

MMUCC



Model Minimum Uniform
Crash Criteria

Model Minimum Uniform Crash Criteria 3rd Edition



Purpose

- Better crash data = Better traffic safety countermeasures = Fewer lives lost
 - Best data is:
 - ◆ Accurate
 - ◆ Uniform
 - ◆ Integrated
 - ◆ Timely
 - ◆ Accessible
 - ◆ Complete
- } MMUCC



Uniform & Integrated

- **Most States collect a similar core of data about crashes; however, the devil is in the details**
- **Without uniform core data, safety problems are prolonged because they are more difficult to identify and rectify**



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Development

- **Collaborative effort – States/Feds, data collectors/data users**
- **MMUCC Guideline first published in 1998**
- **To keep it current, MMUCC is updated every 5 years**
 - ◆ *2nd Edition published 2003*
 - ◆ *3rd Edition published 2008*



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MMUCC Guideline

- **A model minimum set of data elements describing a motor vehicle traffic crash**
- **Data elements include definition, attributes, and rationale for use**
- **Crash, Vehicle, Person, and Roadway categories**
- **Based on other national data standards**
- **Recommended minimum threshold (\$1000); no recommended format**



New Edition Changes

- **2nd Edition = 111 data elements**
 - ◆ 77 elements collected at scene
 - ◆ 34 derived or linked elements
- **3rd Edition = 107 data elements**
 - ◆ 75 elements collected at scene
 - ◆ 32 derived or linked elements



Elements Collected at Scene

- **One element added (+1)**
 - ◆ **Bus Use**
- **Two elements Removed (-2)**
 - ◆ **Date and Time of Crash Reported by Law Enforcement Agency**
 - ◆ **Underride/Override**
- **Two elements combined into one (-1)**
 - ◆ **Condition at Time of Crash – combines Driver Condition with Non-Motorist Condition**

V22. Bus Use

- **To evaluate the outcome of crashes involving motor vehicles used as buses**
- **Attributes:**
 - ◆ **Not a Bus**
 - ◆ **School**
 - ◆ **Transit/Commuter**
 - ◆ **Charter/Tour**
 - ◆ **Shuttle**



Other Major Changes

- **Manner of Crash/Collision Impact (C8)**
- **Relation to Junction (C15)**
- **Work Zone Related (C18)**
- **Extent of Damage/Removal (V24)**
- **Restraint Systems/Helmet Use (P7)**
- **Driver License Number & Class (P11)**
- **Non-Motorist Actions Prior to and at Time of Crash and Non-Motorist Location at Time of Crash (P22-24)**



Voluntary (with strings attached)

- **SAFETEA-LU & MMUCC – States must certify that they are MMUCC compliant or will use 408 funds to become compliant as soon as practicable**
- **Goal is to encourage progressively greater uniformity, thereby improving data utility**



- **WWW.MMUCC.US**
 - ◆ Latest news & FAQs
 - ◆ Forum
 - ◆ Resources and related links
 - ◆ Testimonials from MMUCC Users
 - ◆ Training module



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Online Training

- www.mmucc.us/MMUCCTraining/index.htm
- Intended to complement and supplement the MMUCC Guideline by providing examples of element attributes and additional definitions

Training Module Uses

- **Crash report revision meetings**
- **Source of content for law enforcement instruction manuals**
- **Training content for update training of law enforcement, data entry personnel, etc.**
- **Guidance for system developers**



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Training Module Example

MODEL MINIMUM UNIFORM CRASH CRITERIA

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Crash Context - Trafficway



Exit Training

Main Menu

Instructions for Use

Element Index

Alphabetic Element List

Crash Information

Vehicle Information

Occupant Related

Crash Events

Crash Damage

Crash Context - Trafficway

Crash Context - Environment

Crash Context - Trafficway
(select an element for review)

Trafficway Description V14

Direction of Travel Before Crash V13

Relation to Junction C15

Type of Intersection C16

Traffic Control Device V17

Motor Vehicle Posted/Statutory Speed Limit V12

Total Lanes in Roadway V15

Roadway Alignment and Grade V16

Work Zone-Related C18



Training Module Example

MODEL MINIMUM UNIFORM CRASH CRITERIA

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Vehicle Information



Main Menu

1. Bus Use
2. Element Definition and Rationale
3. Element Attributes
4. Attribute Detail: Not a Bus, School
5. Attribute Detail: Transit/Commuter, Intercity
6. Attribute Detail: Charter/Tour, Shuttle

Attribute Detail: Vehicle Used as Other Bus

Charter/Tour - A company providing transportation on a for-hire basis and demand-response basis, usually round-trip service for a tour group or outing.

Shuttle - Private companies providing transportation services for their own employees, non-governmental organizations (such as churches and non-profit groups), and non-educational units of government (such as departments of corrections). (Examples include transporting people from airports, hotels, rental car companies, and business facility to facility.)



Charter



Shuttle

Why Use MMUCC?

- ***"Data provided by MMUCC allows law enforcement to look at statistics, realize where there's a problem that's causing crashes, and adjust tactics to better prevent crashes from happening."***
 - ◆ ***Major Barry Bratt, Colorado State Patrol***

- ***"When trying to pass or improve traffic safety laws, legislators want to see real data applicable to the problem. MMUCC allows us to do that."***
 - ◆ ***Carol Williams, Oklahoma Highway Safety Office***