Remote Not in Traffic Surveillance Back Over Investigation / Vehicle to Pedestrian
Dynamic Science, Inc. / Case Number: DS07019
1991 Isuzu Trooper
Arizona
January 2007

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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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16. Abstract

This remote Not In Traffic Surveillance (NITS) investigation focused on the circumstances surrounding a 4-year-old female child injured in a back over incident. This single vehicle incident occurred in January 2007. The case vehicle is a 1991 Isuzu Trooper sport utility vehicle that was being driven by a 45-year-old woman. The driver is a babysitter who works out of her home. This incident occurred in a private driveway next to her home. She was the babysitter for the fatally injured child. The driveway curves from the side of the residence, around the front of the residence, and then straightens out as it intersects the public roadway. At the roadway/driveway intersection, there is a metal gate. At approximately 1438 hours, the driver had entered the IsuzuTrooper. She was going to school to pick up another child that she watches. The 4-year-old was "supposed to be waiting by the stairs", according to the driver. The driver began backing toward the front gate. She indicated that she heard a "thump". She stopped the vehicle and saw the child in front of the vehicle and realized she had run over her. She exited the vehicle and called 911. She stated that she yelled to a neighbor who was working outside and the two of them began CPR until paramedics arrived and took over. Paramedics requested an air ambulance. The 4-year-old was transported by air to an area trauma center. She was pronounced dead at 1520 hours.

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BACKGROUND

This remote Not In Traffic Surveillance (NITS) investigation focused on the circumstances surrounding a 4-year-old female child injured in a back over incident. This single vehicle incident occurred in January 2007. The case vehicle is a 1991 Isuzu Trooper sport utility vehicle that was being driven by a 45-year-old woman (see Figure 1). The driver is a babysitter who works out of her home. She was the babysitter for the fatally injured child. This incident occurred in a private driveway next to the driver's home. The driveway curves from the side of the residence, around the front of the residence, and then straightens out as it



Figure 1. Case vehicle, 1991 Isuzu Trooper

intersects the public roadway. At the roadway/driveway intersection, there is a metal gate. At approximately 1438 hours, the driver had entered the Isuzu Trooper. She was going to school to pick up another child that she watches. The 4-year-old was "supposed to be waiting by the stairs", according to the driver. The driver began backing toward the front gate. She indicated that she heard a "thump". She stopped the vehicle and saw the child in front of the vehicle and realized she had run over her. She exited the vehicle and called 911. She stated that she yelled to a neighbor who was working outside and the two of them began CPR until paramedics arrived and took over. Paramedics requested an air ambulance. The 4-year-old was transported by air to an area trauma center. She was pronounced dead at 1520 hours.

This NITS investigation was initiated in response to an on-line news article reporting the death of a 4-year-old child in a back over incident. On January 26, 2007 DSI was notified of the news article. The investigating police department was contacted. The police report and on-scene photos were eventually obtained on February 27, 2007. DSI was assigned the case on May 8, 2007. According to the investigating police agency, this incident was not reported to the state because it occurred on private property. The agency maintains a copy of the report at their facility. The following information was obtained from the police incident report, on scene photos and the on-line news article.

SUMMARY

Incident Site

The incident occurred in a private driveway next to a private residence. The residence is approximately 32 m (104 ft) east of a north/south roadway. It is connected to the roadway by a curved gravel driveway. At the roadway/driveway intersection, there is a metal gate. The driveway begins north of the residence and then curves south. In front of the residence, there is a circular rock garden area. The driveway curves around both sides of the garden area, which forms a turnaround. The driveway continues in an easterly direction along the south side of the residence. There is a covered patio on the south side of the residence. The case vehicle was initially parked to the south of the patio. The driver's vision was obscured on the left side by the

brick patio supports. According to the nearest reporting station, the temperature at the time of the crash was 14.4 degrees C (58 degrees F). There is no posted speed limit for this area.

Pre-Crash

The driver babysits a number of children at this residence. There were two children at the residence at the time of the incident. One was the fatally injured 4-year-old. The other was a 2-year-old that was asleep in one of the bedrooms.

The Isuzu was configured with a spare tire attached to the rear hatch. The tire partially blocks the rear window. The distance from the ground to the top of the tire was 157.5 cm (62.0 in). At this height, the driver would not have been able to see any objects out the back window.

Just prior to the incident, the driver put one of the her dogs into the back yard. She indicated that she was going to school to pick up another child that she watches. At approximately 1438 hours, the driver had entered the Trooper. She was going to school to pick up another child that she watches. The 4-year-old was "supposed to be waiting by the stairs", according to the driver. According to the Medical Examiner's office, the child was 103 cm (40.5 in) in height and weighed 18 kg (39 lbs). It appears that the 4-year-old crossed through the patio area (going north to south) and into the path of the Isuzu Trooper (see Figure 3). The path of the child was east of the green waste bin. There is a brick patio support east of the green waste bin that blocked the driver's view to some extent.

Crash

The driver began backing toward the front gate. She indicated that she heard a "thump". She stopped the vehicle and saw the child in front of the vehicle and realized she had run over her. It appears that the child was knocked down by the right rear bumper and then run over by both right side tires.



Figure 2. Overview of crash scene (case vehicle in background on right)



Figure 3. Look back view of pedestrian path

Post-Crash

The driver exited the vehicle after seeing the child on the ground and called 911. A neighbor was working outside. He saw the driver pick up the child in front of the case vehicle. The driver ran to the side door yelling for help. The neighbor went to the door, knocked and then went inside. He began helping with CPR. The driver and the neighbor continued CPR until the paramedics arrived and took over. Paramedics requested an air ambulance. The 4-year-old was transported by air to an area trauma center. She was pronounced dead at 1520 hours. According to the medical examiner, the cause of death was blunt force trauma. She had a skull fracture and a laceration of the brain.



Figure 4. Case vehicle at final rest. Circle marks location of pooled blood.



Figure 5. Close up of blood mark on driveway



Figure 6. Case vehicle at final rest (east)

VEHICLE DATA -1991 Isuzu Trooper

The 1991 Isuzu Trooper II four-door sport utility vehicle was identified by the Vehicle Identification Number (VIN): JACCH58R9M8xxxxxx. The sport utility vehicle was equipped with a 2.8 liter six cylinder engine, an automatic transmission, and four-wheel drive.

Vehicle Dimensions

Measurements were obtained from published vehicle specifications, police measurements and an exemplar vehicle.

Ground to belt line:	128.0 cm (50.5 in)
Ground to top of trunk/tailgate:	128.0 cm (50.5 in)
Ground to top of rear bumper:	67.8 cm (26.7 in)
Ground to bottom of rear bumper:	53.3 cm (21.0 in)
Driver's seated eye height:	Estimated 154.9 cm (61.0 in)
Eye position (seated forward facing):	Estimated 12.7 (5.0 in)
Overall vehicle height:	182.0 cm (71.7 in)
Overall vehicle width:	165.0 cm (65.0 in)
Overall vehicle length:	447.0 cm (176.0 in)
Rear overhang:	97.0 cm (38.2 in)
Track width:	149.0 cm (58.7 in)
Longitudinal distance between rear most projection and front door latch pillar:	221.0 cm (87.0 in)

Parking Aids/Sensors

The case vehicle was not equipped with any parking aids or backing up sensor/video technology.

Vehicle Sight Distances

The site distance shown is based on the view through the rear window. The driver's seated height was based on the seated eye height of a 50th percentile male as measured within an exemplar vehicle.

The Isuzu was configured with a spare tire attached to the rear hatch. The tire partially blocks the rear window. The distance from the ground to the top of the tire was 157.5 cm (62.0 in). At this height, the driver would not have been able to see any objects out the back window.

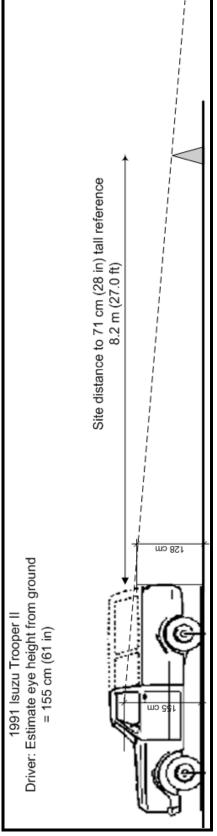


Figure 7. Nominal Sight Distances

Vehicle Damage

Exterior Damage - 1991 Isuzu Trooper pickup

There was no exterior damage to the vehicle. There was a cleaning mark found on the rear bumper, but it is not known if this was related to this incident (see Figures 8-9).

Interior Damage - 1991 Isuzu Trooper pickup

There was no interior damage.



Figure 8. Overview of cleaning mark to rear bumper



Figure 9. Close up of cleaning mark to rear bumper

OCCUPANT DEMOGRAPHICS - 1991 Isuzu Trooper

Driver

Age/Sex: 45/Female

Seated Position: Front left

Seat Type: Bucket

Height: Unknown

Weight: Unknown

Occupation: Babysitter

Pre-existing Medical

Condition:

None noted

Alcohol/Drug Involvement: In the police interview, she stated that

she had used marijuana the night

before. She submitted to a

preliminary breath test; the results were negative. She also took some prescription medicine the night

before.

Driving Experience: Unknown

Body Posture: Normal

Hand Position: Unknown

Foot Position: Unknown

Restraint Usage: Lap and shoulder belt available, used

NON MOTORIST DEMOGRAPHICS

Age/Sex: 4/Female

Height: 103 cm (40.5 in)

Weight: 18 kg (39 lbs)

Occupation: N/A

Pre-existing Medical None noted

Condition:

Alcohol/Drug Involvement: N/A

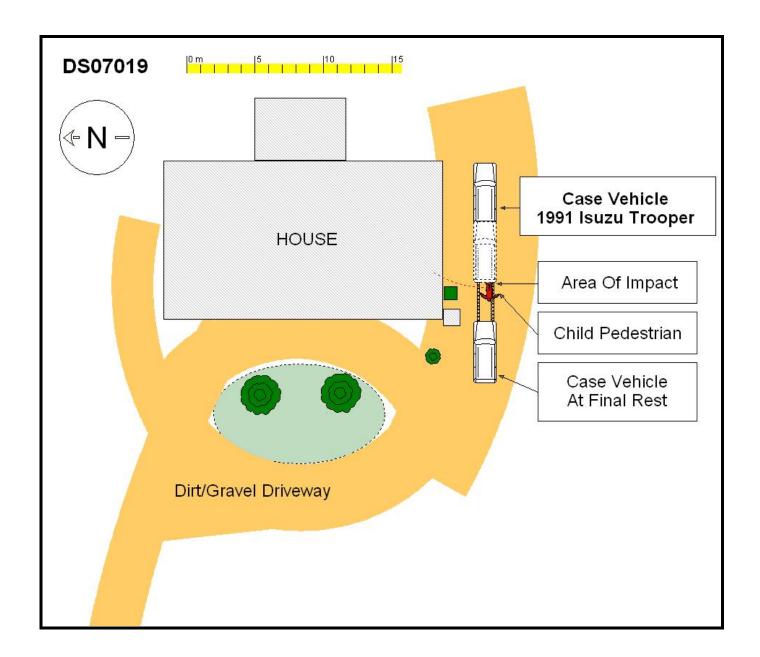
Body Posture: Standing/walking

INJURIES

<u>Driver</u>: 1991 Isuzu Trooper pickup: Not injured

Non Motorist: Injuries obtained from medical examiner's statement to the police. The official cause of death was due to blunt head trauma.

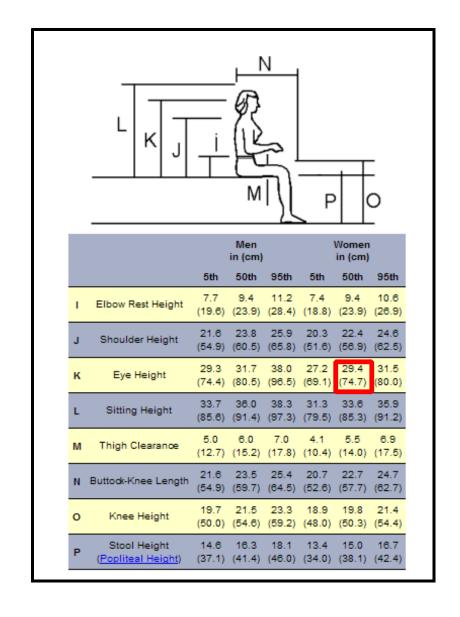
<u>Injury</u>	Injury Code	Injury Mechanism	Confidence Level
Skull fracture	150400.2,9	Tire	Certain
Brain laceration	140688.4,9	Tire	Certain



Attachment 2. Satellite Image of Incident Scene



Attachment 3. Anthropometric Measurements¹



¹http://www.cdc.gov/niosh/pot_anth.html

Attachment 4. Data Forms

SCENE FORM

Special Crash Investigations Not In Traffic Surveillance

Unknown = 999 Reference Items 11,12, 13, 14, 15

4. Ocean Newsbar	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
Time of Crash Code reported military time of crash.	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 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)	Non motorist sightline obstructions (Select all that apply)
O Clear-No adverse conditions O Cloudy O Rain O Snow O Fog, Smog, Smoke O Sleet, Hail (freezing rain or drizzle) O Blowing Snow O Severe Crosswinds O Blowing Sand, Soil, Dirt O Other (specify): O Unknown	O None O Other vehicles O Building O Trees O Shrubbery O Utility poles O Signs O Glare O Other (specify) O Unknown +/- 11. Grade at parked position %
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	Estimated distance from parked position to impact m Stimated speed at impact kmph
	m

VEHICLE FORM

Special Crash Investigations Not In Traffic Surveillance

1. Case Number									
		VEHICLE IDEN	ITIFICATION						
2. VIN									
3. Model Ye	ear								
4. Vehicle M	4. Vehicle Make (specify):								
5. Vehicle N	Model (specit	⁻ y):			_				
		GLAZ	ING						
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	9.	RF Tire Size						
8. LR Tire Size 10. 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

VEHICLE MEASUREMENTS					
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)					

Rev September/2007

Back Up / Parking Aid Form

Special Crash Investigations Not In Traffic Surveillance

Case Number	Video image quality under scene lighting conditions				
PARKING AID PRESENCE 2. Type of backing/parking aid present O OEM camera O OEM ultrasonic/radar sensor O OEM combination camera-ultrasonic/radar sensor O OEM Fresnel lens O OEM interior mirrors O Aftermarket camera O Aftermarket ultrasonic/radar sensor O Aftermarket rombination camera-ultrasonic radar sensor O Aftermarket Fresnel lens O Aftermarket interior mirrors	O None present O Good O Average O Poor (specify): O Unknown 8. Was the camera functioning properly O None present O Yes O No, poor image quality due to glare O No, poor image quality due to atmospheric conditions O No, camera turned off O No, camera inoperable O Unknown				
O Aftermarket interior mirrors O Other (specify):	ULTRASONIC/RADAR SENSOR Specify object detection range on diagram				
CAMERA INFORMATION Specify field of view measurements on diagram	9. System make/model				
3. System make/model	10. Auditory warning illumination				
4. Video monitor type O None present O LCD (color)	O No sensor present O Yes O No O Unknown 11. Number of sensors				
O CRT (black & white) O Unknown	12. Sensor locations				
5. Video display size cm (Diagonal) 6. Camera location O None present O Bumper O License plate	(Select all that apply) O No sensor present O Left bumper O Center bumper O Right bumper O License plate area O Tailgate/Hatch/Trunk				
O Tailgate/Hatch/Trunk O Other (specify):	O No sensor present O Yes, system alerted driver O No, system did not alert driver O No, system turned off O No, system inoperable O Unknown				

Spe	ecial Crash Investigations – Not In Traffic Surveill	ance:	Ва	ck Up	/ Park	ing Ai	d For	m	Pa	ige 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									

Rev September/2007

DRIVER FORM

1. Case Number	10. Driver entry interruption (Select all that apply)
<u> </u>	O Direct trip from building to vehicle
DRIVER PROFILE	O Loaded items into vehicle O Spoke with family
2. Driver's Age 99 = Unknown	O Spoke with neighborsO Spoke with contacted nonmotorist
3. Driver's Sex O Male O Female O Unknown	O Return trip (backing into driveway/lot) O Other (specify): O N/A Unknown
4. Driver's Height cm 999 = Unknown	Purpose of backing Leaving parking space in parking lot
5. Driver's Weight kg 999 = Unknown	O Backing onto roadway from driveway O Entering parking space in parking lot O Backing into driveway from roadway
6. Driver eyewear worn (Select all that apply) O None O Eyeglasses O Sunglasses O Contacts	O Other (specify): O N/A Unknown 12. Where was driver going Description:
O Unknown 7. Driver vision deficiency condition	
(Select all that apply) O None O Near sighted	13. Driver in a hurry
O Far sighted O Astigmatism O Other (specify) O Unknown	O Yes N/A O No Unknown O Unknown
Non motorist's relationship to driver O No relationship O Child	14. How did driver check behind (rear area of vehicle) after vehicle entry (Select all that apply)
O Grandchild O Sibling	O Did not look O Checked mirrors
O Neighbor O Friend O Other (specify):	O Turned right and looked back O Turned left and looked back Viewed Camera
O Unknown DRIVER ACTIONS	Listened for auditory/visual warning from system
Driver approach to vehicle for entry From left front	O Other (specify): N/A Unknown
O From left O From left rear O From right rear O From right front O Circled vehicle	Estimated time between vehicle entry and start of backing
O Return trip (backing into driveway/lot) O Other (specify): O N/A O Unknown	O 0-10 Seconds O 11-30 Seconds O 31-60 Seconds Unknown

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 shipet incide 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): Unknown
	O At object inside the car O At mirrors	20.	Est time between start of backing and impact
17.	O Other (specify):O N/A Unknown 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 External	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 Pillar O Other occupant O Headrest O Other (specify) O Cargo O Unknown None
	O Other external focus (specify): 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 Reading/adjusting navigation system O Eating or drinking O Smoking related O Retrieving fallen object (specify): O Internal focus, not specified O Focused on other internal object		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) None District Street		O No drugs or alcohol present O Alcohol present (specify BAC): O Drugs present (specify): O Unknown
	O Steering left 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

Non Motorist Form

Special Crash Investigations Not In Traffic Surveillance

1.	Case Number		11. Non-motorist motion
2		nths	 O Not moving O Walking slowly O Walking rapidly O Running or jogging O Skipping/Hopping/Jumping
	Non-motorist's Age 99 = Unknown Non-motorist's Sex O Male	ars	O Falling/Stumbling/Rising O On skates/skateboard O On bike/scooter
	O Female O Unknown		O Other (specify): O Unknown
4.	Non-motorist's Height cm 999 = Unknown		12. Non-motorist approach relative to rear of vehicleO Stationary
5.	Non-motorist's Weight kg 999 = Unknown kg		O From left O From right
6.	Medical outcome		O From behind O Other (specify): O Unknown
	O Not injured O ER only O Hospitalized 1-4 days		13. Non-motorist first avoidance action
	O Hospitalized 5 days or more O Treatment later O Fatal		O No avoidance actions O Stopped O Accelerated pace
7	O Unknown Source of most severe injury		O Ran away (along vehicle path) O Jumped O Turned away from vehicle
7.	Bumper O Tire O Undercarriage		O Turned toward vehicle and braced O Dove or fell away from vehicle O Other (specify):
	O Other Specify: O Ground O N/A		O Unknown 14. Non-motorist primary focus of attention
8.	Unknown Non-motorist impairment (Select all that apply)		O Striking vehicle O Play object
	O No drugs or alcohol present O Positive for alcohol (specify BAC): O Positive for drugs (specify):		O Person O Surrounding traffic O Animal
9.	O Unknown Source of alcohol/drug results		O Handheld electronic (phone, MP3 player, etc.) O Other Object (specify) O Unknown
	Police reported Medical Report O Other (specify)		15. Were any other Non-motorists present? (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 addits present O Multiple children present O Unknown
	O Standing O On skates/skateboard O Bending at waist O On bike/scooter O Sitting O Other (specify) O Crouching O Unknown O Kneeling		

NON MOTORIST CLOTHING

NOTES:

- Specify Color, Fabric and Texture/Weight for outermost layer only
- Indicate "NONE" if applicable
- Available codes:

Colo	<u>rs</u>	<u>Fabrics</u>	<u>Textures</u>	<u>Weights</u>
Black	Charcoal gray	Natural	Soft	Heavy
Lt gray/silver	Brown	Synthetic	Slick	Medium
Gold/tan	Purple	Blend	Coarse	Light
Dark blue	Light blue			_
Dark green	Light green			
Maroon	Red			
Orange	Yellow			

White Other (specify)

Clothing	Color	Fabric	Texture	Weight					
Hat									
Helmet									
Hood									
Other (specify):									
Short Sleeve									
Long Sleeve									
Light Jacket									
Heavy Jacket									
Other (Specify):									
Shorts									
Pants									
Shoes									
Other (specify):									
	Helmet Hood Other (specify): Short Sleeve Long Sleeve Light Jacket Heavy Jacket Other (Specify): Shorts Pants Shoes	Hat Helmet Hood Other (specify): Short Sleeve Long Sleeve Light Jacket Heavy Jacket Other (Specify): Shorts Pants Shoes	Hat Helmet Hood Other (specify): Short Sleeve Long Sleeve Light Jacket Heavy Jacket Other (Specify): Shorts Pants Shoes	Hat Helmet Hood Other (specify): Short Sleeve Long Sleeve Light Jacket Heavy Jacket Other (Specify): Shorts Sleeve					