

MMUCC Evaluation Survey A

Introduction

The National Highway Traffic Safety Administration (NHTSA) is seeking feedback from law enforcement officers on the feasibility of collecting the crash data described in the [Model Minimum Uniform Crash Criteria \(MMUCC\) Guideline, fifth edition \(DOT HS 812 433, July 2017\)](#). As a law enforcement officer who responds to crashes and writes crash reports, your participation is important to help NHTSA identify crash data elements and concepts that can be accurately collected and others that are flawed and require revision or elimination. All responses are anonymous and will be analyzed in the aggregate. The information you provide will inform the content of the next edition of MMUCC. We estimate that it will take you approximately 60 minutes to complete the survey. NHTSA will publish a summary of this research in an appendix to the next edition of MMUCC in 2024.

This collection of information is voluntary and will be used to identify problematic crash data elements, and concepts in MMUCC. A federal agency may not conduct or sponsor, and a person is not required to respond to, nor shall a person be subject to a penalty for failure to comply with, a collection of information subject to the requirements of the Paperwork Reduction Act unless that collection of information displays a current valid OMB Control Number. The OMB Control Number for this information collection is XXXXX. Public reporting for this collection of information is estimated to be approximately 60 minutes per response, including the time for reviewing instructions, and completing and reviewing the collection of information. All responses to this collection of information are voluntary. Send comments regarding this burden estimate or any other aspect of this collection of information, including suggestions for reducing this burden, to: Information Collection Clearance Officer, National Highway Traffic Safety Administration, 1200 New Jersey Ave, S.E., Washington, DC, 20590.

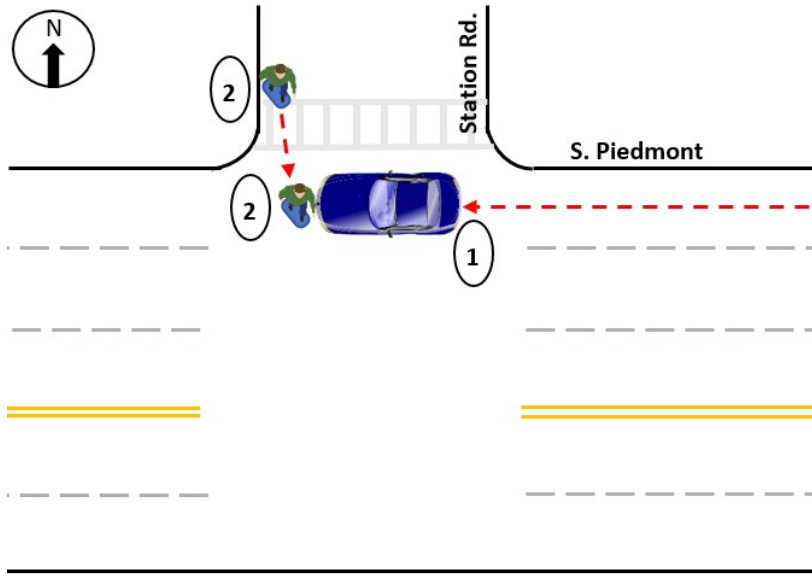
Directions

In the following exercises, several crash scenarios are described that relate to a set of MMUCC crash data elements. Select the most appropriate response for each identified crash data element in the scenarios. Please answer each question to the best of your ability.

Scenario 1:

Complete the data elements based on the following scenario and diagram.

Unit 1 was traveling Westbound on the Southbound side of Piedmont at the intersection with Station Rd. Unit 2 (pedestrian on a motorized skateboard) attempted to cross the roadway (from the north side to the south side) and was struck by unit 1 in lane 3. The pedestrian was transported to Carroll hospital. The pedestrian received minor scrapes and bruising as a result of the crash. Driver stated that he faced a green traffic signal light when the crash occurred. Witness (who was behind unit 1 in the same lane) also stated that the traffic signal light was green.



Non-Motorist Location at Time of Crash (Unit 2)

Element Definition: The location of the non-motorist with respect to the roadway at the time of the crash.

- Intersection - Marked Crosswalk
- Intersection - Unmarked Crosswalk
- Intersection - Other
- Median/Crossing Island
- Shoulder/Roadside
- Travel Lane - Other Location
- Other
- Unknown

Total Lanes in Roadway - Through Lanes (Unit 1)

Element Definition: Total number of lanes in the roadway on which this motor vehicle was traveling. Through lanes also include shared through/turn lanes but exclude turn-only lanes' auxiliary lanes, such as collector-distributor lanes, weaving lanes, frontage road lanes, parking lanes, acceleration/deceleration lanes, toll collection lanes, and truck climbing lanes. Total lanes are collected in two parts as total through lanes and total auxiliary lanes.

- 0 Lanes
- 1 Lane
- 2 Lanes
- 3 Lanes

- e) 4 Lanes
- f) 5 Lanes
- g) 6 Lanes

Total Lanes in Roadway - Auxiliary Lanes (Unit 1)

Element Definition: Total number of lanes in the roadway on which this motor vehicle was traveling. Through lanes also include shared through/turn lanes but exclude turn-only lanes' auxiliary lanes, such as collector-distributor lanes, weaving lanes, frontage road lanes, parking lanes, acceleration/deceleration lanes, toll collection lanes, and truck climbing lanes. Total lanes are collected in two parts as total through lanes and total auxiliary lanes.

- a) 0 Lanes
- b) 1 Lane
- c) 2 Lanes
- d) 3 Lanes
- e) 4 Lanes
- f) 5 Lanes
- g) 6 Lanes

Type of intersection - Subfield 1: Number of Approaches

Element Definition: An intersection consists of two or more roadways that intersect at the same level.

- a) Not an Intersection
- b) (2) Two
- c) (3) Three
- d) (4) Four
- e) (5+) Five or more

Type of intersection - Subfield 2: Overall Intersection Geometry

Element Definition: An intersection consists of two or more roadways that intersect at the same level.

- a) Angled/Skewed
- b) Roundabout/Traffic Circle
- c) Perpendicular
- d) Not Applicable/Not an Intersection

Type of intersection - Subfield 3: Overall Traffic Control Device

Element Definition: An intersection consists of two or more roadways that intersect at the same level.

- a) Signalized
- b) Stop - All Way
- c) Stop - Partial
- d) Yield
- e) No Controls
- f) Not Applicable/Not an Intersection

Direction of Travel before Crash (Unit 1)

Element Definition: The direction of a motor vehicle's travel on the roadway before the crash. Notice that this is not a compass direction, but a direction consistent with the designated

direction of the road. For example, the direction of a State-designated North-South highway must be either northbound or southbound even though a motor vehicle may have been traveling due east as a result of a short segment of the highway having an east-west orientation.

- a) Not on Roadway
- b) Northbound
- c) Eastbound
- d) Southbound
- e) Westbound
- f) Unknown

Person Type (Unit 2)

Element Definition: Type of person involved in a crash.

- a) Driver
- b) Passenger
- c) Occupant of Motor Vehicle Not in Transport
- d) Bicyclist
- e) Other Cyclist
- f) Pedestrian
- g) Other Pedestrian (wheelchair, person in a building, skater, personal conveyance, etc.)
- h) Occupant of a Non-Motor Vehicle Transport Device
- i) Unknown Type of Non-Motorist
- j) Unknown

Non-Motorist Action/Circumstances Prior to Crash (Unit 2)

Element Definition: The action of the non-motorist immediately prior to the crash

- a) None
- b) Stationary and Adjacent to Roadway (e.g., Shoulder, Median, Sidewalk)
- c) Crossing Roadway
- d) In Roadway - Other
- e) Waiting to Cross Roadway
- f) Walking/Cycling Along Roadway Against Traffic (In or Adjacent to Travel Lane)
- g) Walking/Cycling Along Roadway with Traffic (In or Adjacent to Travel Lane)
- h) Walking/Cycling on Sidewalk
- i) Working in Trafficway (Incident Response)
- j) Other
- k) Unknown

Non-Motorist Contributing Action(s)/Circumstance(s) (Unit 2)

Element Definition: The actions/circumstances of the non-motorist that may have contributed to the crash. This data element is based on the judgment of the law enforcement officer investigating the crash.

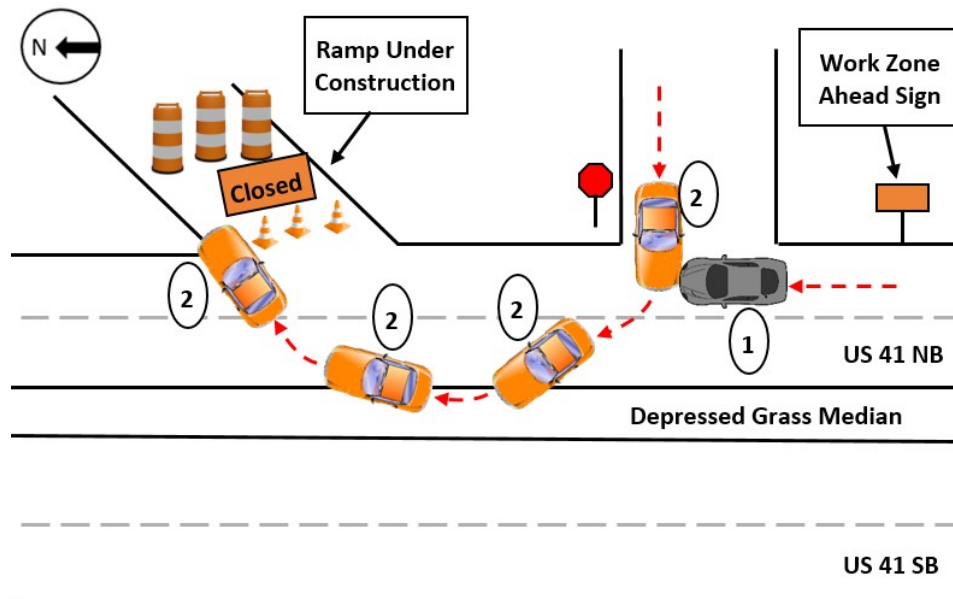
Select up to 2

- € None (No Improper Action)
- € Dart/Dash
- € Failure to Obey Traffic Signs, Signals, or Officer
- € Failure to Yield Right-Of-Way
- € Improper Turn/Merge

- € Inattentive (Talking, Eating, etc.)
- € In Roadway Improperly (Standing, Lying, Working, Playing)
- € Not Visible (Dark Clothing, No Lighting, etc.)
- € Wrong-Way Riding or Walking
- € Other
- € Unknown

Scenario 2:

Complete the data elements based on the following diagram.



Relation to Junction

Element Definition: The coding of this data element is based on the location of the First Harmful Event of the crash. It identifies the crash's location with respect to presence in a junction or proximity to components typically in junction or interchange areas.

- Non-Junction
- Acceleration/Deceleration Lane
- Crossover-Related
- Driveway Access or Related
- Entrance/Exit Ramp or Related
- Intersection or Related
- Railway Grade Crossing
- Shared-Use Path or Trail
- Through Roadway
- Other Location Not Listed Above Within an Interchange Area (median, shoulder, and roadside)
- Unknown

Work Zone-Related - Subfield 1: Was the crash in a construction, maintenance, or utility work zone or was it related to activity within a work zone?

Element Definition: A crash that occurs in or related to a construction, maintenance, or utility work zone, whether workers were present at the time of the crash or not. "Work zone-related" crashes may also include those involving motor vehicles slowed or stopped because of the work zone, even if the First Harmful Event occurred before the first warning sign.

- No
- Yes
- Unknown

Work Zone-Related - Subfield 2: Location of the Crash

Element Definition: A crash that occurs in or related to a construction, maintenance, or utility work zone, whether workers were present at the time of the crash or not. "Work zone-related" crashes may also include those involving motor vehicles slowed or stopped because of the work zone, even if the First Harmful Event occurred before the first warning sign.

- a) Before the First Work Zone Warning Sign
- b) Advance Warning Area
- c) Transition Area
- d) Activity Area
- e) Termination Area
- f) Not Applicable/Not Within or Related to a Work Zone

Work Zone-Related - Subfield 3: Type of Work Zone

Element Definition: A crash that occurs in or related to a construction, maintenance, or utility work zone, whether workers were present at the time of the crash or not. "Work zone-related" crashes may also include those involving motor vehicles slowed or stopped because of the work zone, even if the First Harmful Event occurred before the first warning sign.

- a) Lane Closure
- b) Lane Shift/Crossover
- c) Work on Shoulder or Median
- d) Intermittent or Moving Work
- e) Other Type of Work Zone
- f) Not Applicable/Not Within or Related to a Work Zone

Total Lanes in Roadway - Through Lanes (Unit 1)

Element Definition: Total number of lanes in the roadway on which this motor vehicle was traveling. Through lanes also include shared through/turn lanes but exclude turn-only lanes' auxiliary lanes, such as collector-distributor lanes, weaving lanes, frontage road lanes, parking lanes, acceleration/deceleration lanes, toll collection lanes, and truck climbing lanes. Total lanes are collected in two parts as total through lanes and total auxiliary lanes.

- a) 0 Lanes
- b) 1 Lane
- c) 2 Lanes
- d) 3 Lanes
- e) 4 Lanes
- f) 5 or more Lanes

Total Lanes in Roadway - Auxiliary Lanes (Unit 1)

Element Definition: Total number of lanes in the roadway on which this motor vehicle was traveling. Through lanes also include shared through/turn lanes but exclude turn-only lanes' auxiliary lanes, such as collector-distributor lanes, weaving lanes, frontage road lanes, parking lanes, acceleration/deceleration lanes, toll collection lanes, and truck climbing lanes. Total lanes are collected in two parts as total through lanes and total auxiliary lanes.

- a) 0 Lanes
- b) 1 Lane
- c) 2 Lanes
- d) 3 Lanes
- e) 4 Lanes

- f) 5 or more Lanes

Trafficway Description Subfield 1: Travel Directions (Unit 1)

Element Definition: Indication of whether the trafficway for this vehicle is divided, whether it serves one-way or two-way traffic, and the type of lane this vehicle was using. Subfield 1 identifies whether the trafficway associated with this vehicle serves one-way or two-way traffic.

- a) One-Way
- b) Two-Way

Trafficway Description - Subfield 2: Divided? (Unit 1)

Element Definition: Indication of whether the trafficway for this vehicle is divided, whether it serves one-way or two-way traffic, and the type of lane this vehicle was using. Subfield 2 identifies whether or not the trafficway for this vehicle is divided.

- a) Not Divided
- b) Not Divided, with a Continuous Left-Turn Lane
- c) Divided, Flush Median (greater than 4ft wide)
- d) Divided, Raise Median (curbed)
- e) Divided, Depressed Median
- f) Unknown

Large Vehicle 1:

Complete the data elements for the following vehicle.



Vehicle Configuration

Element Definition: Indicates the general configuration of this motor vehicle.

- a) Vehicle 10,000 lbs. or Less Placarded for Hazardous Materials
- b) Bus/Large Van (seats for 9-15 occupants, including driver)
- c) Bus (seats more than 15 occupants, including driver)
- d) Single-Unit Truck (2-axle and GVWR > 10,000 lbs.)
- e) Single-Unit Truck (3 or more axles)
- f) Truck Pulling Trailer(s)
- g) Truck Tractor (Bobtail)
- h) Truck Tractor/Semi-Trailer
- i) Truck Tractor/Double
- j) Truck Tractor/Triple
- k) Vehicle More Than 10,000 lbs., Other
- l) Qualifying Vehicle, Unknown Configuration
- m) Unknown

Cargo Body Type

Element Definition: The type of body for buses and trucks more than 10,000 GVWR.

- a) No Cargo Body (bobtail, light motor vehicle with hazardous materials placard, etc.)
- b) Bus
- c) Auto Transporter
- d) Cargo Tank
- e) Concrete Mixer
- f) Dump
- g) Flatbed
- h) Garbage/Refuse
- i) Grain/Chips/Gravel
- j) Intermodal Container Chassis
- k) Log
- l) Pole-Trailer
- m) Van/Enclosed Box
- n) Vehicle Towing Another Vehicle

- o) Not Applicable (motor vehicle 10,000 lbs. or less, not displaying hazardous materials placard)
- p) Other
- q) Unknown

Large Vehicle 2:

Complete the data elements for the following vehicle.



Vehicle Configuration

Element Definition: Indicates the general configuration of this motor vehicle.

- a) Vehicle 10,000 lbs. or Less Placarded for Hazardous Materials
- b) Bus/Large Van (seats for 9-15 occupants, including driver)
- c) Bus (seats more than 15 occupants, including driver)
- d) Single-Unit Truck (2-axle and GVWR > 10,000 lbs.)
- e) Single-Unit Truck (3 or more axles)
- f) Truck Pulling Trailer(s)
- g) Truck Tractor (Bobtail)
- h) Truck Tractor/Semi-Trailer
- i) Truck Tractor/Double
- j) Truck Tractor/Triple
- k) Vehicle More Than 10,000 lbs., Other
- l) Qualifying Vehicle, Unknown Configuration
- m) Unknown

Cargo Body Type

Element Definition: The type of body for buses and trucks more than 10,000 GVWR.

- a) No Cargo Body (bobtail, light motor vehicle with hazardous materials placard, etc.)
- b) Bus
- c) Auto Transporter
- d) Cargo Tank
- e) Concrete Mixer
- f) Dump
- g) Flatbed
- h) Garbage/Refuse
- i) Grain/Chips/Gravel
- j) Intermodal Container Chassis
- k) Log
- l) Pole-Trailer
- m) Van/Enclosed Box
- n) Vehicle Towing Another Vehicle
- o) Not Applicable (motor vehicle 10,000 lbs. or less, not displaying hazardous materials placard)
- p) Other

q) Unknown

Format Review: Type of Intersection

Review two different formats for the data element "Type of Intersection."

Element Definition: An intersection consists of two or more roadways that intersect at the same level.

Type of Intersection – A

Subfield 1: Number of Approaches

- Not an Intersection
- (2) Two
- (3) Three
- (4) Four
- (5+) Five or More

Subfield 2: Overall Intersection Geometry

- Angled/Skewed
- Roundabout/Traffic Circle
- Perpendicular
- Not Applicable/Not an Intersection

Subfield 3: Overall Traffic Control Device

- Signalized
- Stop – All Way
- Stop – Partial
- Yield
- No Controls
- Not Applicable/Not an Intersection

Type of Intersection – B

- Not an Intersection
- Four-way Intersection
- T-Intersection
- Y-Intersection
- L-Intersection
- Traffic Circle
- Roundabout
- Five Point, or more
- Other Intersection Type
- Unknown Intersection Type

Which format would you prefer to see on a crash report form?

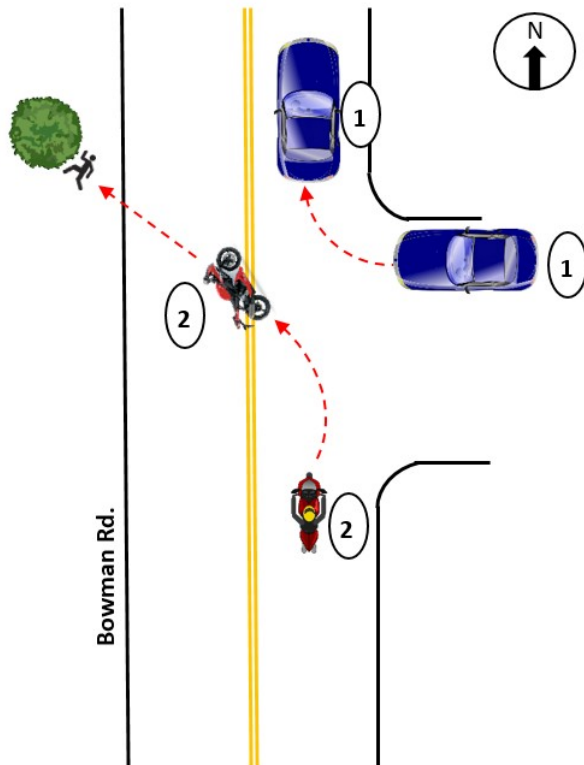
- a) Type of Intersection – A
- b) Type of Intersection – B

Explain your preference

Scenario 3:

Complete the data elements based on the following scenario and diagram.

The driver of Vehicle 1 (blue car) did not see Vehicle 2 (motorcycle) and turned right onto Bowman Rd. Vehicle 2 (motorcycle) swerved to avoid Vehicle 1 and lost control. The driver of Vehicle 2 laid down the motorcycle and they both began to slide. The driver became separated, flew off the left side of the roadway, and struck a tree. The motorcycle remained on the roadway. The driver of Vehicle 2 sustained minor abrasive injuries from the impact with the road and life-threatening injuries from the impact with the tree.



First Harmful Event

Element Definition: The first harmful event is defined as the first injury- or damage-producing event of the crash.

- Fell/Jumped from Motor Vehicle
- Overtake/Rollover
- Motor Vehicle In-Transport
- Struck by Falling, Shifting Cargo or Anything Set in Motion by Motor Vehicle
- Tree (standing)

Sequence of Events (Unit 2)

Element Definition: The sequence of events are events in sequence related to this motor vehicle, including non-harmful events, non-collision harmful events, and collision events.

1. Separation of Units, 2. Cross Centerline, 3. Ran Off Roadway Left, 4. Tree (Standing)
1. Fell/Jumped from Motor Vehicle, 2. Cross Centerline, 3. Ran Off Roadway Left, 4. Tree (standing)

- c) 1. Overturn/Rollover, 2. Ran Off Roadway Left, 3. Tree (standing)
- d) 1. Overturn/Rollover, 2. Cross Centerline, 3. Tree (standing)
- e) 1. Motor Vehicle In-Transport, 2. Overturn/Rollover, 3. Tree (standing)

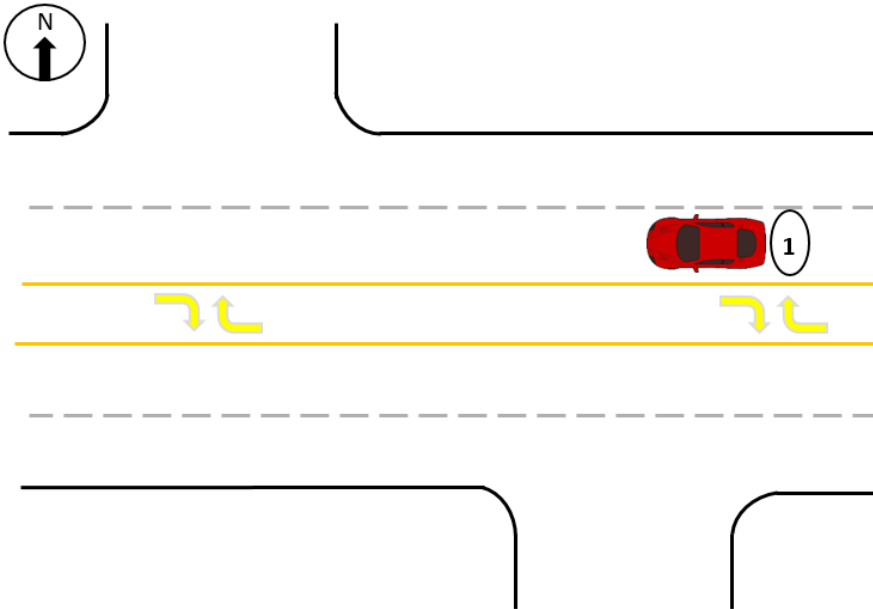
Most Harmful Event for This Motor Vehicle (Unit 2)

Element Definition: Event that resulted in the most severe injury or, if no injury, the greatest property damage involving this motor vehicle.

- a) Overturn/Rollover
- b) Fell/Jumped from Motor Vehicle
- c) Tree (standing)
- d) Motor Vehicle In-Transport

Scenario 4:

Complete the following data elements for Unit 1 in this example.



Total Lanes in Roadway - Through Lanes (Unit 1)

Element Definition: Total number of lanes in the roadway on which this motor vehicle was traveling. Through lanes also include shared through/turn lanes but exclude turn-only lanes' auxiliary lanes, such as collector-distributor lanes, weaving lanes, frontage road lanes, parking lanes, acceleration/deceleration lanes, toll collection lanes, and truck climbing lanes. Total lanes are collected in two parts as total through lanes and total auxiliary lanes.

- a) 0 Lanes
- b) 1 Lane
- c) 2 Lanes
- d) 3 Lanes
- e) 4 Lanes
- f) 5 or more Lanes

Total Lanes in Roadway - Auxiliary Lanes (Unit 1)

Element Definition: Total number of lanes in the roadway on which this motor vehicle was traveling. Through lanes also include shared through/turn lanes but exclude turn-only lanes' auxiliary lanes, such as collector-distributor lanes, weaving lanes, frontage road lanes, parking lanes, acceleration/deceleration lanes, toll collection lanes, and truck climbing lanes. Total lanes are collected in two parts as total through lanes and total auxiliary lanes.

- a) 0 Lanes
- b) 1 Lane
- c) 2 Lanes
- d) 3 Lanes
- e) 4 Lanes
- f) 5 or more Lanes

Trafficway Description Subfield 1: Travel Directions (Unit 1)

Element Definition: Indication of whether the trafficway for this vehicle is divided, whether it serves one-way or two-way traffic, and the type of lane this vehicle was using. Subfield 1 identifies whether the trafficway associated with this vehicle serves one-way or two-way traffic.

- a) One-Way
- b) Two-Way

Trafficway Description - Subfield 2: Divided? (Unit 1)

Element Definition: Indication of whether the trafficway for this vehicle is divided, whether it serves one-way or two-way traffic, and the type of lane this vehicle was using. Subfield 2 identifies whether or not the trafficway for this vehicle is divided.

- a) Not Divided
- b) Not Divided, with a Continuous Left-Turn Lane
- c) Divided, Flush Median (greater than 4ft wide)
- d) Divided, Raise Median (curbed)
- e) Divided, Depressed Median
- f) Unknown

Scenario 5:

Complete the data element **Special Function of Motor Vehicle in-Transport** for the vehicle in each example.

Element Definition: The type of special function being served by this motor vehicle in-transport regardless of whether the function is marked on the vehicle or aligns to the body type, at the time of the crash. For example, a 15-Passenger van being used as a school bus.

Example 1: A school bus body type, privately-owned, and converted to transport a music band cross-country.

- a) No Special Function
- b) Charter/Tour Bus
- c) Childcare/Daycare Bus
- d) Fire Truck
- e) Police
- f) Rental Truck (Over 10,000 lbs.)
- g) Transit/Commuter Bus

Example 2: A privately-owned minivan used by a parent to transport 6 neighborhood children to school.

- a) No Special Function
- b) Charter/Tour Bus
- c) Childcare/Daycare Bus
- d) Fire Truck
- e) Police
- f) Rental Truck (Over 10,000 lbs.)
- g) Transit/Commuter Bus

Example 3: An off-duty police vehicle.

- a) No Special Function
- b) Police
- c) Other Incident Response
- d) Safety Service Patrols – Incident Response

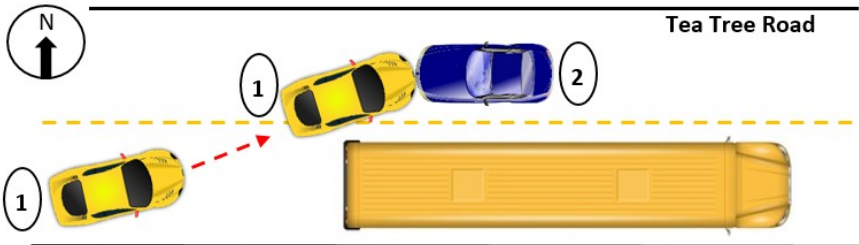
Example 4: An off-duty taxi.

- a) No Special Function
- b) Taxi
- c) Vehicle Used for Electronic Ride-hailing (transportation network company)

Scenario 6:

Complete the data elements for Unit 1 (yellow vehicle) based on the following scenario and diagram.

Unit 1 (yellow vehicle) was traveling east on Tea Tree Road behind a school bus. Unit 2 (blue vehicle) was traveling west on Tea Tree Road. The school bus slowed to a stop to let children off and extended the stop sign arm and turned on the flashing lights. Unit 2 had begun passing the school bus prior to the school bus stopping. The driver of Unit 1 had been changing the radio station in the vehicle and did not notice the school bus slowing. The driver of Unit 1 looked up from the radio, saw the bus had stopped, quickly swerved into the oncoming lane to avoid the bus, and impacted Unit 2.



School Bus Related

Element Definition: Indicates whether a school bus or motor vehicle functioning as a school bus for a school-related purpose is involved in the crash. The "school bus," with or without a passenger on board, must be directly involved as a contact motor vehicle or indirectly involved as a non-contact motor vehicle (children struck when boarding or alighting from the school bus, two vehicles colliding as the result of the stopped school bus, etc.).

- No
- Yes, School Bus Directly Involved
- Yes, School Bus Indirectly Involved

Attempted Avoidance Maneuver (Unit 1)

Element Definition: This element identifies movements/actions taken by the driver after the driver realizes there is an impending danger. This element assesses what the driver action was in response to his/her realization.

- No Driver Present/Unknown if Driver Present
- Accelerating and Steering Left
- Accelerating and Steering Right
- Braking and Steering Left
- Braking and Steering Right
- Braking (Lockup)
- Braking (Lockup Unknown)
- Braking (No Lockup)
- No Avoidance Maneuver
- Releasing Brakes
- Steering Left
- Steering Right
- Lay Down Motorcycle
- Other Actions
- Unknown

Driver Actions at Time of Crash (Unit 1)**Select up to 4**

Element Definition: The actions by the driver that may have contributed to the crash. This data element is based on the judgment of the law enforcement officer investigating the crash and need not match Violation Codes.

- € No Contributing Action
- € Failed to Keep in Proper Lane
- € Failed to Yield Right-of-Way
- € Improper Passing
- € Operated Motor Vehicle in Inattentive, Careless, Negligent, or Erratic Manner
- € Other Contributing Action
- € Disregarded Other Traffic Sign
- € Followed Too Closely
- € Swerved or Avoided Due to Wind, Slippery Surface, Motor Vehicle, Object, Non-Motorist, or Animal in Roadway, etc.

Distracted By, Subfield 1: Action (Unit 1)

Element Definition: Distractions that may have influenced driver/non-motorist performance, involving both an action taken by the driver/non-motorist and the source of the distraction.

- a) Not Distracted
- b) Talking/Listening
- c) Manually Operating (texting, dialing, playing game, etc.)
- d) Other Action (looking away from task, etc.)
- e) Unknown

Distracted By, Subfield 2: Source (Unit 1)

Element Definition: Distractions that may have influenced driver/non-motorist performance, involving both an action taken by the driver/non-motorist and the source of the distraction.

- a) Hands-Free Mobile Phone
- b) Hand-Held Mobile Phone
- c) Other Electronic Device
- d) Vehicle-Integrated Device
- e) Passenger/Other Non-Motorist
- f) External (to vehicle/non-motorist area)
- g) Other Distraction (animal, food, grooming)
- h) Not Applicable (Not Distracted)
- i) Unknown

Directions

In the following exercises you will be asked to review crash data elements and answer two questions about each.

1.) Please rate the following statements for this data element using a scale of 1-5, with 1 meaning Strongly Agree and 5 meaning Strongly Disagree.

- This data element is clearly defined and understandable.
- This data element can be collected at the scene of a crash.
- This data element can be completed based on facts, not speculation.
- This data element has a reasonable number of selections.

2.) Reflecting on your answers above, could this data element be improved? If so, how?

Please answer each question to the best of your ability. The more detailed the answer, the more helpful it will be toward improving future editions of the MMUCC guidelines.

Data Element Review: Type of Intersection

Review the data element and answer the following questions.

Type of Intersection

Element Definition: An intersection consists of two or more roadways that intersect at the same level.

Subfield 1: Number of Approaches

Selections (Select 1):

- Not an Intersection
- (2) Two
- (3) Three
- (4) Four
- (5+) Five or more

Subfield 2: Overall Intersection Geometry

Selections (Select 1):

- Angled/Skewed
- Roundabout/Traffic Circle
- Perpendicular
- Not Applicable/Not an Intersection

Subfield 3: Overall Traffic Control Device

Selections (Select 1):

- Signalized
- Stop – All Way
- Stop – Partial
- Yield
- No Controls
- Not Applicable/Not an Intersection

Please rate the following statements for this data element using a scale of 1-5, with 1 meaning Strongly Agree and 5 meaning Strongly Disagree.

	1-Strongly Agree	2-Agree	3-Neutral	4-Disagree	5-Strongly Disagree
This data element is clearly defined and understandable					
This data element can be collected at the scene of a crash					
This data element can be completed based on facts, not speculation					
This data element has a reasonable number of selections					

Reflecting on your answers above, could this data element be improved? If so, how?

Data Element Review: Attempted Avoidance Maneuver

Review the data element and answer the following questions.

Attempted Avoidance Maneuver

Element Definition: This element identifies movements/actions taken by the driver after the driver realizes there is an impending danger. This element assesses what the driver's action was in response to this realization.

Selections (Select 1):

- No Driver Present/Unknown if Driver Present
- Accelerating
- Accelerating and Steering Left
- Accelerating and Steering Right
- Braking and Steering Left
- Braking and Steering Right
- Braking (Lockup)
- Braking (Lockup Unknown)
- Braking (No Lockup)
- No Avoidance Maneuver
- Releasing Brakes
- Steering Left
- Steering Right
- Lay Down Motorcycle
- Other Actions
- Unknown

Please rate the following statements for this data element using a scale of 1-5, with 1 meaning Strongly Agree and 5 meaning Strongly Disagree.

	1-Strongly Agree	2-Agree	3-Neutral	4-Disagree	5-Strongly Disagree
This data element is clearly defined and understandable					
This data element can be collected at the scene of a crash					
This data element can be completed based on facts, not speculation					
This data element has a reasonable number of selections					

Reflecting on your answers above, could this data element be improved? If so, how?

Data Element Review: Distracted By

Review the data element and answer the following questions.

Distracted By

Element Definition: Distractions that may have influenced driver/non-motorist performance, involving both an action taken by the driver/non-motorist and the source of the distraction.

Subfield 1: Action

Selections (Select 1):

- Not Distracted
- Talking/Listening
- Manually Operating (texting, dialing, playing game, etc.)
- Other Action (looking away from task, etc.)
- Unknown

Subfield 2: Source

Selections (Select 1):

- Hands-Free Mobile Phone
- Hand-Held Mobile Phone
- Other Electronic Device
- Vehicle-Integrated Device
- Passenger/Other Non-Motorist
- External (to vehicle/non-motorist area)
- Other Distraction (animal, food, grooming)
- Not Applicable (Not Distracted)
- Unknown

Please rate the following statements for this data element using a scale of 1-5, with 1 meaning Strongly Agree and 5 meaning Strongly Disagree.

	1-Strongly Agree	2-Agree	3-Neutral	4-Disagree	5-Strongly Disagree
This data element is clearly defined and understandable					
This data element can be collected at the scene of a crash					
This data element can be completed based on facts, not speculation					
This data element has a reasonable number of selections					

Reflecting on your answers above, could this data element be improved? If so, how?

Data Element Review: Work Zone-Related

Review the data element and answer the following questions.

Work Zone-Related (Construction/Maintenance/Utility)

Element Definition: A crash that occurs in or related to a construction, maintenance, or utility work zone, whether workers were present at the time of the crash or not. "Work zone-related" crashes may also include those involving motor vehicles slowed or stopped because of the work zone, even if the First Harmful Event occurred before the first warning sign.

Subfield 1: Was the crash in a construction, maintenance, or utility work zone or was it related to activity within a work zone?

Selections (Select 1):

- No
- Yes
- Unknown

Subfield 2: Location of the Crash

Selections (Select 1):

- Before the First Work Zone Warning Sign
- Advance Warning Area
- Transition Area
- Activity Area
- Termination Area
- Not Applicable/Not Within or Related to a Work Zone

Subfield 3: Type of Work Zone

Selections (Select 1):

- Lane Closure
- Lane Shift/Crossover
- Work on Shoulder or Median
- Intermittent or Moving Work
- Other Type of Work Zone
- Not Applicable/Not Within or Related to a Work Zone

Subfield 4: Workers Present

Selections (Select 1):

- No
- Yes
- Not Applicable/Not Within or Related to a Work Zone
- Unknown

Subfield 5: Law Enforcement Present

Selections (Select 1):

- No
- Yes
- Not Applicable/Not Within or Related to a Work Zone

Please rate the following statements for this data element using a scale of 1-5, with 1 meaning Strongly Agree and 5 meaning Strongly Disagree.

	1-Strongly Agree	2-Agree	3-Neutral	4-Disagree	5-Strongly Disagree
This data element is clearly defined and understandable					
This data element can be collected at the scene of a crash					
This data element can be completed based on facts, not speculation					
This data element has a reasonable number of selections					

Reflecting on your answers above, could this data element be improved? If so, how?

Data Element Review: Non-Motorist Location at Time of the Crash

Review the data element and answer the following questions.

Non-Motorist Location at Time of Crash

Element Definition: The location of the non-motorist with respect to the roadway at the time of the crash.

Selections (Select 1):

Roadway Facility

- Intersection – Marked Crosswalk
- Intersection – Unmarked Crosswalk
- Intersection – Other
- Median/Crossing Island
- Midblock – Marked Crosswalk
- Shoulder/Roadside
- Travel Lane – Other Location

Bicycle Facility

- Signed Route (no pavement marking)
- Shared Lane Markings
- On-Street Bike Lanes
- On-Street Buffered Bike Lanes
- Separated Bike Lanes
- Off-Street Trails/Sidepaths

Other Facility

- Driveway Access
- Non-Trafficway Area
- Shared-Use Path or Trail
- Sidewalk

Other, Unknown

- Other
- Unknown

Please rate the following statements for this data element using a scale of 1-5, with 1 meaning Strongly Agree and 5 meaning Strongly Disagree.

	1-Strongly Agree	2-Agree	3-Neutral	4-Disagree	5-Strongly Disagree
This data element is clearly defined and understandable					
This data element can be collected at the scene of a crash					
This data element can be completed based on facts, not speculation					
This data element has a reasonable number of selections					

Reflecting on your answers above, could this data element be improved? If so, how?

Data Element Review: Non-Motorist Contributing Action(s)/Circumstances(s)

Review the data element and answer the following questions.

Non-Motorist Contributing Action(s)/Circumstance(s)

Element Definition: The actions/circumstances of the non-motorist that may have contributed to the crash. This data element is based on the judgment of the law enforcement officer investigating the crash.

Selections (Select up to 2):

- None
- Dart/Dash
- Disabled Vehicle-Related (Working on, Pushing, Leaving/Approaching)
- Entering/Exiting Parked/Standing Vehicle
- Failure to Obey Traffic Signs, Signals, or Officer
- Failure to Yield Right-Of-Way
- Improper Passing
- Improper Turn/Merge
- Inattentive (Talking, Eating, etc.)
- In Roadway Improperly (Standing, Lying, Working, Playing)
- Not Visible (Dark Clothing, No Lighting, etc.)
- Wrong-Way Riding or Walking
- Other
- Unknown

Please rate the following statements for this data element using a scale of 1-5, with 1 meaning Strongly Agree and 5 meaning Strongly Disagree.

	1-Strongly Agree	2-Agree	3-Neutral	4-Disagree	5-Strongly Disagree
This data element is clearly defined and understandable					
This data element can be collected at the scene of a crash					
This data element can be completed based on facts, not speculation					
This data element has a reasonable number of selections					

Reflecting on your answers above, could this data element be improved? If so, how?

Data Element Review: Total Lanes in Roadway

Review the data element and answer the following questions.

Total Lanes in Roadway

Element Definition: Total number of lanes in the roadway on which this Motor Vehicle was traveling. Through lanes also includes shared through/turn lanes but excludes turn-only lanes' auxiliary lanes, such as collector-distributor lanes, weaving lanes, frontage road lanes, parking lanes, acceleration/deceleration lanes, toll collection lanes, and truck climbing lanes. Total lanes are collected in two parts as total through lanes and total auxiliary lanes.

Undivided Trafficways

(Specify 2 Values)

- Enter the total through lanes in both directions, excluding auxiliary lanes.
- Enter the total auxiliary lanes in both directions
- Not Applicable

Divided Trafficways

(Specify 2 Values)

- Enter the total through lanes in the vehicle's direction, excluding auxiliary lanes.
- Enter the total auxiliary lanes in the vehicle's direction
- Not Applicable

Please rate the following statements for this data element using a scale of 1-5, with 1 meaning Strongly Agree and 5 meaning Strongly Disagree.

	1-Strongly Agree	2-Agree	3-Neutral	4-Disagree	5-Strongly Disagree
This data element is clearly defined and understandable					
This data element can be collected at the scene of a crash					
This data element can be completed based on facts, not speculation					
This data element has a reasonable number of selections					

Reflecting on your answers above, could this data element be improved? If so, how?

Data Element Review: Trafficway Description

Review the data element and answer the following questions.

Trafficway Description

Element Definition: Indication of whether the trafficway for this vehicle is divided, whether it serves one-way or two-way traffic, and the type of lane this vehicle was using.

Subfield 1 identifies whether the trafficway associated with this vehicle serves one-way or two-way traffic.

Subfield 2 identifies whether the trafficway for this vehicle is divided.

Subfield 3 identifies the type of median barrier.

Subfield 4 identifies the configuration of the HOV/HOT lane if this vehicle's involvement in the crash was related to its entry, use of, or exit from an HOV/ HOT lane.

Subfield 5 identifies whether this crash was directly attributable to the presence of HOV/HOT lanes (e.g., movements related to HOV/HOT lanes, etc.).

Subfield 1: Travel Directions

Selections (Select 1):

- One-Way
- Two-Way

Subfield 2: Divided?

Selections (Select 1):

- Not Divided
- Not Divided, with a Continuous Left-Turn Lane
- Divided, Flush Median (greater than 4ft wide)
- Divided, Raised Median (curbed)
- Divided, Depressed Median
- Unknown

Subfield 3: Barrier Type

Selections (Select 1):

- No Barrier
- Cable Barrier
- Concrete Traffic Barrier (e.g., Jersey Barrier)
- Embankment
- Guardrail
- Other

Subfield 4: HOV/HOT Lanes

Selections (Select 1):

- None present
- Separated, Barrier, Flush (greater than 4ft wide), Raised or Depressed Median
- Not Separated, Painted Pavement Markings, Post-Mounted Delineators

Subfield 5: Crash Related to HOV/HOT Lane?

Selections (Select 1):

- No
- Yes

Please rate the following statements for this data element using a scale of 1-5, with 1 meaning Strongly Agree and 5 meaning Strongly Disagree.

	1-Strongly Agree	2-Agree	3-Neutral	4-Disagree	5-Strongly Disagree
This data element is clearly defined and understandable					
This data element can be collected at the scene of a crash					
This data element can be completed based on facts, not speculation					
This data element has a reasonable number of selections					

Reflecting on your answers above, could this data element be improved? If so, how?

Data Element Review: School Bus-Related

Review the data element and answer the following questions.

School Bus-Related

Element Definition: Indicates whether a school bus or motor vehicle functioning as a school bus for a school-related purpose is involved in the crash. The “school bus,” with or without a passenger on board, must be directly involved as a contact motor vehicle or indirectly involved as a non-contact motor vehicle (children struck when boarding or alighting from the school bus, two vehicles colliding as the result of the stopped school bus, etc.).

Selections (Select 1):

- No
- Yes, School Bus Directly Involved
- Yes, School Bus Indirectly Involved

Please rate the following statements for this data element using a scale of 1-5, with 1 meaning Strongly Agree and 5 meaning Strongly Disagree.

	1-Strongly Agree	2-Agree	3-Neutral	4-Disagree	5-Strongly Disagree
This data element is clearly defined and understandable					
This data element can be collected at the scene of a crash					
This data element can be completed based on facts, not speculation					
This data element has a reasonable number of selections					

Reflecting on your answers above, could this data element be improved? If so, how?

Data Element Review: Vehicle Configuration

Review the data element and answer the following questions.

Vehicle Configuration

Element Definition: Indicates the general configuration of this motor vehicle.

Subfield 1: Vehicle Configuration

Selections (Select 1):

- Vehicle 10,000 lbs. or Less Placarded for Hazardous Materials
- Bus/Large Van (seats for 9-15 occupants, including driver)
- Bus (seats more than 15 occupants, including driver)
- Single-Unit Truck (2-axle and GVWR > 10,000 lbs.)
- Single-Unit Truck (3 or more axles)
- Truck Pulling Trailer(s)
- Truck Tractor (Bobtail)
- Truck Tractor/Semi-Trailer
- Truck Tractor/Double
- Truck Tractor/Triple
- Vehicle More Than 10,000 lbs., Other
- Qualifying Vehicle, Unknown Configuration
- Unknown

Subfield 2: Special Sizing

Selections (Select up to 4):

- No special sizing
- Over-height
- Over-length
- Over-weight
- Over-width

Subfield 3: Permitted?

Selections (Select 1):

- Non-Permitted Load
- Permitted Load

Please rate the following statements for this data element using a scale of 1-5, with 1 meaning Strongly Agree and 5 meaning Strongly Disagree.

	1-Strongly Agree	2-Agree	3-Neutral	4-Disagree	5-Strongly Disagree
This data element is clearly defined and understandable					
This data element can be collected at the scene of a crash					
This data element can be completed based on facts, not speculation					
This data element has a reasonable number of selections					

Reflecting on your answers above, could this data element be improved? If so, how?

Data Element Review: Sequence of Events

Review the data element and answer the following questions.

Sequence of Events

Element Definition: The sequence of events are events in sequence related to this motor vehicle, including non-harmful events, non-collision harmful events, and collision events.

Selections (Select up to 4):

Non-Harmful Events

- Cross Centerline
- Cross Median
- Downhill Runaway
- End Departure (T-intersection, dead-end, etc.)
- Equipment Failure (blown tire, brake failure, etc.)
- Ran Off Roadway Left
- Ran Off Roadway Right
- Reentering Roadway
- Separation of Units
- Other Non-Harmful Event

Non-Collision Harmful Events

- Cargo/Equipment Loss or Shift
- Fell/Jumped from Motor Vehicle
- Fire/Explosion
- Immersion, Full or Partial
- Jackknife
- Other Non-Collision Harmful Event
- Overturn/Rollover
- Thrown or Falling Object

Collision with Person, Motor Vehicle, or Non-Fixed Object

- Animal (live)
- Motor Vehicle In-Transport
- Other Non-Fixed Object
- Other Non-Motorist
- Parked Motor Vehicle
- Pedalcyclist
- Pedestrian
- Railway Vehicle (train, engine)
- Strikes Object at Rest from Motor Vehicle In-Transport
- Struck by Falling, Shifting Cargo or Anything Set in Motion by Motor Vehicle
- Working Motor Vehicle

Collision with Fixed Object

- Bridge Overhead Structure
- Bridge Pier or Support
- Bridge Rail
- Cable Barrier
- Concrete Traffic Barrier
- Culvert
- Curb
- Ditch
- Embankment
- Fence
- Guardrail End Terminal
- Guardrail Face
- Impact Attenuator/Crash Cushion
- Mailbox
- Other Fixed Object (wall, building, tunnel, etc.)
- Other Post, Pole, or Support
- Other Traffic Barrier
- Traffic Sign Support
- Traffic Signal Support
- Tree (standing)
- Utility Pole/Light Support
- Unknown Fixed Object

Please rate the following statements for this data element using a scale of 1-5, with 1 meaning Strongly Agree and 5 meaning Strongly Disagree.

	1-Strongly Agree	2-Agree	3-Neutral	4-Disagree	5-Strongly Disagree
This data element is clearly defined and understandable					
This data element can be collected at the scene of a crash					
This data element can be completed based on facts, not speculation					

This data element has a reasonable number of selections					
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Reflecting on your answers above, could this data element be improved? If so, how?

Data Element Review: Direction of Travel Before Crash

Review the data element and answer the following questions.

Direction of Travel Before Crash

Element Definition: The direction of a motor vehicle's travel on the roadway before the crash. Notice that this is not a compass direction, but a direction consistent with the designated direction of the road. For example, the direction of a State-designated North-South highway must be either northbound or southbound even though a motor vehicle may have been traveling due east because of a short segment of the highway having an East-West orientation.

Selections (Select 1):

- Not on Roadway
- Northbound
- Eastbound
- Southbound
- Westbound
- Unknown

Please rate the following statements for this data element using a scale of 1-5, with 1 meaning Strongly Agree and 5 meaning Strongly Disagree.

	1-Strongly Agree	2-Agree	3-Neutral	4-Disagree	5-Strongly Disagree
This data element is clearly defined and understandable					
This data element can be collected at the scene of a crash					
This data element can be completed based on facts, not speculation					
This data element has a reasonable number of selections					

Reflecting on your answers above, could this data element be improved? If so, how?

Data Element Review: Special Function of Motor Vehicle In-Transport

Review the data element and answer the following questions.

Special Function of Motor Vehicle In-Transport

Element Definition: The type of special function being served by this motor vehicle in-transport regardless of whether the function is marked on the vehicle or aligns to the body type, at the time of the crash. For example, a 15-Passenger van being used as a school bus.

Selections (Select 1):

- No Special Function
- Ambulance
- Charter/Tour Bus
- Childcare/Daycare Bus
- Farm Vehicle
- Fire Truck
- Highway/Maintenance
- Intercity Bus
- Mail Carrier
- Military
- Non-Transport Emergency Services Vehicle
- Other Incident Response
- Police
- Public Utility
- Rental Truck (Over 10,000 lbs.)
- Safety Service Patrols – Incident Response
- School Bus (Public or Private)
- Shuttle Bus
- Taxi
- Towing – Incident Response
- Transit/Commuter Bus
- Truck Acting as Crash Attenuator
- Vehicle Used for Electronic Ride-hailing (transportation network company)
- Other
- Unknown

Please rate the following statements for this data element using a scale of 1-5, with 1 meaning Strongly Agree and 5 meaning Strongly Disagree.

	1-Strongly Agree	2-Agree	3-Neutral	4-Disagree	5-Strongly Disagree
This data element is clearly defined and understandable					
This data element can be collected at the scene of a crash					
This data element can be completed based on facts, not speculation					
This data element has a reasonable number of selections					

Reflecting on your answers above, could this data element be improved? If so, how?

Data Element Review: Cargo Body Type

Review the data element and answer the following questions.

Cargo Body Type

Element Definition: The type of body for buses and trucks more than 10,000 GVWR.

Selections (Select 1):

- No Cargo Body (bobtail, light MV with hazardous materials [HM] placard, etc.)
- Bus
- Auto Transporter
- Cargo Tank
- Concrete Mixer
- Dump
- Flatbed
- Garbage/Refuse
- Grain/Chips/Gravel
- Intermodal Container Chassis
- Log
- Pole-Trailer
- Van/Enclosed Box
- Vehicle Towing Another Vehicle
- Not Applicable (MV 10,000 lbs. or less, not displaying HM placard)
- Other
- Unknown

Please rate the following statements for this data element using a scale of 1-5, with 1 meaning Strongly Agree and 5 meaning Strongly Disagree.

	1-Strongly Agree	2-Agree	3-Neutral	4-Disagree	5-Strongly Disagree
This data element is clearly defined and understandable					
This data element can be collected at the scene of a crash					
This data element can be completed based on facts, not speculation					
This data element has a reasonable number of selections					

Reflecting on your answers above, could this data element be improved? If so, how?

Data Element Review: Contributing Circumstances - Roadway Environment

Review the data element and answer the following questions.

Contributing Circumstances – Roadway Environment

Element Definition: Apparent environmental or roadway conditions which may have contributed to the crash.

Selections (Select up to 2):

- None
- Animal(s)
- Debris
- Glare
- Non-Highway Work
- Obstructed Crosswalks
- Obstruction in Roadway
- Prior Crash
- Prior Non-Recurring Incident
- Regular Congestion
- Related to a Bus Stop
- Road Surface Condition (wet, icy, snow, slush, etc.)
- Ruts, Holes, Bumps
- Shoulders (none, low, soft, high)
- Toll Booth/Plaza Related
- Traffic Control Device
- Traffic Incident
- Visual Obstruction(s)
- Weather Conditions
- Work Zone (construction/maintenance/utility)
- Worn, Travel-Polished Surface
- Other
- Unknown

Please rate the following statements for this data element using a scale of 1-5, with 1 meaning Strongly Agree and 5 meaning Strongly Disagree.

	1-Strongly Agree	2-Agree	3-Neutral	4-Disagree	5-Strongly Disagree
This data element is clearly defined and understandable					
This data element can be collected at the scene of a crash					
This data element can be completed based on facts, not speculation					
This data element has a reasonable number of selections					

Reflecting on your answers above, could this data element be improved? If so, how?

Data Element Review: Estimated Travel Speed of Motor Vehicle In-Transport

Review the data element and answer the following questions.

Estimated Travel Speed of Motor Vehicle In-Transport

Element Definition: The estimated travel speed the motor vehicle in-transport was traveling prior to the occurrence of the crash. (Completed for fatal crashes only.)

Subfield 1: Estimated Travel Speed

Selections (Select 1):

- Stopped Motor Vehicle
- Reported Speed Up to 150 (miles per hour)
- Greater than 150 miles per hour
- Unknown

Subfield 2: Source of Travel Speed Estimation

Selections (Select 1):

- Event Data Recorder (EDR)
- Crash Reconstruction
- Automated Traffic Enforcement (e.g., Speed Camera)
- LEO Estimation
- Witness testimony
- Not Applicable
- Unknown

Please rate the following statements for this data element using a scale of 1-5, with 1 meaning Strongly Agree and 5 meaning Strongly Disagree.

	1-Strongly Agree	2-Agree	3-Neutral	4-Disagree	5-Strongly Disagree
This data element is clearly defined and understandable					
This data element can be collected at the scene of a crash					
This data element can be completed based on facts, not speculation					
This data element has a reasonable number of selections					

Reflecting on your answers above, could this data element be improved? If so, how?

Data Element Review: Hazardous Materials

Review the data element and answer the following questions.

Hazardous Materials (Cargo Only)

Element Definition: Indication of the hazardous materials identification and class being transported by the motor vehicle, and whether hazardous materials were released.

Subfield 1: Hazardous Materials ID

Selections (Specify):

- No HM Placard Displayed
- 4-digit Hazardous Materials ID number or name taken from the middle of the diamond or from rectangular box
- Unknown

Subfield 2: Hazardous Materials Class

Selections (Specify):

- No HM Placard Displayed
- 1-digit Hazardous Materials Class number from the bottom of diamond
- Unknown

Subfield 3: Release of hazardous materials from a cargo compartment (e.g., trailer), cargo container (e.g., tank), or from a package?

Selections (Select 1):

- No
- Yes
- Not Applicable
- Unknown if Released

Please rate the following statements for this data element using a scale of 1-5, with 1 meaning Strongly Agree and 5 meaning Strongly Disagree.

	1-Strongly Agree	2-Agree	3-Neutral	4-Disagree	5-Strongly Disagree
This data element is clearly defined and understandable					
This data element can be collected at the scene of a crash					
This data element can be completed based on facts, not speculation					
This data element has a reasonable number of selections					

Reflecting on your answers above, could this data element be improved? If so, how?

Data Element Review: Helmet Use

Review the data element and answer the following questions.

Helmet Use

Element Definition: This element records the helmet use, and any indications of improper use of the helmet, by motor vehicle occupants of Motor Vehicle Body Type Categories All-Terrain Vehicle/All-Terrain Cycle (ATV/ATC), Snowmobile, Moped, Recreational Off-Highway Vehicles (ROV), 2-Wheeled Motorcycle, 3-Wheeled Motorcycle, and Autocycle at the time of the crash.

Subfield 1: Helmet Use

Selections (Select 1):

- Not Applicable
- No Helmet
- DOT-Compliant Motorcycle Helmet
- Helmet, Other than DOT-Compliant Motorcycle Helmet
- Helmet, Unknown If DOT-Compliant
- Unknown if Helmet Worn

Subfield 2: Indication of Improper Use

Selections (Select 1):

- None Used / Not Applicable
- No Indication of Improper Use
- Yes, Indication of Improper Use

Please rate the following statements for this data element using a scale of 1-5, with 1 meaning Strongly Agree and 5 meaning Strongly Disagree.

	1-Strongly Agree	2-Agree	3-Neutral	4-Disagree	5-Strongly Disagree
This data element is clearly defined and understandable					
This data element can be collected at the scene of a crash					
This data element can be completed based on facts, not speculation					
This data element has a reasonable number of selections					

Reflecting on your answers above, could this data element be improved? If so, how?

Data Element Review: Law Enforcement Suspects Alcohol Use

Review the data element and answer the following questions.

Law Enforcement Suspects Alcohol Use

Element Definition: Driver or non-motorist involved in the crash suspected by law enforcement to have used alcohol.

Selections (Select 1):

- No
- Yes
- Unknown

Please rate the following statements for this data element using a scale of 1-5, with 1 meaning Strongly Agree and 5 meaning Strongly Disagree.

	1-Strongly Agree	2-Agree	3-Neutral	4-Disagree	5-Strongly Disagree
This data element is clearly defined and understandable					
This data element can be collected at the scene of a crash					
This data element can be completed based on facts, not speculation					
This data element has a reasonable number of selections					

Reflecting on your answers above, could this data element be improved? If so, how?

Data Element Review: Motor Vehicle Automated Driving System(s)

Review the data element and answer the following questions.

Motor Vehicle Automated Driving System(s)

Element Definition: “The hardware and software that are collectively capable of performing part or all of the dynamic driving task on a sustained basis; this term is used generically to describe any system capable of level 1-5 driving automation.” (SAE 2016)

Subfield 1: Automation System or Systems in Vehicle

Selections (Select 1):

- No
- Yes
- Unknown

Subfield 2: Highest Automation System Level in Vehicle

Selections (Select 1):

- No Automation
- 1 - Driver Assistance
- 2 - Partial Automation
- 3 - Conditional Automation
- 4 - High Automation
- 5 - Full Automation
- Automation Level Unknown
- Unknown

Subfield 3: Highest Automation System Level Engaged at Time of Crash

Selections (Select 1):

- No Automation
- 1 - Driver Assistance
- 2 - Partial Automation
- 3 - Conditional Automation
- 4 - High Automation
- 5 - Full Automation
- Automation Level Unknown
- Unknown

Please rate the following statements for this data element using a scale of 1-5, with 1 meaning Strongly Agree and 5 meaning Strongly Disagree.

	1-Strongly Agree	2-Agree	3-Neutral	4-Disagree	5-Strongly Disagree
This data element is clearly defined and understandable					
This data element can be collected at the scene of a crash					
This data element can be completed based on facts, not speculation					

This data element has a reasonable number of selections					
---	--	--	--	--	--

Reflecting on your answers above, could this data element be improved? If so, how?

Data Element Review: Condition at Time of the Crash

Review the data element and answer the following questions.

Condition at Time of the Crash

Element Definition: Any relevant emotional, mental, or physical conditions of the individual (driver or non-motorist) that are directly related to the crash.

Selections (Select up to 2):

- Apparently Normal
- Asleep or Fatigued
- Emotional (depressed, angry, disturbed, etc.)
- Ill (sick), Fainted
- Physically Impaired
- Under the Influence of Medications/Drugs/Alcohol
- Not Applicable (No Driver)
- Other
- Unknown

Please rate the following statements for this data element using a scale of 1-5, with 1 meaning Strongly Agree and 5 meaning Strongly Disagree.

	1-Strongly Agree	2-Agree	3-Neutral	4-Disagree	5-Strongly Disagree
This data element is clearly defined and understandable					
This data element can be collected at the scene of a crash					
This data element can be completed based on facts, not speculation					
This data element has a reasonable number of selections					

Reflecting on your answers above, could this data element be improved? If so, how?

Data Element Review: Restraint System Use

Review the data element and answer the following questions.

Restraint System Use

Element Definition: The restraint equipment in use by the occupant and any indication of improper use of the available restraint system at the time of the crash.

Subfield 1: Type of Restraint System in Use

Selections (Select 1):

- Booster Seat
- Child Restraint System – Forward Facing
- Child Restraint System – Rear Facing
- Child Restraint – Type Unknown
- Lap Belt Only Used
- Restraint Used – Type Unknown
- Shoulder and Lap Belt Used
- Shoulder Belt Only Used
- Stretcher
- Wheelchair
- Racing-Style Harness Used
- None Used/Not Applicable
- Other
- Unknown

Subfield 2: Indication of Improper Use

Selections (Select 1):

- None Used / Not Applicable
- No Indication of Improper Use
- Yes, Indication of Improper Use

Please rate the following statements for this data element using a scale of 1-5, with 1 meaning Strongly Agree and 5 meaning Strongly Disagree.

	1-Strongly Agree	2-Agree	3-Neutral	4-Disagree	5-Strongly Disagree
This data element is clearly defined and understandable					
This data element can be collected at the scene of a crash					
This data element can be completed based on facts, not speculation					
This data element has a reasonable number of selections					

Reflecting on your answers above, could this data element be improved? If so, how?

Data Element Review: Underride/Override

Review the data element and answer the following questions.

Underride / Override

Element Definition: An underride refers to this motor vehicle sliding under another motor vehicle during a crash. An override refers to this motor vehicle riding up over another motor vehicle. Either can occur with a parked motor vehicle.

Selections (Select 1):

- No Underride or Override
- Underride
- Override
- Unknown

Please rate the following statements for this data element using a scale of 1-5, with 1 meaning Strongly Agree and 5 meaning Strongly Disagree.

	1-Strongly Agree	2-Agree	3-Neutral	4-Disagree	5-Strongly Disagree
This data element is clearly defined and understandable					
This data element can be collected at the scene of a crash					
This data element can be completed based on facts, not speculation					
This data element has a reasonable number of selections					

Reflecting on your answers above, could this data element be improved? If so, how?

Experience and Background

Number of years working as a Law Enforcement Officer writing traffic crash reports

- a) Less than 1 year
- b) 1-3 years
- c) 4-6 years
- d) 7-9 years
- e) 10 or more years

Estimated number of crash reports completed in past 12 months

- a) 20 or Less
- b) 21-40
- c) 41-60
- d) 61-80
- e) 81 or more

Select all the types of crashes for which you have completed reports

- crash with property damage only (no injuries)
- crash with minor injury
- crash with serious injury
- crash with fatal injury
- crash involving released hazardous material
- crash with an alcohol-impaired driver
- crash with drug-impaired driver
- crash involving large vehicle or bus (FMCSA reportable)
- crash involving bicyclist
- crash involving pedestrian
- crash involving motorcycle

Select the highest level of training you have received for completing traffic crash reports

- a) Police academy only
- b) Additional training upon entering traffic division
- c) On the job training/mentoring
- d) Periodic training (less often than annual)
- e) Annual training
- f) Regular training (more often than annual)
- g) Advanced training in crash investigation and/or reconstruction