field of view. The target was returned to the initial location at the centerline

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Case Vehicle Visibility Study (Continued)

and moved left. The target immediately went out of the driver's view, dropping below the second row seat back. This was due to a depression in the gravel driveway where the target was positioned. The Ford was not driveable at the time of inspection and could not be moved.

The target was placed at the back left bumper corner while the driver viewed through the left side view mirror. It was necessary to move the target rearward 3.2 meters (10.5 feet) before the driver could see it. The target was moved left 1.3 meters (4.3 feet) where it went out of the mirror's field of view and the driver could no longer see it (Figure 9). The target was positioned at the back right bumper corner and the same process was repeated for the right side view mirror. It was necessary to move the target rearward from the back bumper 2.5 meters (8.2 feet) before the driver could see it. The target was then moved to the right 1.9 meters (6.2 feet) where it went out of the right side view mirror's field of view and the driver could no longer see it (Figure 10).

The visibility study determined that the Ford had a large blind zone behind and on both sides of the vehicle as well as blind zones caused by the spare tire, second row center occupant, and right C-pillar. The driver stated she did not see the pedalcyclist at any time prior to or during the backing maneuver. It is not known if the pedalcyclist was within a blind zone when the driver checked her mirrors and then looked out of the backlight and began to back up because his location relative to the vehicle at that time could not be determined.

NONMOTORIST

The pedalcyclist was a 2-year-old, male. He

was 56 centimeters (22 inches) tall and weighed 11 kilograms (25 pounds). He was wearing pink long john bottoms with green and yellow stripes and green flip flops. There was no information regarding his height while seated on the tricycle. The tricycle was not available for inspection.



Figure 8: Close view of target through rearview mirror (arrow shows target)



Figure 9: Close view through left side view mirror; arrow shows target



Figure 10: Close view through right side view mirror; arrow shows target

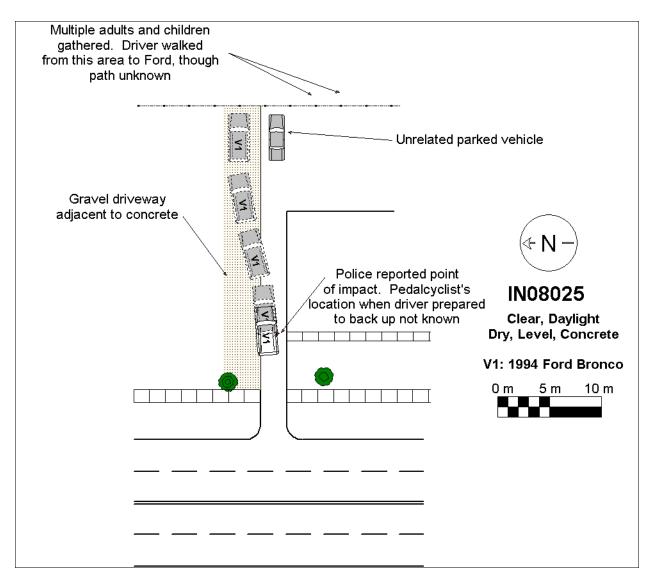
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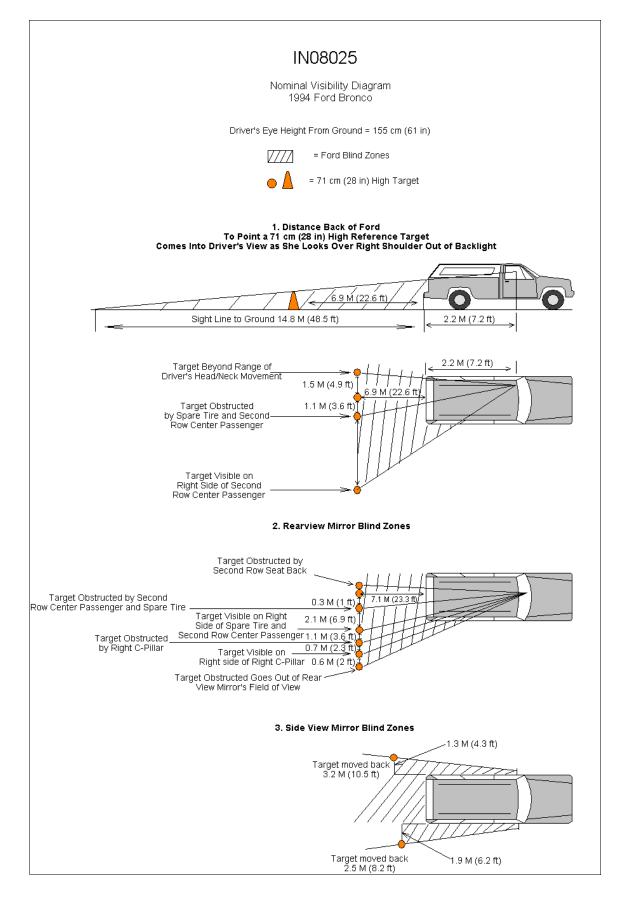
Nonmotorist (Continued)

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He was transported by ambulance to a hospital and pronounced dead 32 minutes post-incident from an unspecified head injury. The table below shows the pedalcyclist's injury and injury source.

Injury Number	Injury Description (including Aspect)	NASS In- jury Code & AIS 90	Injury Source	Source Confi- dence	Source of Injury Data
1	Blunt head trauma {major, disfig- ured, partially flattened}, not further specified	unknown 115099.7,0	Tire, right rear	Certain	Police Inci- dent Report





U.S. Department of Transportation 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 Code reported military time of crash.	8. Driver exterior sightline obstructions (Select all that apply)
NOTE: Midnight = 2400 Unknown = 9999	O None O Utility poles O Other vehicles O Signs O Building O Glare O Trees O Unknown
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	ODrivewayORoad / streetOParking LotORoadside / shoulderOSidewalkOOther (specify)OAlleyOUnknownOIntersection 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 / Unknown	Clear / Hazy / Very Dirty / Unknown			
RF		Fixed / Closed / Open / Partially Open / Unknown	Clear / Hazy / Very Dirty / Unknown			
2 nd Left		Fixed / Closed / Open / Partially Open / Unknown	Clear / Hazy / Very Dirty / Unknown			
2 nd Right		Fixed / Closed / Open / Partially Open / Unknown	Clear / Hazy / Very Dirty / Unknown			
3 rd Left		Fixed / Closed / Open / Partially Open / Unknown	Clear / Hazy / Very Dirty / Unknown			
3 rd Right		Fixed / Closed / Open / Partially Open / Unknown	Clear / Hazy / Very Dirty / Unknown			
Backlight		Fixed / Closed / Open / Partially Open / Unknown	Clear / Hazy / Very Dirty / Unknown			
Left Backlight		Fixed / Closed / Open / Partially Open / Unknown	Clear / Hazy / Very Dirty / Unknown			
Right Backlight		Fixed / Closed / Open / Partially Open / Unknown	Clear / Hazy / Very Dirty / Unknown			
Roof		Fixed / Closed / Open / Partially Open / Unknown	Clear / Hazy / Very Dirty / Unknown			
Other (specify)		Fixed / Closed / Open / Partially Open / Unknown	Clear / Hazy / Very Dirty / Unknown			
		TIRE D	ATA			
6. Vehicle	Manufactu	urer Recommended Tire Size _				
7. LF Tire	Size		RF Tire Size			
8. LR Tire	Size		RR Tire Size			

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

8 = Pedestal (i.e. column supported)

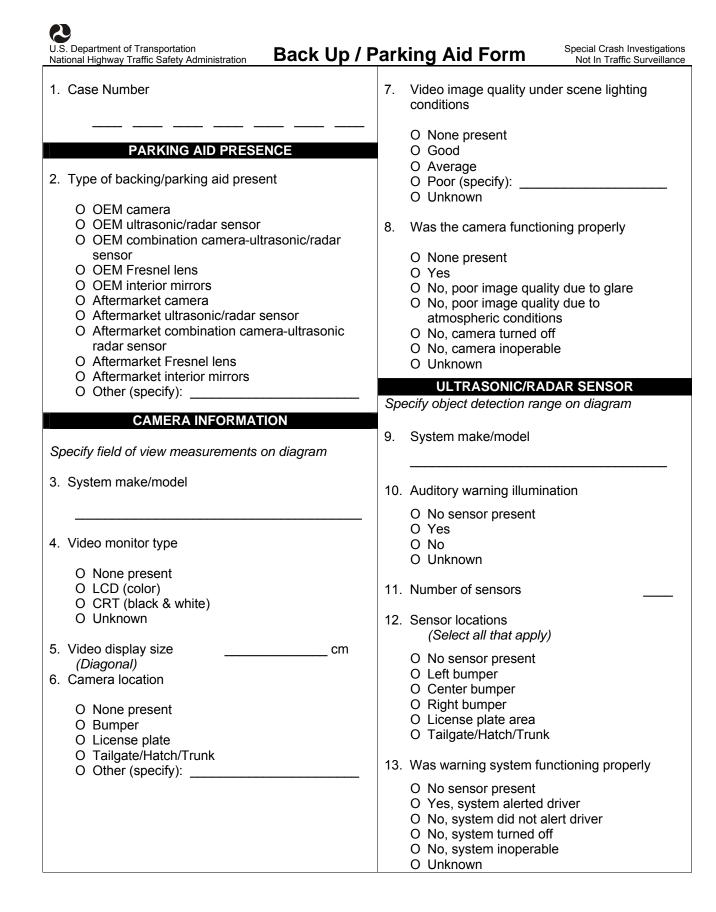
9 = Box mounted (i.e. van type)

10= Other seat type (specify)

99= Unknown seat type

	MEAS	пре	
		UKE	

Clearance Heights	Measurements (all from ground, and in centimeters	NOTES
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)		



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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 99 = Unknown 3. Driver's Sex O Male O Female O Unknown	 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):
 999 = Unknown 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):	 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

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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 At object inside the car O At mirrors O Other (specify): 	20.	 O No, never saw non motorist O Saw non motorist prior to entering vehicle O Saw non motorist after entering vehicle O Other (specify):
17.	O N/A Unknown Was the driver distracted during back up maneuver (Select all that apply)		O2-5 secondsO6-10 secondsO> 10 secondsON/AUnknown
	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 Recent experience driving this vehicle
	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		 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 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
	(specify): O N/A Unknown	24.	Driver Impairment (Select all that apply)
18.	Driver avoidance actions prior to impact (Select all that apply)		O No drugs or alcohol present O Alcohol present (specify BAC): O Drugs present (specify):
	O None O Braking O Steering left	~-	O Unknown
	 O Steering right O Accelerating O Other (specify):	25.	Source of alcohol/drug results O Police reported O Medical record O Other (specify) O Not Tested Unknown if tested

Form	Not In Traffic Surveilla
1 ⁻	1. Non-motorist motion
	O Not moving
	O Walking slowly O Walking rapidly
Months	O Running or jogging
	O Skipping/Hopping/Jumping
	O Falling/Stumbling/Rising
	O On skates/skateboard
	O On bike/scooter
	O Other (specify):
	O Unknown
_ cm 12	2. Non-motorist approach relative to rear of vehicle
	O Stationary
kg	O From left
	O From right
	O From behind
	O Other (specify):
	O Unknown
11	3. Non-motorist first avoidance action
1.	
	O No avoidance actions
	O Stopped
	O Accelerated pace
	O Ran away (along vehicle path)
	O Jumped
	O Turned away from vehicle
	O Turned toward vehicle and braced
	O Dove or fell away from vehicle
	O Other (specify):
	O UTIKITUWIT
14	4. Non-motorist primary focus of attention
	O Striking vehicle
	O Play object
	O Person
	O Surrounding traffic
	O Animal
	O Handheld electronic (phone, MP3 player, etc.)
	O Other Object (specify)
1!	5. Were any other Non-motorists present?
	(Select all that apply)
	· · · · · · · · · · · · · · · · · · ·
	O Alone
	O One adult present
	O One other child present
-	O Multiple adults present
	O Multiple children present
	_ kg 1:

- 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

O Unknown

Revised April 2008

Sp	pecial Crash Investigations – Not In Traffic Surveillance: Non-Motorist Form				Page 2
	NON MOTORIST CLOTHING				
NC	DTES:				
 Specify Color, Fabric and Texture/Weight for outermost layer only 					
	Indicate "NONE" if applicable				
	Available cod	les:			
	<u>Color</u>	<u>Textures</u>	Weights		
	Black	Charcoal gray	<u>Fabrics</u> Natural	Soft	Heavy
	Lt gray/silver	Brown	Synthetic	Slick	Medium
	Gold/tan	Purple	Blend	Coarse	Light
	Dark blue	Light blue			
	Dark green Maroon	Light green Red			
	Orange	Yellow			
	White	Other (specify)			
	Clothing	Color	Fabric	Texture	Waight
н		COIOI	Fabric	Texture	Weight
	Hat				
E	Helmet				
A					
D W	Hood				
Е	Other (specify):				
Α					
R					
U	Short Sleeve				
Ρ	Long Sleeve				
Ρ					
E R	Light Jacket				
R					
В	Heavy Jacket				
D	Other (Specify):				
Y					
L	Shorts				
0					
W	Pants				
E R					
	Shoes				
B	Other (specify):				
O D					
D Y					
		1	1	1	