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ON-SITE NOT IN TRAFFIC SURVEILLANCE BACK OVER INVESTIGATION

CASE NUMBER - IN08028 LOCATION - OHIO VEHICLE - 2000 Chrysler Cirrus LX CRASH DATE - July 2008

Submitted:

September 19, 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.

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1.	Domout No	2 Concernant According No.	2 Desinientle Catalan Na	
	Report No. IN08028	2. Government Accession No.	3. Recipient's Catalog No.	
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5.	11 2	ance back over investigation invo	olving a 2000 Chrysler Cirrus LX	and
5.	Abstract	te not in traffic surveillance bac	k over investigation involving a	
	was being driven in reverse month-old male unrelated documenting the circumse involved vehicle. The ve- driver was in the processe nonmotorist ran from a ra The nonmotorist's trajecto back bumper struck him. The abrasions on his forehead yelled at the driver to sto	nonmotorist. This incident is of e and the 19-year-old female due to the driver). This on-site inve- ances of the incident and the nicle was parked in the parking of backing out of a parking ised grass island within the par- ry was from the vehicle's back. The impact knocked him to the b and right chest. Other adults in p and she immediately stopped	of special interest because the ver- river backed over a nonmotoris estigation focused on determinin- rear visibility characteristics of g lot of an apartment complex. space in a clockwise arc whe king lot into the path of the ver- right and the right rear portion of ituminous pavement and he sust in the area saw the incident occur the vehicle. The nonmotoris is his injuries in the emergency	ehicle g an of th Th hicle of th caine ur an t wa

	Child Injury	Injury Severity		
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BACKGROUND

This incident was brought to the National Highway Traffic Safety Administration's attention on or before July 18, 2008 by an article published by an unknown source. The incident occurred in July, 2008, at 14:10 hours, in Ohio and involved a 2000 Chrysler Cirrus LX (Figure 1). This incident is of special interest because the vehicle was being driven in reverse and the 19-year-old female driver backed over a nonmotorist (21month-old male unrelated to the driver). The incident was investigated by the applicable city police department and an Ohio Traffic Crash Report was completed and a copy was submitted to the state. This contractor inspected the Chrysler and the crash scene, and interviewed the Chrysler's driver on August 5, 2008. This report is based on the police crash report, scene and vehicle inspections, and an interview with the Chrysler's driver.

CRASH CIRCUMSTANCES

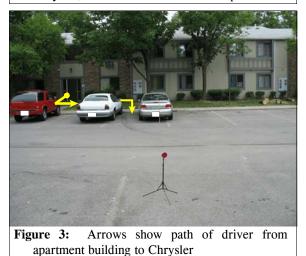
Crash Environment: The Chrysler was parked in the parking lot of an apartment complex (Figure **2**). The grade within the parking stall was negative 7.5% in the direction of backing and became level on the parking lot roadway. Α passenger car was parked on the left side of the Chrysler and no vehicle was parked on its right The parking lot was connected to the side. driver's apartment building by a concrete sidewalk and was located 6.3 meters (20.6 feet) from the front door of the building. The struck nonmotorist was located near or within a raised grassy island that was located 8.8 meters (28.9 feet) behind and 2.8 meters (9.1 feet) to the left of the Chrvsler. There were also several other children playing and riding bicycles as well as a few adults in and around the parking lot. At the time of the incident, the light condition was



Figure 1: Back right view of Chrysler Cirrus



Figure 2: Right arrow shows pre-incident position of Chrysler; left arrow shows area of impact



daylight, the atmospheric condition was clear, and the parking lot was dry bituminous.

Pre-Crash: The driver stated during the interview that she was leaving the apartment building at approximately 14:05 hours to drive to work. She exited the front door of the building and walked

Crash Circumstances (Continued)

11 meters (36.1 feet) on the sidewalk to the Chrysler (Figure 3). She approached the Chrysler from the front left and her entry was not interrupted. She entered the vehicle, put on her safety belt and looked at her right and left side view mirrors as well as her rearview mirror, but she did not remember looking over her right or left shoulder. She saw no one behind the vehicle at this time. After checking the mirrors, she started the vehicle. Meanwhile, the nonmotorist was about to start running east toward the apartment building from the raised island (Figure 4). The path of the nonmotorist was 8.8 meters (28.9 feet) behind and 6.4 meters (21 feet) to the left of the vehicle's centerline. The nonmotorist's mother was awaiting him by the same doorway that the driver had just exited. The doorway was located directly east from the parking lot, the raised island, and the nonmotorist.

Crash: After the driver shifted into reverse, she backed clockwise out of the parking space, moving her foot on and off the brake, never pressing the accelerator. As she backed, she was looking at the right side view mirror but did not see the nonmotorist running toward the apartment building. It is possible that as the driver backed up and the vehicle's and nonmotorist's trajectories converged, the nonmotorist was continually

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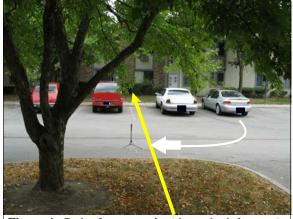


Figure 4: Path of nonmotorist (shown by left arrow) and Chrysler (right arrow); tripod stand shows area of impact



Figure 5: Final rest positions of the Chrysler and nonmotorist (arrow)

moving away from the right side view mirror's visibility zone. The driver estimated that she had backed up 2-5 seconds when she heard other adults in the area yelling for her to stop, and she immediately stopped the vehicle. She exited and walked to the rear of the vehicle where the nonmotorist was lying just behind the right rear bumper corner (**Figure 5**). The right portion of the back bumper had struck the nonmotorist and knocked him down, but the driver did not feel the impact. At final rest, he was lying on his right side with his head toward the right side of the vehicle. Based on the information obtained from the driver and the on-site investigation, the vehicle traveled backward 11 meters (36.1 feet) to the point of impact and an additional 0.6 meters (2 feet) to the point of final rest. The impact speed was estimated at 3 km/h (2 mph.).

Post-Crash: The nonmotorist's mother ran over to the vehicle and picked up the nonmotorist. She was soon joined by her husband. They checked him for injuries and told the driver he was alright. The driver assumed that the matter was resolved and exchanged information with the nonmotorist's mother before going on to work. The nonmotorist's parents subsequently reported the incident to police. The police report indicated they were notified at 14:16 hours and arrived on scene at 14:22 hours. An ambulance was called and the nonmotorist was transported to a

Crash Circumstances (Continued)

hospital with minor injuries. A search for the driver ensued and a local news station broadcast an account of the incident. The driver was contacted at work by a friend who told her the incident was on the news and she was wanted by the police. The driver contacted police and filed a statement regarding the incident. No charges were brought against the driver.

CASE VEHICLE

The 2000 Chrysler Cirrus LX (**Figure 6**) was a front wheel drive, 4-door, sedan (VIN: 1C3EJ46X0YN-----) equipped with a 2.4L, 4-cylinder engine and automatic transmission. All side windows and the backlight were equipped with AS-2 non-tinted glazing. At the time of the incident the left front window was partially open and the other side windows were closed. The manufacturer's recommended tire size was P195/70R14 and the vehicle was equipped with P195/65R15 size tires. The vehicle's specified wheelbase was 274 centimeters (108 inches), the specified rear overhang was 105 centimeters (41.3 inches), and the specified overall length was 475 centimeters (187 inches). The distance from the ground to the bottom of the back bumper (**Figure 7**) was 29 centimeters (11.4 inches) and the distance from the ground to the beltline was 88 centimeters (34.6 inches).



Figure 5: Front left view of the Chrysler Cirrus LX



Figure 7: Chrysler's back bumper

CASE VEHICLE DAMAGE

There was no damage and no evidence of nonmotorist contact to the Chrysler's back bumper rear tires or rear undercarriage. Based on the driver's description of the incident and the Collision Deformation Classification (CDC) guidelines for pedestrian impacts, a CDC of **06-BRLN-1** was assigned to describe the nonmotorist's contact to the back bumper.

CASE VEHICLE DRIVER

The Chrysler's driver was a 19-year-old, female, 160 centimeters (63 inches) tall and weighed 64 kilograms (140 pounds). The driver had driven the vehicle for two years and drove it in and out of the parking lot on a daily basis. She was not wearing eyeglasses or contact lenses at the time of the incident.

CASE VEHICLE VISIBILITY STUDY

A visibility study was conducted at the incident scene in order to determine the nominal blind zone behind the vehicle 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 Chrysler's driver assisted the Special Crash Investigations (SCI) investigator in making the visibility observations. The driver's eye height above the ground was measured as 110 centimeters (43.3 inches) as she sat in the driver's seat. The driver's seat track was adjusted between the middle and forward most positions, which was her normal seat track position. This placed her head 260 centimeters (102 inches) forward of the back bumper.

The assessments for each side view mirror were made by moving the target along the side of the vehicle until the driver could see it. The driver honked the horn when the target first came into view and the location was marked and measured. It was determined through this process that the visibility zone began 0.1 meters (0.3 feet) forward of the back bumper for the left side view mirror and 0.9 meters (3 feet) forward of the back bumper for the right side view mirror. The target was then placed at the bumper corner and moved laterally away from the side of the vehicle until it went out of the respective side view mirror's field of view. The width of the left side view mirror visibility zone at the back bumper was 0.5 meters (1.6 feet) and 0.8 meters (2.6 feet) for the right side view mirror. The rearview mirror blind zone and the blind zone behind the vehicle as the driver looked out of the backlight were determined in a similar manner. The target was moved rearward along the vehicle's centerline until the driver could see it. The target was then moved to the left and right until it went out of the driver's view. Each location was located relative to the vehicle's centerline. The depth of the blind zone behind the vehicle was 7 meters (23 feet) for the rearview mirror and 10.2 meters (33.5 feet) when the driver was looking through the backlight. The results of the visibility study indicated that the nonmotorist was within the blind zone to the back left of the vehicle when the driver checked the side view and rearview mirrors prior to backing up. The blind zone measurements are depicted on the Nominal Visibility Diagram on page 7 of this report.

NONMOTORIST

The nonmotorist was a 21-month-old male, 64 centimeters (25 inches) tall and weighed 10 kilograms (23 pounds). He was wearing blue jean shorts and no shirt. It is not known if he was wearing shoes. The nonmotorist was transported by ambulance to a hospital and was treated in the emergency room and released.

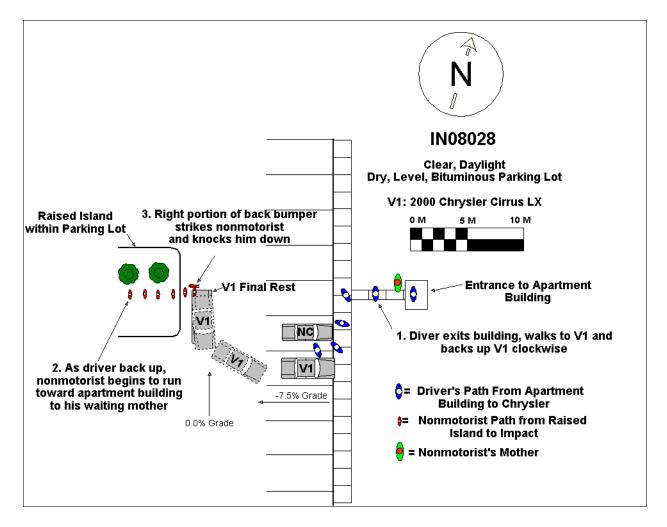
NONMOTORIST INJURIES

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The nonmotorist sustained minor injuries due to contact with the ground. The injuries as reported by the Chrysler's driver are shown in the table below.

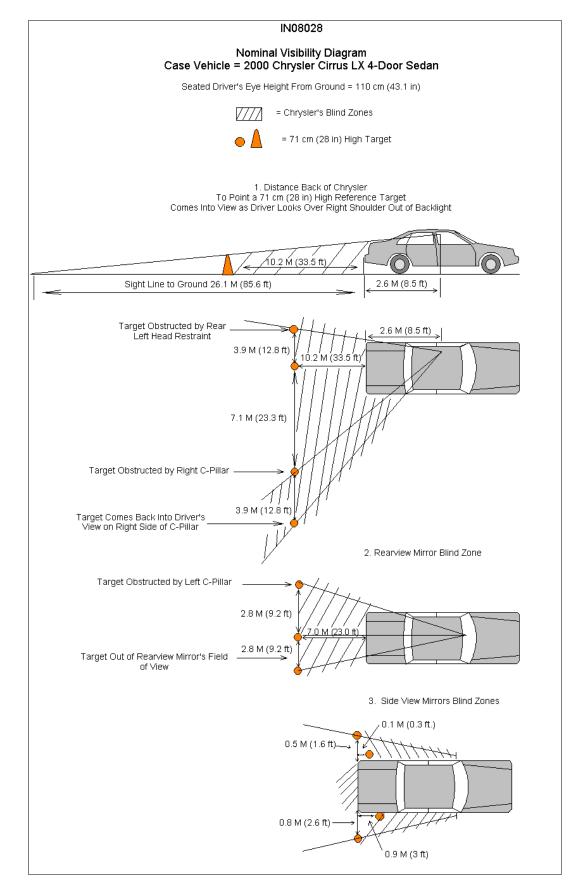
Injury Number	Injury Description (including Aspect)	NASS In- jury Code & AIS 90	Injury Source	Source Confi- dence	Source of Injury Data
1	Abrasion forehead, not further specified	minor 290202.1,7	Ground	Certain	Interviewee (driver)
2	Abrasion right chest, not further specified	minor 490202.1,1	Ground	Probable	Interviewee (driver)

SCENE DIAGRAM



NOMINAL VISIBILITY DIAGRAM

IN08028



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:

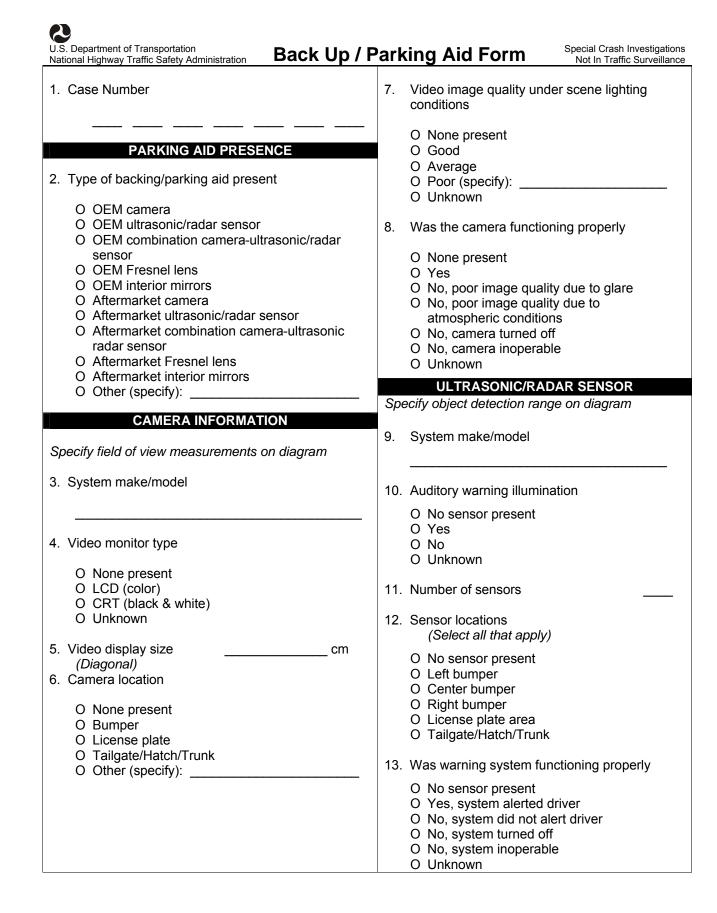
- 0 = No seat or seat folded down
- 1 = Bucket
- 2 = Bucket w/ folding back
- 3 = Bench
- 4 = Bench with folding back cushions
- 5 = Bench w/ folding back
- 6 = Split bench w/ separate back cushions
- 7 = Split bench w/ separate folding back

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



Special Crash Investigations – Not In Traffic Surveill	ance: 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		
	1	

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

Page 2

16.	What direction was the driver looking during backing maneuver (Select all that apply)	19.	Did driver see struck non motorist prior to impact (Select all that apply)
	 O Straight ahead O Right O Left O Rearward O At object inside the car 		 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 mirrors O Other (specify): O N/A	20.	Est time between start of backing and impact O <2 or = 1 second
17.	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
	Internal	22.	Recent experience driving this vehicle
	 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 	23.	 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	25.	Source of alcohol/drug results
	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 Moto Form	Special Crash Investigation
National Highway Traffic Safety Administration	10111	Not In Traffic Surveilla
1. Case Number	1	1. Non-motorist motion
		O Not moving
NON-MOTORIST PROFILE		O Walking slowly
	Months	O Walking rapidly O Running or jogging
2. Non-motorist's Age	Years	O Skipping/Hopping/Jumping
99 = Unknown		O Falling/Stumbling/Rising
		O On skates/skateboard
3. Non-motorist's Sex O Male		O On bike/scooter
O Female		O Other (specify):
O Unknown		O Unknown
4. Non-motorist's Height	cm 12	2. Non-motorist approach relative to rear of vehicle
		O Stationary
5. Non-motorist's Weight	kg	O From left
999 = Unknown		O From right
		O From behind
Medical outcome		O Other (specify):
		O Unknown
O Not injured		 Non-motorist first avoidance action
O ER only O Hospitalized 1-4 days	1.	Non-motorist first avoidance action
O Hospitalized 5 days or more		O No avoidance actions
O Treatment later		O Stopped
O Fatal		O Accelerated pace
O Unknown		O Ran away (along vehicle path)
		O Jumped
Source of most severe injury		O Turned away from vehicle
Bumper		O Turned toward vehicle and braced
O Tire		O Dove or fell away from vehicle
O Undercarriage O Other Specify:		O Other (specify):
O Other Specify: O Ground	.	O Unknown
O N/A	1	4. Non-motorist primary focus of attention
Unknown	-	
3. Non-motorist impairment		O Striking vehicle
(Select all that apply)		O Play object
O No drugs or alcohol present		O Person
O Positive for alcohol (specify BAC):		O Surrounding traffic
O Positive for drugs (specify):		O Animal
O Unknown		O Handheld electronic (phone, MP3 player, etc.)
		O Other Object (specify)
9. Source of alcohol/drug results		O Unknown
Police reported Medical Report	1	5. Were any other Non-motorists present?
O Other (specify)	13	(Select all that apply)
O Not Tested		
O Unknown if tested		O Alone
		O One adult present
NON-MOTORIST ACTIONS		O One other child present
		O Multiple adults present
10. Non-motorist attitude		O Multiple children present
		O Unknown

- 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 September 2008

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):				