

Remote Not-In-Traffic Surveillance Hyperthermia Investigation
Dynamic Science, Inc. (DSI), Case Number DS09024
1998 Toyota Camry
Washington
April 2009

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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 investigation focused on the circumstances surrounding the death of a 13-month-old male who was left unattended in a 1998 Toyota Camry. The child was restrained in a forward-facing Child Restraint System (CRS) in the second row left position of the Toyota during a trip from the driver's residence to her place of work. The driver was the mother of the child. Her normal practice was to drop the child off at a daycare facility on the way to work, but on the day of the incident she took a route that bypassed the day care center. When the driver arrived at work, she parked the vehicle, entered her place of work, and left the child unattended in the vehicle. The incident occurred between 0710 and 1418 hours. During those hours, the driver remained in her place of work and forgot that her son was in the vehicle. Soon after 1400 hours, the driver remembered that she had not dropped the child off at the day care facility. She went to the vehicle and found the child non-responsive. A call was placed to 911 and paramedics arrived on-scene but determined that the child had died prior to their arrival.			
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Dynamic Science, Inc.
Crash Investigation
Case Number: DS09024

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BACKGROUND

This remote investigation focused on the circumstances surrounding the death of a 13-month-old male who was left unattended in a 1998 Toyota Camry (**Figure 1**). The child had been placed in a forward-facing Child Restraint System (CRS) in the second row left position of the vehicle during a trip from the driver's residence to her place of work. The driver was the mother of the child. Her normal practice was to drop the child off at a daycare facility on the way to work, but on the day of the incident she took a route that bypassed the day care center. When the driver arrived at work, she parked the vehicle, entered her place of work, and left the child unattended in the vehicle. The incident occurred between 0710 and 1418 hours. During those hours, the driver remained in her place of work and forgot that her son was in the vehicle. Soon after 1400 hours, the driver remembered that she had not dropped the child off at the day care facility. She went to the vehicle and found the child non-responsive. A call was placed to 911 and paramedics arrived on-scene but determined that the child had died prior to their arrival.



Figure 1. Subject vehicle, 1998 Toyota Camry (on right)

This remote Not-in-Traffic Surveillance (NiTS) hyperthermia investigation was initiated by DSI in response to an internet news article reporting the death of an 13-month-old male child who was left unattended in a Toyota Camry in Washington state. DSI notified the National Highway Traffic Safety Administration (NHTSA) on April 7, 2009. DSI was instructed to contact the investigating police agency to obtain additional information about the cause of death. On June 16, 2009 DSI received a copy of the county medical examiner's record of the incident and was assigned the case on June 17, 2009. The following information was obtained from the police incident report, the medical examiner's record, and several news articles. No interview was obtained. According to the police records department, this incident was entered into the state traffic fatality database.

SUMMARY

Incident Site

The incident occurred in the parking lot of an assisted care facility. The Toyota was parked facing north in a marked stall in a parking lot (**Figure 2**). The parking stalls were located north of the driver's place of work. A 8.8 m (29 ft) wide east/west roadway was situated between the parking stalls and the building where the driver worked. The distance from the vehicle to the front of the building was approximately 11.2 m (37 ft). A white sport utility vehicle was parked parallel to,



Figure 2. Overview of incident site. Arrow indicates location of subject vehicle. (Police photo)

and left of, the Toyota. The parking stall was bounded on the right by low-lying ground cover and on the front by shrubbery that was approximately 40 cm (15.7 in) high. The 13-month-old child was left unattended in the subject vehicle from 0710 to 1418 hours. According to the nearest weather reporting station, the ambient temperature ranged from 8 degrees C (47 degrees F) at 0700 hours to 18 degrees C (65 degrees F) at 1400 hours. The vehicle was exposed to full sunlight and there was no shade available.

Vehicle Data

The 1998 Toyota Camry 4-door, 5-passenger sedan was identified by the Vehicle Identification Number (VIN): JT2BG22K6W0xxxxxx. The Toyota was equipped with a 2.2-liter, 4-cylinder engine and front wheel drive. The subject vehicle's exterior was burgundy in color and the vehicle was configured with a tinted sun roof (**Figure 3**). The vehicle's interior was gray in color and the seats were fabric covered.



Figure 3. Subject vehicle, 1998 Toyota Camry (news agency photo)

Incident

The driver reported that her alarm woke her at 0640 hours. She contacted the assisted living facility and notified them that she would be arriving late. She showered and then got the child ready for day care. During this time, the driver again contacted the facility to reassure them that she was hurrying. The driver's husband started the subject vehicle to warm it up and was the person who put the child in the vehicle and placed him into the Cosco forward-facing CRS in the second row left seat position (**Figure 4**). He also strapped the child into the CRS using the 5-point harness. The child was wearing a gray hooded sweatshirt, a blue T-shirt, blue pants, diaper, socks, and white tennis shoes. The driver left for work at approximately 0710-0720 hours. The distance between the driver's residence and the day care facility was 9.0 km (5.6 miles) with an estimated driving time of 10 minutes. The distance from the day care facility to her place of work was 4.7 km (2.9 miles) with an estimated driving time of 4 minutes. The total distance and total time for her normal travel was approximately 13.7 km (8.5 miles) and 14 minutes, respectively. Since she was late, the driver took a back road shortcut route to the assisted living facility that did not pass the daycare facility. The child apparently fell asleep during the trip. The driver was unsure what time she arrived at work, but estimated that it was between 0730 and 0740 hours. The Toyota was driven into the parking lot and parked facing north with the doors locked and the windows closed. She did not park in her normal spot, but instead parked directly in front of the building where she works. The driver left the vehicle and entered her



Figure 4. CRS position in rear seat (police photo)

place of work. The police asked the driver if the day care facility would normally contact the parents if a child is not brought in. The driver indicated that the day care facility only calls when the child has not shown up for three days.

Shortly after 1400 hours, 7 hours after leaving the child, the driver remembered that she had not dropped the child off at the day care facility. She went to the vehicle and found the child non-responsive. She removed the child from the vehicle and CRS and took him into the building south of the parking area. Staff from the assisted living facility began performing CPR and a call was placed to 911. At 1418 hours, police and rescue personnel were dispatched to the incident site. The first responding police officer arrived on site at 1420 hours. The first responding police officer took over resuscitation efforts when he arrived. He indicated that he had trouble getting air into the child's lungs and that the child did not have a pulse. At approximately 1422 hours, rescue personnel arrived and continued life saving efforts. The child did not have a pulse and rigor mortis had already set in. After working on the child for a short time, medical personnel advised the child was deceased.

Post-Incident

Later that day, the police began the process of obtaining a search warrant for the subject vehicle in order to obtain interior temperature measurements. At approximately 1828 hours, the police reported a vehicle interior temperature measurement of 30.3 degrees C (86.7 degrees F) and an ambient exterior temperature of 17.6 degrees C (63.7 degrees F). At a later date, the police located a vehicle that was similar in size and color as the Toyota and parked it in the same lot. The temperature was measured by placing a thermometer on the seat cushion of the second row left seat position. The interior temperature of the vehicle varied from approximately 40 degrees C (104 degrees F) at 1605 hours, 52.6 degrees C (126.7 degrees F) at 1625 hours, and 45.7 degrees C (114.4 degrees F) at 1709 hours. The ambient temperature in the area as reported by the police ranged from 19.3 degrees C (66.9 degrees F) to 21.2 degrees C (70.3 degrees F) during the approximate 1 hour test period. The outside temperature was slightly higher than what was reported the day of the incident.

The child was examined at the scene by the medical examiner's office. The examination began at 1812 hours. The child's skin temperature was approximately 32.5 C degrees (90.5 F degrees) across his abdomen and chest at 1814 hours nearly 4 hours after the child had been removed from the vehicle. The medical examiner's record reported that the Injury Type was Accidental and the Injury Kind was Hyperthermia.

Hyperthermia Discussion

Hyperthermia is defined as an increase in body temperature. A child's thermoregulatory system is not as efficient as an adult's and child's body warms at a rate 3 to 5 times than an adult's¹. Heatstroke occurs when a person's temperature exceeds 40 degrees C (104 degrees F) and the thermoregulatory system is overwhelmed. Heatstroke symptoms include: dizziness, disorientation, agitation, confusion, sluggishness, seizure, hot dry skin that is flushed not sweaty, loss of consciousness, rapid heart beat, and hallucinations.

¹Jan Null, Hyperthermia Deaths of Children in Vehicles, ggweather.com/heat

OCCUPANT DEMOGRAPHICS**Second Row Left Occupant**

Age/Sex: 13-month/Male

Seated Position: Second row left

Seat Type: Bench with folding back

Seat track position: Not adjustable

Height: 71 cm (28 in)

Weight: 10 kg (22 lbs)

Alcohol/Drug Involvement: None

Body Posture: Seated in CRS, 5-point harness used

Hand Position: Unknown

Foot Position: Unknown

Restraint Usage: Lap and shoulder belt with forward-facing CRS

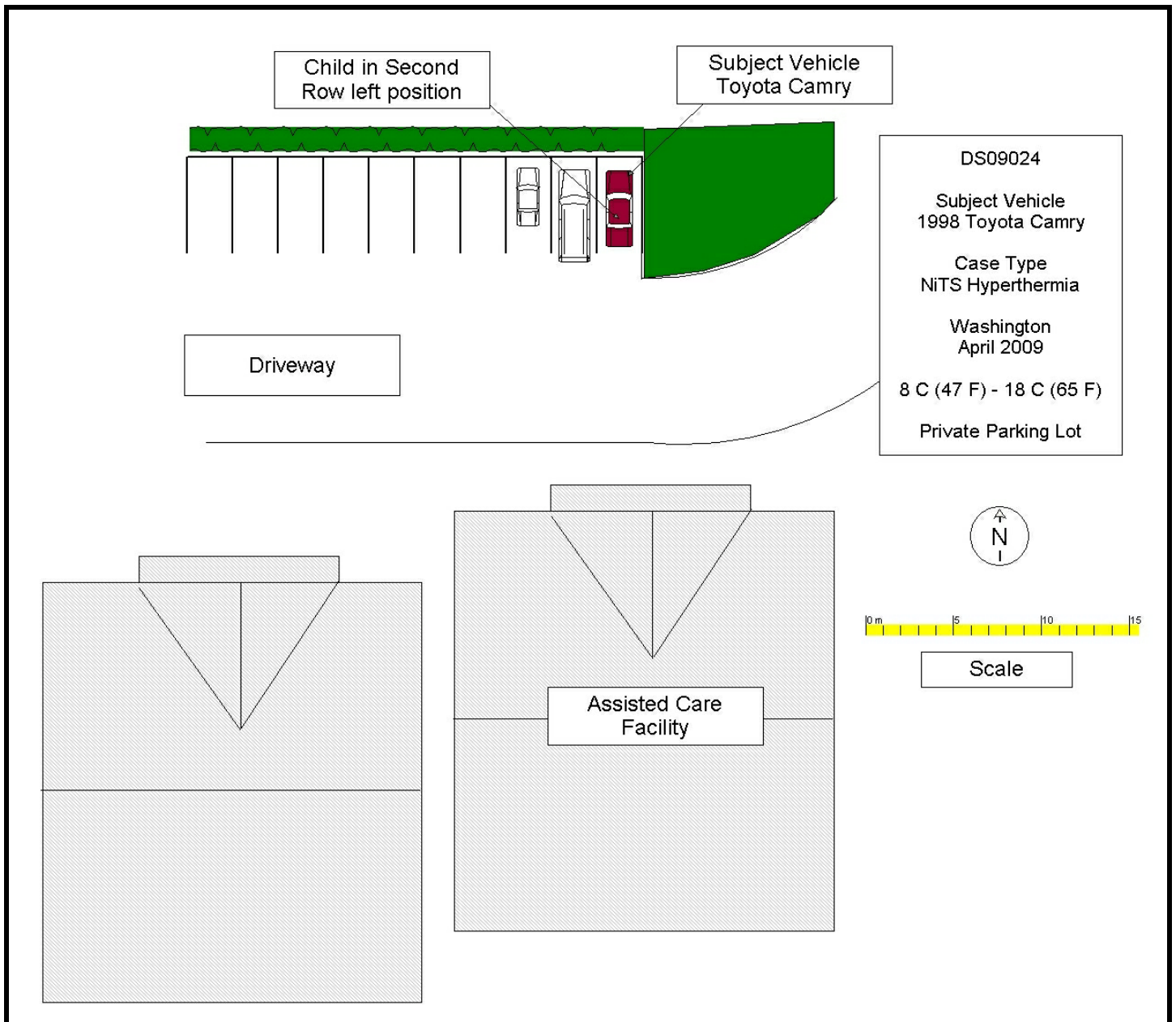
Usage Source: Law enforcement vehicle inspection and statements to police by child's father

Type of Medical Treatment: Treated at scene by emergency personnel but unable to resuscitate.

OCCUPANT INJURIES

Second Row Left Occupant Injury: Injury obtained medical record report.

<u>Injury</u>	<u>OIC Code</u>	<u>Injury Mechanism</u>	<u>Confidence Level</u>
Hyperthermia	Not Codeable	N/A	N/A

Attachment 1. Scene Diagram

Attachment 2. Field Forms



SCENE FORM

1. Case Number

IDENTIFICATION

2. Date of Crash ____ / ____ / ____

3. Time of Crash ____

Code reported military time of crash.

NOTE: Midnight = 2400
Unknown = 9999

AMBIENT CONDITIONS

4. Light Conditions

- ☐ Daylight
- ☐ Dark
- ☐ Dark but lighted
- ☐ Dawn
- ☐ Dusk
- ☐ Unknown

5. Atmospheric Conditions
(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

6. Temperature

- ☐ Below 0 degrees Celsius (Below 32 F)
- ☐ 1-10 degrees Celsius (33-50 F)
- ☐ >10-24 degrees Celsius (51-75 F)
- ☐ Over 24 degrees Celsius (Over 75 F)
- ☐ Unknown

SCENE INFORMATION

7. Type of area in which crash occurred
(Select all that apply)

- ☐ Single family residential
- ☐ Row houses/townhouses
- ☐ Multi family housing
- ☐ Commercial
- ☐ Industrial
- ☐ Rural
- ☐ Unknown

8. Driver exterior sightline obstructions
(Select all that apply)

- ☐ None
- ☐ Other vehicles
- ☐ Building
- ☐ Trees
- ☐ Shrubby
- ☐ Other (specify) _____
- ☐ Utility poles
- ☐ Signs
- ☐ Glare
- ☐ Unknown
- ☐ No driver present

9. Crash location

- ☐ Driveway
- ☐ Parking Lot
- ☐ Sidewalk
- ☐ Alley
- ☐ Intersection of driveway and sidewalk
- ☐ Road / street
- ☐ Roadside / shoulder
- ☐ Other (specify) _____
- ☐ Unknown

10. Non motorist sightline obstructions
(Select all that apply)

- ☐ None
- ☐ Other vehicles
- ☐ Building
- ☐ Trees
- ☐ Shrubby
- ☐ Utility poles
- ☐ Signs
- ☐ Glare
- ☐ Other (specify) _____
- ☐ Unknown

+ / -

11. Grade at parked position ____ %

12. Estimated distance from parked position to impact

_____ m

13. Estimated speed at impact ____ kmph
+ / -

14. Grade at impact ____ %

15. Estimated distance from impact to vehicle final rest

_____ m

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



VEHICLE FORM

1. Case Number _____

VEHICLE IDENTIFICATION

2. VIN _____

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 DATA

6. Vehicle Manufacturer Recommended Tire Size _____

7. LF Tire Size _____

9. RF Tire Size _____

8. LR Tire Size _____

10. RR Tire Size _____

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 | 8 = Pedestal (i.e. column supported) |
| 1 = Bucket | 9 = Box mounted (i.e. van type) |
| 2 = Bucket w/ folding back | 10= Other seat type (specify) |
| 3 = Bench | 99= Unknown seat type |
| 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)	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)		



Back Up / Parking Aid Form

1. Case Number

PARKING AID PRESENCE

2. Type of backing/parking aid present

- ☐ OEM camera
- ☐ OEM ultrasonic/radar sensor
- ☐ OEM combination camera-ultrasonic/radar sensor
- ☐ OEM Fresnel lens
- ☐ OEM interior mirrors
- ☐ Aftermarket camera
- ☐ Aftermarket ultrasonic/radar sensor
- ☐ Aftermarket combination camera-ultrasonic radar sensor
- ☐ Aftermarket Fresnel lens
- ☐ Aftermarket interior mirrors
- ☐ Other (specify): _____

CAMERA INFORMATION

Specify field of view measurements on diagram

3. System make/model

4. Video monitor type

- ☐ None present
- ☐ LCD (color)
- ☐ CRT (black & white)
- ☐ Unknown

5. Video display size _____ cm
(Diagonal)

6. Camera location

- ☐ None present
- ☐ Bumper
- ☐ License plate
- ☐ Tailgate/Hatch/Trunk
- ☐ Other (specify): _____

7. Video image quality under scene lighting conditions

- ☐ None present
- ☐ Good
- ☐ Average
- ☐ Poor (specify): _____
- ☐ Unknown

8. Was the camera functioning properly

- ☐ None present
- ☐ Yes
- ☐ No, poor image quality due to glare
- ☐ No, poor image quality due to atmospheric conditions
- ☐ No, camera turned off
- ☐ No, camera inoperable
- ☐ Unknown

ULTRASONIC/RADAR SENSOR

Specify object detection range on diagram

9. System make/model

10. Auditory warning illumination

- ☐ No sensor present
- ☐ Yes
- ☐ No
- ☐ Unknown

11. Number of sensors _____

12. Sensor locations
(Select all that apply)

- ☐ No sensor present
- ☐ Left bumper
- ☐ Center bumper
- ☐ Right bumper
- ☐ License plate area
- ☐ Tailgate/Hatch/Trunk

13. Was warning system functioning properly

- ☐ No sensor present
- ☐ Yes, system alerted driver
- ☐ No, system did not alert driver
- ☐ No, system turned off
- ☐ No, system inoperable
- ☐ Unknown

14. Did driver react to warning

- ☐ No sensor present
- ☐ Yes
- ☐ No
- ☐ Unknown

15. Did driver report common false warnings

- ☐ No sensor present
- ☐ Yes
- ☐ No
- ☐ Unknown



DRIVER FORM

1. Case Number

DRIVER PROFILE

2. Driver's Age

99 = Unknown

3. Driver's Sex

- ☐ Male
☐ Female
☐ Unknown

4. Driver's Height

999 = Unknown

_____ cm

5. Driver's Weight

999 = Unknown

_____ kg

6. Driver eyewear worn

(Select all that apply)

- ☐ None
☐ Eyeglasses
☐ Sunglasses
☐ Contacts
☐ Unknown

7. Driver vision deficiency condition

(Select all that apply)

- ☐ None
☐ Near sighted
☐ Far sighted
☐ Astigmatism
☐ Other (specify): _____
☐ Unknown

8. Non motorist's relationship to driver

- ☐ No relationship
☐ Child
☐ Grandchild
☐ Sibling
☐ Neighbor
☐ Friend
☐ Other (specify): _____
☐ Unknown

DRIVER ACTIONS

9. Driver approach to vehicle for entry

- From left front
☐ From left
☐ From left rear
☐ From right rear
☐ From right front
☐ Circled vehicle
☐ Return trip (backing into driveway/lot)
☐ Other (specify): _____
☐ N/A
☐ Unknown

10. Driver entry interruption
(Select all that apply)

- ☐ Direct trip from building to vehicle
☐ Loaded items into vehicle
☐ Spoke with family
☐ Spoke with neighbors
☐ Spoke with contacted nonmotorist
☐ Return trip (backing into driveway/lot)
☐ Other (specify): _____
☐ N/A
Unknown

☐ 11. Purpose of backing

- ☐ Leaving parking space in parking lot
☐ Backing onto roadway from driveway
☐ Entering parking space in parking lot
☐ Backing into driveway from roadway
☐ Other (specify): _____
☐ N/A
Unknown

12. Where was driver going

Description:

13. Driver in a hurry

- ☐ Yes N/A
☐ No Unknown
☐ Unknown

14. How did driver check behind (rear area of vehicle)
after vehicle entry

(Select all that apply)

- ☐ Did not look
☐ Checked mirrors
☐ Turned right and looked back
☐ Turned left and looked back
Viewed Camera
Listened for auditory/visual warning from
system
☐ Other (specify): _____
N/A Unknown

15. Estimated time between vehicle entry and start
of backing

- ☐ 0-10 Seconds ☐ Over 60 Seconds
☐ 11-30 Seconds ☐ N/A
☐ 31-60 Seconds Unknown

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



Non Motorist Form

1. Case Number _____

NON-MOTORIST PROFILE

2. Non-motorist's Age _____ Months
99 = Unknown

3. Non-motorist's Sex ☐ Male
☐ Female
☐ Unknown

4. Non-motorist's Height _____ cm
999 = Unknown

5. Non-motorist's Weight _____ kg
999 = Unknown

6. Medical outcome

- ☐ Not injured
- ☐ ER only
- ☐ Hospitalized 1-4 days
- ☐ Hospitalized 5 days or more
- ☐ Treatment later
- ☐ Fatal
- ☐ Unknown

7. Source of most severe injury

- Bumper
- ☐ Tire
- ☐ Undercarriage
- ☐ Other Specify: _____
- ☐ Ground
- ☐ N/A
- Unknown

8. Non-motorist impairment

- (Select all that apply)
- ☐ No drugs or alcohol present
- ☐ Positive for alcohol (specify BAC): _____
- ☐ Positive for drugs (specify): _____
- ☐ Unknown

9. Source of alcohol/drug results

- Police reported
- Medical Report
- ☐ Other (specify) _____
- ☐ Not Tested
- ☐ Unknown if tested

NON-MOTORIST ACTIONS

10. Non-motorist attitude

- ☐ Standing
- ☐ Bending at waist
- ☐ Sitting
- ☐ Crouching
- ☐ Kneeling
- ☐ On skates/skateboard
- ☐ On bike/scooter
- ☐ Other (specify) _____
- ☐ Unknown

11. Non-motorist motion

- ☐ Not moving
- ☐ Walking slowly
- ☐ Walking rapidly
- ☐ Running or jogging
- ☐ Skipping/Hopping/Jumping
- ☐ Falling/Stumbling/Rising
- ☐ On skates/skateboard
- ☐ On bike/scooter
- ☐ Other (specify): _____
- ☐ Unknown

12. Non-motorist approach relative to rear of vehicle

- ☐ Stationary
- ☐ From left
- ☐ From right
- ☐ From behind
- ☐ Other (specify): _____
- ☐ Unknown

13. Non-motorist first avoidance action

- ☐ No avoidance actions
- ☐ Stopped
- ☐ Accelerated pace
- ☐ Ran away (along vehicle path)
- ☐ Jumped
- ☐ Turned away from vehicle
- ☐ Turned toward vehicle and braced
- ☐ Dove or fell away from vehicle
- ☐ Other (specify): _____
- ☐ Unknown

14. Non-motorist primary focus of attention

- ☐ Striking vehicle
- ☐ Play object
- ☐ Person
- ☐ Surrounding traffic
- ☐ Animal
- ☐ Handheld electronic (phone, MP3 player, etc.)
- ☐ Other Object (specify) _____
- ☐ Unknown

15. Were any other Non-motorists present?

(Select all that apply)

- ☐ Alone
- ☐ One adult present
- ☐ One other child present
- ☐ Multiple adults present
- ☐ Multiple children present
- ☐ Unknown

NON MOTORIST CLOTHING**NOTES:**

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

Colors

Black	Charcoal gray
Lt gray/silver	Brown
Gold/tan	Purple
Dark blue	Light blue
Dark green	Light green
Maroon	Red
Orange	Yellow
White	Other (specify)

Fabrics

Natural
Synthetic
Blend

Textures

Soft
Slick
Coarse

Weights

Heavy
Medium
Light

	Clothing	Color	Fabric	Texture	Weight
H E A D W E A R	Hat				
	Helmet				
	Hood				
	Other (specify): _____				
U P P E R B O D Y	Short Sleeve				
	Long Sleeve				
	Light Jacket				
	Heavy Jacket				
	Other (Specify): _____				
L O W E R B O D Y	Shorts				
	Pants				
	Shoes				
	Other (specify): _____				